

~~WOODS~~
O.C.

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I N T E R O F F I C E M E M O

TO: Gordon Bell
Larry Portner
Si Lyle

Date: 29 August 1980
From: Ken Olsen
Dept: Administration
MS: ML10-2/A50 Ext: 2301

CC: Steve Coleman
Win Hindle
Ron Cadieux

SUBJ: Lecture at October WOODS Meeting

I would like you three to study current thinking on project management and matrix management (not Digital-style matrix management), and I'd like one of you to lecture us for a half hour or so at the October WOODS Meeting of the Operations Committee.

This WOODS Meeting is going to be two days of lectures, most of them prepared by people in-house, on current management thinking which bears on today's problems.

During World War II, and I'm sure all through the history of mankind, people learned to pick up teams of people to solve particular project problems. These people maintained a reporting relationship to their original groups and yet were part of the team and worked hard on the schedule and the goals of the team. This has been written up the last few years and analyzed, and also given the name matrix management. I'm sure people have done this in order to solve the problems which we now have in Engineering, and I think it would be good if you would lecture us on current thinking in this area.

I, of course, would like you at the same time to solve the problems of organization within Engineering. The way I would like to see us run this short-term project which I am trying to influence now would be along this line, and I'd like to see you extend it to all of Manufacturing. In project management one picks up people from the rest of the company to form a team which has all the skills and all the influence necessary to get a project done. Together they work on the schedule, commit themselves to the schedule, and work as a team to meet the schedule. In the case of our Engineering projects, there would be someone from hardware, software, packaging, power supply, field service, manufacturing, technical writing, and maybe--or maybe not--product management and marketing.

The team leader would manage the team in a good businesslike way. We would probably give him certain helps like a computer and programs so that he is always in charge of the project and has all the data he needs to run it. All the data he collects and all the red tape he does would be for his own use and almost a negligible amount would be generated to be prepared for other people. Ideally, all the financial data collected on the project would be for his use, and just a summary of that data would be passed on to the financial people, and no other financial data would need to be collected.

This project leader then would have his own meetings for schedule review on a regular basis. With his own team he would probably meet once a week, and he'd probably meet with the rest of the company once a month.

His meeting with the rest of the company would be quite different from what it is today. Today anybody can demand a command performance by an engineering leader at any time, and in any format, and in any amount of detail, and with any questions. With this way of doing things, the project leader would have his data prepared and mailed out in the form which he needed to run the project, and he would then invite those interested to come to a meeting at his convenience once a month where he would present the data verbally and listen to questions.

Today it appears that anybody can stop by and try to influence the engineering projects. And they pressure to have changes to specifications made informally. With this new system, anybody who comes around and suggests a change will get the answer: "Say, that's a great idea. Write it down and at our quarterly review, I'll introduce that with all the others and see if the group wants to make the changes."

When there is coordination needed between projects, it's relatively easy. It is the responsibility of each of the project engineers to do it, and they can call in anyone they need to help, but we don't try to get 400 people in a room and hope that a consensus develops.

No longer would Field Service and Engineering be bottlenecks. They are represented on the team, are committed to the same schedule and have the same motivation and pressure to meet the schedule on time.

/lh

* d i g i t a l *

W. Woods

TO: SHEL DAVIS

DATE: FRI 22 AUG 1980 9:23 AM EDT

cc: OPERATIONS COMMITTEE:

FROM: KEN OLSEN

DEPT: ADMINISTRATION

EXT: 223-2301

LOC/MAIL STOP: ML10-2/A50

SUBJECT: LECTURE ON PROFESSIONAL CAREER PLANNING FOR NEGOTIATORS

At our Operations Committee Woods Lecture series in October, will you prepare a half hour to forty-five minute lecture on career growth for professional people in a negotiating environment.

During the recession in 1974, large numbers of technical people lost their jobs and many were disillusioned and left the industry because they were well educated and had many years of experience and suddenly found out that they had no skills and competence to offer. It was my observation that most of the people had good training and a few years of valid experience and then went off to negotiate, review, plan, schedule and visit Washington. In these jobs, their pay scale got to be higher and higher and the better they talked, the higher they were paid. The companies were very dependent upon them particularly when they were negotiating with the government and their pay scales got to be very high.

When things suddenly came to a halt and their companies didn't need negotiators, these people went out looking for jobs and in their resumes it was hard to explain what their skills were. Fifteen years of negotiating didn't really seem like a skill that anybody wanted to hire.

It seemed to me with those people I knew, that if one spent all of his career doing something useful in his line of work that developed him in his profession, he was able to find jobs quite readily even in the worst of the recession. At that time, we said that if a 69 year old power supply designer walked in the door, we would have hog tied him and never let him out again. Forty-nine years of experience of designing power supplies would have made him one of the most valuable people in the country. If he spent ten years on power supply and thirty years negotiating, we wouldn't give him the time of day.

At that time, I resolved that we would never generate a bunch of professional people who would be useless if their present job disappeared. But, alas, the same things that government organizations were doing has taken over Digital and we now spend a large part of our time negotiating and a large number of people spend full time negotiating. People are terrified when we propose eliminating some of the need for negotiating like I tried to do this last year in the decision making of Europe. When you ask what their real problem is they always say "our problem is we can't do all the negotiating we would like to do with field service; everything is cut and dried and simple and we'd like to spend the rest of our waking hours negotiating with field service and we're frustrated because we all like to spend the same time

negotiating with them that we do with other parts of the company".

You've been watching this company for some time and I feel it's your responsibility to worry about the future of the careers of our professional people. I think it would be worthwhile if you tell us your observations and what you think of their potential for getting other jobs if they ever leave Digital or if Digital ever has to let them go.

If one of our Product Line managers went out looking for a job and had a complete understanding of the inter-relationship between profit/return assets, inventory/accounts receivable, cash flow and so forth, he would be in great demand in this company or anywhere else. The product line manager who says all these decisions were made for me and I spend all my life negotiating with Europe, Asia, Canada, finance and manufacturing and they tell me what to do, I'm not sure how useful he will be.

An engineer who spent ten years working in Engineering would be in great demand today particularly if he told what products he had developed and what processes he had worked on but an engineer who has spent ten years negotiating, and in particular negotiating ideas that he never had to write down, I think would have a tough time getting a job.

/mn
12:28

O.C.

* d i g i t a l *

TO: see "TO" DISTRIBUTION

cc: OPERATIONS COMMITTEE:
EDWARD A. SCHWARTZ

DATE: TUE 19 AUG 1980 4:00 PM EDT
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

SUBJECT: INVENTORY

I've decided not to analyze our inventory situation from a corporate level. We say each product line should run as a business with each group vice president helping them do that and so I'd like to turn it back to the product lines and their group vice president.

The subject of the September Board of Directors Meeting will be inventory. You are already preparing to tell us what you are doing to get rid of the old inventory. In addition, I'd like to have you review your present inventory situation. This would be the first part in a probably long series of reports to the Directors on inventory.

I'd like Stan, Julie and Andy to report what the cash flow has been in each of their product lines in the last few years and in the next few years according to our plans. Then I'd like to have you tell them what the breakdown is in the various parts of the inventory for each of the product lines.

Then, in detail, I'd like to go over one product line. I'd like to review how the decisions are made as to what product should be in the product line and when things are removed from the product line to save on inventory.

We've been measuring return on assets for the product lines for many years and I'd like to explain to the Board how this is used in making inventory decisions.

Jack Smith should explain his part of the inventory of the Corporation. He should explain where he keeps inventory, how he makes decisions and what his plans are for cutting it down (or making it bigger when it helps business).

I think it also would be good to tell the Directors what limits the growth in each of the product lines. In some cases, they have big ambitions and the Operations Committee cuts it down to size. Sometimes, there are other factors and I think we ought to record periodically just what these are. Now, apparently Jack Smith can manufacture more so it is not manufacturing. If it's resources, then one will have to explain why he needs so much inventory for the level he is operating at.

Two years ago, when we had some cancellations, the product lines cut way back on their orders to the point where if Jack followed it, he would have fired 80 percent of the manufacturing department. Will you review for the Board of Directors what

happened at that time and what can we expect in cutback requests from production if the order rate of your product lines dropped 10% and what could we expect if they dropped 20%.

/mn

"TO" DISTRIBUTION:

ANDY KNOWLES
JACK SMITH

JULIUS MARCUS

STAN OLSEN

6. e

* d i g i t a l *

TO: A. M. BERTECCHI
*WIN HINDLE

DATE: THU 31 JUL 1980 9:03 AM EDT
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

SUBJECT: OFFICE AUTOMATION

By the nature of the job, you have a reputation for squelching ideas and always wanting to save money instead of making investments. In order to improve your reputation and experience, I'd like you to be a committee of two and collect all the ideas for an "office of the future", word processing and electronic mail and come up with a presentation for the Board of Directors and Operations Committee showing what we should do and how we run it.

10.102

EMS sent 6/6
WLJ: 86
File in OC

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: digital :
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I N T E R O F F I C E M E M O

TO: Ken Olsen
cc: Bill Long
 Andy Knowles
 Stan Olsen
 Julius Marcus

Date: June 6, 1980
From: Win Hindle
Dept: Corporate Operations
 MS: ML10-2/A52 Ext: 2338

SUBJECT: WORLDWIDE MARKETING STRATEGY

Digital does not and should not have a worldwide marketing strategy, but each Product Line should have one. The strategy should state the market need being addressed, the proposed pricing, and the products to be sold. Actually, a Product Line could have several worldwide marketing strategies operating at any one time as long as they are clear to everyone.

ps

5/9/79 H.P.S. Shel. D. (0.9)

1. Competent individuals
2. High ethical st'ds. (not set by top mgmt.)
3. High st'd of perf. (not set by top mgmt.)
4. Lots of trust, no surprises. (top mgmt.)
5. Positive leadership, not heavy handed.
6. Individuals took responsibility

DEC

1. Dynamic industry -
2. Ken - Quality Co.
 - We Care about customers
 - Make a Contribution
 - Have fun.
3. Financial objectives
4. Mkt. & prod. strategies -
Can set individual goals within these parameters - and then don't sub-optimize.

we can do better at structure -
if mgt is not to motivate and do not motivate

O.C.

* d i g i t a l *

TO: see "TO" DISTRIBUTION

DATE: TUE 8 APR 1980
FROM: WIN HINDLE
DEPT: CORPORATE OPERATIONS
EXT: 223-2338
LOC/MAIL STOP: ML10-2 A53

SUBJECT: ECONOMIC UNCERTAINTY

DIGITAL

INTEROFFICE MEMORANDUM

TO: Operations Committee
O.C. Direct Reports

DATE: 4/7/80 Mon 14:25:37
FROM: Win Hindle
DEPT: Corporate Operations
EXT: 223-2338
LOC: ML10-2/A53

SUBJ: Economic Uncertainty

It hardly needs to be reported that these are very uncertain times in all the economies of the world. As we develop our plans for FY81/82, we must assure ourselves that we are prudently prepared for a wide variety of potential situations.

We are currently taking the following steps to manage these uncertainties:

- o Al Bertocchi is leading a task force to closely monitor the world economies and their influence on DEC. The objective is early warning of impending problems.
- o Our plans for FY81/82 will meet our established profit goals for FY81/82 at our planned volumes to provide profit coverage for uncertainties.
- o Under the leadership of the Product Groups we are developing contingency plans for both a "mild" and "steep" recession. Detailed instructions are being supplied by Dave Packer.
- o We are expecting you to carefully manage the Q-4/Q-1 expense ramp. The Group Controllers are working these expense levels directly with each Group.

I believe we have an opportunity to manage our way effectively through these uncertainties. We can do this only with your support and leadership.

WRH/bwf.

"TO" DISTRIBUTION:

FRANK KALWELL
R L LANE
JOE GAFFNEY
BRUCE DELAGI
ULF FAGERQUIST
GRANT SAVIERS
BOB THORLEY
JOHN ALEXANDERSON
JOHN HOLMAN
BILL THOMPSON
STEVE SMITH
PATRICK COURTIN
GERRI WEATHERS
GUS ASHTON
MITCH KUR
SY SACKLER
ILAN MESHOULAM
BOB PUFFER àCLEM
DAVE THORPE àCLEM
DICK PASCAL àCLEM
ED KRAMER àCLEM
HENRY CROUSE àCLEM
JERRY WITMORE àMR16
LARRY BORNSTEIN àMR16
PETER SMITH àMR16
WILL THOMPSON àCLEM

GERALD T MOORE
DON BUSIEK
IRWIN JACOBS
GERALD V BUTLER
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DICK POULSEN
CHARLIE SPECTOR
GEORGE CHAMBERLAIN
ART CAMPBELL
ALBERT MULLIN
BILL JOHNSON
JOHN SIMS
SI LYLE
JOHN MEYER
SAM FULLER
CURT COLLISON
ABBOTT WEISS àCLEM
DAN INFANTE àCLEM
DENNY BJORK àCLEM
DICK YEN àCLEM
GENE GROSS àCLEM
JACK MACKEN àMR16
JIM CUDMORE àCLEM
OPERATIONS COMMITTEE:
RON EISENHauer àCLEM

KEN SENIOR
LARRY PORTNER
DICK CLAYTON
WARD MACKENZIE
ROGER CADY
CLIFF CLARKE
BRUNO DURR
JOHN S. FISHER
HENRY ANCONA
PAT KRESS
DEL LIPPERT
BARRY BURNS
ELLEN OBER
AL CRAWFORD
RON LEBLEU
AL FITZ
BILL HANSON àCLEM
DAVE KNOLL àCLEM
DICK ESTEN àCLEM
DON HUNT àCLEM
HARVEY WEISS àMR16
JEAN CLAUDE PETERSCHMITT àCLEM
JIM PITTS àMR16
OPERATIONS COMMITTEE: àCLEM
ROSE ANN GIORDANO àMR16

O.C.

C O M P A N Y C O N F I D E N T I A L

DIGITAL

INTEROFFICE MEMORANUM

TO: Jeff Randall

DATE: 3/18/80 Tue 10:28:20

cc: Ken Olsen
Shel Davis

FROM: Win Hindle
DEPT: Corporate Operations
EXT: 223-2338
LOC: ML10-2/A53

SUBJ: Key Manager Support

I like your objectives in wanting to provide transportation help or special services to free up productive time for key managers. But I want to be awfully careful about not giving senior people "perquisites" in any sense. Whatever we do must make excellent business sense and never be done only to increase personal, non-business convenience. We should not do anything that would be regarded by an average employee (not a complainer) as "self-serving" on the part of a manager.

For example, I ride the company helicopter to the Airport when going off for a personal weekend. My own thinking on this is that the helicopter is going anyway, and it allows me extra time for work at the beginning of a weekend and more family time at the end. This has seemed OK to me under my own ground rules, whereas taking a special flight would clearly not be OK.

In your memo, you requested ideas on what new services might be needed. The only one I can think of is the ground transportation at Logan Airport. I believe we should go back to having a van service to take helicopter passengers to their airline.

As to who should be in the category of key managers, my own list would include the Operations Committee, plus all people who report to an Operations Committee Member. But on occasions, anyone who has an urgent need should qualify. Let's leave some room for judgment in this because we are not smart enough to plan everything.

WRH/bwf

* d i g i t a l *

TO: see "TO" DISTRIBUTION

DATE: MON 17 MAR 1980 1:32 PM EST
FROM: JEFF RANDALL
DEPT: ADMIN TRANSPORTATION
EXT: 223-8330
LOC/MAIL STOP: MS B86

SUBJECT: KEY MANAGER SUPPORT

IT IS THE INTENTION OF THE TRANSPORTATION GROUP TO BEGIN TO DEVELOP AND PACKAGE MORE SERVICES TARGETED TO THE TRANSPORTATION COMMUNICATION NEEDS OF KEY MANAGERS. GEOGRAPHIC DISPERSMENT, THE INCREASING COMPLEXITY OF THE COMPANY AND THE EFFECTS OF AIRLINE DEREGULATION SUBSTANTIALLY INCREASE THE POTENTIAL FOR HIGH RETURN INVESTMENTS IN THIS AREA AS AN ALTERNATIVE TO THE CONTINUED HIGH RATE OF GROWTH OF OUR HIGH-VOLUME SERVICES OFFERED TO ALL COMPANY EMPLOYEES.

YOUR ASSISTANCE IS REQUESTED IN TWO AREAS:

1. WHAT TRANSPORTATION NEEDS OF YOURSELVES OR YOUR KEY MANAGERS ARE PRESENTLY NOT BEING MET BY HIGH-VOLUME COMMERCIAL OR COMPANY OPERATED SERVICES?
2. WHO ARE THE KEY MANAGERS IN YOUR ORGANIZATION WHOM YOU FEEL SHOULD BE MADE AWARE OF THESE LIMITED, SPECIALIZED SERVICES AS THEY ARE MADE AVAILABLE?

IT IS MY INTENTION TO MAKE CERTAIN THAT EACH OF THESE KEY MANAGERS IS FULLY AWARE OF THE SPECIALIZED TRANSPORTATION SERVICES THAT ARE AVAILABLE TO IMPROVE THEIR INDIVIDUAL EFFECTIVENESS. SOME OF THESE SERVICES NOW AVAILABLE AND NOT PRESENTLY OVER UTILIZED ARE: CHARTER AIRCRAFT, DEMAND SHUTTLES, DEMAND HELICOPTER SERVICE AND THE MOBILE CONFERENCE ROOM. IN ADDITION TO DEVELOPING ANY NEW SERVICES, EACH KEY MANAGER WILL BE FULLY BRIEFED ON METHODS OF ADAPTING OUR CURRENT RESOURCES TO THEIR TRANSPORTATION NEEDS.

THANK YOU FOR YOUR HELP IN THIS MATTER

"TO" DISTRIBUTION:

KEN OLSEN ✓	LARRY PORTNER ✓	IRWIN JACOBS ✓
DICK CLAYTON ✓	EDWARD A. SCHWARTZ ✓	BILL HANSON @CLEM ✓
BOB PUFFER @CLEM ✓	ED KRAMER @CLEM ✓	GERRY MOORE @MK12 ✓

JEAN CLAUDE PETERSCHMITT @GENBOPERATIONS COMMITTEE:
OPERATIONS COMMITTEE: @CLEM TED JOHNSON @CLEM

O.C.

C O M P A N Y C O N F I D E N T I A L

DIGITAL

INTEROFFICE MEMORANUM

TO: Operations Committee

DATE: 2/27/80

FROM: Win Hindle

DEPT: Corporate Operations

EXT: 223-2338

LOC: ML10-2/A53

SUBJ: Jean-Claude Peterschmitt & Geoff Shingles

Jean-Claude and Geoff have recently been offered opportunities to take attractive jobs in Maynard. After considering these jobs in detail, each one has decided that personal (family) reasons would make it impossible to move at present. Both of them agonized over these decisions and both feel that to some extent they have let us all down.

I propose a moratorium on offering either of them jobs in the U. S. until at least the Summer of 1981. If we keep offering jobs and they keep feeling badly about saying NO, their morale will begin to suffer. They are doing vital jobs for DEC now and need our support in their current assignments.

WRH/bwf

Ken believes we should (OC or MC) formally approve major projects at the beginning.

Ken's points 11/15/79

KHO
O.C.

Tribalistic - getting together and complaining about other groups.

We have family-type problems.

Lay out set of rules about how we get along.

1. If problem arises, try to work it out before coming to O.C. After you try & fail, then bring it to O.C.
2. If something bothers you, put it on agenda.

Ideal - People work for functions but live with groups they serve.

Basic question - Do P/G run business or do functions run business.

Answer P/G

Who runs strategy - PG

Worried about when members of O.C. become saturated.

Must lay out org. so that jobs are doable.

~~Basic question - Do P/G run business or do functions run business?~~

Shel's Observations

11/12/79

- ① Don't try to build something (high use or low use or anything) unless it fits with co. norms.
- ② Likes it here at OEC.
- ③ Lots of frustrated people in O.C. - Shel is frustrated - we (O.C.) are unpredictable. Too many hidden agendas - too much win-lose in O.C. (If your idea wins, somehow I lose)
- ④ Why don't we have more fun + sense of accomplishment in O.C.?
- ⑤ Aren't we 2 groups - one with Ken, one group without Ken - how do we work together individually?
- ⑥ Is there enough optimism to change this group (O.C.) for better? Need better learning curve. Learn meetg. feeling drained? 5% improvement would have big impact.
- ⑦ We underestimate the effect of O.C. on rest of co. - we should act better.
- ⑧ Hidden agendas - got to get them out
Terminals Div. - can Art run it?
Can Jack and Ted collaborate if they are separated?
Is Jack Smith a favorite of Ken?
What does Andy do next?

O.C. ~~Ken Olsen~~

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: digital :
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I N T E R O F F I C E M E M O

TO: OPERATIONS COMMITTEE

cc: John Fisher

Date: 17 OCT 79

From: Ken Olsen

Dept: Administration

MS: ML10-2/A50

Ext: 2301

We always had a theory which said, "We have a free flow of communication between anybody at any level, but all decisions are made formally." We now have a new theory which we never formally decided upon, and we have never taken the time to say that we have given up on the old one. We now allow, or encourage, many people to informally make decisions which are imposed upon the line people of the corporation. But, we have also restricted the communication to and from the line people.

We now have the theory that a boss or supervisor loses his power or his clout if all information to those under him does not go through him. It is quite widely believed that if the information flowing down and up the organization is not limited to what can go through the boss, he is not the boss. It is also felt that if the information that goes from the top down or from his people to the top, is not filtered through his experience and prejudice and enriched with the attitudes that he developed when he was a line person, the company does not show respect for him as a boss, his position is weakened and he loses all clout.

These two theories are completely opposite. We should formally decide which one we believe in.

For the last year, we stopped having Product Line Managers meetings and all contact from the Operations Committee to the product lines and from product lines to the Operations Committee is through the Group Vice President. The financial results are lumped as groups and budgets are more or less lumped together.

Many Product Line Managers have been with the company for many years and have a large amount of experience, and some of them could have been Group Vice Presidents. However, they became nonentities in their own minds, and indeed in the mind of the Operations Committee. They had no opportunity to brag about the results or be criticized for them. Some who I used to work with quite closely through the years introduce themselves as if they think I had forgotten their name.

When we started a new Product Group Managers meeting, most of them were quite enthusiastic. For the first time they felt that the corporation listened to them and they had an opportunity to take part in decisions and to have their experience and wisdom taken into account. I think that the results have been very positive and I would like to see us continue this

committee as a working part of the corporation. However, it is not uncommon for people to think that this is very immoral. They feel with religious fervor, that no Product Group Manager should get information that does not come directly through his Group Vice President. The Group Vice President after spending two days at a Woods Meeting, has to miraculously get all that information passed on to all his people without prejudice or without forgetfulness. They also feel that the Group Vice President can express fairly to the Operations Committee, the opinions of all of his people.

I do not think that the information we pass on or the information we get from line people should be limited by the time, energy, experience, knowledge, education or interest of their immediate boss. This may be a radical, heretical thought in the view of those people who have had business education. The challenge to us is how do we take advantage of the experience, knowledge and enthusiasm of the people doing the work and not have it be limited by the bottleneck of a boss who may not even be in town. One would think that there would be more freeflow of information as the corporation got bigger because a single unit can pass a smaller percentage of the information needed. However, one of the stifling things of a large organization seems to be that as you get bigger, the information flow is limited by way of a single boss.

The next group I would like to form to encourage a freeflow of information is a Plant Managers Committee. This could be a U.S. Plant Managers Committee or worldwide. They could probably meet once a quarter and work on problems such as how do we lower manufacturing costs? Today, their supervisors have a tremendous amount of pressure. Half the time they are struggling to increase production and half the time they are struggling to cut down inventory. Very rarely does the boss, with all his pressures, have time to think of such mundane things as cost saving. Meanwhile, the Plant Managers are full of ideas but they have no direct way of working on these. I am sure that there are many other questions, ideas and problems which they would like to work on but it doesn't fit into the priorities or indeed the energy or time that we can expect out of any supervisor of several plants.

Now indeed we have had Plant Managers meetings. About twenty of them attend a large conference which has about one hundred twenty total membership. Somehow, this loses the effect of a committee of just twenty Plant Managers.

Twenty Plant Managers meeting alone with maybe an outside chairman, could talk about a lot of things of common interest. They could have a fascinating meeting, develop attitudes and formulate new attitudes that are useful to the corporation and straighten out some attitudes which need straightening out. They can invite senior people from manufacturing or the rest of the company to help them work on problems, or just educate them. If they ran it themselves, laid out the schedule and invited the participants, it would be so much more useful than "the corporation" scheduling a meeting to ram things down their throats.

We have to do the same thing in engineering. We have several thousand bright, competent, educated engineers who want to do a better job and

influence things. They feel stifled because all information has to go through the hierarchy. Now, we can't have a committee of three thousand engineers, but we might have a number of committees which help give people a chance to brag, showoff, exchange ideas and take part in the decision making of the corporation.

/dag

SEPT 12 WOODS

Ken Olsen
O.C.

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I N T E R O F F I C E M E M O

TO: Stan Olsen
cc: Operations Committee

Date: 10 SEPT 79
From: Ken Olsen
Dept: Administration
MS: ML10-2/A50 Ext: 2300

SUBJ: YOUR PROPOSAL FOR 12 SEPTEMBER WOODS MEETING

I would suggest that when making your proposal "separate entity," that you do not define it in terms of the power which the entity would have relative to the mother company, but rather in terms of how you would most efficiently use the help of the mother company, and how you would organize that help so that it would be most efficient. Ford Motor Company works for ten thousand bureaucrats in Washington. Any one of them can make requests any time for anything, make rules and enforce them. Ford sits there never knowing what they are going to be hit with next, what the rules will be next year, or how they should plan their staffing for the year because they do not know when or what requests will be coming in. They have to plan models for three or four years ahead and they don't know the rules until just before the year starts.

If Ford was another country, the request from the U. S. government would be collected, organized, spelled out in a systematic way and presented all at one time in a much easier to use form. In doing so, inconsistencies, overlaps and short-term changes would be eliminated and people with an overall view of the situation would have to be cognizant of what the request was for. Right now the top-level people could say that all those bureaucrats working for me are young, conscientious, bright, very well educated and only have the good of the country and society in mind, so they must all be right. I have been in Washington enough to know that almost everyone of them is bright, conscientious and doing good, but in total, the results are chaotic.

I would suggest that you propose a relationship with the mother company that would define your connection with each of the services and controlling entities of the company. First, I would suggest that you do it in terms of a calendar. For example, at the end of every week you send specific data to Headquarters; a certain day at the end of the month you send more specific data, and do the same at the end of the quarter and at the end of the year. This calendar is printed ahead of time and is understood that it is not to be changed at the whim of a bureaucrat some where.

Next, I would suggest that you propose a calendar for planning. For example, the first two months of the first quarter could be for

preparation of a budget and the third month of the quarter would be its presentation and approval.

The first two months of the second quarter would be for preparation of a long-range plan and the third month would be its presentation and approval.

The first two months of the third quarter would be for preparation of a market plan and the third month would be its approval.

The first two months of the last quarter would be for something else, and the last month would be its approval.

You could have a staff to do these activities. Their schedules for the year would be clear and you would not have to keep stealing people from other parts of the group in order to take care of random demands that come up whenever the bureaucrats happen to get ready to request what ever they are looking for.

I would further suggest that you take the controlling functions of the corporation and specify the help that you want from them. If I were you, I would insist on having a specified two days every quarter at which time Gordon Bell would spend two full days reviewing all the engineering being done in this entity. I would also say I want two days of Win Hindle's time the same two days every quarter, and plan for the years ahead. During this time he would review the financial statements and the results of each part of the entity. I would also demand and have an understanding that Smith's auditing group spend so many days a quarter looking over each part of the operation and finding out those which need detailed auditing.

You may ask why we do not run the company this way today. I think it is clear that it is impossible to do so. We change the people managing each of the groups of bureaucrats periodically, and those years in between when there are no changes they have to prove what they did the year before. This means that they can not make a schedule, and whenever they see an idea clearly they have to then make all the parts of the company react immediately. It is impossible to put some new person in charge of one of these groups and not give him a free hand to improve what his predecessor had done, which of course means that within a large company there is never any stability. Every year everything changes, there is no schedule, and no one understands what is expected.

In a small entity it is possible to have a simple accounting system which is set up only to give information necessary to run that entity. As a byproduct, certain specified information has to be sent to Headquarters on specified days. When the whole company accounting is looked at in one piece, it is impossible to take a simple approach. Everything has to be considered in its inter relationship with everything else all at one time. This means that all changes have to evolve slowly.

If one has a separate entity, he could do his own order processing, and if there should be a small problem, the business could be adjusted to make order processing simple. With a large company order processing has

to be designed for the worst system, the worst order and it has to be approved by a infinite number of bureaucrats because all the managers are too busy to figure it out themselves. Hopefully, with a small organization, the top few people could set up an order processing system which is so simple there should be no problems with it.

It is well known that concentrated manufacturing plants can always out perform multi-product manufacturing plants. Hopefully, we might gain some of this advantage by concentrating plants on a small number of products and not averaging costs which make us uncompetitive on desirable products and too low-priced on the things which we would be better off if we did not sell at all.

/dag



INTEROFFICE MEMORANDUM

TO: Gordon Bell
OOD

CC: Operations Committee

DATE: 17 October 1978
FROM: Ken Olsen
DEPT: Administration
EXT: 2300
LOC/MAIL STOP: ML 12-1/A50

SUBJ: Modern Engineering or How We do Engineering Faster and More Efficiently Than Small Companies.

When we enlarged Central Engineering our motivation was two-fold. First of all, product lines were too close to changing customer whims to give stable direction necessary for one, two or three year projects and secondly, with engineering spread around so broadly, we couldn't take advantage of the size and assets of the corporation. It is probably time now that we review the results of centralizing engineering. I would like to see OOD come to the February State of Affairs Meeting and tell the senior people of the Corporation the problems and the results of centralized engineering, and after this practice session, it should then be presented in more detail to the next Spring Stratton Mountain Meeting.

We should concentrate on the things we do to make decision making quick and easy and develop efficiency which can come from size and capital.

I would suggest that we have the presentation made by the Managers one level below the OOD.

First, I think we should present today's environment. We now have well defined goals for reliability and we have two goals to make the cost of our manufacturing compete with the Japanese. We have noise and safety goals which sound confusing, but in a session like this we can organize them so everyone understands what set of goals we work towards.

As we go into a time when there is a shortage of engineers, we should explain how we motivate our engineers, and how we build teams that have pride and efficiency and the feeling that they take part in goal setting.

I think we should squeeze all this into a one day session for the State of Affairs Meeting for the Corporate people, but should expand it to two or three days for the Engineering Managers at Stratton Mountain.

It probably will be good for us to generate a document that will be a guide to tell our engineers how decisions are made. We should make it clear who can propose, who makes the decisions, and who proposes and passes on changes to decisions.

We should explain how budgeting is done, how we weigh the difference between expense money, capital money, people and space, and we should give direction as to how much safety factor people should include in their budgets.

The outside world sometimes seems to think that engineering measures their output by numbers of people rather than results. It seems obvious that the output of an individual can vary by some large factor, and getting these factors of improvement from individuals should be the main measure of success, not how many people we can fit into a budget. It would be good to present to the people how we do and how we should measure and reward output.

I was surprised at the reaction at the last Operations Committee Woods Meeting where it was claimed that there was a corporate policy that you cannot make a model unless you first make a marketing plan. It will be good for everyone including engineering management, to write down a policy which explains when you build models and when you have to make marketing plans first and how far you go in design before you get certain levels of approval and how much freedom one has or could claim to make variations in this policy.

sm



Wm. Hinkle
O.C.
INTEROFFICE MEMORANDUM

TO: OPERATIONS COMMITTEE

DATE: 14 AUG 78
FROM: Ken Olsen
DEPT: Administration
EXT: 2300
LOC/MAIL STOP: ML12-1/A50

SUBJ: HELPING OUR MANAGERS

When we promote a carpenter into a supervisor with responsibility for many stock rooms, or when we promote a secretary to a Cost Center Manager, or when we promote a salesman to a District Manager, we seem to feel that with that promotion comes miraculous knowledge and experience of record keeping, inventory control, accounting and personnel procedures. If this miraculous and instant infusion of experience and knowledge is not thorough and they miss up on some factor of management which has not been defined but are suppose to know, we are very critical of them.

When I saw the parking lot one-third full in July, I thought everyone was on vacation. When I see the parking lot one-third full in August, I am wondering how many of our employees take the whole summer off. I wonder how many of our supervisors see this happening but have been told that that's the way at Digital and it is not their responsibility to be sure that people work in the summer. Now my question is, whose responsibility is it to make sure our supervisors are educated and have a simple, obvious set of standards for managing.

If in our Woods Meeting on Tuesday and Wednesday we run out of things to say, I would like to bring up the question, who has responsibility for laying out a simple accounting system for each of our managers and who has the responsibility for a simple set of rules and techniques for managing the people? Is it the Senior Vice President or is it Personnel and Finance?

When we were a 20-man company, we had enough accounting to keep track of all the hourly time, we reconciled the number of hours every quarter versus the 40 hours people were suppose to work, and we knew by how much it did not reconcile every week. We knew each week how our expenses were going and we knew how much our income was; we knew where we spent the time, we knew how much was overhead and we had pretty much everything under control. It seems to me that now that we are a giant corporation, each of the pieces could still be run the way that Digital was run originally. I know that we have the idea everything has to go into one big glob into one monstrous computer system, but I would like to know why we can't teach managers to understand their business in the same way we used to understand our business. I sometimes think that we tell people that we understand your business and we will send you the data six weeks afterward and you don't have to understand a thing.

When we were small, we knew all the Personnel rules. The State Inspector came around, he would talk to us and it was easy to make changes. We could understand them all, and there was no need for a massive document the size of a dictionary in order to include all of the rules. Now the most important thing was that we understood those that were important. I am not sure we trust our managers today to understand things, so we never bother telling them.

I would like Al and Shel to take along to the Woods Meeting, in the event that we do have time to discuss this subject, the list of records and accounts a new district manager, a new subsidiary manager or a new supervisor is given so he knows what we

HELPING OUR MANAGERS

14 AUG 78

Page 2

expect from him. I would like Shel to bring the list of responsibilities a district manager, subsidiary manager, office manager and supervisor is given so that he knows what his job is with respect to his employees.

dag

Clean thoughts -

1. Specify responsibility - OM says whether we will be in a business in his district

P/LC makes investment decision on how much to invest in each district

2. Stop wasting time -

Rule - no discussion or entrance of groups without a representative of the group present.

3. Can't guarantee unchangeable plan for 18 months - must learn to absorb 6 month changes - it's a part of the risks of the business

4. Digital scenario - preach decentralization - preach saving money by developing system once, then spreading it out. ^{Good DEC} ~~But~~

decentralized managers want to cooperate with this. But, ~~this~~ takes time, and in meantime, decentralized units suffer.

Answer - have schedule for centralized systems - decentralized units have to exist and grow - let them invent their own systems by defining inputs needed by central group -

1. We don't listen carefully and pay more attention to Shel Davis' comments to each other.
2. Say more positive things about each other in public.
3. Be more supportive of one another, be more accepting of support, accept each other as colleagues, not adversaries -
4. More enjoyment needed -
5. Ken to be more consistent -

OPS COMMITTEE SURVEY/SOME ESSENTIAL THEMES

I. Use of Sub-groups

- Comprised of committee members
- As a replacement for committees in some cases

TO SCOPE OUT OR RESOLVE CERTAIN ISSUES, THE USE OF SUB-GROUPS AS OPPOSED TO THE FULL COMMITTEE SHOULD BE ENCOURAGED

II. Preparation

- Members
- Presenters
- Staff Work

INCREASING THE QUALITY OF PREPARATION WILL ASSIST THE COMMITTEE TO RESOLVE QUESTIONS MORE EFFECTIVELY AND MORE EFFECIENTLY

III. Agenda Management

- Strategic material
- Messages from Ken
- The warm-up period

STRATEGIC ITEMS - SII TACTICAL ITEMS - NO!

IV. Working Together

- Listening
- Understanding
- Trust
- Discipline

THE OPERATIONS COMMITTEE IS A VISIBLE MODEL TO THE REST OF THE ORGANIZATION. AS SUCH, ITS DESIRE AND ABILITY TO WORK TOGETHER SENDS CLEAR MESSAGES TO THE SYSTEM.

V. Committee Charters

PERIODIC REVIEW OF CHARTERS BY MAJOR COMMITTEE CHAIRMEN AND COMMUNICATION OF THESE CHARTERS TO THE ORGANIZATION ARE CLEAR SIGNS OF YOUR PERSONAL INTEREST IN MAKING THE COMMITTEE SYSTEM WORK.

VI. Marketing Committee/Operations Committee

THE ACTIVITIES OF THESE COMMITTEES SHOULD BE CLEARLY DELINEATED AND COMMUNICATED TO THE ORGANIZATION.

SUGGESTIONS FOR THE FUTURE

CONTINUALLY BEAR IN MIND THAT YOU ARE A VISIBLE
MODEL TO THE REST OF THE ORGANIZATION

- . PERIODICALLY REVIEW THE ACTIVITIES OF THE COMMITTEE
- . SAY "NO" TO MORE POTENTIAL AGENDA ITEMS
- . BRING YOUR LIST OF RECOMMENDATIONS FOR THE IMPROVEMENT OF THE COMMITTEE PERFORMANCE TO FORTHCOMING MEETINGS AND CHECK IT PERIODICALLY.
- . TAKE THE FIRST FEW MINUTES OF EACH OPERATIONS COMMITTEE MEETING FOR EACH INDIVIDUAL TO DISCUSS SIGNIFICANT ACTIVITIES OF THE PREVIOUS WEEK AND GET REACQUAINTED.
- . TAKE THE LAST TEN MINUTES OF EACH OPERATIONS COMMITTEE AND WOODS MEETING TO CRITIQUE YOUR MEETING.

Ken:-

1. Have a trusting organization

a. People are too much afraid of making a mistake

~~11/11/78~~

b. P/L's don't trust central group.

2. Get mkt + eng. organizations working on products - from customer's pt of view

3. Efficiency -

TO: Operations Committee
Jean-Claude Peterschmitt
Gerry Moore
Al Crawford

DATE: April 28, 1978
FROM: Win Hindle
DEPT:
EXT: 2338
LOC/MAIL STOP: ML5/A53

SUBJ: Decentralization of Functions

It is time to insist that decentralization be carried out at no greater cost than would have been incurred if the function or service remained centralized. Decentralization is supposed to achieve greater productivity by putting the function or service closer to the user. We should insist that these productivity increases be greater than any cost increases so that the net cost per unit of service is lower. Otherwise, let's leave the function or service centralized.

Specifically, I believe this principle should be applied in decentralizing Field finance functions, both in NORAM and in Europe. Then, it ought to be applied to the EDP decentralization in Manufacturing, in the Field functions, and in the Product Lines.

bwf



INTEROFFICE MEMORANDUM

TO: Win Hindle
CC: Operations Committee
F & A Committee
A. Crawford
G. Moore
J. C. Peterschmitt

DATE: 8 MAY 78
FROM: A. M Bertocchi *AMB*
DEPT: Finance
EXT: 3-5311
LOC/MAIL STOP: PK 3/A56

SUBJ: DECENTRALIZATION

Win,

You indicate that we should insist that decentralization be carried out at no greater cost than if the function remained centralized. In general I agree and also believe that in the long run the costs of either method will be about the same.

This is difficult to prove because we cannot quantify the benefits of making better decisions sooner and being in better control.

The important issue is when to decentralize. It is my opinion that now is the time. In fact, if we don't formally control decentralization it will be accomplished in a de facto manner.

This is an important strategic move which should not be delayed because of a "cost issue." Obviously, there are some up front costs which will be incurred during the transitional period. These will be kept to a minimum in light of budget constraints; however, they should not be the gating factor in the decision to decentralize.

/mo
attachments

* d i s i t a l *

TO: SHEL DAVIS
cc: AL BERTOCCHI

DATE: TUE 2 MAY 78 4:57PM
FROM: KRAMER, EDWARD A.
DEPT: ADMINISTRATION LDP/MDF
EXT: 6850
LOC/MAIL STOP: MR2-4 A67

SUBJ: YOUR MEMO ON COST OF DECENTRALIZATION

I was interested in your comments, that I essentially interpreted as being in favor of operational decentralization.

I am clearly in agreement with your views. There are lots of us at DEC, who grew to where we are today because, in part, we were given the opportunity to work with a high degree of professional freedom. I equate professional freedom with loose controls, and allowing people to try and do "the right things" for the company. I believe in order to let people "do the right things", we have to allow them to exist in an environment that lets them have a broad view of the operation, and this clearly occurs when a business is operationally decentralized.

Being able to work alongside financial, engineering, marketing, personnel, and manufacturing people, has enabled them all to become significantly less insular in their thinking and resulting actions. If anything, we should all be pushing more in this direction.

I firmly believe there are no real costs associated with this type of decentralization, in fact I believe the resulting efficiencies of "doing the right things" result in a net gain for the overall operation.

digital

INTEROFFICE MEMORANDUM

TO: F & A Committee

DATE: 26 April 1978
FROM: Shel Davis
DEPT: Corp. Personnel
EXT: 3-2838
LOC/MAIL STOP: PK3-1/C21

SUBJ: COST OF DECENTRALIZATION

The minutes of your meeting of April 4, 1978, refer to a discussion about the cost of decentralization. As you and others examine this subject, I think it is equally important to have in the equation the costs of not decentralizing. Some of these costs may be a bit difficult to quantify, but they still need to be addressed. I am thinking of things like unnecessary delays in decision making, not developing enough people with real management ability because they don't get enough of a chance to really manage, the amount of frustration associated with the involvement of multiple levels and committees of management in getting approvals, the complexity associated with having a large number of items either getting looked at at the top or coming together at the top (e.g. having one payroll in the U.S.). In a very large organization such as ours, I do not think these costs are trivial and when you couple that with the growth that is expected in the next several years, there is, in my opinion, even a greater need to keep moving ahead with "operational decentralization."

SAD:dh

digital

**COMPANY
CONFIDENTIAL**

APR 21 1978

Jack O.C.

INTEROFFICE MEMORANDUM

TO: Bill Thompson

cc: Gordon Bell
Jack Smith
Ted Johnson
Jack Shields

Stan Olsen
Andy Knowles
Ken Olsen

W
DATE: April 19, 1978
FROM: Win Hindle
DEPT:
EXT: 2338
LOC/MAIL STOP: ML5/A53

SUBJ: Funding Major Programs (i.e., VAX, DECNET, and Corporate Systems as a Group)

In the future, I suggest we fund new programs, at the very beginning, for the TOTAL costs we expect. These costs include Engineering expenses, Manufacturing Start-Up expenses, capital needed, Field Service Spares, Training Field Service and Sales people, Product Promotion for first several years.

The Product Manager would have responsibility to manage this entire enormous amount of money, and suggest trade-offs (i.e., more engineering would result in less spares, etc.).

The funding for the program would be worked out at the beginning as to which product lines absorb the expenses in what proportions (or we could use our new, as-yet-undecided-but-simple algorithm for assigning central engineering expenses).

The product promotion plan would be worked out at the beginning and would be visible to the product lines. If a product line felt they needed more "vertical" promotion, they would pay for it.

bwf

Great, I like it!

cc. FMC

O.C.



INTEROFFICE MEMORANDUM

TO: Operations Committee

DATE: February 13, 1978
FROM: Win Hindle
DEPT:
EXT: 2338
LOC/MAIL STOP: ML5/A53

SUBJ: Excellence

George Plowman has written a very good memo (attached) on a recommitment to excellence. I propose we take up his idea and establish a number of long-range programs, then make them very visible to the whole company. I believe one person (probably a member of the Operations Committee) ought to have responsibility for each of the programs to drive it to completion.

The 8 programs I propose are:

1. Establish Small Systems program that is fully integrated across Engineering/Manufacturing/Marketing/Sales.
2. Establish fast, accurate, decentralized Customer Information System to handle quotations, order processing, scheduling, order status reporting, and invoicing.
3. Establish simple, fast, easy-to-change budgeting system.
4. Achieve "Customer Merge" products for 50% of total shipments in five years.
5. Establish decentralized accounting and control systems which feed essential data monthly back to a corporate control system.
6. Achieve software quality that customers will rate excellent.
7. Establish a program that automatically feeds back data comparing actual results to plans for engineering projects and marketing programs.
8. Maintain our open environment where all employees have the opportunity to propose ideas and have those ideas accepted or rejected quickly so that they feel they can influence the company.

bwf
Attachment

digital

write to O.C.
#215
INTEROFFICE MEMORANDUM

TO: Win Hindle

DATE: 31 January, 1978
FROM: George Plowman *George*
DEPT: Distributed Systems & Components
EXT: 3/3329
LOC/MAIL STOP: ML5-5/E97

SUBJ: Commitment to Excellence

Win, the other day I was pondering your memo on software product quality when I was reminded of something that was basically instilled in me early in my career - something entitled "a commitment to excellence." This may be a little off the specific topic you had in mind, but I believe it is apropos to many of the problems we face today. Anyway, I'd like to share these thoughts with you.

How does the issue of product quality relate to a commitment to excellence: if we hire good technical people (and we do); if we have experienced managers who know how to build quality products (and we have); and we want to do the right thing for ourselves and for the corporation, then why is it so hard to do what is natural and self-fulfilling? Let me give you a personal perception:

1. First, you are right on with your observation of having too many products. This is a fact in both hardware and software. We would be far better off with fewer products and more focus on what solutions we want these products to provide. But this is in itself a symptom of a more serious problem that we must understand, and that is . . .
2. We do not have a clear focus on what our priorities are and how we plan to achieve them. You cannot treat everything as top priority and expect anything more than mediocre results, not at the continual growth rates we are experiencing and . . .
3. We have not clearly defined (top down) what a commitment to excellence really means in today's context. When the company was smaller and less complex, it meant hiring high quality people and letting them "do the right thing." In today's complex environment, this is not enough. Today we must provide a clear interpretation of what commitment to excellence means, we must define where we cannot afford to be second best, and we must guarantee that our behavior is consistent with this interpretation. Given we have done this, we then have to educate our people at all levels. This implies both management change and cultural change.
4. We expend a lot of effort treating symptoms without understanding the underlying problems. As a result, problems do not really get solved, they just get worked - over and over again.

31 January, 1978

5. We tend to operate in constant turmoil and rationalize this behavior as a necessary part of the environment. It is not natural nor necessary. It is destructive and will eventually bring us to our knees unless checked.

What's the bottom line to all this? Basically, it all boils down to the following:

We as a company have become large and very complex in a relatively short period of time. We have evolved from having a captive market and a leading edge on the technology to a company in many markets with many products and no real technology ownership. To put it bluntly, we are in the big pond with all the other fish, large and small. We must now compete like never before. We must compete for market share; we must compete on a product-for-product basis; we must compete in the areas of service; and finally, we must compete to hire and retain the best people. Today we have become mediocre in too many of these areas. We do not have a visible plan in place today to compete and win, and very simply this is exactly what I believe needs to be done now. I view this as a basic survival issue.

I could go on, for these are only perceptions and in themselves serve little purpose other than to make one ask the following questions:

1. Why does a senior manager merely three levels removed from Ken Olsen, and responsible for a major part of the future of the company, feel that way?
2. How many others have similar perceptions?
3. Does it need corporate attention?

I propose a simple top down process to bring ourselves back to reality in terms of a commitment to excellence:

1. Define the top goals of the corporation over the next five to ten years and make them visible to everyone in the company. I believe Ken Olsen in conjunction with the Operations Committee can do this very easily.
2. Identify the top ten corporate problems and their priorities that we believe we have to solve to achieve our goals. Make these collectively visible to every organization in the company.
3. Require that each major organization at the vice president level provides an assessment of related problems to ensure that it is understood and a plan for how the problems will be solved. If more understanding is required, then effort should be expended to gain that understanding. This should result in a very small list

31 January, 1978

of high impact problem areas that will get full management attention. Nothing must dilute their priority and no extended list of problems "thrown over the wall" until these are solved.

4. Stick with the plan long enough to give it a chance to succeed. We have to continually push back on our desire to find another solution before giving the previous one a chance to work. I believe that this results from a poor understanding of the problem in the first place.
5. People perceive problems today; what they are not sure of is whether anyone else sees them and is doing something about them. Establish clear channels of communications with people at all levels so that they can be a part of the solution as well as part of the problem. This is not easy in today's environment, but if we make this a corporate program, we can do it.
6. Let's market the concept of a commitment to excellence at every level in the company. After all, that's what got the company this far. Ken Olsen and a handful of people marketed this concept before when we were smaller. We need to reinstall this message from the top down and establish a mechanism for communicating it.

In summary, I am proposing a major corporate program with everyone participating. I believe it would be exciting and extremely effective. I don't believe it can be put off.

GWP:cmg

TO:

Win Hindle

cc: A. Bertocchi

DATE: March 3, 1978
FROM: John S. Fisher
DEPT: Finance
EXT: 4515
LOC/MAIL STOP: PK3-2/A93

SUBJ:

I have just read George Plowman's memo on "Excellence" and your 8 point Proposal. My guess is there isn't anyone who would disagree, and many believe the situation is critical..

Even more concerning is some good people have given up trying to solve the problems. I see individuals and operating groups turning inward -- accepting failure because they can't change anything outside their sphere of direct control. I hate to beat up the senior management because they have done a lot of wonderful things. But, this is an organizational problem and the responsibility can only lie with senior management.

In addition to the things you and George said, I think we need to focus on two additional points:

1. Span of Attention -- Management simply does not have the time to understand many significant issues well enough to favorably influence them. This is recognized and understood by many lower level people in the organization and it discourages some of them from pursuing solutions to company problems. Many sense there is just no objective, rational and calm "court" to hear facts and make decisions and then implement them.
2. Lack of Teamwork -- We are a functional organization that requires integration of the functions to succeed as a company. The trend is just the opposite, I think a good bit of it starts at the Operations Committee. We regularly try to solve "corporate problems" by separately defining the responsibilities of Operations Committee members. They, in turn, go back to their groups and separately define their part of the problem and their solution. We should go back to the text books -- functional organizations can't work this way! The functions need to be drawn together but they are drifting further and further apart.

Win, I fully agree with your 8 point list and the need for a focused, long-term commitment to achieve each of them. For whatever it is worth, I think that Al Bertocchi's Phase III Project is working Items 3, 5 and 7 and it's planned that this will be discussed at the March 20th OC Meeting.

JSF/fh

digital

INTEROFFICE MEMORANDUM

TO: Operations Committee

DATE: December 1, 1977
FROM: Win Hindle
DEPT:
EXT: 2338
LOC/MAIL STOP: ML5/A53

SUBJ: Criticism

There is a big time-waster in the company - criticism of another group when no one from the other group is present. There are countless hours spent knocking some department for its stupidity when there is no one representing that department in the discussion.

I propose that we discipline ourselves not to do this, since such discussions can't change anything without the group that is being criticized present to listen and discuss the problem.

bwf

GSG Q2 RESUME

	<u>FORECAST</u>	<u>BUDGET</u>
BOOKINGS	\$ 3.0	\$ 3.3
MLP (OTD)	\$ 2.4	\$ 2.7
NOR	\$ 2.8	\$ 2.8

OTD	\$ 2.4
PIPE LOSS	1.2
PIPE GAIN	1.5
	<hr/>
NET	\$ 2.7

Cash Flow Analysis

Silyle

Uses - Selection of Products, Within a Product Between Functions, Review Pricing Alternatives.

Leverage in Break-even time:

Systems^(VAR) - Work in Process Inv.

~~MTBF~~^(VT100)
Component - MTBF -
- Inventory -

Benefits - Push multi-functional planning
- Systematic decisions
- help analyze functional vs. program goals
- illustrates key sensitive issues in program

O.C.

* d i g i t a l *

TO: OPERATIONS COMMITTEE:
OPERATIONS COMMITTEE: @CLEM

DATE: THU 6 MAR 1980 2:09 PM EST
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2 A50

SUBJECT: BOONDOGGLE

+-----+
: d i g i t a l :
+-----+

I N T E R O F F I C E M E M O

TO: Operations Committee

Date: 6 March 1980
From: Ken Olsen
Dept: Administration
MS: ML10-2/A50 Ext: 2301

SUBJ: BOONDOGGLE

I am again hearing complaints that at the peak tourist season our foreign subsidiaries get overwhelmed with visitors from the US who have to be entertained, to the detriment of the local operation. Because the local offices can see no business reasons for these trips or for the timing of these trips, and because of the obvious costs to the corporation, the time of the people making the trips and the time of the people entertaining those making the trips, the management in Maynard is loosing the respect of parts of the company.

I am sure that the situation is not as bad as it appears, but I think we ought to look into it. Everyone who takes a trip works for someone on the Operations Committee. Sometimes our managers think that watching these things is the responsibility of the Office of the President or Personnel, but I think it is the responsibility of the group vice president. I would like each of you to make a list of those people who are going to Japan this Cherry Blossom season and those going to Ireland or Scotland during the coming tourist season, with a few words describing the reason for the trip.

Will you send these lists to Bill Long to be summarized, and then discussed. We will then have Bill send the lists to each of the countries so they realize that these trips are important, the Operations Committee does want them to be taken, and these people are worth the time it takes to entertain them.

I think one hundered people went to Japan last year, most of them during the Cherry Blossom season with their wives. I think for good business reasons and to avoid outside criticism, we should have some justification on record for these trips.

O.C.

DIGITAL

INTEROFFICE MEMORANUM

TO: Ted Johnson
 Jack Smith
 Jack Shields
 Gordon Bell

cc: Operations Committee
 Larry Portner
 Dave Knoll
 Dick Pascal

DATE: 1/8/80 Tue 9:41:33
 FROM: Win Hindle
 DEPT: Corporate Operations
 EXT: 223-2338
 LOC: ML10-2/A53

SUBJ: Relationships between Functions and Product Groups

I recently spent time with the Product Group Managers in the Commercial Group. It became evident to me, once again, that each major function must have a person (or group) dedicated to making sure each Product Group has a voice within each function. That person should be a part of the Product Group staff (probably resident there) and have enough influence within the function to get things done for the Product Groups.

I encourage you to see to it that each Product Group has a strong representative in your function.

WRH/bwf

O.C.

* d i g i t a l *

TO: STEVE COLEMAN
OPERATIONS COMMITTEE:

DATE: FRI 21 NOV 1980 9:43 AM EST
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

SUBJECT: RESOLVING OPERATIONS COMMITTEE DISPUTES

At the Dec 2nd Operations Committee, I'd like to have a formal decision on our way of having disputes between Operations Committee members resolved.

When there are disagreements between two Operations Committee members, it seems to me there are three alternative ways of having them resolved.

1. They can talk to each other until it's resolved and if this takes forever, just say that's the Digital way.
2. Another way is to have each party talk to Ken Olsen, let him make the decisions and whoever wears him down the most will get their way. Ideally, without ever hearing the other side.
3. The third way is to have a formal presentation to the Operations Committee. Here, all the arguments will be presented and the Operations Committee can make the decision.

After we decide the way which this should be done, I would assume this is the way all conflicts will be decided upon.

I hear from a number of people who work for Operations Committee members that the Operations Committee can never make up its mind and is not the way to get decisions.

The Operations Committee members have examples of when we haven't given answers to questions that have been asked, I'd like to have them brought out so that we can go back and assure all of the people that work for us that the Operations Committee is the place to get decisions. It seems to me whenever there's a question asked in a formal way that can be answered yes or no, we have always given an answer with no more than two hearings. We do not give answers to proposals that are randomly brought up on the spur of the moment. If you don't see it this way, I would like to get it clarified.

KHO/em
13.3

O.C.

* d i g i t a l *

TO: MARCUS DIR REPTS:

cc: *WIN HINDLE
BILL THOMPSON

DATE: FRI 17 OCT 1980 1:11 PM EDT
FROM: JULIUS MARCUS
DEPT: COMMERCIAL GRP/ADMIN
EXT: 264-5362
LOC/MAIL STOP: MK1-2/C37

SUBJECT: COMMENTS BY KEN

Ken's comments at recent meeting which bear repeating:

- 1. ^{P6M should} Love measures -
 ^
 Because they help you make decisions.
- 2. If you can't figure it out - don't do it.
- 3. If you can't explain it, don't sell it.

JM:DW

10/15/80

CHANGE

Ben Shapiro -

4 things to change - Watchout for logical incrementalism - compromise

1. Structure - Why? because it becomes insular - calcified -
2. People - Why? Fear of inadequacy
3. Formal Systems + Processes - Hard to change
4. Informal Social Systems + Structures - Tribal mentality
Mythology folklore
What won't work

Challenges

1. Size
2. Complexity
3. Diversity
4. Mgt. Succession

Change - Prevent bureaucracy ~~the process~~ from running co.
- Fight insularity

BOLDNESS -Structure - Division -

- Reorganize PG's

People - Send someone ^{m.o.c.} away for a yr. & bring some
Rotate O.C. membersFormal Systems - Do real L.R.P. - send 2 O.C. members away to prepare 1990

- For out idea - Fund

Informal Social System - centralized toilets

Shel Davis

Negotiating

We is not that
easy to deal with
negotiating a contract

Why is it bad?

- Demotivates
- Lose good people
- Makes antagonistic the pursuit of common goals
- Erodes entrepreneurial spirit
- Makes work less fun & less fulfilling

Statistics - ~~People~~ Mgrs. say 20-75% of time negotiating is weighted to high ^{and}
Mys. say 20-75% of negotiating is dysfunctional - weighted to high ^{and} _{ad.}

Problems - Consensus means 100%.

- I am Never finished negotiating - decision apparatus not clear - takes forever.
- Everybody has to buy-in to everything.
- If I become corporate, I add 25 more interfaces.
- No trust between functions.
- ~~Perhaps~~ Everyone feels their group is a main entity.
- Morale is best when direction is clear.
- More Zinging than helping.
- Resolve through personalities rather than systems.
- Easier to negotiate with another Co.

Tension - Between Freedom & Order

One process - owed by right, convention or courtesy; a series of actions that bring about a result

System - condition of harmonious, orderly interaction.

- ~~Patience~~ Patience & persistence needed to work this problem.

Answers - Become executives - delegate more & clarity of process - make agreed route clear.

- Make larger objectives clearer
- Become less personality dependent
- Be responsible to each other - self-disciplined

Larry Portner

Ron Cadieux

Project Management

Can org. be project or by function, or try to get advantages of both.

Program Management - ~~one program mgr.~~ ^{one program mgr.} ~~min. reviews~~, ^{min. reviews},
responsibilities clear,

Advantages - clear, fast, team,

Disadv. - duplication of effort, specialists may be out of date,
& "lessons" might not get learned

Problem if one project is part of two or more programs

Then, use Contract -

Problem - carried matrix too far - too many solid lines, resp. to diff. pers.

Need - more projectized structure, have as many functions report to project mgr.
as possible, constraints ~~written~~ ^{written} down early.

FOCUS on Project Team - get functions to commit to project structure
Make Phase Mgt. Process work.

Jerry Witmore

Subsidiary Budgeting

P/6 plan by Geography for LRP, but budget by area only.
Funding is very complex.

What's new today? - Better resource allocation (LRP), 2-yr. budgets (not one-yr.),
ability to manage trade-offs, decentralize

Build on strengths - strong functional thrust, P/6 thrust, effective cross-
functional mgt at area & country, evolution not revolution

Move ahead on: Subsidiary Local Contribution Margin by P/6 - local metrics -
More subs. participation in LRP - early submission
Simplify P/6 interface for small countries.
More trade-offs -

Al Crawford

Information Systems (Inf. Resource Mgt)

What's needed

- Accelerated decentralization
- Segmentation
- Continued interdependence
- Keep Product Groups

Small Business Unit - Needs quick response, simple processes (have lean & mean staff)

Implications - Transition control near ~~input source~~ ^{input source to support local unit.}

- Summary flow upward

Requires - Applications segmentation

- Network
- Disciplined Data Mgt.
- Test for Simplicity & Cost

* d i g i t a l *

Ken Olsen
O.C.

TO: AL BERTOCCHI
cc: OPERATIONS COMMITTEE:
EDWARD A. SCHWARTZ
RON SMART

DATE: MON 20 DEC 1982 11:40 AM EDT
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

MESSAGE ID: 5185339399

SUBJECT: FINANCIAL MODEL

I would like for you to present at one of the Operations Committee meetings, and at the January Board of Directors meeting, a simple financial model of each of our major products. The Board has shown continued concern that the new personal computers are not going to be as profitable as our traditional products, and our answers are always guesses, and it doesn't seem that we know.

I am sure that your people have a model for each of our businesses, and I think it would be good to put them all together. In fact, each of the members of the Operations Committee should have a set of all the models so that they always have something to work with.

The model should be very simple. It should identify the discounts, the marketing costs, the selling costs, advertising costs, literature costs, and other special engineering and software costs, etc. They should be summarized to make it a simple model that people can remember.

Now, that is very simple. To start with, we should let it go at that. It gets complicated because we do not sell simple products. Our disks are sold with many central processors along with all our other components. These are such major items that they should be identified separately. It may be impossible to do this, and maybe we should just make these models by computer type.

If we could have a measure of return on assets, even though it is very approximate, this would be good also.

Return on investment gets particularly hard when you consider the engineering investment we put in the products. However, it would be nice to have this also, because we are going to be asked by the Board or the Operations Committee.

I think you ought to do the easy part first for the next Operations Committee meeting, and then we might want to figure out how we would do the more complicated questions.

I find that some of our senior managers are doing funny things that a model would catch. For example, some of them think the goal is to sell no matter what it costs us. They are willing to spend the costs of selling something ourselves, and then give the

order over to a dealer or distributor who will add another 30% to 40% to our costs. If we get all our senior management to understand the different models, I think it would do wonders in making them act like businessmen.

KHO:ep

K02:53.43

O.C.

* d i g i t a l *

TO: JACK SMITH
cc: RICK CORBEN
OPERATIONS COMMITTEE:
RON SMART

DATE: FRI 10 DEC 1982 2:45 PM EDT
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

MESSAGE ID: 5184326341

SUBJECT: LOW-END STRATEGY DESIGN

PORTABLE COMPUTER

I cannot conceive of our customers wanting a portable computer with many of the features that we normally offer. Until somebody can prove otherwise, I do not have any interest in a portable computer that does not have a reasonable size cathode ray tube, and a reasonable size keyboard, and pretty much all the computing capacity that we now enjoy. This machine also should run the software we now have.

I do see the need for a salesman's terminal to interrogate inventory and to place orders. I think we should have these in the hands of each of our salesmen, and in each of our stores, and each of our dealers. The Japanese already use them when they sell cameras and motorcycles, and someday, we should catch up with them. However, most likely, we have nothing to contribute in this area and we should use our capital in other places.

The computer I am encouraging is a small box that includes a cathode ray tube almost as wide as our standard monitor but only two-thirds as high, but includes the computer, monitor, and power supply all in one box with a separate keyboard. This box is about 5 to 6 inches high, 17 inches wide, and about 12 or 14 inches deep. It would fit nicely into a briefcase and would look beautiful on top of a desk, or on a laboratory bench, or in a home. When used in a fixed position, it probably should use our standard 22 inch wide standard keyboard, but when we put it in a suitcase, we should use the 18" keyboard or offer a special 17" ones that would make both pieces fit into a 17" briefcase.

- 1) I believe this package could be the basis of our low-priced word processing system and, in fact, the first one is designed to take all the standard DECmate circuit boards. It would take less room and would be easier to carry around and also could be put in a closet when not used because there are only two pieces; the box and the keyboard.
- 2) This should also be our portable computer and it might match very well with the LA12 particularly if they both go in the same kind of luggage.
- 3) This box could be our entree into the educational market. It will be somewhat less expensive, and could be a lot more

rugged, and easier to use from the mechanical point of view than other computers. This box should take the DECmate II, the Rainbow, or the small Professional circuit boards.

- 4) This box should be relatively easy to make fit the Tempest standards. I would guess this is badly needed in the industry.
- 5) This small computer would also fit in a regular size box and make a shop floor computer.

Q-BUS STRATEGY

I think we should offer a complete Q-bus line of products. I would like to see us re-package the LCP-5 and the mini-VAX so that, in addition to the LCP-5 package of today, which looks good on a floor rack and looks good in many rack-mounted situations, we would offer a slight re-do of that package using all the same complements but it would be only 17" wide, 8-3/4" high, and 14" deep. It would contain a floppy, a Winchester, and maybe a stringing tape or a second Winchester.

This unit would be rack-mounted on a 10-1/2" slide and underneath the 8-3/4" high panel would be another slide that holds the keyboard so the unit could be used as a personal computer by pulling out the keyboard. When it sits on a laboratory bench or a desk, it would look like many personal computers which are not terribly beautiful, but in this case, would be very functional, and the display would be a VT192.

When it sits on the floor, it would sit on top of two Aztec disks.

I would like to do this with all haste for several reasons:

First of all, I would like it all done and ready to go before the mini-VAX is finished. This will put some pressure on the people in Seattle, and it will also save us an enormous amount of time as compared to the other way of waiting until the breadboards work and then starting the packaging and all the decisions related to it.

And, secondly, I would like to offer it as a Q-bus personal computer. For personal computing, it is not as good as the Professional, and not as good-looking, but for OEMs and people who want to add a lot of things available only with the Q-bus, and for those who want to have a multi-user machine, we can take care of their problems. I am afraid that we may lose a big segment of the personal computer market to people like Fortune who can do things we could only do with a Q-bus.

MATURING PRODUCT STRATEGY

As our managers and marketers have gotten farther and farther away from the customer and the product, we keep measuring our development in terms of central processors. These are the things

we sell and it turns out that more and more, the customer does not care what is in it, but just how easy it is to buy and adapt to his application. I am encouraging the 11-Group and the DECmate group to publish a handbook which contains everything we know about the machine, every variation of peripheral available with it, and every odds and ends of things that make it easy to use. As our marketers get more professional, they tend to develop jingles about the processor and forget all the things that we have invested in to make it easy to use, and I would like to press these.

On to this, I expect us to see holes in our Product Line which are not new central processors, but things which limit our customers from making it easy to use our computers. I think as we develop these books, we will quickly work to fill the holes. The cash register is one of these which I predict we will immediately rush to fill when we see how important that hole is in our Product Line.

Then, as a result of this book, I expect our marketers and sales people to realize how much we have to offer and the pressure will be less on more central processors and more on things to help and service the customer.

KHO:ep
K02:S3.21

O.C.

* d i g i t a l *

INTEROFFICE MEMORANDUM

TO: Marketing Managers	DATE: December 3, 1982
Field Managers	FROM: Win Hindle
	Jack Shields
cc: Operations Committee	Jack Smith
Larry Portner	DEPT: Corporate Operations

SUBJ: THE TRANSFORMATION OF THE OLD TO THE NEW DIGITAL

1. SEPARATING BUSINESS OPERATIONS FROM MARKETING

The OLD Product Group role is being refocussed onto leading the company's world wide strategy for targeting and penetrating markets. The tactical business decision making is moving to the field, close to the customers for more efficient operations. The company's NOR budgets will be set by the geographies and manufacturing.

2. SEGMENTATION OF MARKETING ROLES

Four different kinds of marketing have been identified (Base Product, Applications, Channels and Industry) as a basis for ensuring we have strong focussed marketing which is done only once and thoroughly.

3. REDEPLOYMENT OF SOME P/G PEOPLE WITH THE ROLE CHANGES

The transformation will free up some people now distributed among the Product Groups and make them available for redeployment into very high priority marketing activity, into focussed base product marketing, into new market thrusts such as PCs, Office and Small Business, into USA business operations and into selling etc. However we do not want to lose our strong market position in the traditional segments such as Laboratory, Engineering, Education and Manufacturing applications.

4. HOW TO EVALUATE POTENTIAL CHANGES

The NEW DIGITAL changes are intended to be done so as to develop marketing expertise more rapidly, to reduce cross functional negotiating and policing, and to concentrate responsibility for proposing plans in writing and for performing against them.

5. COMMUNICATING AND AGREEING ABOUT STRATEGY AND PLANS

Each marketing group is responsible for communicating directly with other marketing groups and with geographies to explain and test their strategies and plans. The groups must work together. The NEW DIGITAL encourages and depends on this collaboration.

6. CLARIFYING THE DETAILS AND INTERPRETATION

A set of working documents written to describe more details of the transformation are provided in this manual. These documents are for the guidance of those planning and implementing the NEW DIGITAL. Residual questions should be referred to the appropriate Operations Committee members for answers.

REVISION: RGS 11/30/82 Tue 14:44:54

[P4 #37]

NEW DIGITAL OPERATIONS MANUAL
MARKETING

LIST OF CONTENTS

- o FUNCTIONAL RESPONSIBILITIES CHARTING IN THE NEW DIGITAL
- o PRODUCT/MARKET GROUPS IN THE NEW DIGITAL
- o MARKETING-FIELD ROLES AND INTERFACE STATEMENT
- o WHAT MARKETING DOES IN THE NEW DIGITAL
- o COMMITTEE REPORT ON MEASURING MARKETING
- o BASE PRODUCT MARKETING (to come)
- o SALES LITERATURE AT DIGITAL (to come)

These documents should be read in the context of their creation. Questions of clarification of what the authors meant could be addressed to the respective authors. Expect corrections and additions from time to time. Above all don't do the wrong thing.

Ron Smart 12/5/82 Sun 15:36:08

CORP | ENG | MKTG | GEO | MFG |

ADMINISTRATION AND BUSINESS MANAGEMENT

	BASE		x	Product forecasting - new products
	BASE		x	" " - over 9 months
	old	x	x	Prod. forc. up to 9 months except new prods.
	old		x	Finished product inventory
	old	x	x	Order administration
	old	x		Proposing Bookings plan (was joint P/G - Field)
	old	x		Making the Bookings plan (was joint P/G - Field)
	old	x		Proposing the NOR plan
	old	x	x	Making the NOR plan
	old	x		Pipeline inventory and receivables
	old	x		Credit checking
	old	x		Allowances and discount administration
	old	x		Account servicing
	old	x		Revenue accounting
	old	x		Distribution P&L
	old	x		MIS to support field ("old" P/G) administration

NOTE: "old" means the job moves from P/Gs to Field or Manufacturing

PRODUCT/MARKET STRATEGY & MARKETING PLANNING

		x		Proposing corporate WW market strategy
			x	Feedback to marketing on strategies and plans
	x			Product strategy
	BASE			Base product investment (ROI) business plan
	BASE			Base product strategy and marketing plan
	BASE			Base product USA pricing
	APPL			Applicns products, strategy and marketing plan
	APPL			Applicns unique product investment (ROI) plan
	APPL			Applications unique product USA pricing
	CHNL			Channel strategy and marketing plan
	CHNL			Channel Ts&Cs, + business relationship planning
	IND			Industry(major E.U.) strategy & marketing plan
	IND			Industry (major end-user) Ts & Cs
			x	Local country variations on World Wide Ts & Cs

TECHNICAL AND PROMOTIONAL LITERATURE & ADVERTISING

	x			Basic product literature & product positioning
		x		Product/Market literature, advert. & promotion
		x		Product/Market inputs to Press Relations
		x	x	Promotion and lead generation programs
			x	Local advertising and sales promotion
CORP				Integrating Product & Market messages & advertising programs

SALES TRAINING AND SUPPORT

		x	x	Sales training materials(products, markets, programs)
			x	Sales training
	BASE		x	Technical back-up sales support on products
		x	x	Technical back-up sales support on applications
		x	x	Tactical support for sales

Note that some marketing responsibilities are focussed into groups doing respectively BASE, APPL, CHNL or IND marketing. Some of the BASE product marketing units are in the Engineering organisation.

This document describes the relationships among the different kinds of marketing and identifies the planning groups among whom the marketing is managed:

BASE PRODUCT MARKETING

The objective of Base Product marketing is to develop strategies and do the marketing for the products developed by Engineering. This is the product marketing which is generic, i.e. relevant to any Application, Channel and Industry.

The quantitative marketing success measures for base product groups include market share of their competitive product and product price-band market segment.

The planning groups are:

- * TERMINALS, Printing and Video (including ROBIN)
- * VAX WORKSTATIONS, graphic/computing workstations
- * RAINBOW, industry standard PCs
- * PROFESSIONALS, DEC architecture PCs
- * PDP-11, systems, boards and chips
- * MICROVAX, small VAX systems, boards and chips
- * VAX, large systems
- * 10s & 20s systems
- * NETWORKS & COMMUNICATIONS products, hardware and software
- * BUSINESS & OFFICE SYSTEMS including WORD PROCESSING (Horizontal Office Applications products)
- * STORAGE, (marketed through systems groups for now)
- * TPL

APPLICATIONS MARKETING

The objective of an Applications group is to build DEC's position as pre-eminent supplier of computing to the group's target community. All our products and services and all our channels are focussed into their target market by the marketing activities of the Applications group. Where it is advantageous to DEC's market position with the community, additional products are added by the group over and above the base products and services. These are developed and supplied by DEC or third parties as appropriate to our strategies.

The quantitative measures of marketing success include our total revenue penetration rate into the segment.

The marketing focus and expertise for a product in an application can be provided from either the Base Product or the Applications group but not both. The decision is an agreement between the relevant groups. Where the marketing of a product applies to several applications areas it would generally be done in the base product group. Any additional marketing required in an Applications group is then funded only for its added value e.g., a supplementary brochure. Thus the marketing of the packages of products and services builds on the marketing already done by the Base Product Marketing groups.

The target applications groups are described in terms of broad communities of users:

- * Education depts; educators in all institutions
- * Engineering departments; designer's and developer's applics
- * Laboratories; laboratory researcher's applications
- * Manufacturing departments; manufacturing applications
- * Medical centres and departments; medical applications
- * Vertical Office Applications including high powered Word Processing.
- * Small Businesses; Small business applications

CHANNEL MARKETING

The objective of channel marketing is to develop the business strategy and plan for marketing appropriate products through target kinds of channels into applications segments. Some channel strategies are world wide while some are country specific. The added value of channel marketing includes the development of effective models for our business relationships with third parties who are adding value (technical, business) in moving our products into applications segments.

Quantitative measures of channel marketing success include our revenue share of the channel's purchases.

The channel planning units are:

- * OEM, technical value adding third parties (incl data services)
- * DISTRIBUTERS/DEALERS/WHOLESALEERS, for PCs and Terminals
- * DEC Business Product centres, (DEC stores)
- * End User direct has no dedicated channel marketing unit.

INDUSTRY MARKETING

The objective of industry or customer marketing is to develop the business strategy and plan for marketing our products through all channels and for all applications in the target industry or customer. The industry marketing builds on but does not repeat the product, applications and channel marketing described above.

Quantitative measures of industry marketing success include our total revenue penetration of the opportunity and our sales efficiency.

The Industry planning units are:

- * GOVERNMENT, country government business
- * TELECOMMUNICATIONS, communications utilities and suppliers
- * Other Industry segments (SICs) have a lower level of marketing need beyond what is done by account management in the field. This vestigial industry marketing is accomplished by consortia of marketing groups. Examples:
 - Large industrials: Manufacturing, Engineering, Laboratory, Business & Office, and some Education applications plus PCs, Networks & communications base products.
 - University: Education and Laboratory applications plus 10s/20s, Networks & Communications, PCs base products.

MARKETING - FIELD ROLES & INTERFACE STATEMENT

[P4 #18]

Ron Smart 11/8/82 Mon 10:46:27

(From October WOODS for O/C approval and general distribution)

MARKETING AND FIELD ROLES:

The Product/Market groups and the Geographies have both strategic and tactical responsibilities in the future DEC organization. Product/Marketing groups have primary responsibility for developing worldwide strategic programs for the direction of DIGITAL'S market penetration. Geographic units have primary responsibility for making strategic plans for their geography which take optimum advantage of their geographic market potential per the corporate marketing strategies and programs. Once corporate strategic directions are set and LRPs developed by both Product/Market groups and Geographies, tactical support plans are developed by both to ensure that adequate resources are in place at corporate and in the field to ensure effective implementation of the plans and budgets.

The interface process is:

1. CORPORATE STRATEGIES:

Product/Market strategy statements and marketing plan summaries are reviewed by the O/C (Oct. Nov.) and when approved become corporate strategy.

2. LONG RANGE PLANS:

Geographic units develop their LRPs based on the corporate strategies as do the Product/Marketing groups. Geographic LRPs include NOR and implementation programs for their major Product/Market segments. First pass LRPs are due January.

3. COMMUNICATION ABOUT PLANS PRIOR TO BUDGETING IN THE FIELD:

The Geographies and Product/Market groups take the initiative to work together in developing mutually supporting plans. Significant disagreements are settled in front of the O/C if necessary, at or before the time that the LRPs are reviewed and approved (Mid March). Geographies and Product/Market groups with approved LRPS proceed to budgeting.

3. DEVELOPING GEOGRAPHIC BUDGETS:

Geographies prepare their budgets from standardized detailed budget worksheets. The budgets are substantially an automatic translation from the worksheets. If the budgets are wrong then the worksheets are corrected and the budgets recomputed to maintain implementation plan integrity. These budget worksheets are made available for management and marketing information concerning the Geography's account and

Product/Market programs for strategy implementation.

4. GEOGRAPHIC BUDGET CONTENT:

While these worksheets contain considerable detail, the geographic budgets have relatively few items (e.g. NOR mix by product, NOR plus expense and assets by channel, NOR for specially focussed businesses - PCs etc). The Geographic budgets set the corporate NOR budgets.

5. QUANTITATIVE GEOGRAPHIC PERFORMANCE MEASUREMENT:

Quantitative geographic performance is measured against the geography's budget. Only two or three measures are critical (e.g. total NOR, distribution expense and assets, product mix).

6. RECORDING AND COMMUNICATING ACTUAL GEOGRAPHIC RESULTS:

Actual performance data is recorded in a standard chart of accounts. It is made accessible as after-the-fact marketing feedback to Product/Market groups as well as being used for field management.

7. ON-GOING MARKETING-FIELD INTERACTION:

Product/Market groups continue to work with the geographies as partners in supporting the implementation of their mutual strategies and LRPs expressed in the Geography's business plans.

NOTE: The geography's budget worksheets and performance chart of accounts are designed for local management of the business plans which are implementing the corporate Product/Market strategies. Marketing feedback is a by-product of this local management data. The worksheets and performance feedback conform to a standard chart of accounts to facilitate quality management.

PRODUCT/MARKET SEGMENTS FOR GEOGRAPHIC PLANNING

The Product/Market segments relevant to Geographic planning are a subset of the following corporate Product/Market segments. For example some of the Base Product marketing groups will be represented in other marketing strategies.

	BASE PRODUCT	APPLICATIONS PRODUCT	CHANNEL	INDUSTRY
	MARKETING	MARKETING	MARKETING	MARKETING
	-----	-----	-----	-----
E	TERMINALS	ENGINEERING APPLICNS	TOEM/MICRO	GOVERNMENT
N	VAX WORKSTNS	LABORATORY APPLICNS	COEM	S
G	DECMATE	MANUFACTURING APPLICS	DATA SERV	TELECOM IND
I	RAINBOW	EDUCATION APPLICATNS		A
N	PROFESSIONALS	HEALTH APPLICATIONS	DEC OUTLET	
E	PDP-11	VERTICAL OFFICE APPL	(BUS CNTR)	L
E	CHIPS/BOARDS	SMALL BUS. APPLICATNS		
R	STORAGE	WORD PROCESSNG APPLNS		E
I	NETS & COMM		PC RETAIL	
N	10s & 20s		-WHOLESALE	S
G	VAX SYSTEMS			
	OFFICE/BUSNSS			
	TPL			

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: : : : : : : : : :

O.C. *Wint*
[Handwritten signatures]

INTEROFFICE MEMO

TO: Operations Committee

cc: Ron Smart

Date: 27 September 1982

From: Ken Olsen

Dept: Administration

MS: ML10-2/A50 Ext: 2301

SUBJ: NEW YORK TIMES ARTICLE

C O M P A N Y C O N F I D E N T I A L

Attached is a copy of the article in Sunday's New York Times. I was disappointed that they did not pick up the theme which I tried to get across, but instead they listened to our customers and dealers.

They said that we are so big, ponderous, and filled with overhead that it is unlikely that we will survive in the commercial environment. I tried to get across the idea that we are fast, bright, alert and would overwhelm that market. However, if you look at what we have done in the last year, you can see how they get this picture. If you look at what we promised a year ago in Office and in Word Processing, and if you look at the services we give our dealers, customers and sales-people, you see where they develop these concerns.

We are still defending the massive overhead we have which generates, besides all kinds of expense, all kinds of delays and red tape.

I still hear from the Field that they do not mind the Product Line spending sixty million dollars, but it does not say very much when they do hit upon a piece of literature that is useful. Everyone wants it, and the Product Lines do not have enough money to re-print it and distribute it. They have rooms filled with literature but would love to have enough quantities of the few pieces that are used. However, our red tape system does not allow this, and our financial system does not ever find the weakness.

We still cannot get literature to our dealers nor can we get software. For a fast-moving outfit that is going to dominate the personal computer business and the business business, we certainly have got to get rid of a lot of overhead and get people who get things done.

We still tie up a manager from the Field operation for years trying to get all the organization, all the steps and all the red tape people on board if he wants to build a building. It would seem to me that one man or one group reviewing a new building would be all that is necessary. With all the layers and levels and travel and hours and things we call controls, must subtract an awful lot of energy from the people doing the work and makes work for many overhead people.

Sometimes I think we are too well educated and too sophisticated. A simple-minded outfit that did a few simple things, for instance, have sales plans and literature, simple sales training and simple goals could run circles around an outfit that has massive, elaborate, expensive plans that cannot get the details worked out, because everybody is boss and everybody has overhead, and the workers who are left are too frustrated to get simple details done.

KHO:ep

KO2:S1.65

* d i g i t a l *

O.C.

TO: OPERATIONS COMMITTEE:

DATE: WED 15 SEP 1982 12:41 PM EDT
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

MESSAGE ID: 5175780560

SUBJECT: SAYINGS OF CHAIRMAN KEN

PRAYING AND WRITING MEMOS

Some people think that writing memos is like praying. Some people pray when they are in trouble, but when they have time they never stop to figure out who they pray to or why, or any theory, or logic.

Memo writers are often the same; they write a memo with an idea or an observation or proposal, but never think about who they send it to or who they expect to take action. In addition, they do not feel they have more responsibility than writing the memo.

When I was on the President's Science Advisory Committee a few years before the first oil crisis, I wrote a memo suggesting the danger and suggesting a way of avoiding the danger. I didn't do any more than write this memo. It may have gone to the right people, but I in no way encouraged them to read it. I didn't sell the idea, I didn't take any risk in trying to push the idea and there is no reason to believe that anyone took it seriously. It would be stupid of me to rant and rave saying that people never listened to me when I proposed what they should have done to avoid all these problems. It takes more work, more risk, more energy to introduce and propagate an idea than simply writing a memo.

People who can prove, or claim they can prove that they wrote memos on each of our problems over the last ten years proposing every possible solution deserve as much credit as I deserved for avoiding the energy problem. Who in the world did I ever expect to take a memo and do all the work proposed?

If someone has a good idea it is his responsibility to verbalize the idea and to strategize the marketing of it. If it is a good idea and he fails, he failed and it wasn't the people who received the memo who failed.

KHO:ml
K02:S1.43

O.C. ^{Measurements} *Shel Davis*

+-----+
: d i g i t a l :
+-----+

I N T E R O F F I C E M E M O

TO: Shel Davis
cc: Win Hindle

Date: 3 February 1982
From: Ken Olsen
Dept: Administration
MS: ML10-2/A50 Ext: 2301

C O M P A N Y C O N F I D E N T I A L

SUBJ: OPERATIONS COMMITTEE MEMBERS' REVIEW

As you make a formal review of Operations Committee members, I think there are a few things that we want to measure people by that are not on the list, that have been part of our rules for operation. Some are common sense and it would be good if you made an issue of each one of these and put them on your record.

We very firmly agreed that everyone in the Operations Committee would not make changes in the personnel organization below him unless it was formally discussed and decided upon by the Operations Committee.

When John Leng was promoted from a Product Line Manager to a Group Vice President, he immediately wanted to abolish the product lines and combine the whole group into one large product line. I think it was very clear that this is not the way we operate.

We also suggested that people always hire the very best people for every job. Implied in this is that one will not always pick only his old cronies. When one does take over a new job has he immediately disposed of the people who were there and taken in his old friends? This may not be clearly specified in our policies, but I think that this should not be the approved way of operating.

When the Operations Committee makes a decision, or the President gives a clear order, does each member do his part or does he think he is freed from these decisions or orders if he feels he knows a better way?

Does an Operations Committee member promise people jobs before he gets approval of his organization or a particular person, with the Operations Committee?

If he does not go through the official sequence of getting approval for changes, does he at least keep the rest of the Operations Committee updated as to what his freewheeling organization changes are?

KHO:m1
K01:S9.25

COPY TO CITY
SITE L
JOSEPH L. BOWER
SOLDIERS FIELD STATION
BOSTON, MASSACHUSETTS 02163

SEP 17 1980
Vob

September 15, 1980

Mr. Kenneth Olson
President and CEO
Digital Equipment Corporation
146 Main Street
Maynard, MA 01754

Meeting, Tues October 14
to discuss this

Dear Ken:

This letter is unsolicited in the sense that you didn't ask me for the opinions that I am offering here, and it is not the direct subject matter of my Bill Long or Al Bertocci projects. But a whole series of conversations, reading of company documents, and further reflection on the European Task Force project lead me to define a problem that I would like to discuss with you as my ultimate client.

For a lack of a better set of words, let me summarize my theme with the phrase "an institution is not necessarily a bureaucracy". All great organizations that live beyond the work of their founders are institutions. Critical aspects of successful institutions are simple (though often profound) purpose well understood by the membership; clear organization -- preferably simple; and well-understood process for managing relationships among the organization's parts.

Purpose, organization, and process must be a coherent pattern. In great institutions, the patterns -- like good laws -- frees the membership to work hard and creatively in relationship to each other.

I believe that Digital demonstrates extraordinary excellence in individual aspects of its approach to business. But creating a coherent pattern means weeding out policies that are useful and sensible taken individually, but disruptive in their impact on the pattern. My observation is that the pattern is weak at Digital -- you say "we can't tell a new hire how we manage" -- and that the reason is a tendency to treat issues one by one rather than as interrelated parts of a total system.

The strategy, the structure, the accounting, the personnel system, and the history of the company are all related.

JOSEPH L. BOWER
SOLDIERS FIELD STATION
BOSTON, MASSACHUSETTS 02163

Mr. Kenneth Olson
Page two
September 15, 1980

Two examples:

1. Product groups are a marvelously creative way to use profit as a force to integrate strong functions. But, given your growth rate and profit objectives
 - some product group strategies cannot simply be contracted out to the functions in quantitative terms; they must shape the functional strategy.
 - some product group strategies must be built in cooperation with other product groups -- the customer wants to buy capability that crosses boundaries -- e.g. CSI, the Telco, and Word Processing.
 - it remains brutally difficult for young product group managers to develop product group strategy by country (I have yet to read a good international plan).
 - the constant turnover in staffing makes it hard for people to remember what wasn't in the short term numerical commitments.
 - the role of control and personnel staff is especially important, but these roles tend to be filled by newcomers to Digital,
 - and consequently there is very little institutional support. The pattern isn't there.
2. Rotation is a very effective way of broadening the management skills of those you seek to make generalists but
 - the only true generalist position at the top of Digital is yours (and maybe Win's).
 - the product managers are the ones who really need the breadth and they are almost all ex-sales people. (Why not rotate there instead of at the top?)
 - the top functional officers of Digital provide continuity in an organization of constant flux. While some 'people change' might make sense, there cannot be too much until the pattern is not totally dependent on people.
 - But I believe that a lot of rotation right now could really weaken the organization.

JOSEPH L. BOWER
SOLDIERS FIELD STATION
BOSTON, MASSACHUSETTS 02163

Mr. Kenneth Olson
Page three
September 15, 1980


--Or, rotation is good, but only as part of a pattern that is well-understood.

I believe that the task of building an institution that is creative -- that cherishes the ambitious, energetic, inventive, entrepreneur -- is your challenge for the next decade. Today too much of the stimulus to creativity is experienced as tension : profit versus growth, Ken versus the organization. Just as you once had to build organization to transfer profit responsibility to others, so today you need to build organization that transfers responsibility for balancing the drive for efficiency against the need for entrepreneurship.

The answer must lie in somewhat simpler organization. In my thinking so far it looks as if the engineering resource allocation decisions, the European strategy decisions, and the product proliferation issues can all be helped with simpler organization derived from study of what Digital wants to do with its customers. It is around a chosen vision of a company-customer relationship that the Digital institution should be built.

With the hope that I can provoke your curiosity further.

Cordially,


Joseph L. Bower

JOSEPH L. BOWER
SOLDIERS FIELD STATION
BOSTON, MASSACHUSETTS 02163

September 15, 1980

Mr. Kenneth Olson
President and CEO
Digital Equipment Corporation
146 Main Street
Maynard, MA 01754

Dear Ken:

If you are thinking about rotating, I am intrigued by:

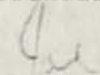
Johnson-----> Marketing

Hindle-----> Europe

Shields-----> Field

Peterschmidt-----> A 12 month assignment based in Maynard
to develop a European strategy working
with Julius and Andy and you.

Cordially,


Joseph L. Bower

9 AUGUST 1982

John Woods & Co.
Organization
O.C.

Group Vice President and Product Line Manager

The Group Vice President and Product Line Manager are responsible to be sure that all details of a Product Line are taken of. He does not have authority over all the factors that count, but he is responsible. He can only be excused from allowing other than perfect quality, perfect efficiency and perfect satisfaction if he raised problems to the highest level of the Company, and after they were completely understood, they were formally rejected.

①

Most Product Lines are very large. All groups are very large, and it is clear that the job of the Product Line Manager or Group Vice President is, above all, to manage.

②

There are times when he has to do selling, and because of his high level, it is sometimes important. However, it is even more clear that the marketing and strategy, and selling plans are to be laid out, and their success is to be measured by the degree to which they are so simple and straightforward that anyone can do the selling, and that everyone would remember the strategy and the selling plan. Never should they be so complicated that only the top man can sell.

When the top man in an organization has to show creativity, salesmanship, design capability, he should be embarrassed to admit it because his job is to make sure it is easily done by the rest of the organization.

The job of Product Line manager and Group Vice President is, to a large degree, to communicate and work out problems with the rest of the Company. Intergroup and interpersonal problems do not get solved with power, they get solved by being right, being patient, being generous and communicating.

The primary task of the Product Line Manager and the Group Vice President is to make sure that the tasks for every individual under them are defined, that their goals are set, and that they are reviewed often and regularly. These tasks should be separated by individuals, or by small groups, in order that each group understands what their task is, and is motivated to accomplish it, and learns from the mistakes they make.

It is particularly important that the Group Vice President keep the Product Lines separated and independent. This is one reason why we want all changes in organization, under a Group Vice President, to be formally proposed to the Operations Committee, and formally accepted. It is commonly observed by Professors who make studies of companies, that companies are not able to enter into more than a very small number of markets and products. That is because an individual can only be interested, and only be expert in a small number. When the top planning group, or the top manager of a company, or the top manager of a division, or the Group Vice President does not isolate each Product Line, and does not operate them as separate businesses, he does limit them by his own interests and enthusiasm, and expertise. They invariably end up concentrating on one or two and failing in the others.

One's own pride and the search for efficiency keep pressuring one into being kind and running everything. Digital is set up on the premise that no one is that good, and we have broken down into Product Lines to allow us to succeed in many areas. The Product Lines, in turn, should break down into many pieces. The Product Lines are now many, many times bigger than Digital was when Digital had to break into Product Lines. For example, in education, each area of education should have one or two people assigned to it. They should lay out plans for that area, have them approved, and then should be measured on the success of their plans.

COEM should be broken down into a number of groups. Each group should be managed by an individual and a team. They should lay out plans and be measured on them. We should eliminate the need to invest heavily to collect data to maintain these measurements. Measure on common, obvious results.

The small business computer group should break down by application, and each individual or team should be responsible for the application even though there is a huge number. Having one boss and one very large team responsible for 50 or 100 applications means that the group can only be expert in a very tiny number of applications.

Some of our most striking failures are because the Group Vice President or Product Line manager has not assigned responsibility for some of the major decisions. When we invested very heavily in products and then ordered large numbers and put them in inventory and they never moved, the top people were too busy or too committed to other things to expend the energy and effort to market the products and get them moved. If, before the products were planned for, someone was responsible for that project, he then would automatically have the responsibility to making it work afterward.

When responsibilities are not broken down, and are not clear, as with all organizations, the tendency is for people to see how much money they can spend, and how big they can get, and how many people they can acquire, and measure their success by status symbols. When responsibilities are clear, the Group Vice President and Product Line Manager can concentrate by understanding the strategy and the financial plans of each of the pieces under him. He then can, at all times, understand why we are doing better or poorer than other Product Lines, or the competition. He then can insist on economy which you cannot insist on when he is the focal point and has responsibility for a huge collection of pieces which should be individually managed.

When a Group Vice President or Product Line manager has his operation organized, all tasks are assigned, and all he has to do is look at the overall view and to solve those problems which cannot be solved at a lower level. He is then free to take his Product Line problems to the top of the organization and make sure they are reconciled. He has time to work out the strategic problems with the rest of the Company at his level which he has never been able to do, and he has all the responsibility for all the detail planning and budgeting and selling concentrated on his own shoulders.

Top level selling, representing the group, the Product Line, or the Company publicly, or the committee, working out top level problems are all part of the job. The main part of the job is managing, organizing and reviewing the projects under him.

KHO/ep
K01:512.71

MAR 09 1983

~~WIN~~ O.C.

COMPANY CONFIDENTIAL

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I N T E R O F F I C E M E M O

TO: OPERATIONS COMMITTEE

Date: 9 March 1983

CC: Don Gaubatz
Mike Gutman

From: Ken Olsen

Dept: Administration

MS: ML10-2/A50

Ext: 2301

SUBJ: CHART OF PRODUCTS, CHANNELS OR PRODUCT LINES

I think we should make a chart out of our products and our channels or product lines. With this chart I think we will be able to see in which areas there are things missing, and in which areas there are conflicts and maybe accomplish some product changes to get rid of conflicts.

Attached is the start of the chart I propose. It is not complete, but indicates some of the things we can do. In this chart I have proposed the Q box, which is the computer we agreed to have studied for a month. That study will be over a week from Monday and we should get a proposal from the group soon after. This Q box is basically a simple, fairly large box to hold variable sizes of Q-BUS. The same box will hold four, eight, sixteen, or twenty-four slot Q-BUS and will hold the appropriate power supply to go with each one. The box, therefore, is expandable if one buys a completely new Q-BUS and a completely new power supply to drive a bigger system. This Q-BUS will take F-11 and J-11 and sea horse and MICRO-VAX computer boards and maybe a number of others. It has complete freedom and, with a Q-BUS, the few modules that allow you to do anything you'd like to do.

To differentiate it from what our OEM group is planning to sell, and to differentiate the terminals from what the Terminal group is selling, and to make it easier to install for our own selling groups, I am suggesting that we drive these with Standard 422 twisted pair wire, instead of a twenty-five pin connector Standard 232.

Standard 232 is the de facto standard of our industry. This is why you see huge numbers of twenty-five pin connectors behind our large multi-user systems and why you see relatively large numbers of connectors behind our personal computers and behind IBM's. The 422 is an official Standard and has a lot of engineering appeal and is used extensively, (but not for terminal driving), by most manufacturers. In fact, looking at magazines and at shows, I can't see anyone who is doing 422 on a computer product today, although I am sure someone is.

If we go to 422 it means that we will be using two systems within the Company, and that we will have two sets of terminals. The differences are relatively unimportant and a small adaptor would convert from one to the other, but it will mean that after we make the conversion we will be able to hook our systems quite easily and they will be

differentiated for awhile from what the rest of the world, including what our OEM's are doing. I think it is reasonable to keep 232 for our OEM's and for our terminal dealers because they would be roaring if we try to change them because the world that they sell into is definitely 232 and probably will stay that way for a long, long time.

The workstation I would propose would be the same box as we proposed for the business computer. I think it would be a catastrophe to have three different groups make the three sizes of workstations for universities and for engineering. If we have the Rainbow group make the \$4,000 workstation and the Professional group make the \$8,000 workstation and the 32 bit group make the \$16,000 workstation, we are going to have a family of workstations that are incompatible, and fiercely competitive with each other, vying with inconsistent features and options and each one driving to get a bigger share of the market for themselves. We will look like jerks to the customers.

I think it is much wiser to say that we will have one brochure and one family. It is easy to understand, easy to sell, and it consists of one box which uses a four-slot Q-BUS, a small power supply, and an 11 computer on a board with a small number of options. The \$8,000 machine has more options, including a WINNI in the same box, and the \$18,000 machine uses a floppy, a WINNI, and an AZTEC and has sixteen slots and room for a lot of options. The rest of the product line would be a set of two, four, or six or so display units. These would range from fairly high quality, low price, to very high quality, very high price, in both color and black and white. This would make a beautiful brochure, when you have a set of computers that are modular and can be bought and added on to, and a choice of display units so that you can make an inexpensive educational computer, or a very sophisticated engineering workstation, all with the same family and what you do in one area is built upon to go to the next higher step.

This Q box today is proposed to have, besides variable sizes of busses, with appropriate power supplies, slots for up to three tapered disk units of the size of an RX02. This means they could have none, or an RX02, a Winchester and a MAYA. The unit is on wheels and approximately the width of an AZTEC tape, so that it could then be sold with or without an AZTEC tape on the top. The unit may be slightly wider than an AZTEC so that panels can be put on the side, including the AZTEC, to make it a little quieter.

Besides putting AZTEC on the top, it will be designed so that we can put an RL02, an RA60, or any one of the new disks that we have of this size.

This box claims to do everything for everybody for all time, almost. The price to be paid in order to accomplish this is that the box is bigger than necessary for almost all jobs except one that has a complete set of twenty-four modules, three small disk tapes, and a large one on the top. But, because things are relatively small now, it is proposed that this cost is well worth the generality we obtain.

For the case where only the four slot Q-BUS is necessary, I think we

approved that we can build this very nicely into the base of a 350 multi-box. This means that for the simple unit in this family it would look the same from the outside as a 350 and take advantage of the beautiful design we have propagated and also take advantage of all the tooling and the hardware we have inventoried.

KHO:m1

KO2:S6.25

ATTACHMENT: (1)

	Dec mate	Rem bow	Profes labol	Repackages CAM	LCP5	LCP8	LEPulver	Q Box	Femino Crmin 232 4
JOEM-COEM	X	X	X		X	X	X		
in dealers	X as term	X as term	X as term	X					
Retail Stores (big users)	X	X as term	X as term				X		
BOIS (dealers)	X	X as term	X as term				X		
Work Stations (+ choice of Pupils)									
LDP	X as term	X as term	X as term				X		
Edu									
Terminal D On-Tin buttons									

Small Computers

* Q Box - 4, 8, 16, 24 slots
 F Board, J Board, Seehase board,
 see Vax Board
 choice of floppy, Winni, Mays, Anita, No2, Dico etc

K. O. M. 8 March 83

* d i g i t a l *

June Woods
O.C.

TO: OPERATIONS COMMITTEE:

DATE: WED 9 JUN 1982 3:01 PM EDT
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

SUBJECT: JUNE WOODS MEETING (A WAY OF DOING BUDGETING)

I'd like to see us do budgeting in three places in the Company: Engineering, Marketing, and Sales.

I think each Engineering Group should do their own two year and five year budgets which could be used for planning and proposals for funding. The budget would not be approved by the Marketing and the Sales people, but should be based on what's going on in Marketing and in Sales, or they may have a tough time justifying it when they look for funding. Funding would be proposed once a year to the Operations Committee with the budget and the product plan. It would be justified in their presentation by what they know about the marketing plans and the needs of the customers.

The second two year and five year budgets come from the Marketing Group. The Marketing budget is really a product plan which allocates how much would be spent on each factor including how much would be spent in Sales. It too is independent and not necessarily consistent with the Engineering and the Sales budget.

The Sales budget would be done for two years in each district and based on their enthusiasm for the marketing and the products developed by the other groups. The Sales budget would be used for ordering parts and materials, and would be the business plan of the Corporation. If the Sales plans are grossly different from the Marketing plans, they may have to justify the differences. However, they only have to offer to sell those products which they believe are correct for their market and those which they have confidence in.

The process is relatively simple. There does not have to be agreement between large numbers of people. Each group doing the budget is held responsible not only to understand the factors that immediately go into their own plan, but they are also responsible to find out the thinking and the plans of all the other people who are involved.

This system is not unlike the system by which most people in business operate. At Polaroid the marketers lay out a business plan. They do this by keeping close contact with the selling groups. They are held responsible even though they have no direct control over the selling groups. It motivates them to market well, and to be very helpful to the selling group. They stay very close to the selling groups and have a lot of influence, but they are not in a position to tell the selling groups what to do.

COMPANY CONFIDENTIAL

For all Employees of Digital
copy in both
O.C.

+-----+
: d i g i t a l :
+-----+

I N T E R O F F I C E M E M O

TO: Jack Shields
Bill Long
Ed Kramer

Date: 24 November 1981
From: Ken Olsen
Dept: Administration
MS: ML10-2/A50 Ext: 2301

CC: Operations Committee
Ed Schwartz

SUBJ: WHY DIGITAL WILL NOT BE ABLE TO SELL DIRECT

Digital will never be able to sell a significant amount of equipment to small businesses because we don't think like a small business and what is worse, we don't know that we don't think like a small business.

We take forever to do things. We think a few weeks or a small number of months is fast. We make selling simple equipment very complicated. We have no end of red tape for a simple order and we leave the customer with a feeling that our bureaucracy is as sensitive to the small businessman's needs as the OSHA inspector.

We teach our salespeople a few of the small business words, such as: general ledger, inventory package and payroll.

A manufacturing customer can tell if the manufacturing salesman knows anything about manufacturing the minute he walks in the door. The small businessman can tell, even with his back to the door, whether the salesman walking in knows anything about a small business. Tricky advertising, hidden charges and surprise charges seem great to the marketers sitting in their big buildings far from the small businessman, but they make the small businessman suspicious. Getting different prices at different times from different parts of the company for the same equipment makes a small businessman very suspicious, even though it gives the salesman great satisfaction to know he is in control of these factors.

At Digital we go through a whole recession with a large part of the Sales Department, and many parts of the rest of the Company, never even knowing that the Company went through a recession. A small business knows every day, every week, and every month what his income is and how close he is to going bankrupt. (When all the officers at Digital knew how the Company was doing every day and what dangers there were, we didn't have the red tape that we have today.) When the key plans of a small business are felt to be dependent on the whim of a bureaucrat at Digital, the distrust and anger can make a small businessman irrational.

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Digital, like all big companies, puts people in the field who are not experienced and feel victims of the system. Management sits back at headquarters and looks at numbers with no inclination to find out how the customer thinks. When they make visits they do all the talking and learn nothing. When they send out questionnaires they rig the questions so that the real problems never show up.

It is interesting to think of IBM's problems in entering the Small Computer business. Sitting in their awesome building in Connecticut, it is easy to see how they would lack feeling and sensitivity to the small business. They have acres and acres of bureaucrats doing good things for IBM but driving the small business people up a tree. It is disturbing to realize that we are no better, with the exception that our buildings are not quite as awesome. If you were a consultant, the obvious advice you would give to IBM would be, don't try to sell to small businesses. Use small businesses to sell to small business and be careful to treat them with great dignity, sensitivity and care. Small businesses must be treated with rules and discipline. Red tape only keeps you out of trouble because it cuts down the amount of business you do.

I think our insensitivity to small business is indicated by our DEC Dealers Program. I understand that we have been holding several hundred applications for many weeks. We tell our customers we don't know what our decision will be or what the algorithm is. Every time we meet with them we have different ideas. This behavior drives our customers up a tree, particularly when some of them know that it takes forever for Digital to make up it's mind. An infinite number of bureaucrats are in the channel and a year without selling a product doesn't make any difference to a big company. The final devastating blow to a small businessman is when we tell him a committee will pass the final judgement on his application to be a DEC Dealer.

There are times when it seems as though the management of this Company is committed to proving that amateurs can do everything. If the managers are amateurs they must continue to prove that amateurs can do it all. Picking agents is not a new activity. Many companies have done it in many ways and there are a lot of experienced people available. We can find those who will teach us or who have done it before and are aware of the pitfalls and how to do it smoothly and nicely and not offend others.

Sometimes at Digital it seems like the process, and the ritual is more important than the order. When Stan first opened the stores he claimed if you had money in your pocket and a station wagon you could go to the store, put the computer in and drive away. Now there is a whole flow chart* of steps that have to be gone through that can take several weeks. Even if you do pick up the unit there are surprise charges involved.

This deterioration and how we sell small computers may just be the way big companies operate and we should know better than to try to sell to small businessmen. The sad part is that the deterioration doesn't bother anyone.

*flow charts attached

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I don't think it is worth trying to straighten out the Sales Department because I am not sure that any big company can do it. It is the nature of the people we hire, it is the nature of the management we have and we can't change anything this big. This is why I suggest that we drop all direct sales to small businesses and shut down our Stores. In addition, that we sell to all outside channels and pick those channels by an algorithm which we publish to everyone ahead of time. We must sell to everyone with exactly the same terms.

This news is going to kill some people because their whole career at Digital has consisted of manipulating and maneuvering the customers by changing pricing, discounts, having Sales pass judgement, and in general acting like an OSHA inspector. The way we did things worked well when we didn't need the business and we had a trivial number of stores and a small number of salespeople. We need a more businesslike approach if we are going to capture a large part of the market.

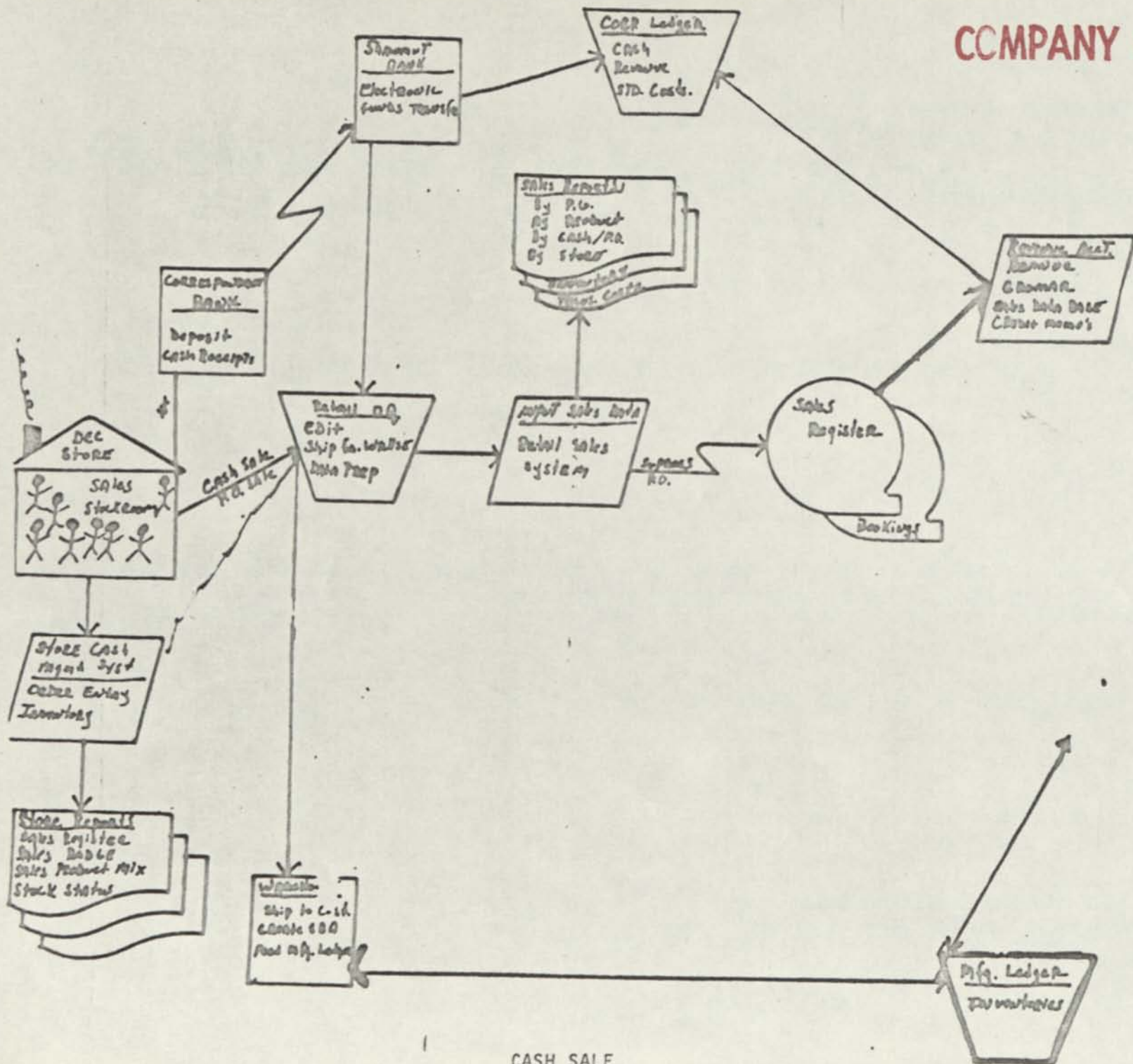
Catalog sales can be very popular. I must have received forty expensive gift catalogs in the mail recently. Part of the popularity is due to the problem of traveling. More importantly, many of us don't want to talk to a salesman. We don't want to explain why we want an item. Sometimes we don't want to admit that we don't know what we are doing. When we are ready to buy, the last thing we want to do is go to a salesman who is going to pass judgment and decide whether he will let us buy the product.

KHO:ml

K01:S7.63

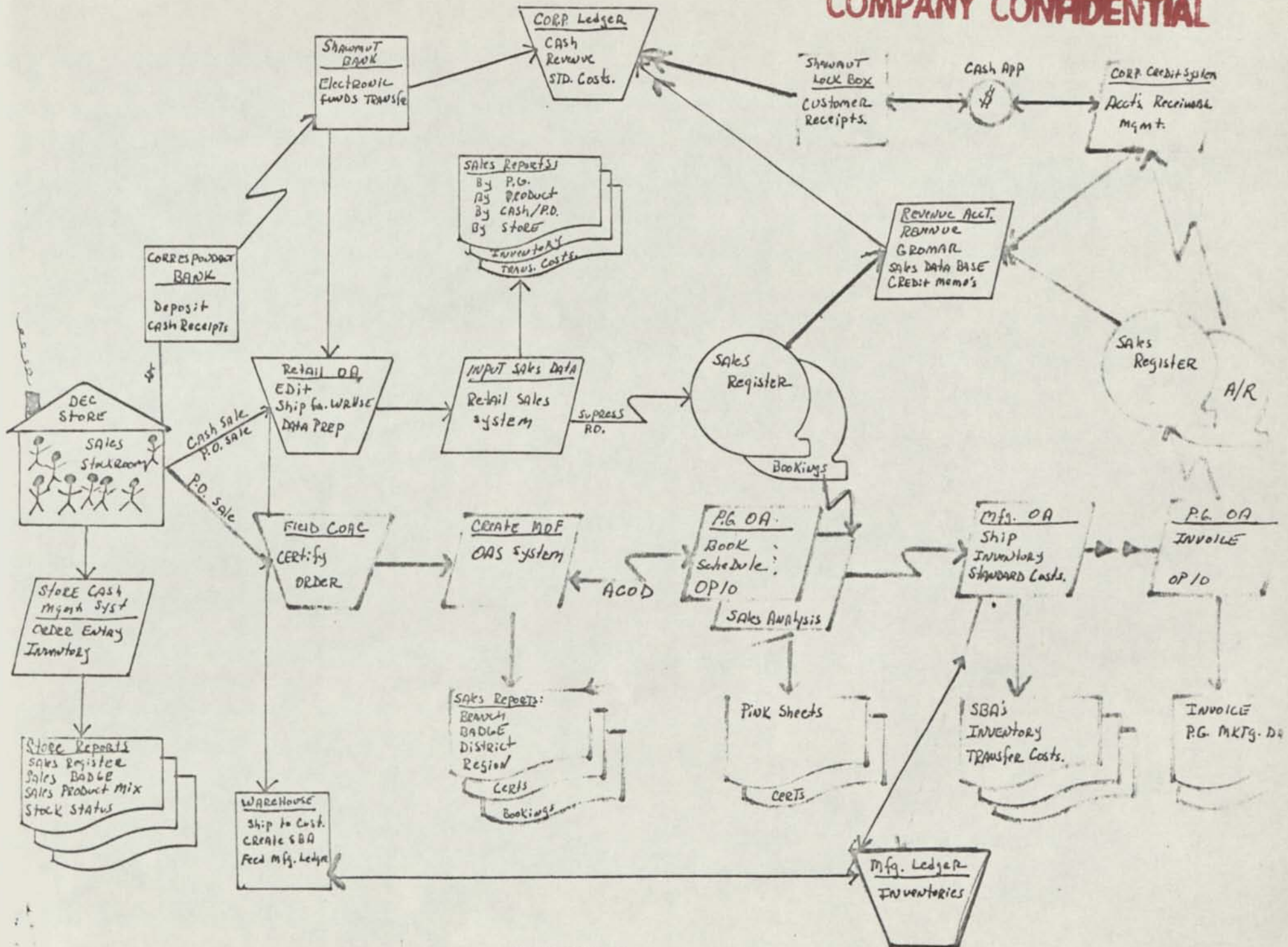
Attachments: (2) Flow chart - Cash Sale
Flow chart - Credit Sale

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CASH SALE

COMPANY CONFIDENTIAL



CREDIT SALE

digital

Ken Olsen
O.C.

TO: SHEL DAVIS
JOHN SIMS
cc: OPERATIONS COMMITTEE:
RON SMART

DATE: WED 24 MAR 1982 12:26 PM EST
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

SUBJECT: JOBS WITH GOALS AND MEASURES

During the early 70's recession, when large numbers of technical people were unemployed, I had the unhappy job of interviewing many of them. I concluded that those who had worked at a trade, such as engineers, or real marketers, real financial people, or technical writers who were good and had a number of years experience, had little trouble finding a job. Those who were devastated because of lack of interest in their qualifications invariably said that at one time they were something, but since then they had become paper pushers, expeditors, or committee members. They were very much appreciated, their pay went up and they worked hard and took part in interesting activities. However, when there was a cutback they couldn't explain what they were good at and they did not have years of experience that developed skills that were marketable.

At that time I vowed that we would never get into that position with any of our people. However, human nature seems to drive people into jobs which have title and apparent power, and where they, as an individual, don't have immediate goals and immediate measures which will identify success or failure.

When I am in the Field I sense disappointment in some people, who have been looking forward to the day when they could come to Maynard and have one of these well-paying jobs with a good title. However, I don't sense that they have a feeling of professional ambition, or that they know what they want to be, and what they have to learn or train for in order to get there. It is almost like saying, "I want to be a prince". A prince doesn't need education, learning, or experience, nor does he get measured, rewarded and developed.

Now that outplacing is getting to be a well-developed institution, will you survey the outplacing organizations to find out which categories of people are hardest to outplace at this time? If it is true that we have allowed people to get into positions where it is hard for them to find other jobs, we should discuss this and decide how we should change our policies. If you find interesting information, let's make it a point of discussion at the April WOODS.

This idea developed over the weekend, when I read about outplacing people from Honeywell. The article pointed out that the one person who had difficulty finding another job held the title of Marketing Planner. I worry about how many titles we have generated like that one, and about the people who would find

it difficult to find another job.

In our discussions with Personnel, we always assume that things are going to stay like they are today. But, the nature of our business is that everything goes in cycles. Right now there is an enormous demand for people that come from Digital, because risk capital money is flowing so freely that many companies are being started that need any kind of experience. However, risk capital money is more cyclical than almost any other factor, and when it dries up we may see a different pattern in needs for professional people. One thing is sure, this world does not need very many personal computer makers or terminal makers, and when the risk capital people realize this there is going to be a fast turning away from certain segments of our industry.

KHO:m1

KO1:S10.34

FEB 23 1982

O.C.

COMPANY CONFIDENTIAL

+-----+
: d i g i t a l :
+-----+

I N T E R O F F I C E M E M O

TO: OPERATIONS COMMITTEE

Date: 23 February 1982

From: Ken Olsen

CC: Ed Schein

Dept: Administration

MS: ML10-2/A50

Ext: 2301

SUBJ: SONY

Attached is the story of a Japanese company from which we may learn and perhaps develop more formal ties with.

We used to have some of these ideas. Almost everything we did that was successful in the early years of the Company were successful because we were different from everyone else. We built facilities in places no one else ever thought to go to, we made products that no one else ever thought of, and we used names and advertising and promotion and marketing ideas that were different from all the rest.

Now we don't want to move into a place unless everybody else is there first. We don't want to work on a product until both IBM and Apple have done it and we don't want to pick names that aren't the same as Apple's and IBM's. Our facilities have to be what we imagine facilities are for a company of our size and we are not willing to deviate from that image. We are willing to hold on to facilities for years, leaving them empty, until they match what we think reflects our status in life.

It might be that SONY, in a few years, will go the way of all the other Japanese companies. It might also be predestined that Digital will be like RCA and General Electric and it may not be worth the effort to fight it. Maybe we should just grow old graciously and enjoy what we have while we have it. However, there is the suggestion that perhaps we and SONY may preserve our ideals if we cooperate a little bit.

KHO:m1

KO1:S9.60

Attachment: (1) SONY Article

'We never follow,' the motto at Sony

By Richard Bill
Associated Press

TOKYO - Akio Morita says the smartest business decision he ever made was turning down his first large order - and with it a chance to break into the US market. That was 25 years ago, when Sony was an obscure Japanese firm struggling for survival.

Today, Morita, chairman, co-founder and controlling stockholder of Sony Corp., presides over an empire that last year rang up \$4.2 billion in sales, has 35,000 employees and is a household name worldwide, its trademark registered in 176 countries.

"We do what others don't," says the 61-year-old Morita, eldest son of the 14th head of a sake brewing business that dates back to the 17th century. "We never follow."

That, he says, has been the company's motto since it opened for business in May 1946, less than a year after the atom bombings of Hiroshima and Nagasaki. Its business then was repairing radios on the third floor of a fire-bombed Tokyo department store.

In 1957, Morita set out to conquer America, although his first try ended in failure. Approached by a US company to distribute 100,000 "Soni" transistor radios, Morita agreed - but only if he could use the as-yet unknown brand name. The Americans said no, and so did Morita.

A few years later, Sony had established its reputation and was ready to challenge the market. Looking back on the original decision, Morita says, "We couldn't have done it any other way."

Morita has been in the vanguard of consumer electronics for two decades, but the history of the firm that started out as Tokyo Telecommunications Engineering Corp., is a true rags-to-riches story.

In the early days, Morita recalls, he and his partner, electronics buff Masaru Ibuka, kept umbrellas propped on their desks to keep out the rain. Their first product, a rice cooker, was not a trailblazer for a long line of successful products. They made 100, sold none.

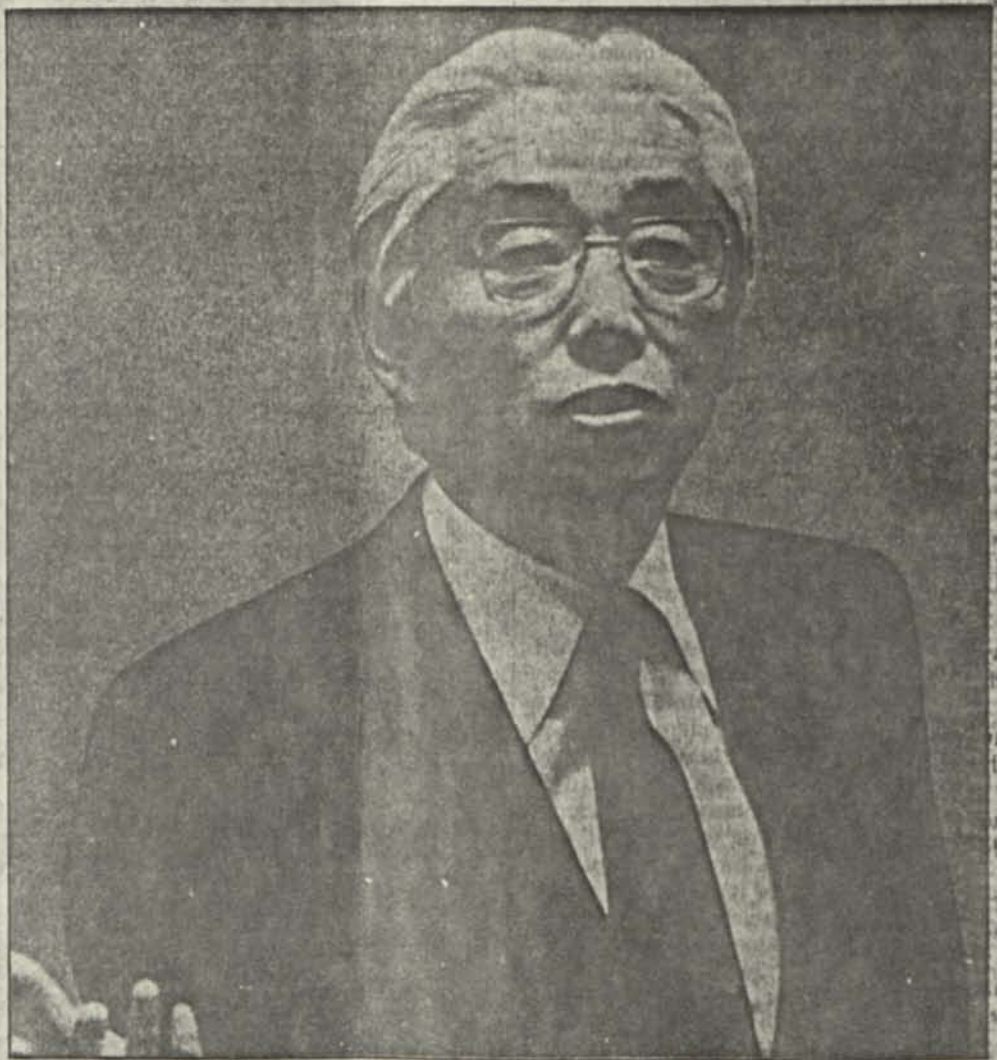
Ironically, Sony's first commercial success, a tape recorder, almost was its undoing. Like the rice cooker, it wouldn't sell. Tape recorders were unheard of in Japan then - there wasn't even a word for it in Japanese - and the \$400 price tag was beyond the reach of most consumers.

Morita then did what he may do best: He created the market, although in this case somewhat unwittingly, by translating into Japanese a US pamphlet entitled "999 Uses for the Tape Recorder." The boom that followed is history.

There now are 10 major Sony plants, with more than 1000 employees in each, and about 30 smaller plants in Japan. Sony also has a plant in San Diego, Calif., one planned in South Carolina, and others in West Germany, Great Britain, France and Spain.

Two years ago, Morita again demonstrated his marketing flair when Sony unveiled the "Walkman," a lightweight portable cassette player with earphones. It was quickly imitated by others.

"We do not market a product that has been developed already, but develop a market for the product we make," Morita



Akio Morita ... "Japan is not No. 1."

GLOBE FILE PHOTO

says. "The Walkman offered mobility. It allowed its user to walk around. But there hadn't been anything like that until we introduced it."

Morita, with his shock of silver hair, looks like the tycoon that he is. According to one acquaintance, he has imbued the company ranks with the idea that he is "No. 1," and has no heir apparent. Yet,

like other employees, he wears a plain work jacket with a plastic badge reading "I Love Sony."

Like many Japanese executives his age, he served in World War II - as a naval lieutenant. He is an avid golfer and skier. Unlike the workaholics for which Japan's business world is noted, he spends only

SONY, Page 21

'We never follow' is the motto at Sony

■ SONY

Continued from Page 19

eight hours a day at work, entertaining friends at dinner parties at home. He doesn't pursue business in restaurants and geisha houses, as is the custom.

Morita lives in Meguro-ku, one of Tokyo's oldest and wealthiest districts, about a 15-minute drive from the office — by chauffeur in a dark blue Mercedes-Benz company car.

According to a company biography, his 26-room house has an indoor swimming pool and traditional Japanese-style bath, but only one Japanese-style "tatami" room.

Mt. Fuji, 60 miles to the west, can be viewed from a rooftop observation post. The main dining room is done in black and white, so that guests dressed in any colors will not clash. A profusion of audio equipment, presumably all Sony, is connected to 200 loudspeakers throughout the house.

Morita is a collector of piano rolls and guests routinely are greeted with George Gershwin's "Rhapsody in Blue" wafting through the hallways.

His office, on the other hand, is described by aides as "not very gorgeous, very simple in fact."

Among Japan's top business leaders, Morita is perhaps the best known outside, and may have helped, more than any other, to bridge the gap between East and West. A frequent visitor to the United States where he once lived briefly, he prefers to use his nearly-fluent English in interviews.

His unconventional style has caused the leaders of older firms, some with roots in Japan's feudal age, to criticize Morita as a maverick and an upstart. He scoffs at this, replying

that Sony is the "most internationally-minded" of Japanese companies.

But Morita does not disagree with the standard litany of Japanese business, that Japan is a resource-poor country that must export to survive. "As a business organization we know we must be competitive. That's our basic principle. We are very specialized. If we veer away from that we will find it very hard to compete," he says.

Morita decries the mood of protectionism apparently rising in the West against Japan's export onslaught, but roars with laughter when asked if he believes Japan truly offers an open market to foreign competition.

"Of course we do," he says, "but there are differences in the way we do things here."

The most marked difference is, he says, is Japan's "lifetime employment" system, under which school graduates joining a company — a 22-year-old joining Sony today can expect to earn \$10,900 a year, including eight months in bonuses — are likely to be still working there 25 or 30 years later, as highly-valued employees.

"The older ones have gone through the whole range of company operations," Morita says. "They have the experience you can only get with age. That's why all members of the company are willing to work hard. They all share the same fate. And that's why we're willing to invest and spend more — for the future."

Morita, however, is critical of the Japanese practice of judging job applicants by the schools they attended. In the 1960s he threatened to burn the school records of employees who had been at Sony more than two years. Instead, he wrote a controversial book challenging the idea that the "right" university is a passport to an easy career.

Another advantage of Japanese companies over foreign ones, Morita says, is that they do not have to face shareholders' every quarter and show a profit. That, he says, can only stymie business. Japanese firms are more willing to risk losses in the short-term, expecting that profits will come eventually.

Sony is no exception, having several times invested in development of products — among them a color television system, a wristwatch-radio and a camera with built-in voice recorder — that fizzled, sometimes at huge cost.

Morita, ever the maverick, does not subscribe to the view that Japan, after years of being regarded as an imitator and student, is now the place where the West must go to learn.

"We don't think that," he says. "Japan, whatever people say, is not No. 1."

"Whenever we face a problem we try to get new information from the outside. Just like you go to school. Naturally, if we go to school we have to pay tuition, and if we go to school we have to digest what we learned there."

"Only then can we combine our technical knowledge with what we've learned. That way we can create new business. We're willing to go back to school any time."

Although not highly optimistic about the business outlook for the next decade, Morita says, he thinks Japanese industry will continue to flourish "at least until the end of this century."

"As I said before, whenever we hit some crisis the Japanese people will work very hard to overcome that problem," he says. "We Japanese excel at crisis management — we've had enough experience."

* d i g i t a l *

O.C.

TO: OPERATIONS COMMITTEE:

DATE: MON 8 FEB 1982 1:00 PM EST
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

SUBJECT: SAYINGS OF CHAIRMAN KEN-FALSE BELIEFS

1. In the olden days, everything was easy (of course, we were 100 times smaller).
2. If it all worked for me, it would automatically be integrated and there would be no need to plan and review.
3. "Marketing cannot be measured."
4. "Education makes no contribution."
5. "No organization and systematizing can be done."
6. "A step by step check list of marketing cannot be done."

K01:S9.33

Dictated (2/7/82) but not read.

OC Jan 26
WOM O.C.

* d i g i t a l *

TO: ANDY KNOWLES
cc: GORDON BELL
OPERATIONS COMMITTEE:
JACK SMITH

DATE: FRI 22 JAN 1982 10:45 AM EST
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

SUBJECT: LOW END MARKETING

I am resending this memo. Please disregard the memo sent earlier this morning on the same subject.

* d i g i t a l *

TO: ANDY KNOWLES
cc: GORDON BELL
OPERATIONS COMMITTEE:
JACK SMITH

DATE: FRI 22 JAN 1982 9:33 AM EST
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

SUBJECT: LOW END MARKETING

I was pleased with what we accomplished at the WOODS meeting. However, we didn't accomplish the major goal I had in mind, which was to organize so that the low end can concentrate on Marketing and nothing else.

I would like to keep a steady conversation going on the marketing of the low end. Please come, during the short-item session at the Operations Committee next Tuesday, prepared to discuss what you have so far on Marketing organization and Marketing plans. At each future Operations Committee meeting I would like to have you continue the dialogue, updating us on your accomplishments and your thoughts.

I don't think that people realize that the secretaries and Mike Weinstein did the seminars and that film independent of the product lines because they were impatient with a lack of marketing. This has gone on too long and I don't think we can afford to wait.

There are many loop holes in low end marketing, particularly in the 278. For example, we don't have literature to give to the DEC Dealers. We have had a committee of fourteen people controlling them, but nobody marketing for them. They not only

are without literature, but no one has thought out, or asked them, what they need in the way of a product line in order to be in business.

I don't want the product lines to tell Subsidiaries and Sales what they are going to sell next year, because the product line doesn't have time for a marketing plan. Instead, I want them to have a marketing plan and I will see how well the marketing plan works by how many units each Subsidiary wants to ship next year.

On Tuesday, I would like you to bring the person responsible for marketing, and Gordon and Jack to bring the person responsible for engineering to that session. I would like them to tell us what their product plans, literature plans, software plans, and the rest of their marketing plans are.

Sometimes I have the very strong feeling that our men are terrified by WANG and only the girls are willing to face up to them. Our men get so involved with the CT, which won't affect our business for a year, that they have an excuse not to get around to marketing and facing WANG with a 278. If we can't find men who are willing to learn the product and learn what the customers need; give the customers what they need, and do a thorough marketing job, I think I know where I can find people who can do it.

KHD:m1
K01:S8.63

COMPANY CONFIDENTIAL

Ken Olsen

O.C.

+-----+
: d i g i t a l :
+-----+

I N T E R O F F I C E M E M O

TO: Ted Johnson
Al Bertocchi
Shel Davis
OPERATIONS COMMITTEE

Date: 11 January 1982
From: Ken Olsen
Dept: Administration
MS: ML10-2/A50 Ext: 2301

Jan 21 SUBJ: DIGITAL'S PHILOSOPHICAL BUSINESS BASIS

2:30 PM I would like you three, Chaired by Ted Johnson, to be a committee working almost full time to define the philosophical business basis for our Company and to outline the alternative basis on which we could be organized.

We have lost much of the basis upon which we were organized during our years of great strength.

We used to believe that every person and every group had goals that were clear between himself, his peers, and his boss. The goals were reviewed and measured regularly and often.

We also believed that each manager had the responsibility to work out a plan to accomplish his goals, taking into account all the constraints and limitations that were imposed upon him. Charter limitations and resource limitations were not excuses because they were part of the plan.

Now, unfortunately, large numbers of people don't feel they have a goal. They don't feel they are measured, and don't even feel that their boss knows that they exist.

Our managers often don't feel they have a responsibility to develop a complete plan and to make that plan work. They feel that when they propose a plan to the Operations Committee, the Operations Committee has the responsibility if it doesn't work.

For example, if the Word Processing Product Line proposes no demonstrations and no sales calls because of the low price of their product, and the Operations Committee accepts their plan, the product line is not responsible. It is not responsible if it is absolutely impossible to make a large number of sales because we direct every inquiry to one of twenty stores in the country to receive the sales pitch, demonstrations, and have questions answered. In the old days a product line would be responsible if they proposed a plan that could not possibly work, even if it was accepted.

We spend almost a third of a billion dollars in Engineering. Almost all of this is overhead, (if you define overhead as money that will never contribute to a product that will be in production in the next two or three years.) Currently, any time you want a product quickly

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it takes extra funds. The ordinary budget is almost all overhead and any products we want requires extra funds. It is our responsibility for no products if we don't contribute.

Some people think the problem is that the Operations Committee takes part in too many decisions. That is not the problem at all. The problem is that we don't have managers who take responsibility. If each Engineering Manager took the responsibility to make sure we had products that would be competitive with the market every minute of every year, the Operations Committee would just have to show appreciation for the work. At the moment, there are many projects which have been stopped because Engineering Managers feel the Operations Committee has been asked a question and it can't make up its mind. The Operations Committee doesn't know it was asked, doesn't know it is holding up things and the Engineering Manager doesn't feel responsible, one way or another, to get the product out to fit the market need.

This is also true of Product Lines. They think that their question has been asked of the Operations Committee. They are spending money on all the things they spend money on, but if we really want to succeed the Operations Committee is supposed to figure out some implied question and donate money to get the answer for it.

One example is the small, simplified 11/23 with RL02s. This question has never been asked clearly and is not one that goes on from Agenda to Agenda. However, engineers and product line people seem to think that the Operations Committee has delayed the donation of money for it.

If certain product lines and certain engineering groups had really put their minds to it for the past year, we could have had a simple, inexpensive, 11/23 with RL02s that could really overwhelm the market. In the last year it is hard to imagine what all the money went into because we have little to show for it in this key part of our market.

Product Lines seem to think that whenever there is a Charter question they are not happy with, it excuses them from all obligation to make a success of their product. They are then allowed to compete more inside than outside.

I think there are a number of issues here and I think it is important that we attack them very seriously. I would like this committee to report to the Operations Committee once a month. They should plan to report to the Board of Directors in June, telling them how we are organized today and what our choices are in the future.

RUNNING THE COMPANY FROM THE CONTROL PANEL

At times, the Operations Committee talks about running the Company using the "Control Panel." This is like driving a dog sled, with dozens of dogs, from a long distance behind the sled and facing backward. All you are going to learn from the control panel, or the financial data, is where the sled has been. In no way will you know

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where it is going, except by extrapolation. It is a delusion to think you are driving the sled.

Sometimes someone on the committee turns around and sees a tangled harness and the yelling and yelping, barking dogs and yells a command. As one might guess, he has little effect on the dogs.

MATRIX MANAGEMENT

The sled does get somewhere, sometimes very well, and onlookers say it is the result of matrix management. Look at the results. Everybody is boss over everyone. There must be a secret way of managing. Of course, any good results come about because the dogs have had many years of experience and enough of them know where they should go. They succeed in spite of matrix management, not because of matrix management.

Unfortunately, some of the dogs are developing new and dangerous habits and traditions. For example, some say they have long-range plans which have been set by the golden rule, and they refuse to take part in today's needs. They feel they would be wrong to corrupt their long-term goals by cooperating today.

ALTERNATES TO "MATRIX MANAGEMENT"

It has been proposed that we break this big dog sled, with hundreds of dogs, into divisions which would just contain dozens of dogs. Behind this division would be another committee driving another control panel. This would be handled the same way, except that there would be a new head man in charge of the committee watching the control panel, and that of course would, without any change in the way business is done, make everything fine, it is claimed.

Of course there are many ways of breaking the dogs into teams. One thing is clear, each smaller team has to know where it is going and have the planning and skills to get there. They have to know their limitations in dogs, and in the environment and resources, when they lay out their plans and make commitments.

The boss of several of these teams, in turn, must be able to direct them and to see where they are going and sometimes even look backward at the control panel to see where they have been.

And their boss, in turn, has to be able to keep track of where they are going, give direction, and once in a while look back at the control panel and see where they have been. He must measure their progress on their way to the plan.

And they, in turn, need a boss who can keep track of their progress, give direction, and make sure all the pieces fit together to accomplish the common goal. He, too, looks ahead most of the time. However, once in a while, on a regular basis, he must look behind to keep track of where they have been and to make sure they are all progressing toward their common goal.

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It should be clear that everyone who at one time could drive a good sled, and who had, at one time made a good leader of an ice party, will not have the knowledge of management, the technical knowledge, or the interest to drive a large number of parties or groups of parties. They will naturally fall into being history collectors and history reviewers or will fall into driving small pieces of a large organization in great detail and allow all the others to go without direction. It is clear from the history of warfare, exploration, or business, that one has to try younger people. These younger people can lead, direct, manage, inspire and not limit the enormous enthusiasm, capability for work, and creativity that those groups and subgroups have who want to pull the sled.

We are competing with very experienced, hard-driving, smaller teams who are better, and have an easier job of leadership. At the same time, we are competing with huge organizations who have many more resources. We have to organize to get the best out of our people and have them enjoy their work and be satisfied with their work and challenged with the potential for growth, because we plan to be doing this for a long time.

KHO:m1

K01:S8.43

O.C. *Andy Knowles*

d i g i t a l

INTEROFFICE MEMORANDUM

TO: Operations Committee

DATE: 7 January 1982
FROM: Win Hindle
DEPT: Corporate Operations
EXT: 223-2338
LOC: ML10-2/A53

SUBJ: High Potential Managers and Affirmative Action

At the Woods Meeting on January 20th, we will be discussing high potential managers from each of our organizations. Hopefully, these are the people we can count on for leadership of the company in the long term.

I have been struck recently by how few DEC senior managers are minorities or women. My worry is that we may not even have any minorities or women in the high potential category. After the Woods discussions, this will be clearer.

It seems to me that affirmative action on our part at this time is having some high potential managers who are minorities or women. If we don't have them now, we'd better face the issue and bring them in. I believe we will all be highly embarrassed five years from today if almost every senior manager is white and male.

WH/CC

WH1:S.4.118

→ Win

→ Win

Certainly Rose Ann is in the high potential category. Maybe we should make her a vice president now to signal our intent.

Andy 11/18/82

* d i g i t a l *

Ken Olsen at file [signature] O.C.

TO: OPERATIONS COMMITTEE:

DATE: TUE 3 NOV 1981 12:01 PM XXX
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

SUBJECT: ASSIGNING RESPONSIBILITY

When we consider ways of assigning responsibility and for passing judgement on plans, we should compare the old simple-minded way we used to do things with our new professional way of doing things.

We used to have the Product Line plans judged by other Product Line people. We complained that this was not fair and had our outside consultant lobby with me to change this. ?

Now, we have professionals with no responsibility passing judgement on each other's plans. I am not sure that this way is any better. The professionals cannot help but develop feelings that they have been blessed by God, and in detail, tell people how to do things. When others with responsibility passed judgement, they did it with significant humility. They usually only pointed out serious stupidity, and did not feel the obligation of having their pet ideas included in every plan.

KHO/aj
K01:57.20

OC

* d i g i t a l *

TO: GEORGE A CHAMBERLAIN
cc: A. M. BERTOCCHI
OPERATIONS COMMITTEE:

DATE: MON 19 OCT 1981 11:31 EST
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

SUBJECT: TREASURER'S FUNCTION AT DIGITAL

We've been trying to broaden your experience by giving you different jobs and functions for a time.

Maybe we ought to consider a different approach. The Treasurer's function and the financial function of other corporations is broader than it is at Digital, and maybe we should set about to do the same thing. In other places, the Treasurer's function and the financial function take responsibility for understanding the economy, the risks and predictions of the future, and making sure that all the capital, growth and financial plans are integrated into their view of the future.

At Digital, we tend to put a box on the Treasurer's function, and say our inputs come from the Product Lines and from the Long Range Plans, and our responsibility is to just process the numbers within our box, and if the results are wrong, it's because we are given wrong inputs.

We do well in currency hedging, because that group takes complete responsibility, and they do a good job. Maybe you should aim the Treasury function toward taking complete responsibility for our future plans.

This would mean that the Treasury Group could no longer say: We don't know if the capital budget is wise; we don't know what's going on, and it may be stupid and catastrophic, but our input is the Long Range Plan, and we'll do our part to make sure the Long Range Plan is done.

KHO/er
K01:56.73

digital

OCT 08 1981

X *W.D. [Signature]*
INTEROFFICE MEMORANDUM

TO: Operations Comm.
Leadership Group

DATE: 6 October 81
FROM: John Sims
DEPT: Pers. Stf. Mgr.
EXT: 6633
LOC/MAIL STOP: PK3-1/C20

SUBJECT: ATTACHMENT

Notes on ^{DEC}~~Japan~~ from Eli Ginzberg, Director, Conservation
of Human Resources at Columbia University, New York.

*You received this
in August.*

CONSERVATION OF HUMAN RESOURCES
COLUMBIA UNIVERSITY
NEW YORK, N.Y. 10027

ELI GINZBERG, DIRECTOR

August 24, 1981

Mr. Sheldon A. Davis
Senior Vice President
Digital Equipment Corp.
129 Parker Street
Maynard, MA 01754

Dear Shel:

It was great to see you in M.V. Here are the notes that I promised to send along.

I hope your trip to the Far East was a big success.

I am enclosing a copy of my short piece on Japan.

After I get back to New York City I'll call and arrange for George, you and I to get together.

I would be interested in your reactions to my notes, especially where you think that they are lacking.

Sincerely,

Eli Ginzberg

Enclosures

cc Sims
OEPP, et. -
Perhaps whole
leadership group

Betty,
please have
this distributed
to the leadership
group.

Eli

PERSONNEL

AUG 24 1981

SHELDON A. DAVIS

Memorandum for Shel Davis

Discussion on Martha's Vineyard, August 7, 1981

Eli Ginzberg, August 8, 1981

1. Here are the notes that I agreed to send along encompassing my reactions and reflections on the issues that surfaced. Of course what follows represents my views, not yours, but I thought that a written record of many themes that emerged might be of some use to you.
2. CEOs:
 - a) The U.S. is probably unique among developed nations in the amount of power it entrusts to one individual.
 - b) Since many of those who rise to the top usually get there via operations, they prefer to continue to devote themselves largely to current operations and short-run problems.
 - c) This gets accentuated in the U.S. because of the continuing concern of the stock market with quarterly earnings.
 - d) The long-range strategic planning issues tend to get slighted.
 - e) In companies experiencing rapid growth it is almost certain by definition that the established structure and ways of operating will become increasingly ineffective unless changed. But CEOs are likely to be slow to recognize this phenomenon because their subordinates try to be responsive to their wishes.
 - f) When the strain between the old structure and the new realities gets very great some of the abler people near the top if unable

to bring about real changes, are likely to move, thereby contributing to short-run quiet but actually adding to the difficulties of working out long-term solutions.

- g) As is true in political life, power corrupts and more power corrupts more. It takes an unusual CEO, especially if the company continues to benefit from its momentum, to recognize that all good does not necessarily stem from him.
- h) The larger the organization the more important for complaints, dissatisfactions, frustrations that may be accumulating below to be recognized by those at the top. But most CEOs don't like to "hear" about things that are wrong--and if they do they are likely to look for a culprit who is responsible. It is a rare CEO who would look at what he is doing--or should be doing--as the source of the trouble down below.
- i) In terms of Presidents I have worked for--nine in all--only FDR actively sought out information of what was not going right in the several departments and was willing to act on what he learned including by-passing the regular organization when he was unable to change it.
- j) Given the danger of isolation of people at the top it is desirable to explore how information about the "climate" of the organization can be assessed at regular intervals and equally important how the information that points to trouble gets the attention of the people at the top so that corrective actions are taken.
- k) I have long believed that CEOs should put aside some of their limited time to talk with key people, one or two rungs down the

line, usually in and around some project to learn what they are encountering daily in getting their work done. In the absence of such inputs, the CEO becomes that much more dependent on formal reporting systems or on filtered information from his close associates most of whom don't relish upsetting him.

- l) Closely related to the above is the question of how the "succession" issue is being handled, overtly or otherwise. In recent years I have become appalled at the number of times that the CEO at the top has tried to play the game so coyly that action is delayed, too many competitors become involved, the need for a tough assessment of the heirs apparent is avoided, etc. Admittedly, there is nothing easy about this process but that only means that it should be structured with care-- and in plenty of time.
- m) If the CEO insists on not releasing any real power until very late in the process, no real judgments can be made of the potential of those who are in the line of succession. This in turn often leads to dire results.
- n) A board of directors worth its salt should be looking at this problem early and continuously but most boards are dominated by strong CEOs and therefore fail in this, their most important responsibility.

3. KO and DEC:

- a) KO continues to dominate the company at a point that is making for trouble re succession.
- b) KO and the OC do not hear as much as they should be hearing about the "noise" in the system reflected in a growing number of resignations at the middle level.
- c) Even worse, there is quite a lot of discontent quite high in DEC if one listens carefully.
- d) There is ground for believing that the tensions within the organization are getting worse, not better. If this is true, and all the evidence points that way, the potential losses of key people could enlarge from a trickle to a stream.
- e) Clearly the continued growth-profitability of the company has helped to keep some of the noise within bounds. But if the company should experience even one bad year the latent tensions could exacerbate rapidly with dire consequences.
- f) It seems to me that DEC is underestimating the extent to which competitors in the US and abroad will seek to pick off good people if, as and when the opportunity offers. Hence the growing importance of attending to the growing internal hassle.

4. Structural Changes Under Way:

- a) The growing efforts of Engineering-Manufacturing to relate to each other more effectively is clearly an important move in the right direction. The extensive fencing which KO has nourished and supported must be extracting ever higher costs in a structure in which cooperation among design, manufacturing, and markets is the long-term key to success.

- b) A second favorable development is Jack Smith's tour abroad.
He is certain to learn about lots of trouble that cannot
possibly be papered over and which must sooner rather than later
be faced and remedied. In my shorthand, the question is does
DEC seek to remain a US manufacturing company with an important
export division or does it transform itself into a multi-
national company?
- c) One of these days DEC will probably decide to enter the low
end of the market. To do so and to win a significant place
in that market will likewise require major realignments. This
too will help to force the issue of adapting the inherited
structure to the emerging reality.

5. Metrics:

- a) A major source of organizational tension is the ways in which
operations are measured. With everybody being given specific
objectives and goals, each unit is preoccupied with meeting
them, come hell and high water what that might do to other
parts of the organization or to DEC as a whole. Clearly there
is need for many subsidiary goals and measurements geared to
their performance. On the other hand, the failure to establish
goals for joint activity, the accomplishment of which is
critical for the success of DEC in the marketplace is a
serious shortcoming.
- b) Although we did not discuss the resolution of the afore-
mentioned difficulty it appears to me that the following steps

would be worth considering: identification of known shortcomings of the extant system of measurement which leads to hoarding of materials, shipment of faulty parts, high cost actions to meet specific reporting dates, lack of adequate contribution by product lines to common elements (software), delays in getting products to market, overrefinements of products, etc. With such specification having been made, it should be possible to explore how organizational reassignments with appropriate readjustments of budget and metrics might be instituted to the advantage of the company as a whole.

c) There is something, probably a whole lot, to be said for KO's belief that the best way to manage is to set specific goals for specific people and then to warn them that they must meet their targets, no matter what. But an R&D company such as DEC can't really figure out how to accomplish its work solely through multiple units going their own way. And the scope for inter-unit cooperation must be growing all the time as the company gets bigger and more diversified. The organizational-metrics issue here identified suggests the urgent need not to keep assuming that what worked in the past is working in the present. The P&L statement suggests that it is, but if the organizational-personnel strains are excessive then some day down the line the P&L statement will show it.

6. Risk-Taking - Trust and O.C.:

a) There appears to be a big gap between the proposed interest of KO and the OC with innovative proposals and the way in which

they are treated when submitted. Many people lower in the organization see the OC as the place where almost every proposal is turned down.

- b) There are able people in the field who contend that instead of encouraging people who deviate from the new, DEC is getting to be more and more uptight about individuals who don't go along with the "party-line".
- c) The most serious challenge involves the issue of "trust". If DEC goes out and hires good people on the basis of promising them scope to perform--and rewarding the good performers--it is galling to see repeated evidence of Maynard holding everybody in the field on a very tight leash fearing to let them exercise their judgment about situations concerning which they are probably better informed than anybody else. What this comes down to is the rising tensions between the few at the top and the many able people down the line, most of whom resent not being trusted to use their brains effectively.

7. Compensation and Rewards:

- a) KO has always had objections about using money as a key motivator believing that opportunities for promotion and stock were more important. Query: at present and in the future it looks as if these two preferred motivators will have less and less scope for being useful. If that is true then the compensation and benefit issue needs to be addressed more seriously.
- b). My impression is that DEC is still getting something of a free

ride on its earlier emphasis but that reality is not really giving it credence. When newcomers join DEC they find that movement up the ladder is not that easy, even if they are good and stock is hard to come by.

- c) My impression is that unless DEC introduces more scope into its monetary reward structure (and also in its benefits which in periods of high taxes are important) it will simply find itself in the 1980s losing large numbers of good people.
- d) While there must be company-wide rules and regulations governing compensation, the more DEC becomes involved in operations overseas, the more important that it provide for some reasonable discretion to local management so that it can stay competitive.

8. Human Resources and Personnel:

- a) There is little evidence that I have found which suggests that the key people in DEC appreciate the extent to which its future fortunes depend on the recruitment, development and retention of talented individuals. In the past DEC has been able to attract from the outside the additional persons it needs to staff for expansion and the belief that it will be able to keep doing so runs deep. However, the odds are strong that the opposite will soon be the case. DEC will become a source of trained people to which smaller firms will look for recruits.
- b) Under consistent and severe pressure from Maynard to meet its quotas most line managers have relatively little time for or interest in longer-range personnel considerations. They look

to their personnel staff to help them over a particular hump, usually connected with speeding up recruitment. Unless the line learns first hand about the strategic importance of personnel and how much the future depends on how people are treated today, the broad support for a strong HR policy will not be forthcoming.

- c) The present plans of Personnel to get much of its staff out into the field; to have the corporate staff deal with strategic issues; to have Shel Davis find more time to visit in the field are all moves in the right direction. But serious challenges remain. As far as I can see, the members of the OC are not particularly interested in or supportive of the Personnel mission. In fact, that may be because they believe that it has not been contributing as much as it should have. But the large part of the explanation probably reflects its short-term orientation to operating results rather than long-term strategic issues.
- d) One way for Personnel at corporate level to gain allies would be to arrange for small numbers of middle managers from the line to spend a couple of years helping to solve key personnel issues and then returning to their own branch. Not only would such "detached service" help to broaden their horizons but in turn they would bring to the top Personnel staff a better understanding about how line people think and react to personnel issues.

- e) The recruitment goals for DEC in the years ahead, even if one takes the middle range assumptions, are very large. The situation is compounded by the gross discrepancies between the demand and supply for electrical engineers that loom ahead and the ever large number of bidders that will be in the market (compare proposed expansion of defense sector). DEC has need for some careful alternative approaches to meeting its staffing needs involving the conversion of people after they come on board through special training. Such an approach would necessitate careful identification of different sources of supply--students of mathematics, language, logic, science or non-electrical engineering--and preferred transitions into different lines of work in DEC (software, marketing, etc.) with appropriately designed and focused transition courses.
- f) While DEC has had good relations with selected educational institutions it has not linked in with an optimal number of such potential sources of supply. The rapid establishment and expansion of computer science departments need to be carefully monitored; key DEC representatives must visit and appraise these newer institutions; DEC needs to pursue a program of support for the better ones and similar corporate efforts must be pursued if DEC is to gain the inside track on finding more good people among this college-trained population.
- g) At the technician level, similar linkages with various training institutions should be pursued and new relationships explored.

For instance can DEC by making machines and teaching manuals available persuade some good for-profit institutions to train students whom DEC by prior review and agreement will hire once they complete their course of study.

- h) Corporate Personnel staff should be on the alert to identify successful personnel efforts in the field, especially those which have new dimensions, so as to call them more broadly to the attention of other major units.
- i) Although the corporate personnel staff recognizes that during the 1980s for both offensive and defensive reasons DEC should show more progress in the hiring and particularly the promotion of women and minorities the performance record to date is really not much better than mediocre. Personnel might consider how to launch sound R&D efforts with an aim of uncovering some useful devices for speeding progress. Specifically could it get three different field units to participate in a joint experiment aimed at providing bridging training for females out of clerical-semi-technical work into technical positions which if monitored and successful could then be used by others. Clearly one of the principal challenges for Corporate Personnel is to lead the way.
- j) Another Corporate Personnel effort should be carried out with F/A aimed at reviewing how the present metrics fail to reflect adequately the long-run consequences of following, or not following, sound personnel policies and programs with an aim of revising the present metrics to do a better job of reflecting long-term consequences.

- k) Other tasks that Corporate Personnel should undertake or strengthen relate to a close monitoring of resignations. Preferably the good people who leave should be exit interviewed by at least two people and what they had to say abstracted and reviewed with an aim of feedback and correction. Along this same line, Personnel should aim to develop a corporate-wide pool of middle managers who should be watched--sent to school, reassigned, etc.--so that they are not overlooked when good assignments open up; and that they are not permitted to stagnate.

9. Management Development:

- a) Apparently DEC has made a policy commitment that every manager will be afforded an opportunity for 2 weeks of training every year. This is a good beginning and if carried out will represent a move in the right direction. Because of the relatively low level of such activity up to the present this commitment, if it is one, needs to be carefully monitored not only in terms of numbers but also quality. Just what kind of learning opportunities will be opened up. How much planning by the individual, his supervisor, corporate staff will go into the process?
- b) I feel very strongly that the real hurdles in the path of an effective Management Development program lie elsewhere--in KO's strong support for viewing HR and all other resources as the capital of the product line, not as an actual or potential corporate resource. If this interpretation is correct it will

continue to be difficult for Corporate Personnel to leverage the assignment/reassignment process across product lines and functions. But such a process is at the heart of successful career development. One thing that Corporate Personnel might do is to develop a reserve bank approach and assure the line that for each person who is tapped for training, someone of approximately the same quality will be made available from the corporate pool. Admittedly such a balancing act will not be easy and the books might have to be balanced every two years instead of every one but the intention of proceeding along such an axis might get the line to cooperate--at least to give the new approach a chance.

- c) In order to launch such an effort SD should pick up an old-timer who knows DEC well and is respected by the line. It will be hard even for a seasoned veteran to make the pitch required to get the program going. Without such leadership and strong backing from SD and KO it probably can't work.
- d) One of the more encouraging developments is the beginning interchange between Maynard and Europe. Admittedly it is only a trickle and many of the assignments are short-term but still it is an important beginning.

10. Miscellaneous Personnel and HR Issues:

- a) Significant improvement in Personnel and HR will depend on parallel actions to modify the organization. The matrix structure has resulted in making for great difficulties in

effective coordination: too much talk and too few decisions.

As a result there is an undue amount of hassle.

- b) The European situation must be altered, preferably sooner than later. I assume things will begin to happen when Jack Smith gets back. The present relations among Maynard, Geneva, the countries, and the country staffs are hopelessly complex and inefficient and above all else frustrating.
- c) Despite KO's strong desire to run a clean organization without favoritism, etc., many people in DEC believe that gossip and infighting are now substantial and getting worse. To complicate matters one finds the old-timers with their network against the newcomers who find it very difficult to break through.
- d) Much of DEC's culture makes good sense but there is also a strong element of provincialism and naivete about some of it. Moreover, as DEC becomes a world-company there must be more scope for local variations. The fact that people in NYC are looked upon as strange is a clue to the problems that DEC faces in getting a broader framework into place.
- e) If the OC moves very slowly to bring about significant changes in how the organization is structured and how it operates, then the next best approach is to follow along such lines as the current efforts of Engineering-Manufacturing to work things out more effectively between themselves; to get a new structure that makes sense into place once a decision is made to enter the lower-end of the market; and to do something, hopefully a whole lot, to improve Maynard-Europe relations.

f) Personnel will be able to strengthen its hand if it succeeds in making progress along the following axis in the near and middle term:

- 1) Improves the compensation-reward system.
- 2) Makes real progress with management development among other ways by bringing in a strong person to give it leadership.
- 3) Accelerates its decentralization moves by getting more of its staff out to the field.
- 4) Works out a system of getting line people to spend a year or two in Personnel.
- 5) Develops a corporate pool of able middle managers that can be drawn upon to fill some key openings as they occur.
- 6) Improves exit interviews and analyzes the results as prelude for corrective action.
- 7) Makes sure that the new employee opinion survey is well constructed and analyzed and the results widely addressed.
- 8) Develops corporate demonstrations with F/A to improve metrics.
- 9) Undertakes some R/D in HR to show long-term leadership as for instance how to deal with older workers.
- 10) Contributes to modernizing the DEC culture and basic principles to make sure that they reflect not only a small New England company but a large world-wide organization.

COMPANY CONFIDENTIAL

O.C.

d i g i t a l

INTEROFFICE MEMORANDUM

TO: Operations Committee

DATE: 28 September 1981
FROM: Win Hindle
DEPT: Corporate Operations
EXT: 223-2338
LOC: ML10-2/A53

SUBJ: FY'82 Programs

The order rate for Q1 and the September Forecast both show that we have economic problems for FY'82. We will clearly not make our FY'82 BOD plan. Next Monday at the Operations Committee we will formally decide what actions to take.

As an introduction to next Monday's meeting, we need to pull out all the stops on selling more and on cutting out all the extra programs that are nice but not necessary. I would like each Operations Committee member to put the word out in his organization that times are tough. The message should be a simple one and can have a positive bottom line:

1. The economic slowdown has slowed our order rate.
2. We must do everything we can to sell what we've got in FY'82 (not sell FY'83 futures). Everyone should concentrate on selling.
3. We must cut out unnecessary programs and cut out spending on all but the essentials. No frills, no travel except to sell, no off-site meetings, keep everything simple.
4. If we are smart now, we will have excellent company performance for this year.

WH/CC

WH1:S.3.55

Win

Tom Stockebrand
7 Oct 81

General Observations This Trip

- 1. Mediocrity is more acceptable. Risk taking is less OK.
- 2. In-fighting and politics is more the order of the day.
- 3. Ken is as usual sending out words and music but the latest round of new folks is (purposely?) not hearing and akting on the music, only the words.

Problems

1. Mid-Managers are not. Even tho there is love at the top and quality all around, example seems not to be enough to promulgate the message. As Art Williams put it: "We've got so many Goddamn Mgrs around that what we lack is Mgmt!"

Its the quality. In this as in everything else 10-20% are any good, but we've got to increase the precentages by some selection processes.

2. "No Charter" (Do whats right) used to be OK and helpful but now it tends toward disaster with lo-riskers.

3. Ken, sending out the word that Mgrs should pay attention to the doers (short circuiting the "overhead" of the managers in between) is being interpreted literally with the result that the necessary "good" managers are being undercut and are sometimes bullshit. Further, Kens measurement of DO is as an engineer, not as a manager sensing subtly the actions of other managers and feeding back on that higher level; even though he is a good (visceral) one himself. Mayber the reason Gordan, Clayton, Picott, Haney fail in similar ways is that they dont have guidance/role models from the top. Why don't you provide it?

Solutions

- 1. Wander around to each of your people and ask:

"What are you RESPONSIBLE for?"

If you get a good answer, say: "I'll check on your progress in X time" If you get a bad answer then: "Why should we pay you so much for that little bit?"

"Who have you fired for bad management?"

The selection process must go on and must be done locally. (I'm not sure a lot of people recognize good and bad management when they see it however.)

--But--

"Who have you loved lately?"

The key is variable response to variable situations/people.
The winners, especially, are sensitive to love. . . Art again:
"The biggest reward is a pat on the back from Ken".

"If you haven't taken a risk for us (DEC) then why should we risk raising your salary?"

This is the most important one, as far as I can see at this time. We seem to be swimming in warm milk soup, playing our fun games, relatively safe from the world while the lions and tigers our there are sharpening their claws on the woods and rocks around. . . "Well, we're a billion dollar company now and we can't take a risk because we'd lose millions".

One Liners

1. Reward Failure

2. Reward Risk

3. Don't reward anything else (the money saved in the vast middle will pay for 1) and 2) many times over).

4. Find somebody who can keep up with Gordan to do his administrative work.

5. The ratio of Quits to Fires should be much lower.

Commentary

The fighting must be stopped. How about getting all the low end people in a room and throwing away the key a la Kaufmann? Have it out and come out cooperating. The main thing is that

The world is NOT a zero sum game (as Clayton, and apparently Avery, now seem to think). Love flows forever and if you and I can get together we can cooperate against the larger adversary above. This process continuing will finally get us as far as we need to: "Its IBM, etc. . . "

It is a fact that the Mgrs around here must be TECHNICAL and HUMAN both. Its a tall order but its mandatory for us as a strong, proud, technical, winning corporation.

We need all the diversity we can find and need to find out how to nurture it all . . . The short view is winning again even while the long view takers, needed desperately, are diving underground or going up the palm trees to avoid the press.

I'll explain anything, with examples, just ask.

P.C.

WBS USERS - Enter HP mode and then type <CR>

* d i g i t a l *

TO: TED JOHNSON
cc: STAN OLSEN
OPERATIONS COMMITTEE:
DATE: MON 4 MAY 1981 12:28 EST
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50
SUBJECT: STAN'S TIMELESS MODEL

I agree that we should give Stan a chance to present his timeless model, but I think he should do it very soon because we've got to make some decisions. I think we should present it as a possible way of running a project and compare it with a more traditional way, and decide if this is the way we want to run the Company.

I believe Stan's timeless model is a formalizing of the way people expect to run projects at Digital today. It is one way of having contracts with everybody who has responsibility in the project, in this case, Word Processing.

There are several things I worry about in a system like this. First of all, it is hard to imagine that contracts would be so complete that they would cover all the details. I also worry that people will not remember the contracts as they carry out their part of the task.

Secondly, the starting of a new business and a new product involves a lot of creativity and is very much like doing a piece of art.

Doing a large piece of art often involves a team of people and the artist often gives and gets much feedback. The result is often the result of many people's work, but the artist struggles, suffers endures, tries, fails and spends long hours on his piece of art and often it's a failure. When it is a success, it is often the result of improvements after many, many failures.

Running a project with contracts, however, is a completely different way of doing it. In this case, it is assumed that all the pieces in the creation can be defined well enough to be assigned to other people, and that there is no struggle, no travail, no cutting and trying and doing again, no long hours, no wee hours in the morning, no waking up early, no coming to work in the middle of the night, but instead, the piece of art is a masterful piece of business management. It's like cutting the trees down in the forest. The supervisor can be in New York City, and just needs reports and with measurement, punishment, and reward, gets all the parts of the job done.

The alternate way, which is close to the way we used to operate, and the way most of our successful product projects have been done, is a team that works closely together. Now people may come

from other areas and maintain relationships to the other areas, but with a team, jobs are very clearly spelled out and each person succeeds or fails. The difference is they are one group. They live together, struggle, suffer, criticize and live or die as a whole. All the pain of a creative person is endured and enjoyed by every member of the team.

Another problem with the contract basis for doing creative work is that people may not have the same goals. For example, you can imagine that some day we may make a product which the product line is aiming toward the very low end with a specialized computer about the size of a CT25 or smaller. They look at Lanier as the competition.

In this same project you can imagine the hardware people, because they want broader usage of this computer, aim for a much larger computer and put a hard disk on it and grow it so that it would also be used for some of the customers who need larger computers. Their goal is to aim for the high end of WANG.

Now the software people are far away on their hill, and they really understand the problem. They are challenged to do everything for everybody and they try to compete with PRIME. In order to do all the things that everybody else does in software, they need a VAX.

To the Operations Committee, it would sound like they are all working on the same project. The Operations Committee would be convinced that people were working together because they know that people have, at times, visited each other. Visits might be the way to solicit funds for the United Way. The fact that they visited does not mean that the plans must be in agreement. To the financial people it is clear that they all have a contract. However, some day when these things have got to fit together, it is unlikely that the end product will be competitive, if it works at all.

I suspect that at business schools they never teach anything about the travail of creativity. I also suspect that an overwhelming number of people at Digital today have no idea the amount of emotion that has gone into every successful product.

Unfortunately, most of our engineering products are proposed by the engineers, such as the VAXes, and the 20 and the VT100. They formally, or informally form a team, and when they do it well, they have the positive results that come from a team.

When we consider the possibility of doing formal contract creativity throughout the company, I think we should consider it very carefully and be sure that we really know what we are talking about.

KHO:m1
K01:S4.6

Handwritten signatures and initials in the top right corner.

d i g i t a l

INTEROFFICE MEMORANDUM

TO: Julius Marcus
Andy Knowles
Stan Olsen
Jack Shields
Jack Smith

DATE: April 16, 1981
FROM: Win Hindle
DEPT: Corporate Operations
EXT: 223-2338
LOC: ML10-2/A53

cc: Operations Committee

SUBJ: Asset Performance Measurement

We are committed to an aggressive improvement in asset utilization. The Board of Directors is extremely critical of our inventory performance and we have promised significant inventory improvement in FY82.

Our direct reports need to be sure we are serious about this emphasis on assets. Therefore, I would like to be sure that you use performance around assets as one of the major measurements of your direct reports in FY81 and 82.

The first place to use these measurements is the Direct Report Salary increase and Stock Awards which we will decide at one day of the June WOODS meeting this year. Performance on the following metrics should be included:

1. Weeks of inventory
2. On-time deliveries
3. Material forecast performance
4. Order acknowledgement time

Your direct reports should understand we are putting heavy emphasis on these issues and that their future compensation will be influenced by their performance in these areas.

If you have any disagreement with this list or this emphasis at the June Salary Review, please mention it right away.

WRH/ep

bcc: Abbott Weiss
Barry Burns

Alan Hurdle

1981 OBA [unclear] O.S.

+-----+
: d i g i t a l :
+-----+

I N T E R O F F I C E M E M O

TO: Ted Johnson
CC: Operations Committee

Date: 11 March 1981
From: Ken Olsen
Dept: Administration
MS: ML10-2/A50 Ext: 2301

SUBJ: MARKETING PLANS

It seems to me that it should be possible to have a very simple, readable, understandable, and, therefore, easily checked upon, marketing plan for each of our product lines, and I think you have the staff to do this and help, encourage and educate where necessary.

It might be time to immediately develop one for our display terminals. It seems to me that we designed a terminal to fit on our own computers, and then happened upon two selling techniques to sell these, and that is all we've done. We've sold them through our own product lines; we've sold them through re-sellers who have sold them to our own customers, and when we couldn't make enough, we were very bold and thought the world was limitless. When the market filled up, it leveled off very suddenly because both channels were selling to the same customer. The marketing plan that I think a professional marketer would have in this area would list all the major applications of CRT terminals and list all of the variations which we can readily make and have a competitive advantage in, and then, line up the two and have a program to go after those areas where they do line up.

It seems to me that every product line should do this in their area. Usually the Digital tradition of marketing was just a form of one or two pet ideas and one or two pet channels. We suffer when we these slow up a little bit, and we don't have a list of places to go after it.

We have tremendous plans for making VT100's. We also have the capacity for making variations of them. All we need is a list of ideas and a plan, and we should be able to take over the whole market.

KHO/er
K01:S2.95

ATTACHMENTS

COMPANY CONFIDENTIAL

DIGITAL EQUIPMENT CORPORATION

MAYNARD, MASSACHUSETTS

KENNETH H. OLSEN
PRESIDENT

W. O. B. B.
Meeting with Ed Schein
Thursday, July 9
Operations Com.

10 March 1981

Prof. Edgar H. Schein
Massachusetts Institute of Technology
50 Memorial Drive, E52-583
Cambridge, Massachusetts 02139

Dear Ed:

We've developed this strange organization in our Company. We call it matrix management, but it does not describe what we do.

We have set up an organization where everybody has two bosses, in fact, sometimes has several. This is not uncommon; I don't think there is anything wrong with that. However, when there is a problem, he can never go to his boss and get a yes or no answer. He has to go to that large number of people who work for his boss. There is little relationship between him and his boss. The boss's staff are the ones who make all the decisions and the ones who keep people in line, keep them terrified, and who supposedly give answers.

The result, of course, is obvious. There are thousands of people who can say no, and no one who can say yes.

Last year, we hired Joe Bower from the Harvard Business School to make a year long, detailed, expensive study on how we do things in Europe. He concluded that things are pretty good, that we just have to give people more responsibility, and indeed, there were some small changes, but he never noticed the problem.

In Geneva, we have 800 people. All of them can say no. We have 18 product lines represented in Geneva working with each of the offices. Each of the product lines have many staff members. Each one supervising the product lines. Now, one would expect the staff in Geneva to do marketing, selling, market planning, et al. Instead, they are all there, it appears, to discipline, say no, correct, reprimand, and allocate resources. Why we need so many people to allocate resources, I have not the slightest idea.

10 March 1981

Most of these product line people are from the States, and they sit in Geneva, and I don't know why they don't sit in the States and do it from here. However, with this so-called matrix organization, in which people hold in awe as being the mysterious secret for our success, is something no one wants to touch because it is successful.

I'm terrified at what I see in the Company today. Things take longer and longer to do. People have been so beaten down that no one will show any initiative to do anything new. I ask people why they don't propose something, and they say, "Well, I mentioned it to a dozen people, and they all said no." I said, "Why don't you bring it up to the boss?" They say, "Well, I have to go through all of his staff, and, of course, they don't even have the time of day to spend with me, much less think about my problem, and, of course, they say no." There's apparently no relationship between people and their boss, and all the work is done by the staff.

Now, this goes on in Engineering too. With an engineering force of several thousand people, you would expect us to have at least 10-30% of them so interested in their jobs, with such burning desire to get things done, that they would be working on a Saturday. Now, it is a Saturday morning, and I'm here, after coming back from Europe, and there is no one in the Mill. The reason is obvious. There's no reason to hurry. Every project takes three or four years, and very little of that time is spent on engineering. Most of it is red tape, because there are hundreds and hundreds of people to say no, to convince, to test, to approve, and everything else. Most of them think that people are uncreative, don't have any goals, and are just put there to protect their boss so he doesn't have to get involved and make decisions. Indeed, he doesn't have to, because nothing ever comes up to him.

Of course, there is no formal definition of this organization. I asked Win and Bertocchi to look into it, and they said they can't find any communication paths or decision-making system here that could be discussed. Most of our people have worked only here, and they don't see anything wrong with the system; they think it came from heaven, and when it takes three years to do an engineering project, they figure we should just spend more money, hire more people. Meanwhile, our engineers leave, are frustrated, and projects don't get done.

10 March 1981

Our Senior Vice Presidents are very concerned about our competition with the Japanese. They see no relationship between our being able to compete with the Japanese and the red tape in their own organization, and the fact that people show no initiative to get things done quickly.

Sometimes, I think people don't want to change the organization because with this red tape, they always have excuses for failure. I'm very reluctant to ask any more professors to come and look it over because they hold our results in awe, and think there must be something wonderful in the way we do things. I'm terrified, and I'd like to ask you if you have any ideas how you might help us see a better way.

When we started the product line organization, the key tenet was that everyone lays out his own plans, and there is no staff telling him what to do. Harlan Anderson was supposedly the last staff member without responsibility but telling others who have responsibility what to do. Since then, we have developed two-thirds or three-quarters of the Company, who have no responsibility, but are free to tell other people yes and no. This number, of course, grows on itself, because the more people you have like this, the more people you need to support them, which makes more people who can say no.

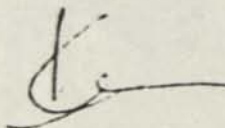
I'm sometimes so depressed, because people complain how long it takes to do things, and how much red tape there is, but they never show the slightest bit of initiative, or interest in straightening it out, or interest in finding out what the problem really is.

Sometimes, people want to form a division, because they think that would take care of all the problems. I will not do this until people show some understanding of what the problem is.

If you do have ideas as to how I can get some help in regaining the creativity, the enthusiasm, the spark which we once had in all parts of the organization, please let me know. I wouldn't mind paying the price of these extra people, if they'd only go skiing and leave the useful part of the company to do what they have to do.

With best wishes.

Sincerely yours,



KHO/er

CC: Operations Committee

O.C.

* d i g i t a l *

TO: ANDY KNOWLES
JOE MEANY
cc: OPERATIONS COMMITTEE:

DATE: FRI 27 FEB 1981 14:05 EST
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

SUBJECT: EDUCATIONAL MARKET

Sometime soon, I'd like to have you present to the Operations Committee, or a small number of us, or the Board of Directors, an analysis of the educational market.

I think there are 30,000 privately owned, money-making schools in the country. These include secretarial schools, business schools, art schools, technical schools, etc. I think you should outline for us what type of computer each of these categories should have for their programs.

For each of the public schools, there are probably different categories of computers for different applications, and I think it would be very worthwhile to chart these out.

For the large number of applications of computers in colleges and universities, it would be very useful to us to have each of the types of training, each of the applications outlined, and which computers are needed there.

This might be the outline for a brochure on education; it could even be a professional paper presented for publication somewhere.

The professional approach to marketing education would be very thorough and very complete and would not be in the usual way of marketing where we wait and see who comes in the door. Because education breaks down into readily identified categories, it might be a good model for how we should do marketing in other areas of the company.

KHO/er
K01:S2.64

THE ORIGIN AND MEANING OF MILES' LAW

Miles' Law says: "Where you stand depends on where you sit."

Maxim #2: The responsibility of every manager exceeds his authority, and if he tries to increase his authority to equal his responsibility, he is likely to diminish both.

Maxim #3: Managers at any level think they can make better decisions than either their superiors or their subordinates; most managers therefore seek maximum delegations from their superiors and make minimum delegations to their subordinates.

Maxim #4: Serving more than one master is neither important nor unusually difficult if the servant can get a prompt resolution when the masters disagree.

Maxim #5: Since managers are usually better talkers than listeners, subordinates need courage and tenacity to make their bosses hear what they do not want to hear.

Maxim #6: Being two-faced - one face for superiors and one for subordinates - is not a vice but a virtue for a program manager if he or she presents his or her two faces openly and candidly.

Maxim #7: Dissatisfaction with services tends to rise rapidly when the provider of the services becomes bureaucratically bigger, more remote, and less flexible, even if costs are somewhat lower.

Manager D.W.

O.C.

* digital *

TO: OPERATIONS COMMITTEE:

DATE: THU 5 FEB 1981 16:32 EST

CC: NORMAN BECKER

FROM: KEN OLSEN

PAT KRESS

DEPT: ADMINISTRATION

ROBERTA BERNSTEIN

EXT: 223-2301

LOC/MAIL STOP: ML10-2/A50

SUBJECT: SUMMER SCHOOL

I have asked the people working on the curriculum for our Summer School on "How to be a Product Line Manager", to interview Operations Committee members during the next 2 weeks to help define the job of the Product Line Manager and Group Vice President. It might be particularly useful to do these interviews at this time, because people are thinking about the subject and it might also help Operations Committee members to clarify their thinking.

It seems to me that there are two different jobs that the Group Vice President has to do and people like to divide the Product Line into groups according to which job they feel is most important.

I think it would be good for us to define both jobs and to consider ways to have two sets of management; one that would be strong in one area, and another that would be strong in other areas.

The aspect of the Group Vice Presidents job that most people emphasize is the need to co-ordinate markets that are somewhat alike to eliminate conflicts and to make unnecessary, communication between Product Lines by having them work for the same boss. It also seems important to some people that they be grouped in order to keep enough size to have clout with the rest of the organization.

①

The other aspect of the Product Line and Group Vice Presidents job which is less emphasized but, from my point of view is very important, is the planning, documenting, communicating, managing, organizing, market research, product definition and so forth for a half billion to two billion dollars business which takes large staffs and very professional people and much detailed work. It takes people who are skilled, patient and lucky in communicating with team members and the rest of the Company.

②

I think we should, individually, in getting ready for the discussion, make notes as to how big each Product Line can be in 2 and 5 years, so that we can estimate the size of the job in these areas. We can then plan on the type of people we need to run them. This weeks Business Week points out that a \$600,000,000 business is more than deCastro can run by himself.

Sometimes, people say we can eliminate all communication problems if we all work for one person. I could not do that when I ran a \$20,000,00 operation. I have difficulty visualizing that anyone

is so much brighter than I am that they can run a 2 billion dollar operation and have the communication problems disappear because everyone works for them.

I think we should also make a list of the people in the Company who have the potential for being successful in those jobs that require planning and communicating. We should list those who have been successful in getting projects done by others, by their skills in communicating, encouraging and motivating and by the clarity of their ideas.

It might be that the people and the organization we have had for the last few years will carry us to several times our present size, but I think we should assume that we are going to need the large number of professionally trained, experienced managers with the academic skills that you read about in books about large companies, and not just people who came from the Sales Department and learned on the job here.

K01:S2.24
Attachment

* d i g i t a l *

TO: OPERATIONS COMMITTEE:

DATE: MON 2 FEB 1981 8:48 EST
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

SUBJECT: LET'S CHECK BEFORE WE CHANGE DIGITAL

Here is a note outlining how I think Digital works. It works pretty well and we do well so the system must be fairly good.

Where it does not work, let's check in detail to find out why before we change the whole Company.

Each group has a part and it is important that each part have 100% quality or none of the plans will work.

We also ought to outline the responsibilities of the Operations Committee when the plans are not working exactly as planned. We should specify who brings these issues to the Operations Committee.

For those plans which are in trouble today, I think it would be worthwhile to go through them in detail and find out why they are not gaining full potential market share, or why they are not doing the plan they originally proposed, or why there are areas

in which the customers are not happy, or why the product level is not what it should be.

HOW DIGITAL WORKS

1. Product Lines set goals dependent on products Engineering promises. Goals are to maximize profit, or maximize market share, or develop new markets. Goals are approved by the Operations Committee.
2. Product Lines make plans to meet approved goals. Engineering, Manufacturing, Field Service, Sales and Finance are team members to carry out parts of those plans. Operations Committee approves or modifies one and five year plans to match ability of Product Line or team members.
3. When a plan does not work, one can usually assume the plan was not complete or sufficient, or the plan was not clearly communicated, or a team member did not do his part.
4. When a team member does not do his part, he (they) were incompetent, did not understand their part, or refused to do their part because;
 - a. They did not like the plan.
 - b. They never bought into the plan.
 - c. They had a better idea.
 - d. The Product Line was too small or lacked quality.
 - e. Their goals were different.
 - f. They refused to listen.

K01:S2.20

O.C.

* d i g i t a l *

TO: OPERATIONS COMMITTEE:

DATE: MON 2 FEB 1981 8:48 EST
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

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K01:S2.20

DIGITAL

INTEROFFICE MEMORANDUM

TO: Gordon Bell
Steve Coleman
Ted Johnson
Andy Knowles
Bill Long
Julius Marcus
Ken Olsen
Stan Olsen

DATE: 1/9/81 Fri 9:46:39
FROM: Win Hindle
DEPT: Corporate Operations
EXT: 223-2338
LOC: ML10-2/A53

SUBJ: Measuring the Marketers

In talking with Ken recently, I think I understood what he has been driving at when he complains that we never measure the marketers. In his view, a marketer should take responsibility for selling a given number of units of a product over its lifetime. Measurement is simply how he did against his plan on a year by year basis.

I think Ken would like to see each Product Group Manager segment responsibility by product within the Product Group (X has responsibility for VAX11/780, Y for 11/750, Z for 11/70, etc.). Each responsible person should make a plan which says how many units will be sold each year. Measurement against these goals is easy and clear.

If I am hearing Ken clearly, I believe we should strongly encourage each Product Group Manager to organize this way with a responsible person for every product.

WRH/bwf

O.C.

d i g i t a l

INTEROFFICE MEMORANDUM

TO: John Sims
DATE: 11 December 1984
FROM: Win Hindle
DEPT: Corporate Operations
EXT: 223-2338
LOC: ML10-2/A53

SUBJ: IBM

I listened to tapes today by Thomas Watson Jr. who said some interesting things about IBM:

1. The three "Beliefs" of IBM are:
 - a. Respect for the individual.
 - b. Service to customers is top priority.
 - c. They expect superior performance from every employee.
2. These beliefs are the cornerstone of the company. They come before policies and before profits.
3. There are seven levels of management between a Production Worker and the President - six levels in Sales. Though this is too many levels, they do not know how to reduce them and therefore need to communicate despite the levels.
4. Parallel paths of communication up and down the organization are essential. IBM has twelve functional newsletters. In addition, there are Executive letters from the President once a month to all employees, and an all employees telephone call from the President about twice a year on very important issues.
5. In there Branch offices, IBM has a "Family Dinner" once every two years. A company Vice-President speaks and they show a current future on the State of the Company. Spouses are included.

I found the ideas very similar to our philosophy. There were a few ideas (Executive letters, family dinners) that we should consider.

WH:dc
WH1:S4.23

O.C. *[Signature]*

! d ! i ! g ! i ! t ! a ! l !
! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !

I n t e r o f f i c e M e m o

TO: OFFICERS:
PRMGMT:

DATE: FRI 7 DEC 1984 4:03 PM EST
FROM: JOE CODISPOTI
DEPT: CORPORATE PR
EXT: 251-1031
LOC/MAIL STOP: 'CF01-1 M18'/

MESSAGE ID: 5257129830

SUBJECT: SONNY MONOSSON "TESTIMONIAL"

For those of your who could not attend the DECworld press reception, and for those of you who would like to reflect on the unprecedented action which took place there, here is a transcript of Sonny Monosson's impromptu remark at the podium before the assembled worldwide press This followed Jack Shield's talk in which he quoted from one of Sonny's newsletters.

"Fourteen months ago, when DEC was in the middle of all its problems, I said that DEC had become a second tier computer company. In the last 14 months, I have watched DEC very, very carefully. They have overcome their administrative problems. I can attest to that. Now, I get bills promptly. They have made very substantial progress in the reorganization of their company to keep up with the stupendous, rapid growth that they've had. These show - there are new people that have been brought in and its working. Most important(ly), they have made strides in technology. The superiority of its products, more important, the inovation of its products - the fact that the products are really here and can be used and sold and bought - have made them in a class by themselves. Consequently, I would humbly like to re-phrase my previous quotation to the following: DEC is the number one computer company that is only number two in size."

Sonny Monosson, December 5, 1984.

7-DEC-84 22:31:40 S 07843 MREM
MREM MESSAGE ID: 5257132166

Strategy Com -

! ! ! ! !
! d ! i ! g ! i ! t ! a ! l !
! ! ! ! !

I n t e r o f f i c e M e m o

TO: see "TO" DISTRIBUTION

DATE: MON 4 JUN 1984 3:56 PM EDT
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

MESSAGE ID: 5238585527

SUBJECT: A CORPORATE EMERGENCY

When a pilot says he is in trouble and needs some help, he is asked, would he like to "declare an emergency." He is often reluctant to do this; he will try to get by without that formal act.

When he declares an emergency, all resources are available to help him, everything in the neighborhood comes to a halt, and the highest priority in that area is to get him safely to the ground.

This is expensive, and after it is done there is a formal, legal inquiry into how it all happened. This, of course, makes people reluctant to "declare an emergency."

I am about to declare an emergency at Digital in the world of small computers. There are a number of reasons why we did a terrible job in the personal computers and why we do poorly in the small business. We have discussed some of them, but they are relatively unimportant. We built too much quality into the product, we announced them before they were done, we took orders before the products were completed, and we spent more money on advertising than we did on servicing the customer.

These problems are survivable and we have already proved this. We have a good product and the customers love them, but we are missing two things that we set about to do as initial goals and the stated goals all along the program. Management feels its job is budgets and finance, and that, miraculously, technical goals should be taken care of by someone else and management will not take part in these goals.

Corporate management spends a lot of time squeezing budgets so that on paper we make a profit, and Engineering management spends a lot of time squeezing budgets so that they can get all the projects they initiated done, even though none of those projects solve the basic Corporate needs.

We are missing two basic things that we have said many times in the several years we are going to accomplish.

We still have no plan, no techniques, and no ambition to be able to tell a small customer how he can integrate his small computers into a system for running a business, his agency, his brokerage

company, his small hospital, or his store.

We still have no plan to make a system which is so simple that anyone can understand it, anyone can sell it, anyone can install it. We do not need another wheel-around computer that has more options, more freedom, more complexity than we have ever had before in any of the computers we have ever built.

Our plans are still to insist that the customer figure out if he wants to have serial or parallel communications, synchronous or asynchronous lines, buffered or unbuffered lines, RS232, RS423, RS422, RS449, or 20 ma. loops. Then, to top it off, the customer has to decide which combination of the above he wants in funny sounding modules.

We do not know the difference between distributed processing and time sharing, but we expect the customer to figure it out and order all the parts he needs to do what he wants to do. Of course, we won't have the software to help him, but we will have a vast number of pieces which our salesmen, of course, cannot figure out how the customer should use, but with all of that stuff, the customer surely should be able to figure out something.

I am about to declare an emergency.

Most of our small business marketing groups came from the OEM world, which insists on all this freedom. To them, systemness means they have never forgotten anything the customer may possibly want in some weird set of conditions or in some state of ignorance. I do not think they could sell a product which was so simple that anybody could install it and use it.

I am about to declare an emergency which will set about to develop a naive, limited, simple minded J-11 Q-BUS smart server that would integrate distributed small processors in an organization. The same box would be a disk server when ETHERNET is necessary.

I am about ready to contract outside, a small business plan that would have naive, simple minded, limited set of computers and hardware that would allow a small number of configurations that anyone could understand, and software which is naive and efficient, but readily understood by everybody and that are hooked together with our new RS423 serial lines that are so easy to use anyone can do it, but then not allow in this system, people to use any other system for interconnect. If people want a special system, they can go somewhere else or buy it through an OEM, or through special systems.

I want to be able to say that with our system we can integrate anybody's PC, but only in a very simple minded way.

Gordon insisted on dropping the Q-BUS for small computers, because installation was so expensive as compared to a personal computer. Part of this was illusion, because our marketers then offered all the software that was standard within the industry

and never got around to integrating into a system necessary to run a business. I thought it was clear for years that we made a mistake, and that we should have, and that we should solve the office, the business, the organizational problem, but do it with a traditional computer system, but limit them severely, but not as much as we have when we limit ourselves to off-the-shelf, bubble-pack software. However, we are in worse shape today than when we started, because we have learned a lot more complexity in our Q-BUS machines. We have made it more complicated for people to use them, and we made the machines even more expensive than they used to be because we know more options and freedoms to build into them. In the personal computer area, we are still trying harder and harder to get more standard software off-the-shelf, but still not trying to accomplish what the customer wants, and not fully realizing what we are missing.

KHO:blk

K03:S10.34

Dictated but not read

"TO" DISTRIBUTION:

GEORGE CHAMBERLAIN
DON GAUBATZ
STRATEGY COMMITTEE:

PETER F CONKLIN
DOM LACAVA

BOB DALEY
OLLIE STONE

d i g i t a l

I n t e r o f f i c e M e m o

TO: STRATEGY COMMITTEE:

DATE: FRI 18 MAY 1984 11:29 AM EDT
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

MESSAGE ID: 5236862504

SUBJECT: GOAL FOR 1985 - SALES AUTOMATION

We have done well in introducing automation to the office, to the factory, and to engineering design. We have changed the jobs, changed the red tape, changed how we do things, and the results have been very good. We have removed much of the frustrations and drudgery in these jobs. People are more efficient and have time for more important things.

I would like to make the goal for 1985 to be to introduce automation into sales. Every part of the company is getting more efficient by very significant amounts and we are doing a lot more with a lot fewer people almost everywhere except Sales. The main reason, I think, is that we are interested in doing things the way we used to.

I proposed that we carefully analyze everything involved in getting an order and taking care of the customer, that we change the red tape and our techniques, and that we introduce computers and communications. We should do whatever is necessary to make the job fast, efficient, productive, satisfying and fun. If we cannot do better than L. L. Bean, Sears Roebuck, or my camping catalogue store, we should hang our heads in shame.

Salesmen, or an approved customer, should be able to order from a terminal and immediately have serial numbers of the product assigned for straightforward products. Salesmen should have a portable terminal that can be plugged into any telephone.

For orders of simple equipment, no paper should ever be produced. The order should go into the computer and stay there until shipped and the bill of lading, packing list, and invoice are produced.

Simple orders should be acknowledged easily and immediately, and status of orders that are not instantly billed, should be instantly available, accurate, with no hassle.

Our products should be so simple and such complete systems that they can be simply described in the literature so there is no need for customers to ask questions.

If we cannot describe a product so that it can be ordered from the description, let's take it off our price list in 1985.

I would encourage having several order points for each different type of product, so that one order point doesn't get too large. One of these is custom systems. I do not care how long it takes to fill those orders.

If we do not know how to do the software for this, I am sure we have OEM's who can do it for us, or we might simply buy a package that one of the big mail order houses use. I am also sure that we will have to simplify our demands for information if we want to accomplish this.

On Monday, I would like to commit to the Board of Directors that we will accomplish this in 1985.

K03:S9.92

d ! i ! g ! i ! t ! a ! l !

Copy John Smith
Strategy Com.

June Woods
History

Interoffice Memo
DATE: FRI 1 JUN 1984 4:09 PM EDT
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

TO: see "TO" DISTRIBUTION

MESSAGE ID: 5238282793

SUBJECT: CORPORATE 1985 GOALS - JUNE WOODS

I would like to take the two days we had put aside for the June WOODS to discuss our Corporate goals for 1985. The three goals I would like to discuss are:

1. Develop a simple set of standard products for all product lines in the Corporation.
2. Automate sales
3. Automate literature

I would spend the first day discussing our future products. I would like a presentation of the product needs for each market area which sometimes includes more than one product line. I would like to match that with the engineering plans to develop those products.

I would like Jack Smith to collect the data on the market needs, and Engineering's response to it, and the results of the Strecker Committee, and be prepared to present the data necessary for the first day's discussion.

I expect, in most cases, each product line needs one or all of the standard simple set of products that we will be developing. The factory application would need some of these products put in steel boxes and a laboratory might need a slightly different configuration and some ETHERNET versions will be rack-mounted without a cover. But in general, they will be the same products and definitely they will use the same software systems for all product lines.

I expect that, in addition to the standard simple set of products, the OEM group would additionally want to offer a large number of modules and probably a few more central processors. I assume that, at this meeting, we will separate out the OEM Marketing Group and those engineering groups who service them, so that we will look at the whole OEM business and the chips and board business as a separate business entity. Each of the products not on the small list of products will be evaluated from a return point of view. We will then watch the total engineering, total manufacturing, and total inventory of the OEM business and make sure that we charge less when it is justifiable

and charge more when it is necessary.

I would like Jack Smith and Jack Shields to present a plan for automatic sales. I would like the Group Marketing Managers to prepare a list of that data that they think we should ask the customer or the salesman to include when they type in an order. We can assume that the computer has the base data of every salesman and every customer who is allowed to place an order once they put their code number into the computer, it could immediately produce that individuals name, address, the name of the company, and all pertinent data for his review, and then he does not have to enter in. The question then is, "what specific data does he have to put in, in order for us to get the information we need for market reasons?"

Automating sales will be relatively easy when we have a standard set of products. The products will all use the same hardware, and all will use exactly the same software system. We will decide what compromises we have to make, so that the salesman and certain customers can order from a terminal or a Radio Shack hand-held calculator, any of our products and immediately get an acknowledgement back, even by the serial number of the product, and an exact delivery date. The salesman will also be able to make inquiries about delivery and price. The same system will also allow him to make inquiries about status of orders that do not get instant delivery.

For automatic sales, it will mean that most products will have to really be available for shipment within 24 hours. This means that we have to have a very simple set of products because the number of item types in inventory will have to be small and we will be able to inventory quantities that are necessary to give instant delivery.

In the automatic sales system it is assumed that orders that do not fit in the standard, simple product list, but that involves special configuration, will not fit in the automatic system and it will have to be done manually, and delivery will be significantly later.

I would like to define in that meeting, exactly what data we want from each order. I am sure everyone will agree that in order to collect data, we are not willing to sacrifice automatic and fast delivery, and we therefore, are going to have to, at that time, decide exactly what data we want to collect from every order. We have to assume that in order to collect that, the salesman or the customer is going to have to type that information in, and it has to be so simple that he can do it sitting at the customer's desk.

I would like Dick Berube to propose, the last half day, a system for automatic literature, and for a catalog which could serve as the only document we send out to our customers.

I would like to spend the last half day on automatic literature. The basis of the automatic literature is going to be a catalog that we will print once a month. This will be a catalog of literature. We will list by market and then list also by product

the standard sets of literature that we have for each section. There will be two categories of literature. One is a colored brochure which is expensive and glossy with little information, and a handbook which is relatively plain, but filled with information. In those areas where we have no literature, it will be very clear. There will not be a position for product lines to redo standard product literature because there will not be a place to offer this on the chart.

All literature printed from now on will have a large date on the front cover and on the heel when there is a square heel, so that everyone can tell exactly the age of that literature. This will be stated in the catalog, so customers can tell if the literature they have is out-of-date compared to the literature being offered.

This catalog probably should be magazine quality, and it should be the thickness of a magazine. This should be the vehicle, and the only vehicle, that the Company and all its product lines use to contact customers. There will be articles about the Company, news items, and ads.

We will send a copy of this to everyone who has ever been a customer and everyone of whom we can find the name that should be a customer.

Each mailing will cost about \$1 million. It will probably be the most efficient way to get our message out that we can possibly do.

KHO:blk
K03:S10.25

"TO" DISTRIBUTION:

DICK BERUBE
ROSE ANN GIORDANO
WARD MACKENZIE
STRATEGY COMMITTEE:

GEORGE CHAMBERLAIN
BOB HUGHES
JOEL SCHWARTZ
BILL STRECKER

SAM FULLER
ED KRAMER
PETER SMITH

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! ! ! ! ! ! ! ! ! !

Strategy Comm.

I n t e r o f f i c e M e m o

TO: MANAGEMENT COMM:
STRATEGY COMMITTEE:
cc: BILL HANSON

DATE: TUE 3 JUL 1984 9:38 AM EDT
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

MESSAGE ID: 5241428832

SUBJECT: STANDARD SYSTEMS

*****RESTRICTED DISTRIBUTION*****

Sometime ago we established a strategy and a plan for standard systems. I don't believe we have made any official change, and I think we should continue with the original plan.

The goal of the original plan was to have a list of standard systems which would take care of most customer's needs, and which could be ordered with a simple code.

For each of these standard systems there would be: a packing list, wiring diagram, and all the information needed to connect it, as if it were a standard, off-the-shelf product that anyone could put together. Every cable, screw, cabinet, every piece of documentation, and software would be itemized and listed, the way it is for any product you buy from Sears Roebuck that has the comment, in parenthesis, that says: (Normal tools are needed for assembly.)

The salesmen would encourage customers to buy the standard systems because delivery would be so fast, and everything would be so simple and straightforward. However, they would not be included in their budget or in their commitments.

Our plan was to have the salesmen only commit to average systems. They would commit to get so many average 780 systems, or so many average LCP-5 systems in a period of time, and that would be the commitment.

Manufacturing then is responsible, with history and with sophisticated mathematics, to have the right number of peripherals, cables, pieces of software and documentation, cabinets, screws, nuts, and washers in inventory to take care of 99.9% of any combination of standard systems that are ordered.

Standard systems would not be assembled ahead of time. Sales would not make commitments to buy standard systems, but only to buy CPU-type. Manufacturing would take the responsibility for having components available.

I believe this is the plan under which the Company is working, and any variation or any lack of commitment to this should be

formally presented to the Strategy Committee.

KHO:m1

K03:S3.22

DICTATED BUT NOT READ BY K. H. OLSEN

Strategic Plan
O.C.

MAY 25 1984

! ! ! ! ! ! ! ! ! !
! d ! i ! g ! i ! t ! a ! l !
! ! ! ! ! ! ! ! ! !

I n t e r o f f i c e M e m o

TO: Marketing Finance Staff
CC: Win Hindle
Al Crawford

DATE: 23 May 1984
FROM: BILL STEUL
DEPT: MARKETING FINANCE
EXT: 223-9719
LOC/MAIL STOP: MSO/L9

SUBJECT: Ed Schein's Thoughts

Ed Schein wrote down the attached comments in 1977. They are still still relevant to what we are trying to do to positively influence the Company's performance.

Regards,

SOME THOUGHTS AND GUIDELINES ON "SLOWING DOWN" OR
"CUTTING BACK"

1. WHY IS IT DIFFICULT TO DO?

A. Ease of Succumbing to Emotional Responses vs Rational Diagnosis

1. DENIAL of Problems... "We are basically OK"; "Let's emphasize the positive"; "Things will be OK"; "Let's wait it out".
2. SCAPE-GOATING, BLAMING OTHERS FOR PROBLEM... "They overbuilt"; "Sales isn't pushing the right products"; "You guys overordered".
3. DEPRESSION, BLAMING SELF for problem... "I blew it"; "I guess I don't really don't know how to manage"; "OK, I'll cut way back (without considering effect on other parts of company)".
4. OVERPERSONALIZING... Hero or bum complex, false bravado... "I'll do it all, I'll give up my building".
5. "IMPULSIVE" REACTIONS: "Cut out all hiring"; "No more travel"; "Everyone cut by 10 percent".

B. Difficulty of Making RATIONAL, SHARED DIAGNOSIS

1. What is the REAL, UNDERLYING PROBLEM, and how do ALL parts of the company contribute it?
2. What basic STRATEGIC GOALS can be identified to guide action?
3. How can we avoid OVERREACTION and causing new set of future problems?

1. SOME GUIDELINES FOR HOW TO DO IT

- A. Review or achieve CONSENSUS on BASIC STRATEGIC and CURRENT OPERATIONAL GOALS
- B. Spend enough time to reach CONSENSUS on RATIONAL DIAGNOSIS...WHAT IS HAPPENING AND WHY? Requires RE-EXAMINATION OF SOME BASIC ASSUMPTIONS about space, people, markets, etc.
- C. Achieve COMMITMENT to diagnosis and the need to do "something" requires high degree of mutual understanding and sharing of assumptions.
- D. Develop plan for communicating "THE PROBLEM" down in the organization so that next level or two down can develop "ownership" of the problem and commitment to do something.
- E. Develop feeling of "we share the problem" in all parts of the organization. Avoid use of "I" or "You".

- F. Develop COORDINATED plan and work toward real CONSENSUS on what EVERYONE will do.
- G. Develop ACCOUNTABILITY PLAN...Reporting back on what everyone is doing in a regular and disciplined fashion and what results are being achieved.
- H. Develop CROSS-GROUP TASK FORCES to work those parts of the problem which involve two or more groups, with task force managers who are accountable for results.
- I. RE-PLAN and MONITOR on a regular basis how the "Program" is going: High degree of self and group discipline.

Strategy Com.

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I n t e r o f f i c e M e m o

TO: PATRICK COURTIN
PETER SMITH
cc: JACK SMITH
STRATEGY COMMITTEE:

DATE: MON 30 APR 1984 4:07 PM EDT
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

MESSAGE ID: 5235033964

SUBJECT: PRODUCT LINE ENGINEERING

For a number of years, most of the product line engineering projects have not had a good history at Digital. Gordon Bell used to get quite emotional over the subject because product line products often did not have the very critical, continuous peer review that Central Engineering projects had. They sometimes suffered from not having all the details worked out, or integrated with the critical parts of the Company. Yet, the cost of introducing them was as high as a standard product, and in many cases, we lost a lot of money on them. Product Line Managers in the old Digital used to argue that, "it was their money," and they had a right to spend it any way they wanted. They felt no one had a right to review or criticize them, and they could bypass all the review processes. Andy Knowles used to argue that if he made money on VAX it was his money to spend on GIGI, even if GIGI lost money.

The engineering projects presented by the factory group to the Strategy Committee last week were, in some ways, very attractive. However, the amount of work to be done, and the amount of tooling to set-up, and documentation to manufacture them was overwhelming. Unlike Central Engineering projects, they were not under the continuous, critical, sometimes withering, review of peers within Engineering.

Somehow, we have to get our product line engineering to the point where it is reviewed regularly, and open to the parts of the Company that would be duly critical. We cannot expect anything useful to come from the Strategy Committee because they do not have the time to spend or the details to do much good in passing judgement.

My concern is not only with this group, but for all product line engineering.

KHO:blk
K03:S9.37

Strategy Conn.

I n t e r o f f i c e M e m o

d i g i t a l

TO: see "TO" DISTRIBUTION

DATE: FRI 20 APR 1984 8:43 AM EST
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

cc: ELI LIPCON
RON SMART

MESSAGE ID: 5234020034

SUBJECT: FIELD COST FOR AN INDUSTRY STANDARD PC

I feel that we can make a completely compatible, industry standard personal computer as inexpensively as anyone, without compromising our ideas on quality. "I must say I do not know what they are doing in the future in the way of integrating large parts, and so this may not be true in the future."

I believe that the strategy would be to evolve our Q-BUS machines, our PRO, our RAINBOW, our industry standard computer, our small MicroVAX computers, and our workstations into two sets of physical packaging. First, would be Q-BUS that could make a large and extensive machine, all the way to a very simple machine that would make a competitive device out of Q-BUS modules. The second would be a box that used IBM-shaped modules, and we could take full advantage of the Intel Bus. The latter would have a lot of advantages for many laboratory and shop floor uses, and would be needed for many business software packages, and many educational applications.

It is commonly believed that regardless of what we do in the way of manufacturing costs and intelligent engineering, the field costs would make it impossible for Digital to market them.

Part of the original proposal by Jim Cudmore, Ed Fredkin, and Barry Folsom was that this system would work only if we set up a completely separate organization to do the marketing and the selling. This organization would not have the large staff and headquarters in the area, in the region, in the district, and in the office. It also did not have very high priced people whose ambition was eventually to sell VAX's. Implied, of course, is that much of cost of selling low-end items is the cost of training people for selling large systems, and it is charged to the low-end.

Everyone is afraid to propose a model for this end. They feel they will always be beat-up because they do not understand the total field cost and what is involved. Yet, they have no access to this information. Will you immediately propose a model for the industry standard machine that will play third-party software? For the sake of this model, have two units. One model, which does no more and no less than the simplest IBM PC. And, a more elaborate one which will hold a MAYA tape, a large WINNI, and a single floppy. It also would have a faster central

processor, and room for significant growth. Whether or not the cathode ray tube is built into the box or not, is still up in the air.

Please do the model for two or three channels. What would the field cost be if we did sell through Computerland? What would the field cost be if we sell through our Centers? What would the field cost be if we sold them direct? For each of these models, please make your best guess as to what the IBM model is.

I think we can match any reasonable manufacturing costs. Anywhere we want to we can add features, and charge more for them, but we can do this as a marketing/engineering/sales team. However, we have to work out the model of an exactly comparable machine.

This discussion will be much more fruitful than the ones we have been having because we have started off sharing the same field data.

KHO:blk
K03:58.95

"TO" DISTRIBUTION:

JIM CUDMORE
STRATEGY COMMITTEE:

BARRY JAMES FOLSOM

JACK SHIELDS

d i g i t a l

I n t e r o f f i c e M e m o

TO: JACK SMITH
STRATEGY COMMITTEE:
cc: see "CC" DISTRIBUTION

DATE: FRI 30 MAR 1984 8:46 AM EST
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

MESSAGE ID: 5231986559

SUBJECT: NONCOMPETITIVE PRODUCTS

Everywhere I go, Digital engineers, marketers, or salespeople, beat me up because so many of our products are completely noncompetitive in speed, features, price, and size.

It is commonly agreed that we do medium well in the important base products, such as: central processors, certain LSI chips, and some of the major disk systems. However, we do not have a system which forces competitive and modern products, and all the details that make a system work. Our system seems to assume that we will always be late, always be poor, always be big, and always be expensive. We do not expect our people to ever be equal to, or better than the large number of competitors we have.

I would like to have a Strategy Committee meeting early next week, to review where we sit competitively on a number of our products, which are normally too detailed for interest by the management of the Corporation. I would like to do it early next week, for two reasons. One, I am getting tired of being beat up on the subject. Secondly, because I am scared that we will have a Micro-VAX chip in production by the first of the year and have noncompetitive products. I feel we would have noncompetitive products because the detailed pieces are many, many years old, their specifications are many years old, and some of them will not even be done. I would like to have this meeting early next week because there is a DEXPO show in Boston, attended by a large number of people who make a living by supplying the less exciting, but critical parts, to our systems. They make a living by adding to the basic parts that we do well. We have noncompetitive products because of those parts that we never planned to do well, never staffed with the best people, and always took for granted that engineering red tape would never allow us to do a good job.

I would like to review how our people feel about each of our products in these areas, compared with our competitors, so that when the Strategy Committee members go to DEXPO, they can see for themselves, how we sit. If, for some reason, we do not have the meeting before DEXPO, we could encourage Strategy Committee members to go to DEXPO, and when the presentation is made, it will be much more meaningful to them.

The items I would like to review, and for which I get beat up all the time, are:

1. How do our Q-BUS disk controllers, or small, five inch disks, and our large disks, compare with those available outside? Even though I am not asked the question, we probably should ask same question for UNIBUS disk controllers.
2. What high-capacity WINNI disks are available, and how does our offering compare, and how will our offerings in the future compare?
- 3 We committed ourselves, many years ago, to an approach to connecting onto ETHERNET with transceivers and interfaces. Meanwhile, there have been less expensive approaches.
- 4 How does our approach compare with the other approaches that are available, or will be available?
4. We have not changed the way we connect asynchronous serial lines to our computers and distribute the wires and hook to terminals for many, many, many years. Our techniques are expensive, take a lot of room and a lot of cabinet space, and cause no end of trouble at installation. Our attitude has always been, "that is the customer's problem."

I would like to review how other people do this, and what our plans are for the future.

KHO:blk
K03:S8.25

"CC" DISTRIBUTION:

PETER F CONKLIN
JESSE LIPCON

DON GAUBATZ
ART PARKER

GEORGE HITZ

O.C. *Strategy Group*

JAN 24 1984

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I N T E R O F F I C E M E M O

TO: Jim Cudmore
Barry James Folsom
Win Hindle
Jack Shields
Jack Smith

Date: 24 January 1984
From: Ken Olsen
Dept: Administration
MS: ML10-2/A50 Ext: 223-2301

CC: George Chamberlain

SUBJ: BUSINESS PROPOSAL

I was very disappointed with the formal business proposal presented last Friday in preparation to go to the Board of Director's. It was a very difficult meeting, it took a lot of time, because there was none of the data presented that one would need to make a business decision. It did not present the data that was requested, nor did it present any of the format that one would expect to be presented in any business proposal.

A proposal does not consist of a statement saying how nice it would be to have something, but rather a proposal of how to get there better and cheaper than the competition, a statement of the costs and risks in getting there, and a statement of the expected strategies and reactions of the competitors.

This procedure is done all the time in business, is quite well developed, and is often assumed to be so obvious, you don't often see the procedure outlined.

At Digital, I would like to see us improve on this traditional procedure just a little bit. I would like us to make small gambles, and small investments, with little red tape, and then big gambles, with big money, with a lot of proposing and controls.

With the CT project, we asked to have the preliminary design work done before a proposal was made. The plan was then to propose and schedule a very fast unit with little risk and little gamble, using almost no tooling, to see how it played. We were going to bend parts out of steel in our own shop, and we were going to use the F11 chip with traditional PDP11 software.

Central Engineering took over, gave a blank check, refused to make a specification, a plan, a budget, or identify risks. Without this formality, there was no control, and we even dropped the Q-bus with the traditional 11 software without a formal decision because there was no list of features to budget, schedule, and check on because the list grew and contracted every day.

With a CT, the belief was that either you were all for it, and it received the highest priority, or if you said anything against it, you were a heretic, and against the wave of the future. There was no such thing as financing, planning, scheduling, reviewing, or being businesslike.

The CT is the last project at Digital that is done that way. We still want to be able to do enough work to make a proposal without much red tape, and we want to make projects that involve little risk, and little money, with little red tape, but gambling large money, large risks, large commitments, take large amount of formality.

Before we have another meeting, I'd like to see it written down in the formal proposal, a list of specifications for the RB50, with specifications for each component, each piece of software.

Each commitment to an outside vendor, should be put on a schedule, with the dollars involved. Each commitment to buy standard components for inventory should be identified on the schedule with dollars.

By now, almost every drawing should be scheduled. If we are going to have a mechanical design out in a matter of weeks, we should, by now, list every single part that has to be formed without tooling, for every metal forming dye, for every plastic mold for each of these should have, the time of release, the dollars involved, and the debugging time schedule. If we expect a faster reaction than we have seen in previous designs, we should put a footnote explaining what they were previously, and why we expect to do significantly better this time. Every piece of software that we need, every piece of software and every piece of firmware that we need should also be scheduled with dollars, dates, testing and re-doing.

By now, we should have every printed circuit board identified, and scheduled. Their complexity, difficulty, and risks should somehow be simply identified. The time and the costs also should be footnoted to explain if we expect faster than normal delivery of these items. If we are going into production quickly, the testing for each printed circuit board should be identified.

The staffing and all the services should be scheduled for all the other Digital engineering services for manufacturing, training, publishing, literature generation, etc.

It should be clearly included in the proposal what priority is expected. It is not clear if the Rainbow proposal implied that, it, like the CT, would suddenly receive the highest priority, and all other projects would stop when there is a need by the Rainbow 50, and that the best people in the company would be drafted to work on the Rainbow 50.

ALTERNATIVES

Alternatives should be listed, and should not wait to see if the decision-makers are smart enough to think of them. They should include our recommending that our customers buy an IBM machine, or recommending that they buy certain clones.

It could mean that we simply put our name on a clone, or it could mean that we could put our keyboard and our own monitor on a clone, so that it looks very much like the rest of our equipment (we could sell the IBM PC with our keyboard and our monitor).

We could buy the IBM Peanut as an OEM, add our keyboard, and our monitor, and expand the extension bus to add the features that we think are important.

COMPETITIVE STRATEGIES

We should list what we think the competition could do, and what assumptions we are making about what they will do, in our planning.

What did IBM have in mind for the Peanut in the long run? What will their new, big machine look like? Has IBM assumed that, in addition to having a lot of third party software, they, in order to survive, and keep customers happiness there, are going to have to offer software with their name on it, that they will support, with all the support that IBM and Digital traditionally gave to software?

What assumptions have we made as to the breadth of capability that will be available in clones from Taiwan and Japan, and the U.S.? What assumptions have we made about the wholesale price of clones from Taiwan to Computerland, and Digital, and what will the street price be?

If a clone costs a certain amount for us, and Computerland can get it for exactly the same price from Taiwan, can we make any contribution in reselling it to Computerland? What do we assume that price would be? How would that price compare with the price we would charge Computerland for a Rainbow 50?

What are the plans for the future? If we make a significant investment now, we have to propose exactly how we see the future. Do we get in deeper and deeper, into a more and more competitive market, by making one more commitment?

KHO:blk

Woods
O.C.

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I n t e r o f f i c e M e m o

TO: see "TO" DISTRIBUTION
cc: see "CC" DISTRIBUTION

DATE: THU 12 JAN 1984 1:24 PM EST
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

MESSAGE ID: 5224161054

SUBJECT: INDEPENDENT BUSINESS UNITS AND GROWTH

We now have, or will have soon, the products to double our size in a very short period of time. In order to do this we probably need two or three billion dollars, which is probably way beyond feasibility. We, therefore have to decide how we are going to allocate our resources to grow in the future.

The Company has, for many years, been based on product lines as independent business units, on which we make the resource allocation decisions. It seems clear to many people that IBM has studied our way of doing things and has seized upon this technique, with their independent business units so that they, too, can give independence and measure and allocate resources according to the success of the independent business units.

Meanwhile, the product lines deteriorated somewhat at Digital and people argued over measurements, forgetting why we made the measurements in the first place. The Financial Department started averaging results, which lost much of the usefulness of measurements, and so in the last year we lost much of the usefulness of the product lines.

At next week's Strategy Committee WOODS Meeting we will make a new pass at putting together business plans which we can then evaluate for investment decisions. This time we will slice in several ways in order to obtain wisdom for business decisions. We will not review items only as product lines, but also review them as product investment. We will work over and struggle with the business models and from this gain information that will help us make investment decisions.

Please make a list of all the groups preparing the presentations for the WOODS Meeting and, in tabular form, identify what you guess their return has been in the past, and what they claim it will be in the future, and include a very simple statement of their strategy.

If a groups says they are going to make a commodity item, request engineering, cheaper manufacturing, and more efficient selling, with a lot less profit than dozens of other companies, they would probably have a tough time getting the resources to grow.

The group that can plan ways to get a significantly higher price than anyone else, with costs low enough to give unusually high

profits, and still take care of our expensive taste in product development, will have a much easier job in getting investment money.

KHO:m1
K03:S5.33

"TO" DISTRIBUTION:

AL BERTOCCHI
BRUCE RYAN

GEORGE CHAMBERLAIN

BILL HELM

"CC" DISTRIBUTION:

PIER-CARLO FALOTTI
BILL LONG
STRATEGY COMMITTEE:
JERRY WITMORE

DAVE GRAINGER
CHICK SHUE
KEN SWANTON

BOB HUGHES
PETER SMITH
HARVEY WEISS

I n t e r o f f i c e M e m o

! d ! i ! g ! i ! t ! a ! l !
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TO: JACK SMITH
cc: SAM FULLER
*WIN HINDLE
BILL STRECKER

DATE: WED 4 JAN 1984 8:39 AM EST
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

MESSAGE ID: 5223346315

SUBJECT: STRATEGY FOR 1984

Our main strategic thrust this year, should be to cut out projects and product lines which we are never going to exploit, or which will never make money for us. We should aggressively continue to work over models for each of the products and product lines, until we are sure that we can justify being in each business and can be sure which ones we can get out of.

My intuition says that we are making too many VAX's, but the nice thing about studying and redoing a model again, is that your intuition gets polished and it may come out completely different from what your intuition was before you made the model. My intuition on VAX's comes from no model work at all, and therefore I would not push my intuition until we have studied models quite carefully.

My intuition says that we are also into very many things that don't fit into product lines and that no one has any inclination to sell, and they are just things that we have read about and decided that we should be doing also, even though there is no idea of what we will do with them, if we ever got a product completed.

I feel the most important bit of technology for this year is ETHERNET. I think it can, if we exploit it, uncork most of our product lines and many of our products. In each of our product areas, a simple, elegant networking pitch would attract a lot of attention, and in the product area, a simple, elegant ETHERNET strategy would cut costs tremendously, particularly when you count the cost of installation.

I believe that VAX's and 20's should not be built with serial lines anymore, but should only include a BI interface. In an option where real ETHERNET is not needed, they can hook directly to a terminal server.

We went into the personal computer business because it was an important part of our strategy to take care of our traditional customers and our traditional business and it was an important part of Gordon's statement of overall network strategy. We still haven't networked our personal computer and there is no overall plan yet to do it. I believe we should immediately do this as a subset of our ETHERNET strategy. We probably can use our terminal

server without ETHERNET, when we want to just hook up personal computers and hook that up to ETHERNET, when we want to make a much broader net. This has the beautiful characteristic that it uses the same equipment both for a small local network, and for a large local area network.

KHO:m1
K03:S5.2

d i g i t a l

O.C. *Jan Woods*
Shelton
I n t e r o f f i c e M e m o

TO: STRATEGY COMMITTEE:

DATE: TUE 3 JAN 1984 12:21 PM EST

cc: AL CRAWFORD
RON SMART

FROM: KEN OLSEN

DEPT: ADMINISTRATION

EXT: 223-2301

LOC/MAIL STOP: ML10-2/A50

MESSAGE ID: 5223244783

SUBJECT: JANUARY WOODS

The January Strategy Committee WOODS is to be the first step in the clarification of a straightforward, practical strategy.

I want to cut out all the Engineering projects and all the Marketing projects that we cannot afford, and that will not contribute to the profit and long-term development of the Corporation. I would like to eliminate those for which we do not have, or cannot have, the skills to pursue, and those that we do not have or are not about to get, the leadership to win.

It is probably going to be hard to cut out those that we know are losers, but at least we ought to have two categories of Engineering and Marketing projects. The two categories are: those that we are going to staff, finance, manage and plan to win with, and those that we are doing for sentimental reasons or old times' sake, or because we read about them in FORTUNE magazine.

In the first week of January I would like to have the Strategy Committee make a list of characteristics which are needed to win for Engineering and Marketing projects, and which we will use to measure whether the projects we hear about in the WOODS meetings are going to be winners or not. It might be that when we cut out all the losers, our growth plan will be less than what we had originally thought. On the other hand, it may still be much bigger than what we think we can possibly do, in which case we will then have to cut out some of those projects which are winning less.

We have developed some funny, religious ideas. They are believed with a passion and a sense of morality which is inconceivable. One of these beliefs is that all the numbers in a budget have to absolutely add up. There is no need or desire that the budget be useful, mean anything, or help run the Company, or that it cut out projects or unnecessary expenses, or that we learn anything from it. The only important thing is that the numbers add up.

For this WOODS meeting, I would like our model building, our calculations, and our proposals to be there to generate wisdom and to help us decide whether projects should be continued or not; it is absolutely unimportant whether they add up correctly. I expect some people to be absolutely indignant with the immorality of putting numbers down on paper and adjusting them so that they add up, but please don't let this happen. Let's find

out the wisdom of every project, whether it is a winner or a loser, and whether it is staffed and managed to win - and for now, I don't care whether it adds up or not.

One of the characteristics that should be documented for every project, is whether the manager and the manager's manager, and maybe even the manager's, manager's manager, have a vision and enthusiasm and emotional involvement, competence, experience, and a history of success. If any project is missing these things, we probably can say that it is a loser. The success rate of an Engineering or Marketing project which has a Group Manager above it who doesn't care about it, is probably only one out of ten or one out of twenty.

KH0:m1
K03:S4.83

O.C. *Strategy Guy*

d i g i t a l

I n t e r o f f i c e M e m o

TO: AL BEROCCHI
BRUCE RYAN
STRATEGY COMMITTEE:

DATE: TUE 27 DEC 1983 12:09 PM EST
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

MESSAGE ID: 5222539386

SUBJECT: HOW TO LOSE CONTROL OF A COMPANY

A large percentage of the population seems not to be able to have their personal finances under control, and it appears that a relatively small percentage of small businesses can truly be said to be under control. It seems quite clear that financial controls are not intuitively obvious, and do not come directly to an individual from his Mother. For the most part, they have to be taught, and come about only with great discipline, systems, and organization, and have to be consistently and regularly checked upon, or they will disappear.

In spite of this commonly observed situation, it is very common for managers to measure their authority by how much money they can spend without approvals, without documentation, or without keeping records. Of course, the truly competent manager would look for as much help in these areas as possible.

As a company gets larger, the professional financial managers at the top of the company, keep striving for simplification by allowing larger and larger amounts of money to be committed by various levels of management without any controls. This seems so reasonable, and so necessary, but it is often done without any measure of the experience and capability of each of the managers who controll expenditures. It is also done without first setting up financial controls that the Corporation will impose on these managers. The controls have to be standard within the company, consistent, and sufficient, and even though people have freedom to spend money without telling anybody, the documentation and the approvals within that management group are consistent throughout the whole Corporation.

Much of my frustration with the financial controls at Digital, comes about because the financial department believes that, with title, automatically comes experience, knowledge, and ability to set up a control system equal to the size of their responsibility.

This problem compounded itself as time went on. Managers with all this authority, and without control, were more and more important in their own eyes. Without the responsibility that should have gone with their authority, they got into trouble, and they blamed other parts of the company. The Finance Department became more and more frustrated because these people did not institute controls. Central Finance had no direct

influence. The Finance Department expected me to take care of these problems, and I, of course, expected them to take care of it, and this allowed things to degenerate even worse.

It is believed by many managers in engineering, that I am the bottleneck to their creativity, because I insist on having plans, budgets, proposals, and approvals.

The Board has been asking to hear the advertising plans, but we keep saying we are not ready, and then we never have plans; we are always so late, that we have to spend these huge amounts of money on the spur of the moment without even having goals that can be explained ahead of time.

Starting January 1984, I want complete financial control of the Corporation. This should not slow down things, this should facilitate decision making, and speed up all activities, and make it much more efficient.

I want every unit of the business, no matter how small, to have a budget, a plan, a review. I want every financial commitment of significance to be approved, signed, and filed by the local hierarchy. A Vice President may be able to spend a million dollars without telling anybody, but he is not going to be able to do it without records. To spend any amount of money, the records and the proposal has to be filed, the formal reviews and the approvals have to be filed, even if it never gets beyond that Vice President, it always has to be there for anyone who wants to look at it.

No one, even a President, should approve his own proposal.

Every unit will have an approval system equal to its size, and every unit will have a record of those approvals which are pending, and at any one time, anyone in the Corporation can look at these and see whether the proposal has been completed, at what stage the proposal is sitting, and who is holding it up.

This may slow down some large commitments that are hobbies of certain people, but it ought to make very obvious those proposals from less important people that have to wait year after year because their proposals get lost in the system. This way, nothing gets lost in the system.

I also want all informal commitments documented. If we are making informal commitments for a floppy disk that can be used on the RX50, I want this formally approved by the appropriate level. I feel we have been grossly misled, if we are committing the company, at least morally, to the RX50, before the project is ever presented as a project.

I want all, space, facilities improvement, organized by groups, and documented in a way that we can easily see what our backlog, and what the most important projects are, and how they sit, and how far along they are in the approval system.

I want, at all times, an advertising plan. As with space,

advertising can be changed as times develop, but if we make up our mind at the spur of the moment, we, for sure, will not have a consistent facilities plan, or a consistent advertising plan.

In Summary

I want to no longer assume that as soon as someone is made a manager or a Vice President, that he has the education, the experience, the inclination, and the time to set up his own financial control, his own planning, and his own review system. Instead, I want the controller's function to assume that even if a manager does have all this background, he does not have the time to invent his own systems, and monitor them, and if he did have all of those, and the time, they would not be consistent enough with the rest of the Corporation.

Therefore, I want the controller's function to set up a system that will provide the controls, approvals, and reviews, for every group in the Corporation. Then we can give the local controllers the authority to carry them out, and it will be so well done that every manager will feel they are a help instead of a hinderance.

For each department, I would like to have a summary, in chart form, of all the projects that have been approved, and those that are waiting for approval. If I can glance through them and see the status of plans, I will then be confident that the manager responsible, will also be in the same position. This also means that those projects that have been waiting for approval, will be very evident, and those projects which we are slowly making commitments that have never been formally documented for approval, will be evident.

KHO:blk

K03:S4.55

O.C. *Strategy*

Interoffice Memo

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! d ! i ! g ! i ! t ! a ! l !
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TO: *WIN HINDLE

DATE: TUE 29 NOV 1983 3:29 PM EST

FROM: KEN OLSEN

DEPT: ADMINISTRATION

EXT: 223-2301

LOC/MAIL STOP: ML10-2/A50

MESSAGE ID: 5219714057

cc: ED KRAMER
JACK SHIELDS
JACK SMITH

SUBJECT: KRAMER'S NOTE ON ADMINISTRATION

Here is a note from Ed that shows what has happened to the administration of the Company; what devastates me is that it doesn't seem to bother any of you.

The Operations Committee did not decide to drop Newspapers. It was proposed by someone and we went along with his proposal. He should be held responsible for his proposal and for how we phased out of Newspapers, and how we take care of our friends.

The idea that I will now run the Newspaper business, by telling them what to do, and that I will take the responsibility for, is absolute nonsense.

We used to have every piece of the Company under someone's plan. This piece was proposed, budgeted and approved and the person was held responsible. Now it seems that anybody can run anything and not feel responsible.

As far as I can determine, Ed Kramer took Bob Schmidt off Newspapers and gave him ETHERNET, without a plan, without a budget, without approval, and without anybody being held responsible. And, with the usual answer: "Oh, Ken, you can do anything you want with it", which shows an absolute disrespect and an absolute misunderstanding of how we run Digital.

Marketing, above all, means being sure we have a complete product and figuring out wants, and getting the two together. Without plans, budgets, and responsibility, we have no one tying the products together. Even as we turned Marketing over to Ed Kramer, I am quite sure that he did not understand the key part of traditional marketing, which came first, which is to make sure that we have a product. I am afraid that he is falling into the same trap that Andy Knowles did: which was to start advertising and use gimmicks, not knowing whether we had a product or figuring out what the product would do. For example: the base marketing of the PRO was to get as many kinds of UNIX and as many kinds of options on the PRO as possible. True marketing would figure out which is the best UNIX, be sure it works, and sell one form of UNIX, but be sure it is complete, and then get that message across.

Right now no one takes responsibility for the complete marketing job, and everybody just wants to define it himself, without

proposing, budgeting or taking responsibility. If a person is free to draw a fence around what he thinks his job is, and then do this after the fact, we have all kinds of valid excuses for failure.

KHO:m1
K03:S3.74

ATTACHED: MEMO;44

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I n t e r o f f i c e M e m o

TO: KEN OLSEN
cc: JACK SHIELDS

DATE: SUN 27 NOV 1983 7:43 AM EDT
FROM: ED KRAMER
DEPT: CORPORATE MARKETING
EXT: 278-4575
LOC/MAIL STOP: UP02-4/

MESSAGE ID: 5219510085

SUBJECT: RE: NEWSPAPERS

To my knowledge, the remnants of the newspaper marketing group is being helped to find other jobs, and that we are trying to turn much of the business over to our OEM's. Patrick Courtin, and then Bob Schmitt was left with that task when we split up the old CIG Product Line. The Newspapers would continue to be called on by the local sales folks as usual, and in fact are major potential users of our Office Solutions. It's just that we (I believe it was the OC last year), decided not to focus any further marketing and engineering efforts specifically at the Graphics Arts business.

Bob Schmitt is the Marketing Manager for the "Communications Marketing Group" (approx. 25 people) that reside in MK2. Bob has been the Sales Program Manager for communications for several years, and in my opinion, is a knowledgeable and creative individual. If we tell him where we should be focusing his efforts, I'm sure he will do well. He is currently acting as a resource to the other marketing groups as well as being our Communications Mkt/Industry expert. He does not view himself as a "business", but instead as head of a group to support the field and the other marketing groups to help THEM get the business.

P.S. He also spends a lot of time working with engineering as well as the other functions to insure our communications expertise.

27-NOV-83 8:30:59 S 01601 MREM
MREM MESSAGE ID: 5219403701

Shapiro OC

d i g i t a l

I n t e r o f f i c e M e m o

TO: see "TO" DISTRIBUTION

DATE: WED 23 NOV 1983 2:17 PM EST
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

MESSAGE ID: 5219108222

SUBJECT: SAYINGS OF CHAIRMAN KEN

SAYINGS OF CHAIRMAN KEN

WHO IS TRYING TO DO IT ALL BY HIMSELF?

We insisted, for a long time, that the people in our European Headquarters document every pay review for professional people and send it to the U.S. for approval. They thought this was a serious affront to their ability and their authority; besides, the Operations Committee always approved what they requested.

What really happened was that by having it all documented and brought before us, we were confident that the reviews were done regularly, on time, systematically, and thoroughly. When this was done, we usually had complete and absolute confidence in their judgement and approved everything en masse.

The more they requested and insisted that they be able to arbitrarily, and without our review, give pay raises, the more we would worry that they were not, on a regular, consistent and systematic basis looking at the reviews or that good records and documentation were being kept.

This is the way much of the business world works. When a presentation is done well and thoroughly, a Board of Directors usually has complete confidence in it and approves the project. However, when a Board senses that it is being railroaded, and that the proposal was done based on emotion, and not thoroughly analyzed, it immediately insists on a more thorough review.

When I ask that all the requests and data from each subsidiary and each district be reported to the top of the Company, and when I request that all projects be reported and reviewed at the top, and when I request that all marketing plans and justification be reviewed at the top, that does not mean that I want to do it all, and it does not even mean that I am going to look at them all. It does mean that I want the top committees of the Company to be assured that someone on the next level below is not arbitrarily making all the decisions himself, without a systematic, detailed, documented, regular and thorough approach, using all the inputs from the experts below him.

For a poor manager, it always seems a waste of his time to report

above him. He feels he can make all these decisions efficiently, by himself, without enlisting the help of anyone above or below him. The poor manager feels the reporting is unimportant, because of his personal competence.

A very thorough manager is so competent and self-assured that he gets all the projects under him reported and reviewed nicely and easily, so that the people at the top feel complete confidence. He is invisible in this process, and he spends his full time taking care of problems and encouraging creativity and developing managers.

KHO:m1
K03:S3.63

"TO" DISTRIBUTION:

AL BEROCCHI
ED KRAMER
JACK SMITH

BILL HANSON
WARD MACKENZIE

*WIN HINDLE
JACK SHIELDS

Strategy Cons O.C.

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! d ! i ! g ! i ! t ! a ! l !
! ! ! ! !

I n t e r o f f i c e M e m o

TO: WARD MACKENZIE
cc: see "CC" DISTRIBUTION

DATE: THU 17 NOV 1983 11:22 AM EST
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

MESSAGE ID: 5218596277

SUBJECT: PRODUCT LINE ORGANIZATION

*****CONFIDENTIAL*****

Our meeting on Wednesday was good. I understand things more clearly now.

We decided that it was impossible to make major changes in anything that we are doing, including two-tier profit, or changing our basic structure.

We decided that we should collect data and make measurements to help measure the different activities. There is no such thing as credit for sales and profit made in a category of customer, but instead, the results collected for each marketing activity, so that we can measure that activity. For example, OFFICE marketing is measured for OFFICE products sold in Education. OEM is measured for the results of their marketing of OEM and Education. LDP is measured for the results of their LDP marketing in Education, and the Education group is measured for their educational marketing activities in the Education field.

The local Sales team owns the customer, not the Marketing group who has the closest title that matches the customer. For example, New York Institute of Technology is an educational organization, but they buy products from many different marketing groups in Digital. We keep one face before the customer, because we have one Sales team, who is there at all times.

Each product line, as they make out their plan for the year, will show its investment in marketing by product or application. There are probably two more categories of investment that the product lines will make; one is called Miscellaneous, which will be those activities which are not marketed by plan, but by which investments are made as they come up. The other one would be investments to help other product lines or help the Sales Department in those areas in which they have contact.

Every Marketing Group and every service will be a product line, and they will be budgeted, and the sum of these will be their budget for the total Corporation.

In addition, each District or Subsidiary will budget volume and profit, and the total of these will be equal to their budget for the total Corporation.

Later on, when they have this under control, we will also add up the budget equipment and services to be sold, and these too will be the total of the Corporation from the equipment point of view.

There will be no consistency between product lines. Sometimes it will be by product, sometimes by channel, and sometimes by customer-type, but when we add them up, they will be the total of the Corporation. ?

We will then have two independent summations of the Company Plan. They, of course, will not agree, but both pieces of data, and later a third by-product will be used to select, in each sector, what the plans are for the following quarter or year.

Each product line and sales geography should promise to make the desired Corporate profit level, but where there are temporary circumstances, or when they are starting an area or product line, little or no profit can be budgeted for that unit.

Much of the new product/new market development, and much of the future growth of the Company, will come out of the activities of the product line. We will schedule detailed reviews of the marketing plans twice a year. This will be time-consuming, and a lot of work, but because of its importance to the Corporation, we will take the time to thoroughly understand and review the Marketing activities. We will probably spread these reviews around each of the twelve months of the year.

Each product line will have a model for its part of the Corporation. We will demonstrate how we will make a good profit with the products, services, and expense levels, being proposed. Prices will be fixed by taking into account the models from each of the product lines, so that we will allow different product lines to have different models, but still be sure that we have a high enough price to make the profit.

There are a number of problems unresolved, but with what we have, we can immediately, and with all enthusiasm, go ahead with the planning, marketing, and selling, with the organization as we see it today.

Some of the questions still to be resolved are:

1. How do we rationalize the four or five groups each selling to the Small Business market, or small minicomputers?
2. How do we rationalize the selling and marketing of the high-end?

Local area networking and personal computers have to be marketed as products for each of the market areas that need them.

Things are changing in our industry very quickly, and we have to spend less time making our detailed plans and more time carrying them out and updating them.

KHO:m1
K03:S3.37

"CC" DISTRIBUTION:

HENRY ANCONA
AL CRAWFORD
BILL HANSON
BOB HUGHES
BILL LONG
JERRY PAXTON
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AL BERTOCCHI
ROSE ANN GIORDANO
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BILL KELLY
JACK MACKEEN
BOB ROCKWELL
CHICK SHUE
JACK SMITH
JIM WILLIS

ART CAMPBELL
DAVE GRAINGER
*WIN HINDLE
ED KRAMER
JOHN O'KEEFE
JOEL SCHWARTZ
RON SMART
BOB TROCCHI
JERRY WITMORE

Marketing *Strategy*
I n t e r o f f i c e M e m o

d i g i t a l

TO: *WIN HINDLE
ED KRAMER
JACK SHIELDS
JACK SMITH

DATE: TUE 8 NOV 1983 2:11 PM EST
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

MESSAGE ID: 5217678041

SUBJECT: DEFINITION OF MARKETING GOALS

There is a major question which I think we should formulate and present to the Board of Directors, and publish to the Company. It should be a definition of our marketing goals. Our tradition has often been to be just a service to everyone else and have them get all the business. Our goal has been: to give everything away, make it easy for everyone to copy and exploit our equipment; we end up selling a reasonable amount of equipment in the long run.

If this is the goal of the Company, I think we should: publish it, present it to the Directors, tell the Public, put it in our Proxy Statement, and in our Annual Report, and assume that the Company will shrink in size.

If we want to: be aggressive and go out and get part of the business world, go out and get the interconnect and communications business, go out and develop new markets and grow, I think there has to be a major change in our strategy and in our thinking. This is not easy because it has been our goal, through all of our engineering and most of our marketing, to give everything away; if we happen to make money, that is a side issue. We religiously believe that the money comes for free when we give everything away.

For example, if we want to sell ETHERNET, and be the interconnect Company we have to consider Gandolf, one of our good friends, and the PBX company as a good friend. We can't say that we will help them in every way and hope that in some mysterious way that we will make money while doing so.

The question is: "Are we going out into the market and compete with outside companies?" or, "Are we going to shrink in size, and get smaller and smaller as we offer hardware and competition with people who are more efficient because they offer less and have less commitment to technology?"

We can't have each part of the Company have different goals for the Company. This makes decisions very slow and very difficult. We can't have people say: "I won't go along with any decision the Company makes on goals because I know what is right for the Company, and I won't cooperate."

I am thinking of having a very powerful, senior professor force the questions of the Corporation and to ask, "What business are

we in?" Many professors have wanted to do this for us because they believed in the magic of the question, but I never thought it was valid until now.

KHO:m1
K03:S2.90

O.C.

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I n t e r o f f i c e M e m o

TO: *ROBERTA BERNSTEIN
JOHN SIMS

DATE: TUE 8 NOV 1983 12:11 PM EST
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

MESSAGE ID: 5217637130

SUBJECT: BUSINESS MANAGEMENT III HANDOUT

INTRODUCTION

It has been the tradition at Digital to always look for a different and unique approach to a product. It seems to me that every time we have done the same as everyone else, we have failed, and we have only had successes when we have been unique and different.

It has also been our goal to, at all times, have products which are current, highly technical, but yet simple enough for anyone to understand. Above all, our goal is not to reach so high for technology that we have gaps of time in which we did not have a current product.

Each manager obviously should have a clear, explicit strategy for those areas that he is responsible for. Each step in this strategy should be measured and reviewed regularly, and changes should be proposed and approved by appropriate managers or committees.

There is no room for sloppy management or secrecy in an organization which is so inter-dependent and which has to cooperate at so many levels.

Strategies must be reviewed and modified as competition develops, particularly with the aggressiveness of IBM. They have set about to copy many of our traditional ways of doing business, while we have lost many of them.

In those areas in which we have been most successful we have had simple open plans which were reviewed and criticized and argued by much of the Company. This interchange, struggle and travail of decision-making is what made many of our products great.

Our original strategy said that we cannot do everything, we cannot exploit every technology, and we worked hard to pick those areas which are most important to us and which would give us a unique position in the market. And, we would not follow everybody into everything. We were often publicly ridiculed because we were not doing everything that everyone felt we should do. We now have to be sure that the fear of public ridicule does not force us into trying to do everything, with the result of doing nothing well, or uniquely.

My theory of management is very simple, the boss or a committee cannot know enough to make a strategy or to make a product or to make a plan. Their job is to approve plans, integrate plans, add wisdom to the plans, and make sure they form a Corporate plan and strategy.

It seems clear to me that a supervisor or manager, or executive cannot generate the strategy or the plan for every group and every individual under him. He has to make sure that there are plans and goals, measures, checks, and enthusiasm and support, and controls for each of the pieces under him. He also has to tease, coerce, cajole, and tolerate, in order to get good proposals from his people.

It is clear that within a corporation like ours, the top management cannot understand the latest multiplexing LSI chips and how they will influence our Corporate plans, nor can they be expected to understand the influence of the latest spread sheet, software on personal computers. They can, however, be expected to be sure that there is a consistent set of well-thought-out, well-supported plans. Good proposals and good plans are the key to the success of a fast-moving, high-technology company. New products, new markets, new approaches, new techniques all have to be proposed.

The first question isn't how a decision is to be made if we had a good proposal, the first question is, "How do we get good proposals?"

We should work to make good proposals. First of all, we can't accept all proposals and all ideas, and all products and all markets. There is no natural law that says every good idea has to be accepted, anymore than a family can have an obligation to take care of every money-saving sale at Sears Roebuck or every truly great vacation trip. Money, time, energy and wisdom just aren't available to take advantage of every idea. However, it is a pretty good assumption that truly great ideas get accepted right away, and ideas that are hard to accept usually need wisdom that comes from arguing, redoing, and re-presenting.

Often, when someone says he doesn't know how the decision-making operates, he really means that he was turned down by the correct group and doesn't know how to get overruled. He should continue to fight for something that he thinks is important, but he should usually make the assumption that his presentation was not good enough. He should be sure that he considered all factors, that he did a complete analysis and that he presented the thing simply and clearly, and he should make the assumption that if it really was as great as he said, and if he really did a good job, that he would have sold his audience.

Some things are hard to sell. If one's proposal is that somebody else be made to change or take on responsibility for a major job, that is hard to sell. It is usually a lot easier to sell an idea that you propose to take all responsibility for, and that you will work and live with the results. It is asking a lot to ask the boss to take this idea and do the work to impose it on someone else and then the boss or committee takes the responsibility for the idea.

When the budget is fixed and underway and groups are working with a full load, it is difficult to talk a committee or boss into taking budget money away from one group and start a new one.

All good proposals should be written so that they can get a yes or no answer. And, if the answer is yes, it should not mean a commitment of the boss to take over the idea and take the responsibility for it and show the initiative.

Here is a list of don'ts and do's:
Don't:

1. Don't be dishonest in the slightest way. Don't mislead, don't oversell, don't avoid facts or data. Individuals will never trust you even though they will not publicly raise the issue.
2. Never say there is unanimous agreement with other groups unless it is absolutely true. Be sure to present other points of view.
3. Never intimidate the committee or the boss, and never intimidate other groups to agree to your proposals so that you have a unanimous presentation.

Do:

1. Do read the Peter§ & Waterman book, "In Search of Excellence."
2. Do make simple, straightforward proposals that require little risk until the ideas and the competence of the people are proven. It is sometimes easier, cheaper, and safer to build a model of a product rather than plan the whole product thoroughly before the model is built. Never ask for a commitment to huge numbers until each step is proven along the way.
3. Do keep original proposal and promises, and do keep documentation of changes and modifications of goals and plans.
4. Do assume that commitments over a certain value have to go to the top committee of the Corporation and those over another value have to go to the Board of Directors.

And, assume that it is not only polite, but wise to get them on board with the idea well before they are asked to make a decision.
5. Do remember that ideas that make us unique can give us a unique position more easily than ideas that say we should now do what IBM did two or three years ago.
6. Do consider all the implications of your proposal on personnel, facilities, inventory, staffing, and other projects.
7. Do remember that if we have a product idea that is too complicated for our salesmen to understand, or our customers to understand, and too complicated for us to build, hopefully that idea would not be accepted.

Above all, remember that our future is dependent on good ideas, original ideas, unique ideas, and people who think them out so that we can be successful with them.

TRAPS IN MAKING PROPOSALS

There are many individuals or groups who have often, by self-appointment, become bureaucrats who have to approve everything before it is included in a proposal. Many of these individuals or groups make up their own rules and enforce them themselves, but take no responsibility afterward. In general, they do good, and we don't want to eliminate them, but they are a frustration to people who are preparing proposals.

We owe it to those who make proposals to make a list of who these groups and individuals are and what areas they pass judgement on. In doing so, we should give each of these groups a contract to look out for the Company's interest in these specific areas.

We should then tell each proposal-maker who in this group he should send a copy of his proposal to. Then, when the proposal is being presented for decision, each of these groups should be requested to send along, to be presented with the proposal, their comments from their area of expertise and responsibility.

This would eliminate the necessity for each proposer to get approval before he makes his proposal. It would mean that the ideas of each group are formally proposed and documented and it would mean that everybody who makes suggestions would feel responsible for his suggestions because they have to be written down.

This bit of formality and proposal preparation and presentation would, I believe, speed up things and get rid of a lot of frustration and would make the sequence much clearer.

The Board of Directors, or an executive committee of the Corporation, does not have to be technically expert. They are not to be technical leaders. Their role is to ask: "How much money have we put into this project?" And, "What are we getting out of this project?" "If we put more in, what will we get in the way of shipments and profit?"

People often feel that driving a car, making budgets, and making plans are skills that they are born with and their macho image of themselves is destroyed if they ever have to admit that there is something they can learn about driving, or budgeting, or proposing. However, it is clear that the best drivers have been taught formal skills, and the best planners and proposers have had help in laying out plans and proposals in a way that they understand them and that they can make them good, and valid, and that they can be understood by those who listen to them. Therefore, individuals should feel free to get whatever help they need within and outside of the Company in making plans and proposals.

O.C.

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I n t e r o f f i c e M e m o

TO: see "TO" DISTRIBUTION

DATE: WED 2 NOV 1983 11:30 AM EST
FROM: ILENE JACOBS
DEPT: TREASURY DEPT.
EXT: 288-6464
LOC/MAIL STOP: AK01-3/B10

MESSAGE ID: 5217067321

SUBJECT: STANDARD & POOR'S RATING

Howard Goldberg, of Standard & Poor's, called me this morning to tell me that Digital's debt rating had been downgraded from AAA to AA+. They believe that this is appropriate because of the recent earnings volatility of the company, the internal problems that have been evidenced in Q1, as well as by the competitive pressures that we have experienced over the last year and a half. However, they believe the AA+ reflects the basic strengths that the company has had in the past and that are still there. He went on to say that the AAA rating, which was reconfirmed the day before our announcement on the Q1 results, had not been without qualification. They felt that our expectations (which were expressed in our two meetings) of better earnings performance and increasing market share in personal computers and office automation could offset the concerns that they had.

While they do believe that the migration of users of standalone personal computers to networked micro/mini computers will work in DEC's favor over the next few years, they feel that those years will be difficult ones for the company. Product life cycles continue to shorten, uneven earnings patterns will be experienced by the industry as a whole, and Digital has an uphill climb to position itself in the markets that we need to capture. Were it not for the strength of Digital's balance sheet, and the company's past financial performance, they would have downgraded our rating even further. The decision to downgrade was not based on our recent manufacturing or administrative problems since they feel that we will overcome those within the next two quarters.

I then asked Howard what indices would they use in making a decision to upgrade us again to a AAA. He said that they discussed that at their internal meeting yesterday and agreed that it would not be financial indicators that they would be looking for. Even if we were to return to our previous earnings performance, and even again experience a Return on Capital of 22-24% (which they feel are a requirement of any AAA company) that it would not be sufficient for an upgrading. Instead, they would be looking for Digital to gain a significant market share in office automation and in the converged micro/mini markets. The gain in substantial market position must be in other than the super/32-bit mini market, that is, they must be gains in markets outside of our traditional markets. They do not see that happening for Digital for the next 2-3 years, although they do feel that the company is positioned well, because of its networking capability, to capitalize on the convergence of the micro-mini market.

Howard then indicated that a press release would go out somewhere between 10 o'clock and 2 o'clock on November 2 and that they would appreciate us allowing them to make the announcement before any discussion outside the company took place.

"TO" DISTRIBUTION:

DICK BERUBE
JOE NAHIL

BILL HELM
OFFICERS:

PAUL MILBURY
MARK A. STEINKRAUSS

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Strategy

Interoffice Memo

O.C.

TO: see "TO" DISTRIBUTION

DATE: WED 26 OCT 1983 8:50 AM EDT
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

MESSAGE ID: 5216354725

SUBJECT: COOPERS' OFFER OF HELP

Elaborating on Coopers' offer last week to help in solving some of our problems, they suggested that we have them come in and make an audit of our personal computer business. I think we should immediately hire them, and I think we should do it before we make any commitments to Rainbow 50 in Japan. They are afraid that we are going to have catastrophic write-offs at the end of the year if we don't organize our planning now.

It appears that we have already made our commitment to building the DECmate III in Taiwan, without going to the Board of Directors or the Strategy Committee. It is probably too late to do anything about that. Besides, one can argue that it at least uses our present monitor and our present disks even though it doesn't use our tooling and manufacturing facilities in this country. Rainbow plans are to drop everything here and to use nothing from today's investments. Before this decision is sneaked into, I think we should definitely have our orders make a review of its implications.

I also would like to contract with Coopers to educate our engineers and marketing and management people about pricing.

I was told by a senior engineer that he was beat up so much on transfer costs that he is convinced that it is the only thing that counts and that is why he would like to have the Rainbow 50 made in Japan. No one ever points out all the other costs so he is sure that it is the only one that counts at Digital; that is the only goal that he will work for.

We also seem to believe in some magic formula that the sales price is a multiple of manufacturing costs. This is not true and in our world of manufacturing goods there is a wide range of mark-ups depending on how much other costs are applied to the products.

I would also like Coopers to audit our marketing from a mechanical point of view. I would like them to report to us whether or not we supply our direct sellers, our business centers, our dealers, and our OEMs with the product, the literature, and the services that one would normally expect from a manufacturer. What are the major gaps in our marketing services? There is no way I can get this done with in-house groups and I think it would be good to have a cold, objective,

outside group make this review.

KHO:m1

KO3:S2.17

DICTATED: MONDAY: 24 OCTOBER 1983

"TO" DISTRIBUTION:

AL BEROCCHI
ED KRAMER

GEORGE CHAMBERLAIN
JACK SHIELDS

*WIN HINDLE
JACK SMITH

WMA
Personnel

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I n t e r o f f i c e M e m o

TO: MANAGEMENT COMM:
MKTG/SLS STRAT COM:
OFFICERS:
PRODUCT STRAT COMM:

DATE: TUE 18 OCT 1983 4:48 PM EDT
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

MESSAGE ID: 5215541278

SUBJECT: PRELIMINARY FIRST QUARTER RESULTS

Today, Digital announced that preliminary operating results for the first fiscal quarter indicate sales and earnings will be substantially below expectations. Because of the variance with our expected earnings, a public announcement was necessary. Final results are scheduled for release on Tuesday, Oct. 25.

The public release explained that, "A shortfall in revenues resulted from lower-than-planned personal computer shipments and the non-availability of certain new products. The shortfall in revenue is likely to result in reported earnings per share in the range of 25 cents to 35 cents as compared to \$1.02 as reported last year in the first quarter."

I want to assure you that I am confident about Digital's long-term success. As you know, we have great products--as seen this summer at the Sales Symposium. We also have magnificent products planned in the near future, and have just announced the first MicroVAX product today along with the VAX-11/725, an inexpensive, multi-user office system. These are the start of a line of new computers that lead us into an exciting future. We are confident these products will be accepted enthusiastically by our customers and that we are well on our way to our usual profit levels.

I am pleased and enthused about Digital's product strategy, which ranges from chips to VAXclusters. We have the networking capability to connect these products and the technology to make the best semiconductor and storage products in the industry.

We are confident in the future of the company.

* * * * *

Please convey this message to your employees.

KHO:blk
KO3:S2.7

WPS USERS - Leave HP mode and type <CR>

10/18/83 *Abbott* *X*

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I n t e r o f f i c e M e m o

TO: ALL CORP OFFICERS:

DATE: TUE 18 OCT 1983 1:49 PM EDT
FROM: CORP INFO DIST SYS
DEPT:
EXT:
LOC/MAIL STOP: /

MESSAGE ID: 5215541156

SUBJECT: THIS MSG IS FROM MARK STEINKRAUSS

FOR FURTHER INFORMATION:
MARK A. STEINKRAUSS
(617) 493-7182

DIGITAL EQUIPMENT CORPORATION
ANTICIPATES LOWER
FIRST QUARTER RESULTS

MAYNARD, MASS. - OCTOBER 18, 1983 -- DIGITAL EQUIPMENT CORPORATION (NYSE:DEC) SAID TODAY THAT PRELIMINARY OPERATING RESULTS FOR ITS FIRST FISCAL QUARTER ENDED OCTOBER 1, 1983, INDICATE THAT SALES AND EARNINGS WILL BE SUBSTANTIALLY BELOW CURRENT FINANCIAL COMMUNITY FORECASTS.

THE FINAL RESULTS ARE SCHEDULED FOR RELEASE TUESDAY, OCTOBER 25, 1983. DIGITAL DOES NOT PROVIDE SALES AND EARNINGS FORECASTS.

WHILE THE COMPANY WOULD NOT COMMENT IN DETAIL ON THE UNOFFICIAL RESULTS, A SPOKESMAN SAID THAT A SHORTFALL IN REVENUES RESULTED FROM LOWER-THAN-PLANNED PERSONAL COMPUTER SHIPMENTS AND THE NONAVAILABILITY OF CERTAIN NEW PRODUCTS. THE SHORTFALL IN REVENUES IS LIKELY TO RESULT IN REPORTED EARNINGS PER SHARE IN THE RANGE OF DLRS 0.25 TO DLRS 0.35 AS COMPARED WITH DLRS 1.02 REPORTED IN THE FIRST QUARTER A YEAR AGO.

#

18-OCT-83 16:05:56 S 05795 MLCG
MLCG MESSAGE ID: 5215542213

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O.C.

I n t e r o f f i c e M e m o

TO: *WIN HINDLE
ED KRAMER
JACK SHIELDS
JACK SMITH

DATE: FRI 7 OCT 1983 2:26 PM EDT
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

MESSAGE ID: 5214423857

SUBJECT: TRADITIONAL DIGITAL VALUES

At an Engineering Woods Meeting, yesterday, it came out, in an offhand way, and with an attitude of resignation, that we have given up our traditional attitudes in Sales. The traditional attitudes are: taking care of the customer first, and always taking on the obligation of supporting what we have promised and what we have delivered.

It was suggested that now that we have put measurements first, and values second in the Sales Department, we have to take this environment into account in our Engineering planning.

We were also criticized for investing so much effort and concern and creativity in time and money in taking care of our old PDP-10/20 customers, when there was too little money in it for us. I don't know if they have caught the spirit of the new Digital, putting the money first, or, if they were teasing us about our new values.

One thing is clear; changing the values at Digital was not one of our goals in the new Digital. We have to do everything to get back to our old values and still make our numbers.

When you are at the DECATHLON Meeting in Europe, please, in your speeches, and in all your contacts, emphasize the fact that we have not changed our values.

Also, in preparation, will you contact those senior people going to the meeting, particularly the Product Line Managers, and make sure that they, too, believe we have not given up our traditional values? Be sure to communicate that we will not tolerate areas in the Sales organization that will not support the Corporation because they feel they are not measured by particular areas. Furthermore, that we will not tolerate people who will not stand by the obvious obligations we take on.

Above all, we are one Corporation, and everyone works for the Corporation. We have certain traditions and values that we are not going to give up, regardless of the pressures our measurements put upon us. If, with our changes, we just develop new bad habits in other areas, we have to set about to change them quickly, without reorganizing the whole Company.

In our Commercial, Engineering, and Marketing areas, we have not

had a tradition or a significant length of experience of supporting products and not abandoning products and software. We don't have the tradition of being open to our customers and our resellers. Please assure the Sales people that this is not part of the new Digital, but rather that we have not yet developed the old attitudes and values and traditions in these newer groups.

KHO:m1

KO3:S1.48

✓✓ Strategy Conn.

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I n t e r o f f i c e M e m o

TO: ED KRAMER
KEN OLSEN
JACK SHIELDS
JACK SMITH

DATE: WED 28 SEP 1983 10:20 AM EDT
FROM: WIN HINDLE
DEPT: CORPORATE OPERATIONS
EXT: 223-2338
LOC/MAIL STOP: ML10-2/A53

MESSAGE ID: 5213505963

SUBJECT: ORGANIZATION PACKAGE

For your convenience, the entire package is enclosed.

SUBJECT: NOTES FROM WOODS - SEPTEMBER 22-23, 1983

Notes from WOODS - September 22-23, 1983
Attended by Win Hindle, Ed Kramer, Jack Shields, Jack Smith.

1. Inputs from Ed Schein:

A. DEC Culture - his view

- 1. Individual is the source of ideas.
- 2. Buy-in, ideas must be sold and survive debate "Truth through Conflict", talk it out.
- 3. We are a family and take care of each other.
- 4. Keep things simple and clear (Ed commented we do not succeed on this one, though it remains a goal).
- 5. Authority (rank) has no intrinsic value.

B. New Environment and Growth Have Resulted in:

- 1. Complexity
- 2. Large size
- 3. Competition
- 4. New people who don't know the culture.

C. Needs:

- 1. More structure
- 2. Quicker decisions
- 3. Discipline and coordination.

2. Order Processing/Delivery System:

A. What's Changed?

- 1. Customer assistance resources/responsibility transferred to field - NOT up to speed yet.
- 2. Resolution point for customers was Product Line

Manager, now it is Area Manager.

3. Point of Manufacture (POM) process not working well.
4. Old order and delivery process assumed process would not work, new process assumes process will work.

B. Resolution:

As the highest priority, Jack Smith and Jack Shields, along with their senior managers (Kalagher, Grainger, Hanson, Melia), will meet to understand personally the fixes we have for our current severe problems. Jack and Jack will assure themselves that we have the programs in place to achieve customer satisfaction as rapidly as is humanly possible.

3. Workstation Group:

(Please see Attachment A - sent under separate cover via EMS).

4. Financial Results for Q1:

Because the exact NOR is still in question, we will meet at 9 a.m. on Monday before the Board Meeting to agree on our Party Line.

5. Changes in Organization:

(See chart prepared for Board of Directors Presentation - being sent under separate cover).

6. Organization Plan for Digital:

(See EMS sent Friday, September 23, 1983 - entitled "Organization Plan for Digital").

7. Problems We Agree We Have to Solve:

A. Customer Satisfaction Problems

1. Delivery lead times inaccurate and in some cases too long.
2. Delivery status reporting to customers poor.
3. Accuracy of delivery dates poor.
4. Need for Management Report on Performance.

B. Reporting of results - Not done so far in Q1

1. By market group
2. By product.

C. Market Group Managers Feel Powerless

1. Our belief is that the Organization Plan for Digital that we are proposing will solve this.

WH:dc

SUBJECT: WORKSTATION GROUP/ATTACHMENT A

***** RESTRICTED DISTRIBUTION *****

At our WOODS meeting, Ed, Jack, Jack, and I agreed there should be a Workstation Group, and we recommend the group report to you, as a second choice, it could report to Jack Smith. The group should include marketing and engineering but it does not have to be called a division. The group should have business responsibilities for all workstations in order to get focus on this key area. The group manager will have to be sensitive to the workstation needs of the other market groups and work very closely with them.

Because workstations are a generic product, they should eventually (2-3 years) be marketed by all the groups. Therefore, the group manager should have as part of his plan to phase the marketing over to the market groups at a specific point in time.

Jerry Butler is everyone's candidate to do this job. We do not want to impose our ideas on Jerry. Therefore, you (or one of us if you prefer) should ask Jerry to make a proposal very soon on starting Workstations Group. Our opinion is that if we ask Jerry to take on only engineering, he will not want the job. Therefore, we should ask him to propose a group that includes marketing.

WH:dc
WH1:1S5.23

SUBJECT: CHART FROM BOARD PRESENTATION

CHANGES IN ORGANIZATION

1. MOVED OPERATIONS TO FIELD
 - REVENUE BUDGETS
 - SALES DEPLOYMENT
 - PRODUCT FORECAST TO MANUFACTURING
 - ORDER PROCESSING
 - CUSTOMER ASSISTANCE

- TECHNICAL SUPPORT

2. ORGANIZED SALES FORCE BY ACCOUNT AND APPLICATION

3. CREATED INSTALLED BASE MARKETING ORGANIZATION

- ADD-ONS AND UPGRADES

4. REFORMED SEVERAL MARKET GROUPS

- BUSINESS AND OFFICE SYSTEMS

- PERSONAL COMPUTERS

- ENGINEERING/MANUFACTURING

- NOW CONSIDERING WORKSTATIONS GROUP

SUBJECT: ORGANIZATION PLAN FOR DIGITAL

This EMS is from Win Hindle, Ed Kramer, Jack Shields and Jack Smith. For discussion.

Organization Plan for Digital

1. Base Product Development Plans

- Proposed by Engineering.

- Reviewed and Approved by Steering Committees that have members from Market Groups, Field, and Senior Engineering Consultants.

2. Product Schedule Reviews

- Held in each engineering group.

- Slippages reported.

- Major programs (i.e. VENUS) regularly reviewed by Senior Manager from outside Engineering plus a small group of Senior Consulting Engineers.

3. Business Plans for six Market Groups

- Includes products, both base products and directly developed products.
- Proposed to and approved by Strategy Committee.

4. Geography/Country/Plan/2-Year Budget

- Includes NOR by six Market Groups.
- One copy of original proposal sent to Strategy Committee.
- Reviewed by a "New" Committee made up of six Market Group Managers and five Field Managers.
- Final Budget Approved by Management Committee.

5. Geography/Country Reports

- Bookings and NOR monthly by six Marketing Groups.
- Bookings/data on products.

6. Geography/Country Forecasts Product Requirements to Manufacturing. Manufacturing commits to product availability schedule.

WH:dc

O.C. *Ken Olsen* ~~Member of VODAS~~

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I n t e r o f f i c e M e m o

TO: *WIN HINDLE
ED KRAMER
JACK SHIELDS
JACK SMITH

DATE: TUE 27 SEP 1983 9:45 AM EDT
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

MESSAGE ID: 5213403318

SUBJECT: STATUS OF MARKETING PLANS - 19 APRIL MEMO

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I n t e r o f f i c e M e m o

TO: CLIFF CLARKE
cc: see "CC" DISTRIBUTION

DATE: TUE 19 APR 1983 10:40 AM EST
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

MESSAGE ID: 5197337000

SUBJECT: STATUS OF MARKETING PLANS

We have lost an important part of the ideas we had when we originally started the new Digital. Product lines were to lay out plans and were to keep track of how these plans were being worked out in sales, manufacturing, and engineering. We have gone so far that some people think nothing is tied together and everybody does their own thing with no integrated plan.

It is of utmost importance that the product lines lay out a plan, that they keep track as to how these plans are going, and that they solve or raise problems that are occurring.

The fact that we do not collect vast amounts of data and give it to the product lines does not mean that they are not to keep track of the status of their plans. In fact, one of the reasons for not collecting vast amounts of data is to be sure that they find out what is really going on and not wait for the long delay for data to be collected, and then to be dependent on the data which is usually not very valid.

Our whole system falls apart if the product lines do not have plans and if they are not in a position to find out how things are working at all times.

I would like to see us at every meeting or every other meeting of the Marketing/Sales Strategy Committee, a report from each of the marketing groups as to the status of their plans in sales, engineering, and manufacturing. I would like to see us start

this at the meeting which has been re-scheduled for April 25th. This should be done on short notice and will be very informal, but will be a start on getting this discussion and reporting going.

KHO:ep
K02:S7.66

O.C. *[Handwritten signature]*

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I N T E R O F F I C E M E M O

TO: Charlie
Tom
Dick
Harry

Date: 21 September 1983
From: Sammy
Dept:
MS: Ext:

CC: Billy

SUBJ: ORGANIZATION CHANGES AND THE NEW DIGITAL

*****CONFIDENTIAL*****

The goals for a new Digital were to do what we did in Europe, in the states, to the product lines and Sales groups. They would again have their chance to plan and propose their segment of responsibility that would not be edited or edicted by the bureauracy. And, we would simplify things so that they could understand, exactly, their responsibilities.

We have so often lost track of what we are doing, and we are doing the same thing while going on to the next step, which we call forming divisions.

We seem to have a backlog of emotional and personal hangups with people or things that have happened in the past and we insist on making gross changes way beyond what we understand and can tolerate, when our goals for the new Digital are relatively simple.

Our goals for forming divisions are very simple and we not only make them impossible to obtain when we add changes that are gross in nature and irrelevant to the subject, but we confuse ourselves and everyone else involved.

The big features of the new Digital turned out to be de-specialization of the field, completely redoing the centers of budget and profit responsibility, completely redoing our reporting system, and running headlong into all other changes that we could possibly think of, and completely forgetting our goal, which was to give product lines the feeling of responsibility.

As we ran ahead headlong, we rejected many of the things over the past twenty-six years. Instead of assuming that we evolved into many concepts and ideas that were wise because they were learned through experience, we rejected them wholesale, simply because we didn't understand them.

We are running headlong to further reject the things we have learned in the past twenty-six years, in the name of divisionalization. It has nothing to do with divisionalization. It is just that we want to

reject the subject at hand and the reason for why the meetings are called, and no matter what the meeting is called for, we use it as an excuse to make more changes.

We had learned how to have OEMs trust us. Very few companies have done this; in fact, it is almost unique in the industry. The OEM naturally distrusts the people who are competing with him. One of the things that has devastated massive parts of the Company is that this was so thoroughly understood, even by people like Stan, Jake, and Andy, and now there is no sensitivity to it at all. If we don't understand it, it can't be true.

We may never recover from the changes we made and the history that we rejected in the name of the new Digital, but that were really made in the name of ignorance and arrogance and we disposed of that whole infrastructure that used to take care of the customer. And sadly and inexplicably we have gone many steps backward away from the goals of the new Digital.

Most of this was done with the claim that it would relieve Ken Olsen from much work mediating between group. If it was all done in one group, Ken Olsen would not have to get involved. This too does not bear with history. If two groups have a problem I can normally have it worked out by my secretary. What I have to do myself is relatively easy. The thing which frustrates me and that wakes me up at four every morning, is when it is all under one person I have no access to it and the only answer to a problem is to fire him and start over again. Putting everything under one person is not one of the lessons we learned from history.

Another lesson we learned from history was that you had to talk over subjects for long periods of time, particularly subjects that involved changes, because it takes a long time for people to understand. This can be proven by the fact that it takes a Strategy Committee a long time to understand what we are talking about. Now the Strategy Committee wants to impose changes instantly, and without discussion. I think the foolishness of this is obvious because the changes they want to impose bear no relationship to the subject under consideration, and without regard to the lessons learned from history. This will soon be taken care of because there is no one around who remembers our history anyway.

SEP 12 1963

X W.A.

To: Ken Olsen

Win Hindle

Jack Shields

Jack Smith

Geo. Chamberlain

Al Mullin

Bill Helm

I thought this might be of interest to you.

Al Bertocchi

A. M. BERTOCCHI

'SEP 8 1983

Lehman Brothers Kuhn Loeb
Incorporated

55 Water Street
New York, N. Y. 10041

September 7, 1983

Mr. Alfred M. Bertocchi
Vice President, Finance &
Administration
Digital Equipment Corporation
146 Main Street
Maynard, MA 01754

Dear Al,

As follow-up to our recent conversation, we have studied the recent decline in Digital Equipment Corporation's stock price and have compared this decline to the behavior of various stock indices and stock prices of selected computer equipment manufacturers. As indicated in Table I, from 2/15/83 to 8/15/83 Digital's stock price fell 23%, while the Dow Jones Industrial Average rose 9%, the S&P 400 increased 11% and an index of selected computer equipment manufacturers fell 2%. Over this same period, the Moody's AAA Bond Yield increased a modest 34 basis points from 11.64% to 11.98% and the prime rate held steady at 11.00%.

The decline in Digital's stock price since February has been attributed largely to the fact that earnings and order levels were not up to earlier expectations. Whereas we do not mean to infer comparability in the following situations to Digital, it is interesting to note that Apple Computer, Prime Computer and Texas Instruments fell 24%, 48% and 36%, respectively (although each decline was associated with a specific business reason). It is also interesting to note that Digital's stock price declined significantly during the six months immediately following the Company's public offerings in 1970 and 1977 which did not prevent successful offerings in 1972 and 1980, respectively.

Historically, the market's perception has been that Digital has chosen to finance in anticipation of a period of strong growth (therefore a period requiring additional capital). Such growth has, in the past, in fact, occurred with a resultant increase in the stock price. In the current case, however, a decision to finance in February would not, as it has turned out, have been followed by a period of growth in the near term (six months). Thus, it is possible that some

P.S. D.G. STOCK INCREASED 32% ALBET FROM A LOW POINT
WANG DECLINED 5%
IBM INCREASED 22%
and.

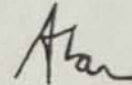
institutional investors might have felt misled because they may have assumed that a financing decision in February was a signal by the Company of an anticipated pickup in operations. The result might have been that in future financings the anticipation of growth, which Digital offerings have typically triggered, might not be present in the perception of certain investors.

Nevertheless, we do not believe the nature of the recent decline is such that had Digital done an offering in February, it would have had a measurable negative impact on Digital's ability to finance in 1984 or 1985 as earnings growth resumes.

Please give us a call if you have any questions.

Best regards.

Sincerely yours,



Alan R. Batkin

ARB/ddt
Enclosures

O.C.

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I n t e r o f f i c e M e m o

TO: *WIN HINDLE
ED KRAMER
JACK SHIELDS
JACK SMITH

DATE: MON 1 AUG 1983 12:06 PM EDT
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

MESSAGE ID: 5207706813

SUBJECT: COMPANY PHILOSOPHY

E X T R A C O N F I D E N T I A L

There are several bits of company philosophy I would like to have worked out before the August Sales meeting, and I would like to make a clear statement of our philosophy.

Will you get answers to the following questions before the next Strategy Committee meeting? I would like to go over the answers to make sure that what is going on in reality matches what we really want to happen.

- 1) Are we, by formal policy or by attitude, freezing out resellers by giving them poor service and by competing with them with lower prices and faster delivery?

Have we lost the morality we used to have when Ted Johnson ran sales where we were exceedingly careful to protect an OEM or a reseller that we made a commitment to.

Are our quotas are more important than moral commitments we have made to resellers?

- 2) Is our policy, not to mention to the sales people things that are yet to be made ready for sales, an excuse to have engineering projects go on forever without committed dates that would make us competitive?

- 3) What facelifts, new features, new exciting applications, or new exciting technology have we introduced into our three personal computers in the last seven months, or the last fifteen months since we announced them?

Are we continuing our policy of neglecting a product as soon as it is in production to make production easier, and wait a few years until we have a new one to replace it?

- 4) Is our engineering philosophy and engineering program viable to keep us in the commercial business or should we plan to phase out of the business now?

- 5) Can we, with a clear conscience, say that we are leaders in interconnecting computers?

Do we have a list of products that we can tell our customers they can apply to small computers, medium size computers and large computers, and can we tell them we have a commitment to deliver in the next six months?

- 6) Are we, in this area, more interested in dabbling in every bit of technology but little interest in satisfying product needs?
- 7) Are we dilettantes in the area of commercial software and hardware? We can brag about all the wonderful things we have done, all the wonderful things we will do but can we assure our sales people that we will have a product.
- 8) We have contracts with the major educational institutions and we have a contract with Trilogy. What technology can we tell our sales people we have to offer today which is new or even current, and what can we say we will have in the next six months.

Is our investment in new technology, and in high technology organizations for academic satisfaction, or do we really expect to have products, and if so, when and what, and is there a commitment, or are these experiences going to just separate us more and more from products.

KHO:ep

K02:S10.76

O.C.

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I n t e r o f f i c e M e m o

TO: ED SCHEIN

DATE: WED 4 MAY 1983 3:36 PM DST

cc: AL BERTOCCHI
GEORGE CHAMBERLAIN

FROM: KEN OLSEN

DEPT: ADMINISTRATION

EXT: 223-2301

LOC/MAIL STOP: ML10-2/A50

*BCC: ✓ Wain Huddle
Jack Smith*

MESSAGE ID: 5198863088

SUBJECT: MANAGEMENT THEORY STUDY

*****SENSITIVE AND CONFIDENTIAL*****

I have asked you to visit with the product lines and see what has been bothering them. Now, I think it would be more important to visit with George Chamberlain and Al Bertocchi to see if you can find out what their theory of management is.

For years I have had the feeling that they have considered me and the rest of the technical people in the Company as unwashed, uneducated, and unappreciative of the fine art of finance. As a result, they have never been sensitive to, or listened to, or understood, or believed in our theories of letting people propose their goals and then hold them to it.

They seem to believe, and hold to an independent course of bringing all questions to the top and let the top make decisions because it is faster, easier, more efficient. Often the preparation of the questions is very shallow and wise decisions cannot be made.

I have been trying to maintain the tradition we have had since we were a 14 million dollar company, of having people who know how to do the work take part in setting the goals. When the key part of the operation doesn't believe in this philosophy and is off marching to a different drummer, it is a losing fight. We now have a frustrating situation where the administrative and financial people are trying to run an efficient, fast, decision-making operation by raising ill-defined, ill-prepared questions for immediate, fast, efficient answers. The people who have the knowledge are frustrated because they are not taking part in the decision and the decisions are made without the necessary information, or without the motivation that comes from participation by the people who are to carry out the plans.

When we were a fourteen million dollar company we were too big for me to run things in an autocratic way. I would like you to sit down with George and Al and try to find out how they think we

should run a six billion dollar company.

I often feel that they raise these ill-defined, ill-prepared questions to test me and the Operations Committee to see if we are brave and competent enough to make these decisions one at a time, without due preparation, without due information, and without a summary of how all these multitude of decisions fit together, and without a feeling of the consequences of making them one at a time, and without anyone responsible to make sure they all fit together.

The change we have largely accomplished in Europe has been to let individual groups take part in their own goals and then be responsible for them. I am not sure that Al and George have understood what we did there and have understood how it should apply in this country.

For many years I have been frustrated with the Accounting system. It has not been designed to help the individual managers make decisions. I think this is because the Finance Department feels that accounting is done for the top men and the top committee to make grand decisions. I am, of course, completely of the other mind, and believe the accounting is there to motivate and help the individual managers run their operation.

As you know, I have a theory that if managers run things well and all questions are prepared and formulated well, there are no serious questions to be answered from the top. The only time there are hard questions is when someone falls down on the job. Most of those questions are hard only if the preparation is poor. For a six billion dollar company, a small staff at Headquarters cannot know enough to formulate those questions in a useful way.

Because the finance people always look at the rest of us as though we are uneducated, I don't feel I get very far in discussing these matters with them. They just know I am a heathen and tolerate me. If you sit down with them for awhile, you may come away with a coherent understanding of what their theory is and share that information with me.

KHO:m1
K02:58.26

! ! ! ! ! ! ! !
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I n t e r o f f i c e M e m o

TO: OPERATIONS COMMITTEE:

DATE: MON 11 APR 1983 1:44 PM EST
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

MESSAGE ID: 5196523892

SUBJECT: THE NEW DIGITAL

When we formed the new Digital, we had a number of goals that were very critical. We wanted to cut out unnecessary jobs, unnecessary policing, unnecessary data collection and unnecessary metrics.

When we instituted this we added a few other things which seemed good ideas at the time but were not critical to the original theory, like de-specialization in the field, removing the customer from the product lines and having the field make all discount agreements, and I am sure, more things.

Many of these peripheral decisions have devastated the marketing people and some people have concluded that they are not wanted or important. It has been almost a year since we made the decision and I would like to spend the June Woods, maybe far away and maybe for 3 days, reviewing all the peripheral decisions and planning how we can integrate marketing and selling.

We might have groups of people, or committees, work on this question before the Woods meeting so that we have a good idea of what we want to accomplish.



KHO:S7.35

Strategy Com.

! ! ! ! ! ! ! !
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I n t e r o f f i c e M e m o

TO: ED KRAMER

DATE: TUE 5 APR 1983 3:16 PM EST

cc: OPERATIONS COMMITTEE:

FROM: KEN OLSEN

DEPT: ADMINISTRATION

EXT: 223-2301

LOC/MAIL STOP: ML10-2/A50

MESSAGE ID: 5195914203

SUBJECT: P&L RESPONSIBILITY, ETC.

*****CONFIDENTIAL*****

SUBJECT: P&L RESPONSIBILITY, ENTREPRENEURSHIP, MANAGEMENT,
LEADERSHIP, AND GROUP VICE PRESIDENTS

I enjoyed listening to your ideas for your group of product lines. I think you have caught the sense of the new Digital and I think you are planning to show the leadership needed. In the past we have been confused as to what some of the words mean. Management is not a goal, it is almost something we should take for granted in the senior management of the Company. It is what keeps the mechanisms going normally and the red tape smooth and keeps the place going.

A group vice president should contribute leadership; like a military leader, he has to know what the goals are, what the resources are, and the strategy to use to accomplish the goals.

Management is done by the clerks of the army. The leader has to know what the goals are and keep them in mind all the time. In our case, the group vice president and the product line manager should eat, sleep, dream, and have visions of products and applications and customers and how we get them together. All the management tasks are chores he has to take care of but they are not the job he is hired to do.

We sometimes talk about entrepreneurship and P&L responsibility. Entrepreneurship is hard to find even in the world of risk capital today. An entrepreneur gambles everything on the success of his idea. He is emotionally involved, almost to a morbid degree, in his product, his marketing, and his customers. When things go wrong he hangs on to a degree which is almost devastating to him. This is hard to find in a big company because when his ideas go wrong he just quits. It is even hard to find in a risk capital organization because risk capital is pushed on him in almost the same way it is at Digital and when things go wrong he quits and does another job.

A manager who leads a set of ideas is emotionally committed to them and sells those ideas, even though they may not be his invention. He can get committed intellectually and sometimes contrary to the tradition and ideas of the rest of the organization, to the point where he has as much of the motivation

and the satisfaction and the danger and the learning experience that an entrepreneur can have in his own business. This may be the closest thing available to entrepreneurship in our modern high technology field.

Profit and loss responsibility is also spoken of as a goal. However, most people don't understand what this means. Profit and loss responsibility means that you go to bed scared and you wake up early scared because your expenditures may be outgrowing your income. P&L responsibility means constant worry, constant concern, and always looking out for every extra penny that has been expended. Sometimes onlookers think that P&L responsibility means the freedom to spend money without telling someone. They don't see the worry and concern that goes with it. Having P&L responsibility and the overwhelming feeling of economy that goes with it is hard to simulate in a big company. However, a leader who lays out a plan and gathers people behind him and the resources to carry his plan out does make an intellectual commitment to certain costs and certain income and it does give him much of the satisfaction and the feeling of P&L responsibility.

We, in our Company and in our modern society, are often afraid of leaders. We sometimes think of leaders as people who do not listen to others, and who do not get information and suggestions and inputs from the levels of society or the organization where the knowledge is to be found. Or, we equate leadership with people who carry on their own ideas without taking advantage of modern management techniques or traditional ways of finding the right solution to problems. Or, we feel that leadership means propagating ones own invention, idea or theory, regardless of what the results indicate. Indeed, leadership in the wrong direction is bad, but that does not mean that we don't need leadership.

In the product line area we, at times, have had people who felt that they were great leaders and managers because they had their organization broken down into many pieces and each piece was staffed and they just made sure the organization held together. There was a group who told Engineering what to do, there was a group who told Manufacturing what to do, and there was a group who told each part of the Sales force what to do. This did not make them leaders. This is an army in which each piece had authority but didn't know how to share a common goal.

I think the group vice president should be overwhelmingly and emotionally involved in product, software, applications, fields and customers. He should know which way each field is going with regard to hardware and software systems and he should know what they need beyond the direction that the rest of the world is already heading.

He should also be completely involved in the techniques of formulating our message and getting it across, and always worrying whether advertising or other techniques are the way to accomplish this.

I don't think he can do the job by having a dozen young engineers in each product line telling Engineering what they should do and telling Advertising what they should do. I don't think leadership is that easy.

In order to have leadership a corporation must address questions. We cannot afford to wait for answers to come from heaven. Some of the questions are: How do we differentiate between end user and OEM products? How do we have a simple, understandable, easy to remember set of re-seller terms and conditions, rules and regulations? How do we reconcile the future of the 10/20 business with the technological realities?

KHO:m1

K02:S7.15

Dictated Monday, 4 April 1983

April Woods O.C.

d i g i t a l

APR 08 1983 Interoffice Memo

TO: JIM CUDMORE
*JACK SMITH
cc: GORDON BELL
OPERATIONS COMMITTEE;

*To
From
Smith
4/8/83*

DATE: TUE 5 APR 1983 3:02 PM EST
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

MESSAGE ID: 5195974093

SUBJECT: INVENTION, MANAGEMENT AND LEADERSHIP

*****CONFIDENTIAL*****

The business press lately has been discussing the difference between management and leadership. Naval Captain Grace Hopper spoke to our people in New Hampshire last week and ridiculed management and emphasized the need for leadership. She said, "You don't manage your troops into a battle, you lead them into a battle."

} a given

I think it is critical that you show leadership at the April WOODS meeting, when Engineering plans are being decided.

We sometimes confuse invention with leadership. Leadership is not inventing a product and then selling it as the greatest thing since sliced bread.

It is almost as foolish to bring all the eager Engineering groups before a large committee to list all of the wonderful projects they want to carry on with huge funds and huge staffs over long periods of time, with no reference to what the competition is going to do and what the customer wants and what problems we are going to solve for the customer. This may seem like good management, but we know what happens. Committees almost always say yes to everything and when they say no it is based on personality, not on technical or competitive reasons. They don't even take into account the group's past history.

} Don't know where this came from. Not what we will do at the April Woods (see below)

I don't think an Engineering committee should make these decisions either. They are even less interested in the competition and the business reasons for a product.

I suggest that you make a very careful statement of the Company strategy for the low end. This would include what markets we are going into, what pricing level, what quality level and whether or not we want to go into the consumer business at all.

} The second day of the EMC was for EMC to develop this not only at the low end but all ends

Then, I suggest you use committees to help you formulate two or three alternate product strategies.

One strategy would be that each group has the right to do everything themselves. This would include the packaging, the power supplies, the disk controllers, the display controllers, the CPU's and the software. They would be required to justify

→ yes, the products committee is scheduled to do this mid-May

their motivation to propagate their invention, and for the ideas that they put forward several years ago.

The second alternative would be to say everyone will use the same hardware and the same bus structure and the only differences would be those parts which allow us to use different software and different operating systems.

It is natural for any leader to feel that he has to predict exactly what is going to happen in the future and then plan accordingly, but this is foolishness. A manager in an automobile company may feel that if he is a good leader he must predict whether the public is going to demand small cars or big cars, front wheel drive or rear wheel drive and his plans have to be 100% committed to whatever he has predicted. Then, he must justify his belief, and, because of his leadership the world will go that way; of course it never does. A military leader cannot tell from which direction the enemy will come and what is going to happen to the environment. He has to lead and yet prepare for all possible alternatives. His leadership is not dependent upon his predicting exactly what will happen.

Our strategy has been, and probably should be, to say we don't know whether the world is going to go to DOS, UNIX, VMS, CP/M, IBM CP/M or any other. It seems to me that a little leadership will make us independent of which way the world goes and we will not have to convince the world that what we said was going to happen is what will happen.

I think it is clear to everyone outside of Digital that the very small computer software is going the way of the IBM personal computer. Our individual product lines are so committed to proving that what they planned years ago is the only way that we should go, that they are usually blind to this fact. Leadership should be above the emotional commitment which groups may have to the ideas they have been pushing for years, and should face the reality that IBM has set a standard for low end software that we all have to be at least able to use.

I think Jack and Jim should come before the group and probably later on, the Board of Directors, and say, "Here is the strategy we propose." Or, "Here are the two strategies that we can pick between; here is the way we see the competitive world going, and here are the needs we plan to fill, and the competitive niches which the rest of the world is not planning to fill, and here is how we can do it with the minimum cost, in the minimum length of time, with the minimum risk."

I think it is ridiculous and unfair to have four groups parade before the committee and propose their own favorite projects and go in with huge financial and emotional investments and long schedules that the competition will not wait for.

It may seem unfair to ask the leaders to take on such a complicated and hard to understand task, but I think the answer to that is clear. If it is too complicated for someone to explain to a senior committee of the Company and to the Board of

good ideas.
Let's get on
it.

scheduled for
Products
Committee.
Mich - May
Board would
be OK anytime
after this
→ Agree

what we
get paid
for.

Directors, it is too complicated a strategy for the Corporation to carry on and for the sales and marketing people to sell.

} Right On
" "

Leadership is not calling large meetings and waiting to see if unanimity is achieved to solve a problem. Leadership is finding the answer and leading it through to success.

}
" "

Participatory management does not mean everybody participating in everybody elses project. Participatory management means being allowed to participate in the setting of your own goals and not someone elses.

} " "

We, in our Company and in our modern society, are often afraid of leaders. We sometimes think of leaders as people who do not listen to others, and who do not get information, suggestions and inputs from the levels of society or the organization where the knowledge is to be found. Or, we equate leadership with people who carry on their own ideas without taking advantage of modern management techniques or traditional ways of finding the right solution to problems. Or, we feel that leadership means propagating ones own invention, idea or theory, regardless of what the results indicate. Indeed, leadership in the wrong direction is bad, but that does not mean that we don't need leadership.

} Super

KHO:ml
KO2:S7.14

5-APR-83 15:35:13 S 04563 CORE
CORE MESSAGE ID: 5195914177

Call Jack Smith

Woods O.C.
[Signature]

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! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !

I n t e r o f f i c e M e m o

TO: OPERATIONS COMMITTEE:
LARRY PORTNER
JACK SMITH

DATE: TUE 1 MAR 1983 3:49 PM EST
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

MESSAGE ID: 5192453629

SUBJECT: ENGINEERING REVIEW

I have a few suggestions for our Engineering Review in two weeks. I suggest first, that we request that we get a head start by having summary data written for us for next Monday's Operations Committee. I suggest that we request a summary budget for the last two years and a summary budget for what is asked for this next year. The sum of these budgets should approximately add up to the total Engineering budget for the year and it should include product lines, Manufacturing Engineering, and all the services and maintenance projects going on in Central Engineering.

Then, I suggest we ask each Engineering Manager for a copy of his organization chart and a listing of who is in charge for each project and a statement of his organizational philosophy. Does he make all the decisions and does he represent all the projects at meetings and is he the one that all inquiries from the rest of the Company have to go through? Are the individuals, whose names are in front of each project, the ones who feel responsible for the generation and the maintenance of the schedule and is he then in a position to review them very often and regularly? We also ought to have for next Monday a statement as to what he understands is base marketing and how he plans to accomplish this.

My understanding of base marketing is that it is simply the generation of technical sales literature, which we have gotten very little of from a bureaucracy who are not technically inclined. If the Engineering Manager plans to set up another bureaucracy staff by non-technical writers, I think we have added to the total cost to the Company and received nothing. I thought the technical team and engineers who did the work were going to finish their job, which is to write down what they had generated. We could readily have a centralized group or contract with someone outside to put it in reasonable order and edit it for grammar and spelling for publication. It is the generation of the technical material for the sake of the customer and the salesman that we have been lacking and we want done in the product line.

Another part of the job which we have started to define, which I don't call technical marketing, is that we want the engineer on the project to be responsible for filling the needs of the customers in each market group and we expect the Engineering Manager to make sure that all those pieces fulfill all the needs

of the customer areas. I think it would be very helpful if we insist on a clear statement for next Monday's meeting before the major review from each Engineering Manger.

The second idea I have is that we ask every person taking part in the Engineering Review to answer a written questionnaire on each engineering project he reviews. I don't think it is right to ask these participants to listen to a sales pitch on the budget and then ask for a voice vote. And, I don't think it is right for them to take two days of their time and get nothing more out of it. The questionnaire should be fairly simple and largely yes and no answers and it should outline what we think should be there. I would like Jack Smith and Larry Portner and their crews present a questionnaire like this for review next Monday. The questionnaire should ask questions like: How are they organized? Does the boss do everything? Do the people feel responsible? Do the people feel that they have to leave the Company in order to get responsibility? Is the boss the only one who speaks for the project? When the Engineering Project Leader speaks does he speak like it was his schedule and his responsibility? Is it run like an American company or a Japanese company or like the old Digital?

Do we have reason to believe that they will make the project based on the history of that group? Have they looked over the alternatives, like buying the unit outside and buying most of the parts outside and getting by without the product altogether?

Have they looked at alternative ways of doing the project? We took two and one half years to make our personal computers and we planned every single detail all to show up at the thirty month period and then instantly go into a massive production schedule. IBM did theirs in thirteen months and then started production on a low scale, learned about their problems, fixed them and grew into massive production in about thirty months. I don't think there is any rule of thumb that says which is the best way, but I do think that people who see only one way are usually too narrow.

As we look over the large maintenance parts of the budgets are there alternative ways of carrying on these things and is it all necessary?

Do the engineers show interest and do they spend the time and show the sensitivity necessary to know what the customer and product lines need? I don't mean that they change their plans every day, depending upon who talks to them last, but rather are they confident that when this project is done it will be better than what is then available?

Another question we should ask is: in these new gadget and new technology areas, do we believe that they wind up being useful or do we believe that in the tradition that we started in the last years that we have to invest a certain amount of money in every technology and every idea, even though we don't really believe that it will ever be important?

Of the eighty-five projects coming out next year, what was the decision process to put them into production? When we agree on a

budget at this time of year, does that mean that no matter how long it takes Engineering to finish the project that we have already committed the many, many millions of dollars necessary to produce the item and to sell the item? If we are, at this time, making the commitment not only to invest but to continue investing until the project is done, no matter what has happened in the competitive field, and if this decision also implies a commitment to manufacture the product when it finally comes out, we should take a particularly serious view of what we decide on.

Do the engineers understand the importance of the costs involved in manufacturing a new product? Do they understand the cost of tooling, the cost of inventory during manufacturing, the cost of inventory and preparing for selling after a product is introduced? Do they understand the cost of disbanding the tooling for the old product and do they compare the cost of improving things in the old product, as compared to starting from scratch?

KHO:m1
K02:S6.3

Low medium strategy O.C.

d i g i t a l

I n t e r o f f i c e M e m o

TO: *WIN HINDLE

DATE: THU 31 MAR 1983 8:36 AM EST

cc: see "CC" DISTRIBUTION

FROM: KEN OLSEN

DEPT: ADMINISTRATION

EXT: 223-2301

LOC/MAIL STOP: ML10-2/A50

MESSAGE ID: 5195405906

SUBJECT: CORPORATE STRATEGY

When we decided to build three separate computers in the same plastic box as our approach to personal computers, I think it was a good strategy. With relatively little cost we are able to hedge our bets and wait and see which one plays the best.

It is assumed that Ken Olsen, or the Operations Committee, has the obligation to prove to each one of these groups that anything they want to do is beyond the financial capability of the Company, (or else they have a right to do it.) I would like to change this and say that we must have a Corporate strategy which says there is a simple, consistent, easy-to-understand hardware plan and that each of our software approaches fit into that plan and with great detail, prove that there is good reason for them not to share the same hardware.

I propose that after a machine grows beyond its original definition as a personal computer that went into the original plastic box, that every small computer system be based on the Q-BUS.

We have, for years, been building pieces for the Q-BUS and now we have all the pieces for a Q-BUS 11 going into production in the LCP5. We have an ETHERNET module which will be in production, we have the Seahorse, which will be here in August, and we have a Q-BUS MICRO-VAX coming soon after. We are also ready to make a built-in modem on a dual board and a telephone controller on another dual board. We also have ideas for making multiple-user connections straightforward and easy for business applications. When you add these to the huge number of Q-BUS modules that we already have, it seems clear that the Corporate strategy should be: All personal computers will be Q-BUS when we get into multi-user and larger systems. The Rainbow and the Professional will use Q-BUS for machines bigger than todays personal computer.

A personal computer normally is less expensive than a mini computer because it is designed with a limited growth potential. Each of the future options is designed into the unit so that a price is not paid for future expansion. When you get beyond that initial set of options, growth gets to be more expensive than the general, tradition, minicomputer. For this reason I suggest we keep our present personal computers and keep a major program to make them better and less expensive. We should keep them in their

initial boxes and continue to set about to make them the world's leader in industrial, commercial, and personal computing. However, for larger and multiple-user machines, I would suggest we have a Q-BUS Professional, and a Q-BUS Rainbow, and that we never grow the DECmate beyond the single-user personal computer that it is today and that we concentrate on making it the world's standard standalone word processing machine.

I also suggest that we start with this assumption and that people who want to duplicate things already done in Q-BUS prove that the investment is worthwhile.

KHO:m1
KO2:S7.2

"CC" DISTRIBUTION:

RICK CORBEN
OPERATIONS COMMITTEE:

JIM CUDMORE
RON SMART

MIKE GUTMAN

*Now getting attachment
from Harvey*
Marketing

d i g i t a l

INTEROFFICE MEMORANDUM

TO: Bob Hughes
Andy Knowles
Ed Kramer
Ward MacKenzie
Chick Shue
Harvey Weiss

DATE: 30 March 1983
FROM: Win Hindle
DEPT: Corporate Operations
EXT: 223-2338
LOC: ML10-2/A53

SUBJ: Marketing Tasks in FY84

In working through the transfer of operations responsibility from the Market Groups to the Field, Owen Brown and the Transition Task Force developed a good list of marketing responsibilities. At a meeting on March 4, the list was refined by the Market Group Managers. That list is attached.

Now that we are in the position of having to decide on marketing expenses for FY84, it seems wise to use that list to develop appropriate expense budgets. I am concerned that marketing groups will be budgeting functions that are no longer done by them.

I suggest that you ask each marketing group to lay out its FY84 budget by showing how much is budgeted for each kind of activity in FY84. This list may help review that.

WH:hb

WH1:S3.119

Attachment

Win

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+-----+

i n t e r o f f i c e
m e m o r a n d u m

TO: Ron Smart

DATE: 31 MAR 1983
FROM: WARD DAVIDSON *WD*
DEPT: WACS-OPS
EXT: 231-5657
LOC/MAIL STOP: MR03-3/J19

SUBJECT: RESPONSIBILITY CHART

Attached you will find an updated responsibility chart and detail support statements for the relationship between Operations and the Marketing groups. During Woods A, one of the subgroups received a list of support activities that the Marketing groups wanted from the AMC OPS (see attached). Since this was an ad-hoc list created that moment and not based on marketing responsibility chart - the Marketing groups were asked to provide a more specific support description for each task.

Although not complete - it might serve as a starting point for the Marketing groups.

The process is not complete until the Area Management Teams receive and responds to written support statements from the Marketing groups on what support they need from AMC OPS.

WD:dm

Attachments

Crisis management - number four, the first sentence was stricken. Section number four now reads there must be management support for the priority nature of crisis response, etc. This was done in order to clarify the fact that Operations was not expecting SMUs to staff specifically for crisis management.

The next discussion centered around the functional descriptions of the operations jobs. The first change was under the geographic team, page 14, F was added to read "Input to the Redbook Process".

No changes were made to technical projects function.

Under technical support function was the addition of F. Provides support to OPS.

The final segment was devoted toward getting inputs from the marketing groups as to what support they wanted from the AMCs. The following tasks were listed:

Feedback of marketing plans

o Page eight of the minutes of February 16th, 17th Woods meeting numbers five and six.

o Access to technical support

o Equipment-(Resources) placement

- . seeds
- . demos
- . benchmarks

o Account Info

o Sales Skill Info

o Account Portfolio

o Territory Strategy

o Competitive - loss sales reports/competitive activity reports

o Steering Committee Representatives

o Successful installations

o Customer accesss with or without sales involvement/Marketing research

o OEM/End User, applications

TASK	AREA OPERATIONS	MARKETING GROUPS	SHARED RESPONSIBILITY
PROPOSE NOR	R	S	
MAKE NOR	R		
BUSINESS PLANNING	R	S	
TACTICAL SUPPORT "DEALS"	R		
DISCOUNT ADMIN	R		
CREDIT LIMITS	R		
ALLOWANCES	R		
GEOGRAPHIC PROMOTION	R	S	
PRODUCT FORECASTING	R	S	MFG.
CUSTOMER SER INTERFACE	R		
MIS SYS DEF	R	S	
OA SYS DEF	R		U.S. F&A
TECH PRODUCT SUPPORT	R	S	
TECH APPLICATION SUPPORT	R	S	
MARKETING DIRECTION	R	S	PROGRAMS (AMC)
COLLECTIONS	R		REGIONAL SALES MGR
CRISIS MGMT	R	S	
INDUSTRY/CHANN. TRAINING	S	R	
3RD PARTY APPLICATION	S	R	
CUSTOMER VISITS	R	S	
STRATEGIC ORDER DELIV	R	R	
LOCAL ADVERTISEMENT	R		PROGRAMS (AMC)
STANDARD T&C	R	S	AMC MANAGER

THIS TASK LIST:

IS: INTERACTION BETWEEN AMC OPERATIONS AND MARKETING ONLY.

IS NOT: - ALL OPS TASK (RESPONSIBILITY) RELATIVE TO OTHER GROUPS
- ALL TASK FROM OTHER GROUP REQUIRING (SUPPORT) FROM OPS

AMC OPERATIONS NEEDS TASK LIST FROM MARKETING SHOWING REQUIRED SUPPORT FROM OPERATIONS.

PROPOSE NOR

Support needed from Marketing:

- o Ensure that strategic marketing plans are understood by selling centers for development of bookings plans.
- o Participate in an iterative process to develop the NOR plan utilizing bookings plans, strategic marketing plans and manufacturing opportunities and constraints.
- o Provide information on marketing, opportunity, competition, product focus, application focus and risk.

BUSINESS PLANNING

Support need from Marketing:

This responsibility describes the planning associated with the receiving and shipping of orders up to and including the payment of invoices across all time dimensions assigned to the MC's (i.e., monthly, quarterly, annual, LRP). Also included is the expense planning associated with the doing of these tasks.

Primary Responsibility to see that it is done: OPS

Supporting - As follows:

Programs -- Anticipated results and costs of programs to stimulate business.

Regional Manager -- Investment plans and costs to achieve expected results and evaluation of trade-offs between alternative solutions. Control of allowances and expenses to achieve the margin goals of AM.

GSG/TIG -- Expense planning and justification as well as longer range planning of revenues and investment justification.

Market Groups -- Provide marketing plan and describe needed support from the geographies. Describe the support that marketing groups provide to the selling function. Additionally, MG's will be asked primarily in the annual and LRP time slices to provide anticipated results of the product and marketing programs as one input to the revenue and margin planning broken down by geography. They will also be expected to give the information on any geographic specific investments, particularly where the geography will be expected to pick up the expense later on such as the Application Support Centers.

GEOGRAPHIC PROMOTION

Marketing groups will propose promotional programs where appropriate and support the field activities. AMC program is not a filter for marketing group ads or promotions. Local ads and promotions driven by AMC would be supplemental to any programs developed by the marketing groups.

PRODUCT FORECASTING

Support needed from Marketing (for Market specific products only):

- o To provide clear and comprehensive product information.
- o To communicate a clear strategy for announcing new products and phasing out old products. To recommend a back-up product strategy in the event of delayed product announcements or product availability.
- o To provide competitive cost performance data in advance of new product announcement or price changes.
- o To assist in sizing market demand (opportunity) by geography and/or industry based on market knowledge.
- o To propose geographic or account allocation strategy for new product/market introduction.

MIS SYS DEF

Market groups will provide listing of their data needs. Special MIS tools used by the product groups today should be provided to the OPS managers.

TECHNICAL PRODUCT SUPPORT

Support needed:

- o Futures information on a non-disclosure basis to key customers at request of sales. Product bulletins and spec sheets (detailed and promotional quality).
- o Provide information for training of sales and field support personnel.
- o Technically oriented people available to meet with customers either on site or in headquarters.

TECHNICAL PRODUCT SUPPORT (CONT'D.)

- o To provide backup to first line technical product support resident in geography.
- o Base Product Marketing to provide for STD corp. product.
- o Marketing groups to provide backup support for any applications specific products. Note that these are different levels of product support; yet to be defined by the AMC's.

TECHNICAL APPLICATIONS SUPPORT

Support needed:

- o Futures information re: application direction at request of sales.
- o Applications notes and promotional information.
- o Provide information for training of sales and field support personnel.
- o Leading edge applications expertise available for sales use on an exception basis.
- o Applications oriented demo and benchmark development and plans.
- o Competitive information.
- o Referral catalogs.

MARKETING DIRECTION

Support needed:

1. Marketing strategy statements must clearly describe:
 - A. The specific marketing target.
 - B. The hardware, software and application products to be provided to attack the target.
 - C. The skills and training necessary to implement the strategy and how the sales people will get these skills and training.
 - D. The type and quantity of ongoing support the Marketing group will provide to the Field units.

MARKETING DIRECTION (CONT'D.)

2. The Marketing groups should describe the actions and support they expect from the Field to implement the strategy.
3. The Marketing groups should provide the quantitative and qualitative measures of success of the strategy.
4. The AMC Operations groups will implement the strategies that are appropriate to each geography. We will tell them our implementation plan, and we want people in their groups to help us to understand whether or not we are on track.
5. Working with the Programs group and the Regional Managers, we will be proposing new opportunities which we will want the Market groups to consider in their strategies.
6. Feedback to Operations on the implementation of marketing programs.

CRISIS MANAGEMENT

Support needed:

1. Since the nature of a crisis is that it is unplanned and unexpected, we want the Marketing groups to react quickly and responsively when the crisis occurs.
2. The Marketing groups should provide the names and roles of the people to be contacted in the event of a crisis.
3. The AMC Operations groups will be attempting to minimize these situations. We request that the Market groups provide early warning to us of any problem situations that may be known to be brewing.
4. There must be management support for the priority nature of crisis response. We will want people who are customer-oriented and able to "put on a corporate hat" in these situations.
5. We want them to provide the technical product or applications resources that are unique to their groups.

CUSTOMER VISITS

AMC owns the process and qualification of corporate visits. Marketing groups participate for content purposes as requested. AMC's owns the process as of July 1.

Strategy Mundy 3/29

Interoffice Memo

! d ! i ! g ! i ! t ! a ! l !
! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !

TO: JIM CUDMORE
cc: DON GAUBATZ
OPERATIONS COMMITTEE:

DATE: MON 28 MAR 1983 9:26 AM EST
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

MESSAGE ID: 5195198892

SUBJECT: WHAT I KNOW ABOUT MICRO AND MINICOMPUTERS

I am not sure anybody in our industry knows everything about what our industry builds. But, I would like to pass on to you what I have learned about mini and microcomputers. I am sure this is not complete and I am very sure it is general in nature. In addition, for every statement you make on a subject like this, someone will prove there is an exception.

Minicomputers, as defined by Digital over a period of many years, is not defined by the size of the computer, but rather by the resources built into the computer that allow it to be put together in an infinite number of combinations and sizes to accomplish all sorts of tasks. There is a price to be paid for this generality, but it allows a very small number of machines to do a very large number of tasks.

Miniframes were designed to handle, in an efficient way, large amounts of data in minidisks or drums and in large memory. But, they usually lack the freedom to make up special combinations and to be hooked up to special equipment.

Microcomputers, or personal computers, on the other hand, were designed to be a very limited minicomputer. In order to save money and space, we sacrificed generality and freedom to expand and to add large numbers of options. Most of the machine is put on one board and, in general, all options are thought of at the design time so that they are very easy to install, with very little extra equipment involved. They are, therefore, cheaper but, of course, they are more difficult to make into large systems and to inter-connect.

Personal computers are usually optimized to have a fast response between the keyboard and the display. Because they are personal computers, the personal interaction is optimized. In any computer, the general applications are optimized and often several or many terminals are used, with some sacrifice in reaction time. Some of the software has been magnificent in its cleverness and efficiency. Personal computers don't have large amounts of storage and often the people who write it are one or two men companies without the money to use the large computer to help them. The result is that most of the very good software for personal computers has been written in machine language directly in the computer memory by very bright, clever, hardworking people and they, at times, have done a magnificent job in generating

efficient programs. Word processing on the DECmate is an example of very efficient, very clever, very well-developed and polished and improved and detailed program that can be run on a machine with just floppy disk storage.

Most of the software for mini and larger computers are written with the aid and automation of large computers. This makes it easy and efficient to write quite complex programs. In addition, the programs are often written in a high-level language so that they can be used on different machines. The wonderful things that we see computers do today have been made possible by the aid and automation computers make possible in the generation of software. However, software generated this way usually takes large amounts of disk storage and central computer storage.

Because personal computers are normally optimized for one individual's use, they are not basically optimum for business applications where there is a need for several users or input devices. Because most minicomputers have been designed for many users, it is normally better suited for business. It is sometimes argued that personal computers clustered in a network would make an efficient multi-user system, and while the cost of each terminal isn't high, the cost of most networks is high. And, the software to accomplish all this has not yet been demonstrated. The advantages of clustering many personal computers might also be obtained by putting several one-board computers in a Q-BUS so the communication is done through the Q-BUS, and each one-board computer talks directly to its own set of terminals.

Life is not as simple as I have stated, but one thing becomes clear, and that is that no one machine organization is optimum for all applications.

KHO:m1
K02:S6.62

O.C.

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I n t e r o f f i c e M e m o

TO: OPERATIONS COMMITTEE:

DATE: TUE 15 MAR 1983 9:17 AM EST
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

MESSAGE ID: 5193877499

SUBJECT: GENEVA ORGANIZATION

With the limited sample of people I talked to yesterday, two problems were clear.

When we dismantled much of the Geneva organization we got rid of not only the policemen but the technical experts, who were expert in markets and in products. People believe we need these experts centralized somewhere in Europe.

People now pick their budgets from listening to enthusiastic Group Vice Presidents giving their pitch but, they badly need direction from the U.S. as to how much to count on these pitches and how to allocate resources between them.

K02:S6.39

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Strategy *March Woods*
I n t e r o f f i c e M e m o

TO: OPERATIONS COMMITTEE:

DATE: MON 14 MAR 1983 2:10 PM EST
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

cc: DON GAUBATZ
JIM WALLS

MESSAGE ID: 5193775939

SUBJECT: Q-BUS COMPUTER ALIAS GAUBATZ

*****CONFIDENTIAL*****

The team proposing a Q Box computer is close to finishing its four week study and soon will have a proposal.

The workstation strategy and the business strategy have evolved to a hodgepodge of different computers.

This one box is a low, floor-mounted with casters machine that is the width of an AZTEC. There are probably two other boxes that will be built. Someday we will want one with more than sixteen slots and we will wait until we need it before we work on that one. The other box we will probably make right away because it is so easy and that is the one that fits in the present Professional table top box. This is easily done because we can use the same power supply, the same Winchester, the same sheet metal and the same plastic. It holds three quad boards and three dual boards. It would contain a single board 11/23 with memory and four or eight users. The second quad slot would be a controller for the Winchester and the floppy. One of the dual slots would be a built-in modem and the other would be a telephone controller. This leaves a spare quad and a spare dual. One of the quads could be used for an extender, which would extend the unit to either an additional sixteen or an additional twenty-four users.

This box would make a nice small workstation, particularly when it has a MICRO-VAX or a sea horse built in. However, when we sell it for business, we would like to have it on the floor and we would like to convince the customer that it will grow as his needs grow. We could then put several processors or a J-11 or a sea horse, or a MICRO-VAX, or any combination, or multiples of the above.

The one in the PRO box we could call the Q-BUS Professional. We could sell this in the Professional marketing group and use it for direct sales. I wouldn't sell it to outside stores, in fact I would use this machine only for direct sales. It would be particularly useful for those customers who want to grow or want to have a machine which has the freedom of the Q-BUS. If this worked out, and if we are lucky with the software, we could offer two PRO's that run the same software. One would be appropriate for some applications and the other one would be appropriate for other applications. This one is different from

-the original PRO because it won't have a display generator and instead of a simple monitor it will use a VT-220 as its monitor. That is the reason why it will be so easy to make this simple machine.

I would also like this machine to accomplish what we have dreamed of doing for many years, in having a separate line of computers that support direct sales and for end users and resellers. I'd make the differentiation by using Standard 422 for communications between terminals and our direct sales system for workstations and business. This is a better system, much nicer from an electrical engineering point of view, but it is rather drastically different from the twenty-five pin connector that everyone else is using in their small computers. We would have a terrible time trying to convince our OEM's to use 422 and it would just fit in nicely if we never tried, and converted all our own direct sales machines to 422. We then could have different pricing, different discount schedules, and we wouldn't have terminal dealers underpricing the terminals we want to use in our systems.

In order to accomplish this we would immediately take our VT-220 and make a special model of it that would take 422 signals. This wouldn't be very hard to do and probably would make the unit so much cheaper than the traditional twenty-five pin connector. The other big advantage of this system, using the 422, is that it would be a lot easier to hook up many terminals. This is designed assuming that, for business applications, there are many terminals not to be hooked up in a local area network, but tied in a traditional sense of the computer. These could be hooked up with 422 in a very easy, simple way, just like hooking up telephones.

This one computer, that grows from very small to very large, will exploit the advantage we have over almost everybody else, in that we have, or we ought to have, a very simple 11 up to a fairly good sized VAX on single boards. This gives us a tremendous span that very few other people can accomplish and we should exploit this as one of our big competitive advantages.

KHO:m1

K02:56.37

Dictated but not read by K. H. OLSEN

CUSTOMER VISITS (CONT'D.)

MG's believe that Operations will need to have dedicated resources to execute professional customer visits. Many visits with Product Groups in the past involved business decisions and commitments, hence, AMC management presentation must accompany future customer visits. The Operations Managers will need to spend more time defining their role versus the Sales Managers role in corporate customer visits.

STANDARD Ts AND Cs FOR MARKETING

AIC Marketing groups will be expected to participate in the standard Ts and Cs for selling most efficiently to their own market. Exception to Ts and Cs will be the responsibility of the Area Managers/OPS. Ts and Cs are implemented by Operations. Changes to standard Ts and Cs will be made by a corporate process with both Marketing groups and AMC's participating.

O.C.

* d i g i t a l *

INTEROFFICE MEMORANDUM

TO: Larry Portner
Dave Knoll
cc: Win HIndle

DATE: April 13, 1983
FROM: Ron Smart
DEPT: OC Secretary
LOC: MLO10-1/F41
EXT: 223-7011

SUBJ: RECOVERING MARKETING'S STRENGTH

Win believes that Marketing managers in general do understand their role in the New DEC but that they feel blocked in the following three areas. Ken has asked for the June WOODS to focus on this problem (see attached).

Problems

1. The overlapping marketing is hurting, not helping.
2. They perceive real difficulty in communicating with the field to get their jobs done.
3. They perceive difficulties in getting the products they need.

Some Solutions in the Works

- (a) The customer segment teams meeting (e.g Hughes 4/19) could help solve (1), particularly if the marketing expense budgets are tied to team effectiveness (How to do that?)
- (b) Some actions are clearing away obstacles to (2), some remain.
 - The mapping of after-the-fact NOR back to the P/Gs is almost settled so as to give better market information than in the old DEC. (*)
 - The field's budgeting categories which map back to P/Gs in the New DEC, giving before-the-fact focus and field expertise centers for groups of P/Gs is also almost settled (*Ron, Paxton, Management Sciences, etc., the problem is OFFICE).
 - It remains for Jack Shields and field managers to convince Marketing that they are wanted and valued by them. (June WOODS?)
- (c) Marketing will be much more effective at influencing product investments if the customer segment teams pre-process their prioritization (as planned) and if we can come up with a corporate market strategy (how to do that?)

Feb. Woods

Interoffice Memo *D.C.*

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TO: OPERATIONS COMMITTEE:

cc: RON SMART

DATE: WED 9 FEB 1983 10:29 AM EST
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

MESSAGE ID: 5190418675

SUBJECT: WOODS:MANAGEMENT

At the WOODS meeting I would like to have a thorough discussion of how we manage. I would like us to define what we believe in: delegation, goals, budgets, and reviews.

Let's try a few specific cases. Let's ask the person who is responsible and has the authority for the engineering, and the person with the authority and responsibility for the marketing, and the person who has the authority and the responsibility for the manufacturing of the LA-100 to come and tell us how delegation, budgeting and reporting works at Digital. Let's do the same thing with the group of three who have the same responsibilities for the LA-12.

It would be good to review the last two years of these projects because they were a long time getting into good production and now that they are about to run well there is concern that we won't market them anyway.

There is concern that with modern management theory, or lack of theory, all our managers try to take all of this responsibility themselves, and therefore, the authority and responsibility are not delegated. We suffer when one person is responsible for several things, because they can't all receive his complete and full attention.

KHO:m1
K02:55.41

Handwritten: Letter to George Chamberlain at the Woods O.C.

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I n t e r o f f i c e M e m o

TO: GEORGE CHAMBERLAIN
*WIN HINDLE
LARRY PORTNER
RON SMART

DATE: TUE 8 FEB 1983 2:00 PM EST
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

MESSAGE ID: 5190316959

SUBJECT: ANNUAL BUDGET MEETING

I gather we are having our annual budget meeting in March. I am often disappointed with this meeting because it seems to have little influence on our corporate planning. We have people propose numbers that get ground and processed so much that when we go over the budgets there is really very little of interest, and very little we can influence. The goals and markets and channels and investments expressed in those budgets seem to have little influence on what is done through the year.

I would like to spend much of the WOODS meeting identifying, in general terms, and then documenting very clearly, what space each product line is working in and what engineering projects are being done to service them. I want to make very clear which areas the four small computers are going into. I also want to make very clear the separation between business and personal computing and all the other applications, and I want to make sure that we use our resources wisely.

I would also like to, in general terms, tie our major engineering projects into these. I get the impression that the Professional 350 has lost interest in the personal computing market, for which it is priced and aimed toward, and which would be competing with LISA and APOLLO and is going after the low end business applications, like everybody else. If this is true, we should analyze the engineering expenditures we are making for that high end, such as the very expensive cathode ray tubes. I think all projects like the expensive cathode ray tube should be looked at relative to what market they are going after. Too often they are ends in themselves, or they are going after some goal which was stated a long time ago for a product line, but which the product line has long since dropped, and the project keeps going on. It would be nice if, in that informal presentation, we could chart out expenditures, goals, and gambles in such a way that we all can understand and then leave the meeting and all work together without conflicts and fears and jealousies.

Please present at the WOODS meeting, a simple statement as to what the budget has been in Advertising, Engineering, Marketing, etc. for each of the groups during Q3 and Q4 of '83, and what it looks like it will be for FY '84.

KHO:m1
K02:S5.34

**RESTRICTED
DISTRIBUTION**

George Chamberlain
O. C.

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I N T E R O F F I C E M E M O

TO: George Chamberlain

Date: 4 February 1983

CC: Win Hindle

From: Ken Olsen

Dept: Administration

MS: ML10-2/A50

Ext: 2301

SUBJ: RESOURCE PROBLEM

*****VERY CONFIDENTIAL-DO NOT COPY*****

The Operations Committee and myself have often made the mistake of assigning someone a job and then not making sure that he had the resources to accomplish it. Often even old timers are reluctant to stir up any conflict with some of the other senior people in the Company and don't set about to request the resources they need to succeed. This was probably the source of Stan's problem and it is probably the key to a number of problems that we have had in the last year; and right now is a serious problem with Bob Hughes.

We gave Bob Hughes the job but left his advertising budget under the control of Andy. It is like leaving the chickens guarded by the fox. We gave him the responsibility for a whole new product line, but his engineering had to be done by Bill Avery and Mike Gutman, who are too busy satisfying the traditional product lines and he has to wait weeks to get a short appointment with them. Bob was left with only those people who were left over after others picked over the group.

I asked him why mechanical engineering were working on a very expensive approach to the equivalent to the DECmate III, but for the Rainbow, after the Rainbow received such enthusiastic response and was relatively easy to get, and was almost unanimously approved even though maybe not officially budgeted. His answer was that the Rainbow has money and the DECmate doesn't. It is just so commonly believed that any of Andy's projects have top-priority, have money and the Rainbow and Bob Hughes' operation has none, rates way down on the priority list, and by influence and intimidation all priority first goes to the 350 and way down the list comes Rainbow and if any resources are left over they can go to the business group.

It is even believed, sincerely, by many people, that Dick Berube has been bought by Andy and that all the advertising goes to him because he is treated so well by Andy.

All our financial controls and budgeting have no influence on the running of the Company. We do these only for tradition's sake and as part of our full employment policy and it in no way influences the way we run the business. Even Jack Smith's elaborate planning system has only a gross approach to how things are done.

I probably make things worse, because as I try to add a little rationality to it all and a little fairness, it appears that I am playing favorites in the other project. This probably polarizes matters. Of course all of this should readily be taken care of by budgeting, by financial controls, and by financial review of plans. However, no one expects anything useful from our financial and budgetin system. We do all of this because it is one of the burdens of a big company, and it never dawns on our people that these are useful tools to help us keep control.

You may, in your new job, solve these problems. I think you should try to immediately solve some of the gross problems and in the long run you may get us to, in both the product line area because of its close relationship to engineering and, in engineering, add some rationality and wisdom and true financial controls.

I would recommend that you immediately visit with some of the people who work for Bob Hughes. He is such a salesman that he will never complain himself, and most of the people below him have worked so long in the system that they take it for granted and probably won't trust you because you are part of Andy's operation, but if you spend the time, eventually you might be able to help and you might solve some of our most serious problems.

I understand that Bill Avery has been working on a \$400 computer for educational use. This should go through a very serious scrutiny. I haven't heard the proposal myself yet, but it sounds like it is an APPLE computer eight years after everyone else has decided to copy APPLE and a year or two after IBM has set out to do exactly the same thing. It is approaching the market in a way that is opposite from the way we said we would.

The rumors also say that they are going to demand almost all of our resources to get this thing out before Summer. This, of course, should be reviewed from many points of view. Will it once more wipe out our approach to business and any possibility of getting some business computers? Is there any wisdom in going headlong after those people whose speciality is sweatshops and lost cost of manufacturing, and whose skill of marketing we could never match and whose distribution systems are efficient and high-pressured?

We also should look at Texas Instrument and see what happened to them when they decided to go from the commercial, industrial, and military market into the consumer market. They have had no end of trouble since then, and it took them a while to realize that from their tradition it took them longer to generate a product than what was the normal product life in the consumer market. The traditions in that market were such that they were just about incompatible with the market TI, (and Digital) understand.

KHO:m1
K02:S5.27

O.C.

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I n t e r o f f i c e M e m o

TO: OPERATIONS COMMITTEE:

DATE: THU 3 FEB 1983 4:48 PM EST

cc: RON SMART

FROM: KEN OLSEN

DEPT: ADMINISTRATION

EXT: 223-2301

LOC/MAIL STOP: ML10-2/A50

MESSAGE ID: 5189810485

SUBJECT: HOW TO PROPAGATE PERPETUAL WAGE INCREASE DELAY

*****EXTRA CONFIDENTIAL - DO NOT COPY*****

Years ago, when product lines were operating, the Product Line Manager kept in mind the products and activities of the competition, the technology available, and above all, made sure that as we changed products there was a smooth transition for our customers as new products were introduced. We never abandoned or forgot about customers as new products were developed.

Over the last few years we have lost this. It is believed, by some people, that we lost it two years ago when a major goal of the Corporation was only to raise the profits of each product line.

Unfortunately, the New Digital hasn't helped this. We no longer have marketing groups to tie the business plan together to make sure that we use the technology, and that we do not ruin the customers as we change products. I have been hearing for three years, and still hear today, "Why hurry, Ken, with a new product?" or, "Why make it consistent with what we had before?" or, "If we start all over again, do everything differently, and take advantage of the new disks in California, in two or three years we will be able to do a much better job than we have today." No one cares about the customer, and no one cares about the wage freeze, and no one takes an overall view.

Unfortunately, with the New Digital, I am afraid that the new marketing groups, who should be worrying full-time about this as a key part of their marketing job, tend to look at T.V. advertising and colored literature generation as the goal of their marketing group.

Two and one half years ago we were going to build a CT in nine months. It was decided to make it a two and one half year project without raising the question within the Corporation, and without bringing it to the Operations Committee, or the Board of Directors. It was also decided to change all the software and all the modules and all the designs, so that none of it was compatible with the 11's we have been making. Therefore, it was not compatible with anything that our customers had been doing and added many, many, millions of dollars to the delay. In addition, we did not have a product during the recession; at a

time when we could have taken a large chunk of the personal computer market. Now the recession is ebbing and we won't be able to make enough product, (hopefully), and we have lost our chance.

Even today there is little worry about getting new products as soon as possible, with as little change as possible, that are as easily adapted to as possible by the customer and our manufacturing. It is always, if we wait two, three, four, five, years we can do things better and that, of course, is the best course of action for any individual without any overall view.

I would like to see the Operations Committee put down on paper who has responsibility for looking out for the customer, and looking out to make sure that we have competitive products as soon as we need them, and who will make sure that all these people that want to do their own job differently than has ever been done before, without cooperating with anyone else, particularly our customers, don't get away with this method of operation.

KHO:m1
K02:S5.5

WELB/DL
O.C.

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I N T E R O F F I C E M E M O

-----VERY CONFIDENTIAL-----

TO: Jack Smith

Date: 31 January 1983

CC: Julius Marcus
Bob Hughes

From: Ken Olsen

Dept: Administration

MS: ML10-2/A50

Ext: 2301

SUBJ: COMPUTER PRICE RANGES

I think that the goal of having a computer in each price range is a naive goal for engineering. Someone has to have a logical, systematic approach that shows we have an answer to the problems we want to solve and an answer to each of the competition in the area we are entering. I don't know who that is, or who it has been in the DECmate, and I think we have suffered with it for many years and we are worst off today than we have ever been. We have so much red tape and so many managers and no one with responsibility, that it is no surprise that no one can explain to me where we are going.

Andy's group, who has no particular enthusiasm for the DECmate, sets the price and they set it higher than the Rainbow. Bill Avery's organization, who has no particular love for the DECmate, make the hardware decisions and it appears that the software hobby shop in New Hampshire makes the software decisions to meet their artistic desires.

Within Engineering, under Bill Avery, there was Dick Loveland, and under Dick Loveland there was John Clark, and under John Clark there was John Kirk, and under John Kirk were the engineers who did the work. Needless to say, John Kirk is frustrated because of the lack of influence he has on decisions.

We made Dick Loveland Marketing Manager and he decided he didn't like the job. I don't blame him because the hodgepodge we have there is untenable, but there is nobody who worries about it because everybody has a job and a good salary and a secure position and no one has to make a logical argument or presentation.

Our marketing groups have blind faith in engineering and software and feel their duty is only to sell whatever is made.

DECmate I has fine business software but we, for some mysterious reason, decided to do it all over again for DECmate II, and did it in CP/M. This means those who have been selling DECmate have a terrible time taking care of the customers who have they sold on the advantages of DECmate I. What do they do? And then, if they tell them the wonderful advantages of CP/M they have no argument for DECmate I, in fact the Company has no argument for DECmate I. We charge extra for a DECmate over a Rainbow when the Rainbow has many features and

significantly lower price than the DECmate. How can anyone with a clear conscious sell a DECmate to do a CP/M job when they can get the lower price, (indeed not at a Digital Store), a Rainbow that does much more.

I am sure that nobody has an overall plan to kill the DECmate, but I am also sure that no one has a plan from the 278 to DECmate I to DECmate II to make it a successful product. Each decision is made by separate groups for their own artistic reason and no one has a plan, and I don't expect the people have a plan today.

Maybe we should cancel the DECmate II and say that the organization has killed it and it might be wrong to sell it to anybody to do business applications.

Will you and Julie come to the Operations Committee on Monday, February 7th and propose that we either keep going with DECmate II or we cancel it. Maybe we should stop all DECmate II's and just wind up as many DECmate I's as we can. All our advertising is in pushing the Rainbow and Professional and it may die anyway. Again, people in the Company may feel that Rainbow and Professional and even ll software for word processing is better than DECmate. Whether or not this is true is irrelevant.

It was Engineering and Software who made the decisions and should have had a plan so I think you two have to make a proposal as to what we do with his machine in the future.

KHO:ml
K02:S4.88

O.C. - 2/7

Ed Bob Hughes

```

+-----+
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: d : i : g : i : t : a : l :
:   :   :   :   :   :   :
+-----+

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I N T E R O F F I C E M E M O

-----VERY CONFIDENTIAL-----

TO: Bob Hughes

Date: 31 January 1983

CC: Julius Marcus
 Barry Cioffi
 John Clark
 Jack Smith

From: Ken Olsen

Dept: Administration

MS: ML10-2/A50

Ext: 2301

SUBJ: HAVE WE KILLED THE DECMATE?

Have we killed the DECMate by not having a Marketing Manager and not having a simple, easy to understand plan that covers the general principles?

It seems that someone from the software hobby shop has decided that they will drop all the good business software we have in the DECMate I and change everything over to CP/M. The small computer group decided to charge more for DECMate than for the equivalent Rainbow. This means that for two CP/M machines one is significantly better because it has many CP/M features that DECMate doesn't have, but is quite a bit lower in cost. It is commonly stated within the Company that the Rainbow software on CP/M is better than DECMate.

Is it your plan to slowly abolish the DECMate? If so, I think we owe it to our dealers, who have no other business, and we should plan to phase out our Stores.

It appears that the group that is most aggressive in their marketing plans in the Company wins hands down.

Marketing is not advertising and techniques in selling alone. Marketing, aboveall, is a simple strategy, which includes factors of pricing and product content and evaluation of how it fits with the competition.

KHO:m1
K02:S4.87

O.C. 2/7

! ! ! ! !
! d ! i ! g ! i ! t ! a ! l !
! ! ! ! !

I n t e r o f f i c e M e m o

TO: see "TO" DISTRIBUTION
cc: BOB HUGHES
JULIUS MARCUS
OPERATIONS COMMITTEE:

DATE: FRI 28 JAN 1983 12:54 PM EST
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

MESSAGE ID: 5189200237

SUBJECT: PRELIMINARY REPORT TO OPERATIONS COMMITTEE

Here is a copy of a note I sent to the PC people asking for a preliminary discussion that might lead to a swat team on PC's.

I think it would be a good idea if you did the same thing and quickly gathered the information you have about all the significant competitors in word processing, small business, and the office and chart them out for us in the same way. Please show us which areas we are aiming for and where we are making our investments.

I know this doesn't give you much notice, so don't spend much time in the preparation of the slides. Any handmade chart will do, and remember this is just a preliminary introduction to a more serious effort on the subject.

KHO:ml
K02:S4.82

! ! ! ! !
! d ! i ! g ! i ! t ! a ! l !
! ! ! ! !

I n t e r o f f i c e M e m o

TO: see "TO" DISTRIBUTION
cc: ANDY KNOWLES
OPERATIONS COMMITTEE:

DATE: FRI 28 JAN 1983 11:53 AM EST
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

MESSAGE ID: 5189200007

SUBJECT: PRODUCT FIT AND THE COMPETITION

When the Company feels somewhat confused as to how our products fit relative to the competition, and when we need a list of advantages that we have relative to the competition, and we need a list of the disadvantages they have, and when we have to identify those specific areas in which we have developed strengths in, the Operations Committee has called for a swat team to accomplish this job.

I'd like you to make a preliminary presentation to the Operations Committee that may be the first step in the development of a swat team.

I'd like Bill Avery to chart out all of the competition for the personal computer area and identify their strengths and then show which markets each of our three personal computers are aimed at and in which areas our future developments reach the three personal computers or are aimed at.

Then, I'd like Joel Schwartz to do this in detail for the Professional.

I'd also like Joel to identify each of the people who are competing with us for the high-quality, high-performance, personal computer and workstation. Then I would like him to identify where we sit relative to each one of these competitors and explain where we are investing our software and hardware development funds. I would like him to tell us where he expects the competition to be in the future and where he expects us to be.

I would like to do this during the Operations Committee Meeting on February 7th. I realize this doesn't give you much time. However, I think because this is really a preliminary session to help lay out plans for future analysis, it would be worthwhile to take whatever information you have readily available and present it.

I am told that preparing material for this type of presentation, is particularly well done on a personal computer, and that these kinds of charts can be done graphically and in full color by locating the various components on the screen, (where you want them), and adjusting them until you are happy with them. They are then photographed, and result in the viewgraphs needed for the meeting. If the mechanics are not yet fully developed, just do it by hand, with what you have.

KHD:m1
K02:54.81

"TO" DISTRIBUTION:

BILL AVERY

AVRAM MILLER

JOEL SCHWARTZ

"TO" DISTRIBUTION:

HENRY ANCONA

BARRY CIOFFI

JOHN O'KEEFE

O.C. ~~XXXXXXXXXX~~

! ! ! ! !
! d ! i ! g ! i ! t ! a ! l !
! ! ! ! !

I n t e r o f f i c e M e m o

TO: see "TO" DISTRIBUTION
cc: ANDY KNOWLES
OPERATIONS COMMITTEE:

DATE: FRI 28 JAN 1983 11:53 AM EST
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

MESSAGE ID: 5189200007

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then photographed, and result in the viewgraphs needed for the meeting. If the mechanics are not yet fully developed, just do it by hand, with what you have.

KHO:m1
K02:S4.81

"TO" DISTRIBUTION:

BILL AVERY

AVRAM MILLER

JOEL SCHWARTZ

O.C.

d i g i t a l

I n t e r o f f i c e M e m o

TO: JACK SMITH

DATE: MON 17 JAN 1983 11:23 AM EST

cc: OPERATIONS COMMITTEE:

FROM: KEN OLSEN

DEPT: ADMINISTRATION

EXT: 223-2301

LOC/MAIL STOP: ML10-2/A50

MESSAGE ID: 5188180000

SUBJECT: BUSINESS COMPUTERS

I am afraid we'll never be able to compete with WANG and small companies who specialize in business computers. We have such tremendous overhead when we have to be able to sell all our computers to both business and OEM's and everything else.

There is, of course, a certain advantage in selling the same machine in many places. We believe this, and have therefore done all the engineering in one place and tried to sell exactly the same product in all of our product lines. In general this is a good idea, but I am now convinced that there is so much overhead that we won't survive doing business this way.

Mike Gutman is overworked and his people are overworked. They have so much to do that they are terrified at the idea of a new project or new idea. I think this is because every time they have a new product they have to adapt all of that infinite number of modules and ways of doing things that we have for all the various product lines and this just overwhelms them.

Will you consider for me the possibility of a completely separate business hardware engineering group? This group would have a very small number of options and would be designed for easy connection within the office and would not have the enormous overhead involved in moving machines adaptable to all our other product lines. I believe a separate product line could take an ll and make a beautiful machine for the office quickly and economically and one that would be easy to connect by the people in the office. I don't think it is ever going to be possible, if we have to do it with a group that has the burden of adapting every product idea to every product line in the Company.

If we do this, we also could have separate accounting. The business group shouldn't be charged for all the engineering that goes into making the ll general for everyone else. If the business group sells a large number of their machines their engineering should be divided proportionately.

KHO:m1
K02:S4.35

~~XXXXXXXXXXXXXXXXXXXX~~ ~~XXXXXXXXXXXXXXXXXXXX~~
O.C.
! d ! i ! g ! i ! t ! a ! l !
! ! ! ! ! ! ! !

I n t e r o f f i c e M e m o

TO: *WIN HINDLE
JACK SHIELDS
JACK SMITH

DATE: WED 12 JAN 1983 2:22 PM EST
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

MESSAGE ID: 5187672763

SUBJECT: POWER, SUCCESS, AND OBSOLESCENCE

! d ! i ! g ! i ! t ! a ! l !
e m o
! ! ! ! ! ! ! !

I n t e r o f f i c e M

TO: ED KRAMER
2:10 PM EST

DATE: WED 12 JAN 1983

BCC: Win Hindle
Jack Smith
Jack Shields

FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

MESSAGE ID: 5187672720

SUBJECT: POWER, SUCCESS, AND OBSOLESCENCE

*****FOR INTERNAL USE ONLY*****
*****RESTRICTED DISTRIBUTION*****
*****CONFIDENTIAL*****

One of the sad things in my life is to meet with some of my old friends, who at one time made significant, notable contributions to Engineering or Marketing and other fields, but have since become obsolete. I meet with some of these people every several years, and others I see every day.

We often read and hear about technical obsolescence in engineers, and hear proposals that they be retreated. The ones I have seen didn't become obsolete because they were busy doing engineering, but because they lost interest in engineering. They became interested in power, status, influence, and being boss.

People who become obsolete spend all their time reminiscing and complaining about limitations today and about the limitations of red tape.

They become obsolete because after success and a taste of power they stop learning. Instead of realizing that maybe their immediate success was partly the result of happenstance, partly the result of other people's work, and perhaps because everything was easier then and there was so little competition. Also, partly

because the competitors would take poor marketing and poor documentation and often mediocre engineering. If they wanted to stay useful they would have to work every day and every hour to get better and better.

Instead, too often my friends have seized on the need for power and influence and status. I have concluded that those who are interested in power and status are running away from technical competence. How can someone use power and influence and status when he has stopped learning years ago and doesn't read everything, including current literature, or understand what is going on in his area today and know everything about the resources available to him?

With your new job I would suggest that you immediately set about to take inventory of the management technical marketing skills of the people you inherit. I would immediately worry about those who are interested in power and concentrate on those who want to accomplish the job. They are willing to do the work to find out what resources are available in the form of products and technology and manufacturing and selling and laying out plans to make a significant contribution using all these resources.

We stopped measuring group vice presidents and product line managers years ago. We now define profit and loss responsibility as the power to make arbitrary decisions with no measurements. The manager, through Profit and loss responsibility tells others what to do and nobody measures him. I would be very suspect of anyone who laments the loss of P&L responsibility because to me that means he wants arbitrary power and to be in the position of complaining and criticizing and never being measured.

Some people feel they need a product which is half the price of anyone else's and has twice the capability, with every kind of software and they feel they have made a contribution by requesting this. This of course is not marketing. Marketing is taking what you have or can get and selling it.

Four years ago we had a PDT-150. It was one of our nicest computers and one which is very well liked by those who use it. At that time, if we had marketers who analyzed the resources available and understood the market and had some technical knowledge, we could have dominated the educational personal computer market, the business personal computer market and supplied all the stores with the best machine available. However, our marketers were so caught up with power and complaining they didn't have the time to be an expert on what we had or expert on what the market needed.

The outside world looks at Digital and says that we are now in a new era and we have to learn to market. We have never acknowledged this publicly, but it is true. Our old ways of marketing, where we often spent money on useless literature on one thing and sold something else and claimed we did great marketing has to come to an end and it is your responsibility in these new areas to make sure that we do.

When it is said about someone, he did great things ten, twenty, twenty-five years ago, be very suspicious because this too often means he retired on his laurels and hasn't done anything lately and hasn't kept up, however we owe him power because of what he did many, years ago. This, of course, is very unfair to the people who work for him and unfair to the stockholders and the customers.

KHO:m1
K02:S4.2

O.C. Jan 25

d i g i t a l

I n t e r o f f i c e M e m o

TO: DAVID STONE

cc: see "CC" DISTRIBUTION

DATE: MON 3 JAN 1983 1:47 PM EDT
FROM: AVRAM MILLER
DEPT: CT PROGRAM OFFICE
EXT: 223-9441
LOC/MAIL STOP: ML5-2/T53

MESSAGE ID: 5186756069

SUBJECT: YOUR MEMO ON HUMAN ENGINEERING INTERFACE OF 10 DEC 82

Dave, I would like to address two issues which you raised in the above memo. First of all, I agree in principle with the philosophical statements as outlined by you. During the recent Engineering LRP Woods meeting attention was given to various elements you discussed. I will forward you copies of the action items which were generated (by Rick Corben). You will notice there are a number of items on the question of menu interfaces, compatibility for application software across our various products, etc. I suggest you interact with the individuals who have been given the assignments to close the action items.

The other area that I want to address is Visicorp. I am extremely distressed at your behavior with respect to Visicorp. We have entered into an important business relationship with that corporation. This relationship has had support at the highest levels within our corporation. You seem through various memos to call to question our business relationship with Visicorp. I do not recall any serious attempt on your part to discuss these issues with me. Visicorp is not our enemy, Apple (with Lisa) is. We have a business relationship with that corporation which I expect you to respect.

I would like to have a meeting with you within the next month to cover Visicorp. If you are coming to the United States for the Sales Meeting on the week of the 23rd, I would like to set up some time then. If not than I suggest we schedule a phone conference this week or next week. In the meantime, may I ask you to desist from sending memos throughout the company which call to question our business relationship with Visicorp. You can do us and them serious damage with this behavior.

I would appreciate your letting me know by return, if you will be in the United States or if not when the best time would be for me to reach you.

Action Items from Stow II Woods are being forwarded separately.

3-JAN-83 18:12:17 S 03262 MLEM
MLEM MESSAGE ID: 5186760232

"CC" DISTRIBUTION:

DON BUSIEK
ANDY KNOWLES
JACK SMITH

*WIN HINDLE
JULIUS MARCUS

BOB HUGHES
JACK SHIELDS

Interoffice Memorandum

O.C. *AS*

To: see "TO" DISTRIBUTION

Memo: 5313853348COR43

Date: Fri 27 Jun 1986 10:53 AM EDT

From: KEN OLSEN

cc: see "CC" DISTRIBUTION

Dept: ADMINISTRATION

Tel: 223-2301

Adr: MLO12-1/A50*

Subject: COMPLETE BUDGETING OF PROJECTS

CONFIDENTIAL - DO NOT DISTRIBUTE OR COPY

We had a small meeting in the Little Brown House in which we talked about a number of engineering projects. It was quite clear that the attitude of most engineers is that we should engineer as many products as we have engineering money for. There is little responsibility felt by the engineers to finish the projects to the point where they are documented enough for marketing, and almost no feeling for the cost of introducing, marketing and training a sales force on new products.

For example, Jeff Kalb was quiet but showed some irritation over the fact that the engineering budget did not allow him to engineer a number of Q-Bus modules to interface factory or laboratory devices. The Executive Committee properly shut this off because they knew we couldn't go into new businesses without a massive investment in training and developing a whole new sales force. This is particularly true in an area where there are already many smaller companies.

However, we owe it to our managers to have them lay out a complete business plan when they propose new products, so that they are in a position to learn that it is impractical, much too difficult or it takes too much energy to engineer, tool up, manufacture, market, sell and service a new set of products. Most of the time, when people lay out a complete plan for a new product, they will probably realize that the Corporation just can't take on the obligation, but we also owe it to them to have the techniques representing the whole business plan so they can argue when they believe it is a wise thing for the Corporation. When the Strecker Committee makes decisions, they are probably right and wise most of the time, but if it appears arbitrary, we're developing managers who we've never given the opportunity to learn.

KHO:ld

KO:135

Dictated 6/26/86 BUT NOT READ

"TO" DISTRIBUTION:

GEORGE CHAMBERLAIN

JACK SMITH

JIM OSTERHOFF

PETER SMITH

"CC" DISTRIBUTION:

WIN HINDLE*
JACK SHIELDS
RON SMART

IVAN POLLACK
JOHN SIMS
BILL STRECKER

O.C.

I n t e r o f f i c e M e m o r a n d u m

To: WIN HINDLE*
INK::BUREK
ANNE KREIDLER
DONNA MICHAEL
KEN OLSEN
MARK STEINKRAUSS

Memo: 5309552804COR84
Date: Thu 15 May 1986 10:00 AM EDT
From: BUREK
Dept:
Tel:
Adr:

Subject: IEEE COMPUTER SOCIETY AWARD

The following release will be issued to all local, business and trade press on Tuesday, May 20.

Mary Ann Burek
617/264-1549

IEEE COMPUTER SOCIETY PRESENTS FIRST
COMPUTER ENTREPRENEUR AWARD TO KENNETH H. OLSEN
OF DIGITAL EQUIPMENT CORPORATION

CAMBRIDGE, MA -- MAY 20, 1986 -- The Institute of Electrical and Electronics Engineers (IEEE) Computer Society today presented the 1986 Computer Entrepreneur Award to Kenneth H. Olsen, President, Digital Equipment Corporation.

The presentation was made by Dr. Ming T. Liu, Vice President, IEEE Computer Society, at the International Conference on Distributed Computer Systems, held in Cambridge, Massachusetts.

The prestigious award, presented this year for the first time, was established to "recognize and honor technical managers whose outstanding leadership developed the growth of some segment of the computer industry."

Kenneth H. Olsen was chosen to be the recipient of the first Computer Entrepreneur Award for "having pioneered the development of small computers, and for his foresight in the founding of Digital Equipment Corporation, which began with three individuals in 1957, and has grown to become the world's leading manufacturer of networked computer systems."

#

CORP - 351

Op. Com. Ken Swanton Jack Shields

To: KEN SWANTON

Memo: 5302370663COR63
Date: Tue 4 Mar 1986 2:39 PM EST
From: KEN OLSEN
Dept: ADMINISTRATION
Tel: 223-2301
Adr: MLO10-2/A50*

cc: see "CC" DISTRIBUTION

Subject: LONG RANGE PLANNING

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I believe long range planning shouldn't be a wish list of all the things we would like the company to be in the future. Instead, it should be a model of the company at each step that shows the weaknesses, stupidities and inconsistencies of our dreams.

I would like the long range plan to be based on the salesman. We should decide how many different categories of products we'll sell and assume we'll have a separate sales force for each one. Then for each year we should spell out what we think should be in his bag of products. We should then decide how many months of the twelve he should spend in school so he is able to sell those products and do all that is necessary to take care of the customer. We should also decide how big his bag has to be to take along all the catalogs and how much help, or how simple the product lines will be so he can quickly, easily and efficiently make the sales.

We should add up how many salespeople it is going to take and the sales cost for the dollar volume we expect on each piece.

Then we can go backward and figure out what it will cost to engineer that bag of products, what it will cost to manufacture them and all the other costs of supplying the salesman.

I think we are way beyond just wishing for products or paying engineers to develop them and just assuming that the sales and marketing will take care of itself. Our Long Range Plan should assume that salesman and marketing are the leading factors in growth. We should plan these in detail and the other factors in the plan will then fall into place.

KHO:ld
KO5:S4.63
DICTATED 3/3/86 BUT NOT READ

"CC" DISTRIBUTION:

WIN HINDLE*
IVAN POLLACK
JOHN SIMS
JACK SMITH

JIM OSTERHOFF
JACK SHIELDS
RON SMART

Interoffice Memorandum

H.A.
O.C.

To: see "TO" DISTRIBUTION

Memo: 5308769882COR74

Date: Wed 7 May 1986 3:35 PM EDT

From: KEN OLSEN

Dept: ADMINISTRATION

Tel: 223-2301

Adr: MLO10-2/A50*

cc: JEFF KALB

Subject: SEPARATE TERMINAL BUSINESS

CONFIDENTIAL - DO NOT DISTRIBUTE OR COPY

In a closed session, before we meet on the budget, I'd like to give a test to the Executive Committee and ask how today's budget breaks down compared to the budget ten years ago. If we put all marketing together, all engineering together, and all manufacturing together, we could try to determine the trend of the ratios.

Then I'd like to ask, now that we are selling more directly and we are giving a lot less discounts to the people who build the systems and finish the products, what should the model of our business be? I assume that those jobs which we used to pay the OEM's to finish that we now pay ourselves and that the marketing and selling the OEM's used to do that we now pay for ourselves are somewhere. I also assume that we have to, very carefully, separate the OEM part of our business from the end user part to make sure we use the appropriate model in each.

I'd also like someone to discuss the possibility of a separate terminal business. This would only be on paper, but we would allocate only the cost to one very high-production, simple terminal and run it as if it made no contributions to VAX development, VAX inventory, large disk development, or clustering development. This way we would have a business that could compete directly with the terminal manufacturers on the terminal manufacturers terms. This company could have mail a order business that, at a very low price, could mail for next day delivery, terminals anywhere in the United States that could just be plugged in and used. I believe this could make a very good profit.

Some people argue that the Terminal group should pay their share of VAX development. The result is that we loose the terminal business and we get nothing. By claiming you made a commodity you have to run it like a commodity business.

This further means that the Terminal group will not have 10 percent of their NOR to spend on hobbies, but they will have to concentrate just on the engineering for one product, and because it's made in a large quantity the engineering cost should be low. They also can't spend their marketing dollars on many hobbies because the marketing cost will also be concentrated on one terminal, and because the number is large, the marketing cost should be low.

KHO:ld
DICTATED 5/7/86 BUT NOT READ

"TO" DISTRIBUTION:

WIN HINDLE*
IVAN POLLACK
JOHN SIMS
JACK SMITH

JIM OSTERHOFF
JACK SHIELDS
RON SMART

O.C. [Handwritten signatures]

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I n t e r o f f i c e M e m o

TO: JIM OSTERHOFF
JACK SMITH
cc: see "CC" DISTRIBUTION

DATE: TUE 12 NOV 1985 10:24 AM EST
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

MESSAGE ID: 5291180374

SUBJECT: OVERHEAD STRUCTURING IN MANUFACTURING

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Our engineers are frustrated by the overhead structure we have in Manufacturing. It seems that, regardless of what we do for design, there is nothing we can do to become more competitive in our manufacturing. The only hope seems to be to have our products manufactured outside, where we don't have the terrible overhead structure.

Before the Board of Directors asks us about our manufacturing overhead, (which they may do at any time), please come to the Executive Committee and explain exactly what is going on in this area.

The Skunkbox backplane, which is to be made in Kanata has an overhead of one-hundred dollars per hour. This is a project that we worked awfully hard on to make straightforward, and inexpensive. It seems that all the effort (and I put in quite a bit of my own time on this project), was in vain. If we had made a very complicated, and very expensive backplane that we couldn't make at Digital at all, it would have been cheaper than making a very simple unit that we want to make in Kanata.

If we want to have our engineers work effectively, we are going to have to give them some rules, and some overhead figures which are meaningful.

KHO:mt
K05:S2.21
DICTATED 11/12/85 BUT NOT READ

"CC" DISTRIBUTION:

- WIN HINDLE
- JOHN SIMS
- IVAN POLLACK
- RON SMART
- JACK SHIELDS

O.C. *[Handwritten signature]*

! ! ! ! ! ! ! !
! d ! i ! g ! i ! t ! a ! l !
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I n t e r o f f i c e M e m o

TO: JIM OSTERHOFF
cc: see "CC" DISTRIBUTION

DATE: MON 14 OCT 1985 10:09 AM EDT
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

MESSAGE ID: 5288271467

SUBJECT: SAVING MONEY AND MAKING MONEY

VERY CONFIDENTIAL - DESTROY AFTER READING -

We have an infinite number of areas to save money in, but the Financial people only tend to concentrate on the big projects that are important to the Company. I would like to concentrate on the unimportant ones to save money on, because constantly trying on the important ones I don't believe we are investing in marketing as we should.

Our key products are Networking, MicroVAX and 8600. Please prepare, for the next Executive Committee discussion, a chart showing how much we invest in marketing, training, and advertising these key products.

I am afraid we are in a situation of hurting badly because we do almost no marketing for the key projects; we have concluded we won't spend money there because it will hurt profits. We are piling up cash and starving for marketing and not making good products because we don't market.

In our fight to drive to save money, IBM may overwhelm us in a matter of months, and we will have to explain that we lost the fight because we were saving money to help profits.

KHO:ml
KO5:S1.44
DICTATED BUT NOT READ

"CC" DISTRIBUTION:

GEORGE CHAMBERLAIN
BRUCE RYAN
RON SMART

*WIN HINDLE
JACK SHIELDS
JACK SMITH

IVAN POLLACK
JOHN SIMS

O.C.

! d ! i ! g ! i ! t ! a ! l !
! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !

I n t e r o f f i c e M e m o

TO: CORP PROJECT STAFF:
JACK SMITH
cc: see "CC" DISTRIBUTION

DATE: MON 23 SEP 1985 9:17 AM EDT
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

MESSAGE ID: 5286162816

SUBJECT: REVIEW OF PLANS AT EXECUTIVE COMMITTEE MEETINGS

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A number of months ago I asked that plans be reviewed at every Executive Committee meeting so that each plan is reviewed at least once each quarter, and, therefore, once a month.

I also asked that people propose what incremental income they could get for incremental expenditures. I believe I asked that these decisions be made by the Executive Committee, and these incremental plans be reviewed each month.

At tomorrow's Executive Committee meeting I would like the first agenda item to be a review of my requests, and an explanation as to what happened to them.

I would feel very offended if the staff felt that they had to agree on decisions before they let me, and the Executive Committee, consider them.

KHO:mt
K04:S12.85
DICTATED 9/23/85 BUT NOT READ

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JOHN SIMS

JIM OSTERHOFF

JACK SHIELDS

O.C. *[Signature]*

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I n t e r o f f i c e M e m o

TO: PETER SMITH
cc: see "CC" DISTRIBUTION

DATE: WED 4 SEP 1985 8:52 AM EDT
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

MESSAGE ID: 5284253583

SUBJECT: TROUBLE IN THE SALES DEPARTMENT

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We are now experiencing a high rate of complaints. Our salesmen are not answering inquiries, and they don't spend the time that the potential customer expects. I would like you to make a brief study of the situation.

We can say "Salesmen should be better trained, and they should be better organized to cover all inquiries." However, it may not be that easy. The salesmen and sales managers have two conflicting pieces of advice. The first is: concentrate your effort on those customers who will pay off the quickest, and the most easily. The second is: be sure that you contact everybody who is interested in our equipment.

Please come to the Strategy Committee meeting on September 9th and outline the questions, and then come on September 30th with tentative answers. The questions are:

1. If we limit the size of our catalogue from 80,000 items to a few dozen, how much business would we lose because we didn't try to sell all 80,000? How much would we gain because a salesman would thoroughly understand, feel at ease, and feel confident with the few dozen that we do leave in the catalogue?
2. If we give the Sales Department a list of those applications for which we have competitive solutions, and recommend that they graciously turn away customers who should go elsewhere, how many more orders would we get because the salesmen will have time to spend on customers with problems that we can solve?
3. How many pieces of literature does a field office have today? How many would a salesman have to carry in order to sell our product line?
4. How much business would we lose, and how much business would we gain, if we concentrated our whole product line in one set of literature that a salesman could carry easily in his briefcase?

5. If we concentrated our sales pitch on a tutorial non-sales video cassette for each of our major product pitches, how many cassettes would it take? How would this ease the salesman's load?
6. Do we have something like a decision tree for each salesman for each type of application? Does a salesman spend more time dancing around the problems we can't solve, or can't solve efficiently, than he does some of the problems we can solve? Are we reluctant to lay out exactly what we can do in a decision tree format, because we would have to identify the things we cannot do well?

On September 30th, please have someone like Henry Ancona make a presentation on what a decision tree would be like for Electronic Mail. Suppose there were 4-6 questions like:

1. Number of users: 10, 100, 1,000, 10,000, 100,000
2. Does the customer want the following application package:
 - a. Electronic Mail or Word Processing
 - b. a plus common budgeting
 - c. a and b plus controlled redistribution of total budget
 - d. a,b,c plus controlled access to various databases
 - e. Mail lists
 - f. Data entry
3. Will the customer use:
 - a. All DECmates
 - b. All PC's
 - c. Combination of PC's and DECmates
 - d. A motley collection of whatever happens to be in the organization
4. Are all stations:
 - a. In the same building
 - b. In the same campus
 - c. In the same country
 - d. On the same planet

Please don't obtain this information by asking the salepeople. Their professional pride makes it impossible for them to answer. They dislike having to admit that they can't sell something even though they don't understand it. They are always very conscious of the order they lost because we didn't have a fast FORTRAN engine, and some of them are proud of a few obscure items in our catalogue that they know about that no one else knows about.

Instead, analyze it from a more direct common sense point of view. Just what is the workload of the job we impose upon the

salesmen, and can it be done? What is the optimum workload to get optimum results?

If you ask the salespeople they will say more training or less training will help. But, a common sense engineering approach would say that zero weeks of training is not enough, and fifty-two weeks is too much. We know, without interviewing, that zero and one-hundred percent are the minima, and we have to find the approximation of where, in between, the maxima lies.

KHO:mt

K04:SECT12.34

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STRATEGY COMMITTEE:

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I n t e r o f f i c e M e m o

TO: see "TO" DISTRIBUTION

DATE: TUE 3 SEP 1985 12:47 PM EDT
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

MESSAGE ID: 5284153119

SUBJECT: INTEGRATING MARKETING INTO "THE ONE COMPANY"

CONFIDENTIAL - DO NOT DISTRIBUTE OR COPY

I am so pleased at how the cooperative spirit of the Company has developed in the last few years. We are, to a large degree, one Company with one strategy and one message, except in Marketing.

This long weekend I cleaned and started to ^{throw} through away many expensive, heavy glossy magazines, generalized vague pieces of literature, and proposals made by marketing groups. In doing so, I got the very distinct and clear feeling that each of the marketing groups feels that they are independent of the Company, and definitely in competition with the other marketers, and that they measure themselves on their ability to make more expensive magazines than anyone else in the Company. The content of the literature and magazines is inversely proportional to the expense of the paper, and the quality of the printing job.

The party line I expound for the Corporation is that we sell the same hardware, the same software, and the same integrated networking approach to the Office, the Department, the Small Business, the Factory, and the Laboratory. One surely doesn't get that feeling from the magazines and literature marketing produces.

We pronounce the theory that marketing's job is to make selling and purchasing easy, efficient, and interesting. The vague, glib promises made in our literature surely doesn't contribute to that goal.

At the November Woods meeting I would like each of the marketers there. We should set as a goal that we will have one integrated marketing pitch that we can present to all customers, and also, in an organized way, a separate pitch that we can have for each application.

Please start now organizing people to work the problem so that at that November Woods meeting we will have one pitch and one magazine (and catalogue). At that time, we should also have the detailed sales information for each application in a form that will be easy and efficient for the purchaser and the salesperson, and that will be fun and exciting.

If at all possible, I'd like to make the theme of the Annual Report "One Company, One Message, One Strategy", and present all of our marketing pitches in this context.

KHO:mt

K04:SECT12.33

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RON SMART
STRATEGY COMMITTEE:

O.C. [Signature]

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I n t e r o f f i c e M e m o

TO: JIM OSTERHOFF
cc: see "CC" DISTRIBUTION

DATE: FRI 23 AUG 1985 3:45 PM EDT
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

MESSAGE ID: 5283049225

SUBJECT: OVERHEAD AT DIGITAL

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I don't want to announce that we will cut out 10,000 overhead jobs, as Ford has just done. However, I would like to concentrate our cost savings in overhead areas and in project and production areas.

For years, our Accounting has concentrated on systems that added up correctly and the systems that helped manage groups. We averaged overhead so that managers felt no obligation to be economical with facilities and equipment. For this reason, they quite commonly turned in old furniture, terminals, and computers for the latest models because it had no affect on their budgets. The Financial Department seemed to feel that it was my job to teach people, "to do right," even though there was no motivation from Accounting. I only know how to do this by using Accounting.

I would like to re-do our Accounting system so that all the motivation to be economical and to make profit are available to each manager, at all levels.

I would like a committee of Senior Controllers to lay out a plan so that each manager will have available to him the overhead data he needs to manage his operation. When he has this information, and it is available to his superiors, the pressure to be economical will be very clear.

Once a month, I would like this committee to report to the Executive Committee on how they are doing. Then, I would like to spend a whole WOODS day deciding just what we should institute.

KHO:ml
K04:S12.10
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KEN SENIOR
RON SMART

JACK SHIELDS
JACK SMITH

JOHN SIMS
KEN SWANTON

O.C. *[Handwritten signatures]* Aug 19 1985
1300

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I n t e r o f f i c e M e m o

TO: see "TO" DISTRIBUTION
cc: see "CC" DISTRIBUTION

DATE: MON 29 JUL 1985 11:03 AM EDT
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

MESSAGE ID: 5280535273

SUBJECT: ENGINEERING PRESENTATION TO AUGUST 19TH BOD MEETING

CONFIDENTIAL - DO NOT DISTRIBUTE OR COPY

For some time now, we have planned to take the whole August Board of Directors' meeting for the Engineering budget, the approval of Engineering plans, the approval of those things which we are doing, but never brought to the Board of Directors before, and a general review of Engineering.

The first presentation should be a detailed organizational chart showing how things fit together, how much money we put into each group in the last five years, what products we have gotten out, and what profit we made on them, with some indication of how well we feel each group has managed.

We should also make a presentation showing what products we have put into production the last six to twelve months, and those we plan to get into production the next six to twelve months. We should indicate how much went into research, how much went into getting ready to manufacture, what the total cost will be for each project, and what the approval status is for each product. There should be some indication as to how the cost of engineering for these products, and the other costs add up to the total budget. Hopefully, the engineering going into our products in any one year add up to a reasonable percentage of the total Engineering budget in that year.

It might be very worthwhile if we make a plot for the past five years, and two to five years ahead, and show what the Engineering budget was, how much of that went into products that went into production that year, how much went into supporting old products, and how much went into the future investments. I think all budgets should be for several years in the past and several in the future, and they should all be in the same format.

I'd like to recast the Engineering budget as if each of these groups were a division or a separate company, into the following categories:

- 1. "ETHERNET and other Networking" - These two should be separated so that we see how much we are investing in the general ETHERNET, and how much for the somewhat specialized

things for specialized customers. I'd like these numbers presented as if each of these groups were a division, or a separate company.

2. "VAX/VMS products", which includes the hardware and the software.
3. "Other computers", which are 11'S, PPA, Real Time, maybe a UNIX, maybe a LISP, maybe a super computer in the future. This category is separated from the others so that decisions are made on incremental return for incremental investment. Each computer in this category should be considered a separate business. The cost of its hardware development, peripherals, software development, documentation, and everything else so we can evaluate the decisions and justify them to ourselves, and to the Board of Directors individually.

For the "other computers" let's present the figures two ways. Let's present them assuming that all the disks, storage, packaging, and other services done for VAX/VMS are free to a new computer because this is the way we can evaluate the decision to make one more computer or not. Let's also present the figures assuming they pay their fair share of these other machines, because this is the way we evaluate the quality of results afterward. It might be very good business to do one more additional computer because it cost the Company very little additional money to do it, and the additional profits may overwhelm the additional resources invested.

4. All the common products such as disks, memories, etc.
5. We also should make a pass at our research projects. We should be particularly careful in identifying how much we invested in each group, and what results have come out of the groups that have been of use to the Company. There are probably projects outside the research group that should be included in this category. We should include in this group, work done on the "architecture of the future".

We then should present the Engineering budget for next year to the Board of Directors in quite a bit of detail.

KHO:mt
K04:SECT11.62
DICTATED 7/29/85 BUT NOT READ

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I n t e r o f f i c e M e m o

TO: see "TO" DISTRIBUTION

DATE: FRI 26 JUL 1985 4:55 PM EDT
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

cc: see "CC" DISTRIBUTION

MESSAGE ID: 5280234964

SUBJECT: INDEPENDENT BUSINESS UNITS/NEW BUSINESS OPPORTUNITIES

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I believe that we do not have the growth potential in the traditional Digital business.

I would like to break the Company into two pieces. One would be the independent business units that run VMS products and components for Ethernet. The rest of the Company I would like to call New Business, which would not be limited by the engineering budget for the mainline part of the Company. In general, these new businesses should be products that can be integrated into Ethernet, but will not be limited to our usual way to computing.

Some parts of the independent business units should be UNIX machines, LISP, super computers, fast data rate computers, and machines optimized for certain types of problems.

Each of these machines and products should have their own business plan, balance their investments in research, software, marketing, literature, education, and so forth, with the profit that they will make. Sometimes, they will make a hardware product, and sometimes, they will show how someone else's products can be hooked to Ethernet.

K04:S11.61
(DICTATED 7/26/85 BUT NOT READ)

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I n t e r o f f i c e M e m o

TO: see "TO" DISTRIBUTION

DATE: MON 22 JUL 1985 2:23 PM EDT
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

MESSAGE ID: 5279831898

SUBJECT: ONE COMPANY, ETC.

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When we say "One Company, One Strategy, One Message", people have come to believe that this means that all we do is VMS, and we have to have every possible CPU unit that one could chart out to do VMS.

It, of course, doesn't mean this. It simply means one strategy.

The "One Company Strategy" could say that, in addition to all VMS type applications, we want 70% of all terminals, 60% of all UNIX machines, 70% of all network to PC's.

One example of inconsistant strategies that seems to bother no one is shown in the Networks group. They have set a strategy which seems right to them, because they always did set the strategy, which says that the highest priority is to make all our products industry standard. They think I'm an absolute heretic because I'd like to use all our R and D effort to give us a competitive advantage. I think it's obvious that if we do well there will only be ourselves, American Telephone, and IBM. If we don't do well there will just be American Telephone, and IBM, and it's clear they will not pick our R and D results as industry standard. If we wait to make our products industry standard, or wait until it is an industry standard, we will delay any advantage we have with respect to these two, and give all of our advantages away to Data General, Prime, and Hewlett-Packard.

However, talking to the Newtworks group is like talking to a Shi'ite who believes that dying for his country is the highest calling, and he will do anything to die for his country.

Now, I belive that dying for ones country can be useful, and it is sometimes the duty of a person to do so, but I'd like to make sure, before I die for my country, that it has a possibility of being useful, and that it isn't an end in itself.

At times, making our products industry standard is useful, and sometimes we should do it for the good of the world, or for our good, but, like dying for ones country, it is not, in itself, an

absolute goal.

Right now the Networks group, if not as a whole, at least in parts believe just the opposite from the strategy I have been propagating for the Corporation. I believe the results of our R and D should be used as a competitive advantage and for the good of the Company. They believe we should wait until we can make it an industry standard, and I feel this is an example of not having one strategy.

If we set about to get a large fraction of the terminal business, not all of which is doing VMS, I don't think that is an example of inconsistent strategy as long as we make it the Corporate strategy.

KHO:mt

K04:SECT11.33

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I n t e r o f f i c e M e m o

TO: JACK SMITH
cc: see "CC" DISTRIBUTION

DATE: FRI 19 JUL 1985 12:23 PM EDT
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

MESSAGE ID: 5279530837

SUBJECT: ENGINEERING BUDGET PRESENTATION TO THE BOD

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The Engineering Budget is a concise statement of the Corporate strategy for the next several years. I'd like to take the whole Board of Directors meeting in August to present this budget. I would take the whole Executive Committee meeting on the 30th of July as the first pass of this presentation, and save a good part of the meeting on the 6th of August for the parts we want to redo.

I'd like to break this into several parts which we will define as we go along, and probably will redefine after the July 30 meeting.

First of all, I'd like to lay out all the machines that we are planning to go into production on a timescale with the engineering investment, the capital inventory investment, and the number of units, the volume, and profit we propose to get from these. The same chart should also include the income from memory storage, terminals, service, ect., in order to be complete. We can't wait to make a thorough, detailed, and precise presentation on this, but what we had in our heads when we picked the budget, in quite rough approximation, would give the general picture of what we're proposing.

Next, we should breakdown the market for computers by size each of the next five years, and indicate how much of each size computer is available to VMS type machines so that we can indicate how successful the Corporation will be in the next five years.

We should then breakdown the budget by component, for example: How much is going into research, and what do we expect out of the research? How can we report to the Board of Directors on its results? What has been the investment and the results from research in the last five years?

We can indicate how much of engineering does have goals that can be measured.

We, in particular, should propose measurement for our investments

in things like networking. We've been accused in the past of measuring our success in how difficult a job we can accomplish, and showed little interest in competitive attitudes such as: What percentage of the market would we get? How much money would we make? Do we concentrate first on getting the easiest part of the market?

I don't think that the Budget Committee had precise estimates for these questions during the budgeting process. But, they did have ideas in their heads, and I think that we have to put numbers on these ideas before we present them to the Board of Directors.

"One Company, etc", does not mean one software system, it means one strategy, and one business plan which is integrated across all parts of the Company, in which all parts of the Company know their part and do their part.

KHO:mt

K04:SECT11.29

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I n t e r o f f i c e M e m o

TO: see "TO" DISTRIBUTION

DATE: FRI 19 JUL 1985 11:44 AM EDT
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

MESSAGE ID: 5279530805

SUBJECT: ENGINEERING BUDGET AS KEY FACTOR IN CORPORATE STRATEGY

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I don't seem to do very well in explaining why I don't think that squeezing the engineering budget into an arbitrary number is the business-like way of fixing the strategy of a large corporation. Corporate strategy should be an Executive Committee issue and a Board of Directors issue. It should be much broader than how many central processors we can squeeze into the Engineering Budget, and what other products have to be left out in order to accomplish this.

We probably should look at all the central processors we are building, and put what the total market is for these in the next five years. Then, assuming that we will get a significant share of each of these markets, we should decide if the NOR and profit is going to be big enough to support the Company we think we should be.

I think this is a real problem today, and I don't think we are facing this as we make these key future strategy decisions.

I believe that today, with MicroVAX, Digital alone can make all the super mini-computers that the world needs, and that in a short period of time with C-VAX, Digital alone can take care of most of the computing the world needs, and we won't get very much money for it.

This means that we have to look into other areas which we are or should be expert in. If this is limited by the view of the zelots for CPU's, we may be getting into very serious problems in the future.

The traditional approach to this problem is to ask each of the business units in the Corporation to propose to senior management and the Board of Directors when businesses, or expansion of present businesses can give the Company the growth it desires.

I propose that we look at our planning from a much broader point of view and say that our problem is getting new products that will make the Company grow, and is not eliminating products so that we can get more and more of the same kind of central

processor.

KHO:mt

K04:SECT11.28

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Handwritten initials/signature O.C.

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I n t e r o f f i c e M e m o

TO: see "TO" DISTRIBUTION

DATE: FRI 12 JUL 1985 3:49 PM EDT

cc: EDWARD A. SCHWARTZ

FROM: KEN OLSEN

DEPT: ADMINISTRATION

EXT: 223-2301

LOC/MAIL STOP: ML10-2/A50

MESSAGE ID: 5278827503

SUBJECT: ENGINEERING BUDGET AND THE BOARD OF DIRECTORS

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We have not yet had the Engineering budget approved by the Executive Committee and the Board of Directors. I'd like to plan the August Board of Directors' meeting on being largely a product plan for the next two or three years, and we'll present this in the form of the Engineering budget.

I'd like to prepare for this in three steps. First of all, I'd like the Engineering budget presented in the next week, or so, to the Executive Committee, showing what each group spent last year, and what the new proposed budget is, and then chart this out relative to what products are making money this fiscal year, and what products we expect to make money the following fiscal year. It is feared that the budgeting process cut out the best organized products because they were easy to handle, and left in that large number of tiny things and research projects which were hard to get a handle on. It is, therefore, important that we prove to ourselves that the Engineering budget is aiming toward the products we need, and not all that large number of things which we can't get a handle on.

The next step would be, I'd like to have the Engineering staff and the Marketing staff get together and organize a chart for the Executive Committee which we will then present to the Board of Directors, that will show those products which marketing plans say are important next year, the year after, and maybe the year after that. What marketing group needs, what specialized CPU, what specialized networks, what kind of terminals, and what kind of software are needed? How does this map into our Engineering plans?

For those areas which we spend on "research", let's spell out what we expect to get, how much we expect to pay for it, and justify investing in some of the groups by seeing what we've gotten in the past.

KHO:mt
K04:SECT11.6
DICTATED 7/11/85 BUT NOT READ

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I n t e r o f f i c e M e m o

TO: *WIN HINDLE

DATE: MON 1 JUL 1985 5:56 PM EDT
FROM: TOM STOCKEBRAND
DEPT: SOUTHWEST ENG
EXT: 552-2551
LOC/MAIL STOP: ABO/A1

MESSAGE ID: 5277722430

SUBJECT: "MANDATE" NOTE (LATEST EDIT)

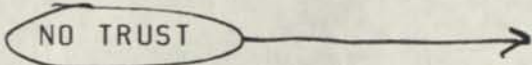
There is a big problem with "Mandate Memos" (such as "No outside hiring", "Wage freeze" etc.) now that the means to communicate them is instantaneous. They hurt the people who are running a tight ship and relatively help those who have been out of control. We have come away from our trust relationship with our people.

These memos are written out of frustration by upper management with some intractable condition that exists with the expectation that the underlying problem will surface and be worked properly. But most of the time the mandate is NOT accompanied with a statement of that problem. Often the mandate memo is forwarded company wide by subordinates and becomes absolute immediately even though it usually says, "...unless exceptions cleared thru me". Policies promulgated like this are don't get rescinded and after awhile become a joke.

--One should state the problem, not the solution, in the expectation the solution is different in different areas:

TRUST

NO TRUST



"We need to cut the budget 10%"
"We are 35% over in headcount"

"Hiring Freeze"
"No Travel"

I recognize the frustration that leads to these mandates but blanket prohibitions, retransmitted verbatim, hurt only those that have been doing a good job because they are already operating tightly. If a blanket prohibition seems necessary, then it should apply to ones the DIRECT REPORTS only and not be forwarded down by them to their subordinates except over their own signature, not as a note from the big boss.

The place to establish controls with ones own direct reports, not with those below them.

CONCLUSION:

State in all "Mandate type" memos that if they are to be forwarded they must be rewritten over the signature of the recipient. However, the ISSUE or the problem CAN/SHOULD be transmitted onward. The obvious thing to do is not write Mandate memos in the first place but rather "Problem statement" memos and make the mandates verbally to the direct reports, along with statements of the consequences of non-compliance. Then the people lower down can forward the memos without comment all THEY WISH.

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~~Handwritten scribbles~~
O.C. Interoffice Memo

TO: JIM OSTERHOFF
cc: see "CC" DISTRIBUTION

DATE: THU 27 JUN 1985 10:19 AM EDT
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

MESSAGE ID: 5277319305

SUBJECT: DISCOUNT POLICIES AS A PROFIT DRAIN

CONFIDENTIAL - DO NOT DISTRIBUTE OR COPY

We've dealt with discount policies in which we gave the discounts at the beginning of the year based on what the customer promises he will buy. If he doesn't take this, we often don't claim the discount which belongs to us. This was not part of the plan, and it is not presented when the discount policies are proposed.

I believe it is the responsibility of the Finance Department to enforce these discount policies. It is ridiculous to leave up to the individual salesman, sales manager, marketing manager, or marketing vice president the decision to forgive discounts. I think the controller's function should make sure that, if our policy says, people get a certain discount for a certain quantity, it should be enforced, or a written, public stated policy should be presented which says, we forgive all discounts not earned.

The first of this fiscal year, I'd like you to be sure that all new contracts, or renewed contracts are done with the understanding that discounts will be given as they are earned. People must have a clear understanding that unearned discounts will be returned to the Corporation at the end of the year. If there is any other policy, I think it should be formally presented to the Executive Committee, and formally approved.

Marketers, sales people, and sales managers love the opportunity to negotiate, and talk, and earn their keep by spending time with the customer over an infinite amount of detail. This is what makes our sales expensive and difficult, and this is what ties up our senior people who are able to talk with customers. When I say I want automated sales, I mean that sales contracts and discounts are so straightforward that there are no negotiations, and no "control of the situation".

The policy should be clear, approved by the Executive Committee, and enforced by the Finance Department. This should not be left to MSSC, Jack Shields, or Ward MacKenzie.

KHO:mt
K04:SECT10.53

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DICTATED 6/27/85 BUT NOT READ

"CC" DISTRIBUTION:

*WIN HINDLE
RON SMART

JACK SHIELDS
JACK SMITH

JOHN SIMS

O.C.

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I n t e r o f f i c e M e m o

TO: WIN HINDLE
JIM OSTERHOFF
cc: see "CC" DISTRIBUTION

DATE: MON 13 MAY 1985 2:55 PM EDT
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50
MESSAGE ID: 5272885610

SUBJECT: BUDGETS

CONFIDENTIAL - DO NOT DISTRIBUTE OR COPY

The budgeting process has always been the vehicle for assuring that we have a consistent, rational organization and business plan. This is the only vehicle which ties everything together. The people who run the budget have an enormous obligation, because it is through the budget that we have a check on all the pieces of the Company, and identify weaknesses that have to be taken care of.

Over a period of time, the people doing the budgeting took on much too much authority. The result was that the people who had business responsibility left that with the budgeters to take care of and they did not know what was going on in the areas they were responsible for.

I am afraid we have gone too far in the other direction. Now, the controller's function believes: I have control of everything that is going on in the Company and they budget without critically looking at the organization. Or, if they are critical, they won't tell me.

I have no other way of looking at the Company except through the budget. Projects that are not budgeted, consistent, wise, or that are duplicated, I am unable to see unless the budgeting system points them out.

At the Executive Committee meeting please review the question, "What parts have the budgeting system pointed out that should be taken care of, and, are all parts of the budgeting system playing the part that is necessary to tie the Company together?"

There is one weakness in our budgeting system as identified with some marketing and engineering groups. Those who have their major projects approved have alot of freedom in how they spend money on side issues, experiments, explorations, etc. Those whose major budget does not get approved, even though it might be

much more important than the experiments and probes done by the approved groups, get nothing. There are large areas of the Company that do not work very hard, and who do not see that they have particular goals and who go home early, whose budgets get approved, while other areas can not get money. The budgeting system should identify these areas rather than hide them.

KHO:mt

K04:SECT9.57

Dictated but not read

"CC" DISTRIBUTION:

JACK SHIELDS
JACK SMITH

JOHN SIMS

RON SMART

O.C. ~~W~~ ~~W~~

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I n t e r o f f i c e M e m o

TO: see "TO" DISTRIBUTION

cc: EDWARD A. SCHWARTZ

DATE: FRI 12 APR 1985 11:24 AM EST
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

MESSAGE ID: 5269761364

SUBJECT: BURDEN ON PROFITS

The biggest burden on our profits comes from inefficiencies in Sales with our:

- 1. complex discount policies
- 2. complex legal contracts
- 3. complex products
- 4. complex order processing

I want you to explain to the Board what we are doing about this.

KHO:m1
KO4:S9.4
DICTATED BUT NOT READ

"TO" DISTRIBUTION:

*WIN HINDLE
JACK SMITH

JIM OSTERHOFF

JACK SHIELDS

O.C.

! d ! i ! g ! i ! t ! a ! l !

I n t e r o f f i c e M e m o

TO: JACK SHIELDS

DATE: THU 21 MAR 1985 11:13 AM EST
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

cc: see "CC" DISTRIBUTION

MESSAGE ID: 5267539680

SUBJECT: ORGANIZATION OF SALES DEPARTMENT

CONFIDENTIAL - DO NOT DISTRIBUTE OR COPY

I'd like to simplify the Sales organization. The Area Managers are overworked and there is too much for them to do. I don't think having fewer Area Managers solves the problem. I believe that there are too many levels of management below the Area Managers and that they are involved in all the planning and decision-making, but don't have much to contribute. For instance, I suspect that all levels pass off on every budget, which makes no sense.

I propose a simplified organization for the U.S: three Area Managers, thirty districts, three-hundred offices, and three-thousand Sales Representatives.

It won't work out this neatly, because we don't have three-hundred offices, and some of the larger offices need layers of management. However, from a Corporate point of view, this model has a simplicity that is easy to remember.

I would then set up two separate industry marketing groups that would service all the present Sales organizations. I would designate one man for every one of the lines in Bob Hughes' chart or, maybe, one man to handle two or three lines. We would probably have twenty or twenty-five high-level people each managing the marketing of a particular industry.

The industry marketers perform a service. They do not have rights or authority, and they will not tell the Field what to do. They serve by identifying for each office what companies they should sell to that fall within their particular industry. They will supply all the helps and aid, and, if they are successful, each office will take care of each company that they identify.

KHO:mt
K04:S8.36
DICTATED BUT NOT READ

"CC" DISTRIBUTION:

*WIN HINDLE

KEN SENIOR

JOHN SIMS

JACK SMITH

MAR 21 1985

O.C.

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I n t e r o f f i c e M e m o

TO: JIM FLANAGAN
WIN HINDLE
DAVE PACKER

DATE: THU 21 MAR 1985 11:07 AM EST
FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

MESSAGE ID: 5267539663

SUBJECT: BOD PRODUCT INFORMATION

CONFIDENTIAL - DO NOT DISTRIBUTE OR COPY

Please re-cast your figures and your studies so that we can answer the questions that the Board asked. They are: "Why are we going to make money on our new products when we didn't on our old products?" And, "Why will we make money on the new PC we are doing next year?" Also: "Why will we make money on the long list of VAXes we will have next year?"

How much extra money will we make with each of the new VAXes we introduce next year, and what is the investment and extra return we will get from that investment?

Of the hundreds of products we introduce next year, of the worst 30%, what return will we get on: inventory, training, Sales time, etc.?

The Board will undoubtedly ask: Do we have one person responsible for each major product, or, do we have parts of each product's responsibility spread around on the lists of very busy people? They will also want to know if half-interested committees, with no responsibility, run the products.

If we break the Company by business, such as: Dealers, Stores, TOEM, COEM, Small Business, Office, how much did they make last year? Why will they make a lot more this next year?

Are we pricing our products by component, each one competitive with the component supplier? If so, can we get our software and system investments back?

What percentage of a system that we sell because of our software do we lose to component suppliers? How often do our OEM's force us to lower our prices because they compete with us?

Will our salesmen, marketers, customers, and vice presidents feel the product lines are simpler to sell and easier to understand at

the end of next year? Will selling be easier? Will we have fewer magazines, fewer pieces of literature, and less red tape?

Etc.

KHO:m1

K04:S8.39

DICTATED BUT NOT READ

O.C. [Signature]

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I N T E R O F F I C E M E M O

TO: STEVE TEICHER

Date: 3/12/85 Tue 8:56

CC: WIN HINDLE
JIM OSTERHOFF
JACK SHIELDS
JOHN SIMS
JACK SMITH

From: Ken Olsen
Dept: Administration
MS: MLO10-2/A50 Ext: 223-2301

SUBJ: COMMITTEE UPDATE/REVIEWING SYSTEM FOR 2 MAJOR PARTS CORP.

VERY CONFIDENTIAL - DO NOT DISTRIBUTE OR COPY

I've asked Win Hindle and Jim Osterhoff to co-chair a committee to build a model and a budgeting and reviewing system for the two major parts of the Corporation. These parts are OEM and related products and MIS products. If you have ideas on a model that will make financial sense by selling large numbers of Micro-VAX chips, I'm sure they'd like to hear it.

We are now about a six billion dollar company and growing at 25%-30% a year. We are spending about 16% of our hardware, and software NOR on engineering. Most of this is going into developing, testing, and organizing those VAX systems that will do MIS for medium and large companies. A good part of our Marketing and Sales costs are aimed at these markets. Because of the effort and success we've had in these areas, and because of the enormous investment by Digital in these markets, they are particularly attractive to OEM's, who would like to buy just the CPU or chip, and bid against us, using our systems and software. They like to price against us, using foreign components with no cost on their part for the software and system development.

I cannot see how we can survive if we absorb all the systems and software costs and bid against OEM's, who get them free.

What is worse, is that we often make the sale, with all the costs incurred, and an OEM then bids, and he does not have to pay any selling, marketing, systems, or software costs. Our own accounting charges all the lost selling cost towards those few sales we do get and from our accounting it appears that the OEM orders come with very little selling cost on our part.

We are then forced into pricing our systems units by component cost in order to match the OEM's. We cannot charge by component the costs we incur in developing and selling systems or we will always be a low-profit, high-cost operation.

The only solution I can see to this dilemma is to sell OEM computers and chips only to those people who truly incorporate them into their product. Examples of this would be: an X-ray machine, a Chevrolet, or a blood testing device; we will not sell them to those people who are getting our systems investments for free.

It is no longer a question as to whether we make MIS a major market for the Corporation. We decided that a long time ago when we went to ETHERNET and clustering and large machines. We already made that decision when we decided to build four or five thousand VENUS computers next year. We already made the decision when we decided that Micro-VAX was the computer for MIS applications in departments and medium sized companies. The question now is: "How do we return a reasonable profit on the enormous gamble and risks that we have already taken?"

KHO/mt
K04:S8.16
DICTATED BUT NOT READ

O.C. *[Signature]*

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I N T E R O F F I C E M E M O

TO: KITCHEN CABINET
cc: RON SMART

Date: 25 FEBRUARY 1985
From: Ken Olsen
Dept: Administration
MS: ML010-2/A50 Ext: 223-2301

SUBJ: MARKETING PLANS

CONFIDENTIAL - DO NOT DISTRIBUTE OR COPY

It is apparently believed by the Kitchen Cabinet that we can have no influence on Business Plans and that all we can do is remove a person if we completely lose confidence in him. This does not make sense. It is ridiculous to, every time we change managers, have to wait for a new plan and to know ahead of time that that plan is going to take two or three years to make money, with major investments.

It is also believed that to discuss hardware is "un-elegant" from a computer science point of view and from a business school point of view. The inventory, capital equipment, accounts receivable, training, documentation are a major part of our expenses.

At Ford they would not tolerate someone who had an idea for an new automobile, but talked only with spread sheets. They would want to know what the product looks like, what features it will have and how much capital would be tied up in getting it to market.

I suggest that we lay out what we think should be done with hardware, software and marketing plans and then listen to the managers' suggestions. In general, however, he takes a contract from the Kitchen Cabinet.

KHO:m1
K04:S7.46

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Handwritten signatures and initials at top of page.
Interoffice Memo

O.C.

TO: see "TO" DISTRIBUTION

DATE: WED 13 FEB 1985 4:40 PM EST

cc: OFFICERS:

FROM: KEN OLSEN
DEPT: ADMINISTRATION
EXT: 223-2301
LOC/MAIL STOP: ML10-2/A50

MESSAGE ID: 5263903013

SUBJECT: RECENT RAINBOW PRESS COMMENTS

The following statements will be released to the press in response to Monday's New York Times article regarding the Rainbow product:

1. We are NOT abandoning Personal Computers:

In the wake of recent speculation that it is abandoning the personal computer market and, in particular, its RAINBOW microcomputer, Digital Equipment Corporation signaled that it would announce, next month, significant enhancements to its RAINBOW and DECMATE personal computers which, according to Digital president, Ken Olsen, "will set new standards of versatility and functionality for personal computers". Olsen did not provide specific details on the announcement, but said that the planned enhancements and options would combine the best features of personal computing, word processing and office automation. He said the new offerings would deliver important price/performance improvements in environments where interconnected personal computers are used as the user interface to larger systems.

Olsen stressed that the enhanced capabilities would also be available as upgrades to current RAINBOW/DECMATE users.

2. VENUS is doing well but:

As the business activity in the electronics industry softens, our orders from this segment are softening.

3. We are NOT planning to have a layoff:

We are improving manufacturing efficiencies through major new technologies like LSI, reduced overhead costs by simplifying our organization and structure, improved inventory management techniques and continued increases in the quality and reliability of our products.

Our success in these areas has allowed us over three years to nearly double our sales without increasing our manufacturing population.

Our competitiveness demands that we accelerate and expand on these programs to improve productivity. Therefore, over the next several years, we plan to be able to support increasing sales levels with a reduced manufacturing population.

KHO:m1
K04:S7.37

"TO" DISTRIBUTION:

VERNON ALDEN
GEN. GEORGES DORiot

PHILIP CALDWELL
WILLIAM MCLEAN

ARNAUD DE VITRY
DOROTHY ROWE

the opportunity to make efficiencies in the manufacturing process.

PC STRATEGY

We have stated publicly, and will continue to reinforce, the importance of personal computing to Digital's overall corporate product strategy. We are making significant investments in Rainbow enhancements, which will be announced in the very near term, as well as a new personal computer-class system, which will be announced in the future. You can, with confidence, ensure your customers that DEC's current products, soon-to-be announced enhancements, and follow-on products will provide them the same competitive advantages that Digital products have always provided.

In summary, what has been billed as "news" is inaccurate in assuming that we are moving out of the Rainbow PC business and misleading in representing our commitment to continued manufacturing efficiencies. Our Rainbow PC Strategy and commitment to manufacturing efficiencies are both positive positions which, unfortunately, came out negatively.

13-FEB-85 15:00:08 S 04220 CLEM
CLEM MESSAGE ID: 5263907641

O.C. *K.C. Smith*

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I n t e r o f f i c e M e m o

TO: *WIN HINDLE
KEN OLSEN
JIM OSTERHOFF
JACK SHIELDS
JOHN SIMS

DATE: THU 31 JAN 1985 10:37 AM EST
FROM: JACK SMITH
DEPT: ENG & MFG ADMIN.
EXT: 223-2231
LOC/MAIL STOP: ML01-4/A54

MESSAGE ID: 5262687459

SUBJECT: MARKETING AND MANAGEMENT AT DEC

***** C O N F I D E N T I A L *****

Well, it has finally happened -- the legendary 'Jack Smith tolerance level for ambiguity and nonsense' has been reached. The blank stares and seemingly unknowledgeable questions by our Marketing VP's when discussing our product strategy at Monday's Strategy Committee did the trick. Bill Strecker said it well, and I quote, "I am abhorred after all the work Engineering has done with Marketing; the lack of willingness on the part of Marketing to understand our products and formulate comprehensive Marketing plans based on application requirements in the field". We have a problem when the attitude of our Marketing folks is, 'aha, but the product doesn't do this; don't have this application?; no good to me; you mean you forgot this application?' This after-the-fact attitude on their part is intolerable. Remember we reorganized the Company so that our Marketing people would have the time to give the Engineering community this kind of direction as one of their key responsibilities. They should actually feel they have failed when we find a hole in the Engineering Strategy that effects their application/market base. Instead, the attitude is, 'well, Engineering did it to me again'. Nonsense. And then, when I'm asked, "Jack, can you tell us what a comprehensive Marketing plan would look like"? Patience my foot -- I would like to stomp on someone.

Ken, you contribute to the nonsense by letting our Marketing VP's off the hook; they do work for you. Ken, out of frustration, has given up on our Marketing VP's and ever getting anything meaningful from them. His approach is therefore to push the problem onto Engineering. "The Engineering isn't complete until the Marketing is done". Well Ken, there are 3,000 people in Marketing in this Corporation. I think it is relevant that you understand that I don't have that many folks walking around in Engineering waiting for some Marketing work to do. 3,000 folks in Marketing. That number is close to half the total number of folks we have in Engineering. Does that feel right to you?

K.C.

Now all us "senior" folks based on our Harvard and other lofty institution experiences, have rationalized most of our domestic problems are basically externally driven, economic in nature. I suspect most of this is nonsense and our problems are basically internal to DEC; the result of how we are managing or, more appropriate, not managing.

But everyone else is having problems I hear, so it must be the economy; HP, Wang, Honeywell, etc., etc. Another piece of nonsense. We (Engineering)

pointed out in many of our Product Strategy reviews many months back that companies with good products would continue to do well; DEC, DG, Prime, IBM, Apollo, etc., etc. In turn, certain companies would run out of "product steam"; HP, Wang, Honeywell, Sperry, etc., etc. The majority of our problem is not economic in nature. If you have the products, you should be doing well and continue to do well for some time.

Now we are doing well in Europe. I suggest for the following reasons:

- o "Our product strategies are too complex, we can't understand them". This is unacceptable to European management. The direction to their Marketing and Sales management folks is clear -- you will understand our products and, based on this, you will formulate comprehensive Marketing/Sales plans driven by an understanding of the application requirements of our customers. Somehow it happens and they are 3000 miles distant from Engineering. Somehow they understand because they are expected and managed to understand.
- o Marketing and Sales formulate their plans together in close positive working relationships. No such nonsense as -- we can't clean up an OEM/End User co-existent situation because we can't get Marketing and Sales together.
- o The identified field segments (countries) understand, to the line items, what products they will sell. Selling what hasn't been ordered or what we don't have is completely foreign to them, pardon the pun.
- o All the individual segments are managed within a well planned integrating management process directed by Pier-Carlo personally just about in real time. Trade off between the segments are therefore timely, constant and consistent. They all know, at any point in time, exactly where they are and what must be traded off resulting in clear real time direction.
- o The bag-carrying Sales folk know the products - the result of good, comprehensive Marketing plans focused on application, a somewhat more focused approach to selling and a relatively lower turnover rate.

Now Win and Sims insist we must work with the Marketing VP's in such a way as to not hurt their fragile feelings. Well at this point I could care less. I want comprehensive Marketing/Sales plans that will move my product and we don't have them. We are investing a ton of money to get this done and I want it done without all the excuses of structure, lack of data, lack of power, etc., etc.

Instead of these all day - all evening woods meetings between the Marketing VP's to solve the "Company problems", I would suggest they work on comprehensive Marketing/Sales plans based on an understanding of the application needs of our customers. Plans that will help our Sales folks be better prepared to sell our products. Plans that give direction to our Engineering folks for the development of the right system applications. Don't invite me to anymore meetings until I have these plans. I will be busy, doing the best I can, formulating Marketing/Sales plans that I can't get from the 3,000 folks who have the responsibility.

Now I hope in some way I have offended each of you. If I somehow missed

someone, it certainly wasn't intentional. We are screwed up, (sorry John, you can't completely take the street out of the man), we are not managing, we are not leading, we are missing enormous opportunities because of our internal confusion and blaming it on external conditions. The problem lies with us folks "at the top of the house". We are not getting the job done, pure and simple. We are not structuring ourselves through either process and/or organization to format data, understand, review and give direction based on an integrated view of any meaningful segment of our business. At this point I could care less if the segments be geography, product, application, industry or whatever. Just so that we can understand cause and effect across the Company and the influences or lack of influences on our customers.

As the unofficial, illegitimate senior group operating within some ill-defined management process, we should be helping Ken (the ONLY integrating, monitoring point in the Corporation) run the Company. WE HAVE SOME WORK TO DO - what should we look at? - what content? - who? - how? - when? Set direction, follow up, initiate action! - get out there (in the field, inside DEC), understand, influence, push, shove, stomp, stroke. This is lots of work (and takes lots of time) but it MUST be done. The options are clear - if one can't do it all then one must choose to be part of the senior management team helping Ken run the Company, or choose to manage a function. BOTH jobs must be done. The one choice we do not have is to allow opportunity to slip away because we haven't postured ourselves to manage it.

We are on the threshold of unprecedented Corporate success - if we blow it we have no one to blame but ourselves.

31-JAN-85 11:31:45 S 02293 CLEM
CLEM MESSAGE ID: 5262693869

I n t e r o f f i c e M e m o r a n d u m

OC
History

To: see "TO" DISTRIBUTION

Memo: 5348861126COR94
Date: Fri 12 Jun 1987 1:00 PM EDT
From: KEN OLSEN
Dept: ADMINISTRATION
Tel: 223-2301
Adr: MLO12-1/A50*

Subject: JULY OR AUGUST WOODS MEETING FOR EXECUTIVE COMMITTEE

CONFIDENTIAL - DO NOT DISTRIBUTE OR COPY

I would like to spend a full two days in Maine in July or August going over the heart of Digital's business.

In detail, I would like to review every product in which we have invested in the last four years to see what we can learn from them. I would like to organize what we have learned and see if we can from that pass judgment on this years engineering and product plans. Why do some products succeed and others fail? Is it generally true that only those which have high concentration of interest from the top ever succeed? Why do some of those such as PC All-In-1, for which there is enormous demand and from which we expected the highest return, end up doing almost nothing?

I would also like to evaluate how broad a product line can the sales department handle. Is it necessary to have every single possible variation of size and capability of computers, or is it impossible for the salesman to handle so many? Would we do better having a very small number of computers with large gaps between them?

Then I would also like to go over our Engineering/Manufacturing costs. Is our overhead and our red tape too expensive? Why does it cost a million and a half dollars just to make a simple module? Why does it cost \$300K just to change connectors in a simple modem product? Why is our overhead in small products so high that it really doesn't pay to improve the products? Why do the engineers feel they are measured on things that obviously are not valid?

Other big companies are buying small companies so that they can separate out small jobs that don't need a large company system. Should we do this or should we just not do small jobs and only do the large jobs?

I would also like to measure the efficiency of our sales department. It appears that we don't have a simple pitch and a simple party line for the bulk of our products and that a salesman has to bring in an expert who has to bring in an expert, who then often has to bring in one more expert. Could we concentrate on a set of products for which every salesman can be expert, and then sell the complicated ones from a separate organization at a much higher cost?

I would like George Chamberlain and Ivan to propose an outline and then I would like to divide the work up between the Executive Committee.

KHO:mc

KO:1034

DICTATED ON 6/12/87, BUT NOT READ

"TO" DISTRIBUTION:

GEORGE CHAMBERLAIN
JIM OSTERHOFF
JACK SHIELDS
RON SMART

WIN HINDLE*
IVAN POLLACK
JOHN SIMS
JACK SMITH

OC
History

[Handwritten initials]

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INTEROFFICE MEMORANDUM

TO: DISTRIBUTION

DATE: 19 JUNE 1987
FROM: KEN OLSEN
DEPT: CORPORATE ADMINISTRATION
M/S: MLO12-1/A50
EXT: 223-2301

CC: IVAN POLLACK
ED SCHWARTZ

SUBJ: DESK TOP STRATEGY

We had a good desk top Woods meeting. We clarified a lot but raised a lot of questions. I'd like now to organize all we know, all we plan and all we have under consideration into one chart that I'd like presented to the Executive Committee in July and the Board of Directors on the 17th of August.

For this chart, I'd like to assume that we are committed to supporting VMS, UNIX, MS-DOS, OS-2 and Mac. Let's assume that this chart will be a vehicle in helping us decide which of these we will include in our product line. For the sake of the chart, we will assume we also make an MS-DOS machine with no slots but with a floppy in the PVAX box.

The chart will have five columns. The first column is VMS, second UNIX, third MS-DOS, fourth OS-2, fifth Mac, and the sixth is a commentary on management.

Gorden Bell took joy in pointing out that all projects not supervised directly by his inner circle consistently failed. WPS was one of his particular joys. No one has this negative attitude today, but we have yet to prove that projects ignored by the inner circle have a high rate of success. Therefore, in the sixth column I'd like comments on whether or not this part of the project is of burning interest to the engineering management inner circle, or is it in the boonies of no particular interest and no likelihood of success.

Today I am afraid that our strategy in this area looks to the sales department and to the Executive Committee like a bunch of half done things delegated to various parts of the Company without any force to integrate. I'd like you to prove that, at this time, we do have a thought-out, easy-to-understand strategy that we can pull off because it's simple and people understand what they are driving toward.

From history, you can conclude that only the things done by the inner circle of the engineering staff succeed. But you also could conclude that the inner circle only does things which are easy to define with clear cut goals and that they delegate those things for which they don't want to work out the myriad of detail and in which they don't want to rationalize into a simple set of goals.

Right now I don't want to find out. I want to rationalize the goals, simplify them, make sure we succeed and have the inner circle show enthusiasm and interest in management for the whole project.

KHO:ld
KO:1057

DISTRIBUTION:

HENRY ANCONA
BILL HEFFNER
DOM LACAVA
JACK SHIELDS
JACK SMITH
BILL STRECKER

KURT FRIEDRICH
WIN HINDLE
JIM OSTERHOFF
JOHN SIMS
PETE SMITH

	VMS	UNIX	MS-DOS	OS-2	MAC	COMMENTS ON MANAGEMENT
Diskless CPU	PVAX	PVAX	P32 w/floppy	P32 w/floppy		
CPU with Disk	PVAX or any VAX -----			IBM or Clone	-----	
Network - diskless	Cheapernet	Cheapernet	Cheapernet	Cheapernet	Cheapernet	
Network w/disk						
Office Devices on Network						
1) printer						
2) printer						
3) printer						
1) scanner						
2) scanner						
Word Processing						
1) poor						
2) good						
3) better						
4) best						
CAD Department						
1) printer						
2) printer						
3) printer						
1) plotter						
2) plotter						
3) plotter						
1) scanner						
2) scanner						
Server Software						
Special Software						
Applications Software						
DEC Software						
Third Party Software						

Handwritten: O.C. - [Signature]
H. [Signature]

To: see "TO" DISTRIBUTION

Memo: 5346554974COR84
Date: Wed 20 May 1987 11:21 AM EDT
From: KEN OLSEN
Dept: ADMINISTRATION
Tel: 223-2301
Adr: MLO12-1/A50*

cc: TOM SIEKMAN

Subject: DESK TOP PRESENTATION TO THE BOARD OF DIRECTORS

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There are three major questions involved with the desk top (some stand on the floor) products. Each of these questions are exceedingly important and should be raised at the highest level of the Corporation. The questions are tearing people apart. The obvious answer is to raise them to the highest level, present the arguments in an organized, systematic way and look for a decision.

UNIX

We have to redo our policy on UNIX. The suggestions go all the way from dropping UNIX altogether and with all haste and all useful investment, get all the UNIX functions on our VMS workstations. The suggestions then go all the way to making UNIX as complete a software system as VMS and competing with VMS.

There are many points of view, and depending on where you stand, the answer is obvious; however, we have to take into account every one of the points of view and we will do it in a systematic, organized way and work on it for several months. The schedule I'd like to follow is:

- I. On May 27, we will have presented an outline of all the points of view and all the alternatives and what the costs, advantages and risks are for each.

We will then present that chart on the 15th of June to the Board of Directors, and on the 17th of June, we will spend a full day again working the problem. Then on the 29th of July, we will have a Woods meeting at Heald Pond and grind away at it until we make the decision.

- II. The pricing question is also tearing the Company apart. We have to sell inexpensive PC's and workstations, with the same CPU with which we make very complex, powerful, multi-user systems. One we get little money for, one we have to get a lot of money for and regardless of what we do, they are interrelated. Of course the questions raise the question of corporate strategy on looking for market share or making as much money as possible in the immediate future. On the 27th or 28th of May, we will outline the questions and the alternatives and the advantages and

disadvantages of each in an outline of what marketing plans we would pursue with each alternative.

We will then make this the major presentation to the Board of Directors on the 15th of June and we will make the decision at the Executive Committee Woods meeting on the 18th of June.

- III. The next question is, how many desk top CVAX machines do we have to make in order to accomplish all our goals. It is felt by some that we have to make four or five different versions in order to get four or five different sets of prices. Others claim we are making four versions because we have four groups of engineers to keep busy.

For the Woods meeting the 27th and 28th of May, we'll present a chart showing all the CVAX CPU boards we are laying out. In that chart, we will lay out the cost of each one and evaluate alternative combinations. We will evaluate the cost of tooling, engineering, inventory, and field service. Bill Heffner will present the cost of adapting VMS for three, four or five new machines as compared to one, and George Chamberlain will evaluate the cost of time to market several machines as compared to getting a less optimized machine to market with a higher manufacturing cost.

We'll also ask to have presented a list of ways in which we can accomplish different pricing and evaluate the cost of each one, both in time for marketing, engineering, tooling, delay, inventory risk, training, field service and software.

KHO:ld
 KO:979
 DICTATED 5/20/87 BUT NOT READ

"TO" DISTRIBUTION:

GEORGE CHAMBERLAIN
 WIN HINDLE*
 DOM LACAVA
 IVAN POLLACK
 JOHN SIMS
 STEVE TEICHER

BILL HEFFNER
 JEFF KALB
 JIM OSTERHOFF
 JACK SHIELDS
 JACK SMITH

Interoffice Memorandum

OC History [Signature]

To: DSM:

Memo: 5336879052OGO29
Date: Thu 12 Feb 1987 1:06 PM EST
From: CHICK SHUE
Dept: US SALES
Tel: 297-6067
Adr: MRO3-3/B13

cc: see "CC" DISTRIBUTION

Subject: FIVE CLEAR AND POWERFUL MESSAGES

"DIGITAL HAS IT NOW!" REMAINS OUR MOST POTENT OFFENSIVE STRATEGY AGAINST IBM. IBM WILL CONTINUE TO SPEND MILLIONS OF DOLLARS TO CLOUD OUR MESSAGE, TO BUY TIME, AND TO CAUSE CUSTOMERS TO WAIT UNTIL "IBM HAS IT!"
--

YOU AND YOUR SALES PEOPLE ARE DOING AN OUTSTANDING JOB BEATING IBM. WE MUST CONTINUE TO PRESS OUR ADVANTAGE AND HELP OUR CUSTOMERS TO ACT NOW.

WORDS MAY NO LONGER SEPARATE THE DEC STRATEGY FROM THE IBM STRATEGY, BUT THE FACTS DO! HERE ARE FIVE CLEAR AND POWERFUL MESSAGES:

PLEASE MAKE CERTAIN THAT EVERYONE IN YOUR ORGANIZATION GETS THIS INFORMATION.

1. DIGITAL PROVIDES OUR CUSTOMERS A COMPETITIVE EDGE

BACKUP:

OUR CUSTOMERS' BUSINESS STRATEGY COMES FIRST. OUR PRODUCT STRATEGY IS COMPLIMENTARY, SUBORDINATE, AND TRANSPARENT TO OUR CUSTOMERS' BUSINESS STRATEGY. (IBM'S PRODUCT STRATEGY IS OBSTRUSIVE, AND OFTEN FORCES THE CUSTOMER TO CHANGE HIS BUSINESS STRATEGY TO CONFORM WITH IBM'S STRATEGY. EVEN NOW, IBM HAS THE NERVE TO TELL THEIR CUSTOMERS TO WAIT FOR BETTER PRODUCTS FROM IBM WHEN WORLDWIDE COMPETITIVENESS IS A SURVIVAL ISSUE FOR MANY OF THEIR CUSTOMERS.)

THE SUCCESSFUL ENTERPRISE IS BOTH OPPORTUNISTIC AND STRATEGIC. OUR PRODUCTS ARE EASY TO USE, GRANULAR AND COMPETITIVE IN THE SHORT RUN, YET, DESIGNED TO A SET OF STANDARDS WHICH ASSURES COMPATIBILITY AND PROTECTS OUR CUSTOMERS INVESTMENT IN THE LONG RUN. (CONTRAST THIS WITH YOUR CUSTOMER'S HUGE SUNK COST INVESTMENTS IN IBM'S OLD "STANDARDS" WHICH HAVE NOT MET THE TEST OF TIME)

DEC PRODUCTS WORK THE WAY SUCCESSFUL PEOPLE WORK....WITH EACH OTHER. OUR CUSTOMERS NEED FAR FEWER PEOPLE TO UNDERSTAND, OPERATE, AND SUPPORT DIGITAL PRODUCTS. OUR COMMITMENT TO INDUSTRY STANDARDS AND SIMPLICITY PROVIDES OUR CUSTOMERS A MEASURE OF AUTONOMY FROM DIGITAL. YET, FOR A FAIR PRICE, DEC WILL SUPPLY WHATEVER SUPPORT OUR CUSTOMERS' NEED. (THIS DEFUSES IBM'S STRATEGY OF GIVING AWAY LARGE NUMBERS OF "FREE" SUPPORT PEOPLE TO THEIR

msjc
obstructive?

FEB 13 1987

CUSTOMERS. WHO PAYS FOR THESE PEOPLE WHEN THE CUSTOMER BECOMES DEPENDENT ON IBM?)

DIGITAL IS THE INDUSTRY'S LEADING SUPPLIER OF COMPUTER NETWORKS

BACKUP:

DIGITAL IS THE UNDISPUTED INDUSTRY CHAMPION OF COMPUTER NETWORKS. AS A LEADER OF END USER AND DISTRIBUTED COMPUTING IN THE MID SIXTIES, DIGITAL WAS NATURALLY COMPELLED TO TAKE A POSITION OF LEADERSHIP IN COMPUTER NETWORK TECHNOLOGY. TODAY, WE SHIP THOUSANDS OF WIDE AREA AND LOCAL AREA NETWORKS A MONTH, AND WE LEAD THE INDUSTRY IN COMPUTER SYSTEM NETWORK SHIPMENTS.

WE ARE COMMITTED TO SETTING AND OR SUPPORTING INDUSTRY STANDARDS. WE HAVE A TRACK RECORD OF CHOOSING AND SUPPORTING PROVEN NETWORK PROTOCOLS. FOR EXAMPLE, OUR DIGITAL NETWORK ARCHITECTURE (DNA) IS BASED ON THE SUCCESSFUL U.S. GOVERNMENT ARPANET PROTOCOL. OUR LOCAL AREA NETWORK PROTOCOL IS BASED ON THE PROVEN XEROX DEVELOPED ETHERNET. (CONTRAST OUR CLEAR, OPEN, DELIVERABLE NETWORK STRATEGY WITH IBM'S SNA AND TOKEN RING STRATEGIES. OR DOES IBM NOW TOUT ETHERNET SUPPORT? CONFUSING? YOU BET.)

DIGITAL IS LEADING THE INDUSTRY IN OUR SUPPORT OF INTERNATIONAL NETWORK STANDARDS. WE ARE COMMITTED TO BEING OUR CUSTOMERS MULTI VENDOR NETWORK SYSTEMS INTEGRATOR (MVNSI). IN SHORT, WE OFFER OUR CUSTOMERS THE FREEDOM TO CHOOSE THE BEST COMPUTER SYSTEM REGARDLESS OF VENDOR. (IBM IS COMMITTED TO IBM STANDARDS. THEY TOO SUPPORT THEIR CUSTOMER'S FREEDOM TO CHOOSE AS LONG AS THE CUSTOMER'S CHOICE IS IBM)

.....AND SPEAKING OF INDUSTRY STANDARDS.....

3. DIGITAL PRODUCES VAX/VMS, A SINGLE HARDWARE, SINGLE SOFTWARE ARCHITECTURE , WHICH OFFERS THE BROADEST RANGE OF TOTALLY COMPATIBLE COMPUTER SYSTEMS.

BACKUP:

- EXPLOIT IBM'S MULTIPLE HARDWARE ARCHITECTURES IN THE MIDRANGE
- EXPLOIT IBM'S MULTIPLE SOFTWARE SYSTEMS
- UNDERSTAND THAT IBM'S 9370 COMMITMENT DOES NOT SOLVE THE HDWR PROBLEM UNTIL LATE FALL AT THE EARLIEST. ***ALSO, TO DATE, THERE IS NO COMMITMENT TO SOLVE THE SOFTWARE PROBLEM!

CAUTION IBM IS AGGRESSIVELY FUTURE PRICING THE 9370 IN MANY LARGE PROJECT BIDS WITH LONG DELIVERY LEAD TIMES. MAKE SURE YOUR CUSTOMERS ARE MAKING APPLES TO APPLES COMPARISONS ON PRICE AND DELIVERY. KNOW THAT OUR FUTURE PRODUCT PERFORMANCE AND PRICING STRATEGY WILL BE EQUAL TO OR BETTER THAN IBM. GET YOUR DISTRICT SALES AND OPERATIONS MANAGEMENT INVOLVED IN LARGE PROJECTS TO ASSURE THAT YOU HAVE THE FUTURE PRICE PERFORMANCE INFORMATION AND COMMITMENTS YOU NEED. NATURALLY, YOUR STRATEGY SHOULD EMPHASIZE NOW! (TODAY'S PRODUCTS AND PRICES)

DIGITAL'S SERVICES ARE RATED NUMBER ONE OR TWO BY THE MAJOR

INDEPENDENT CUSTOMER SURVEYS

BACKUP:

- RECENTLY RATED NUMBER ONE IN THE FORTUNE SERVICE SURVEY
- WE ARE COMMITTED TO OUR CUSTOMERS'S SUCCESS. THIS COMMITMENT EXTENDS TO OUR UNDERSTANDING OF THEIR TRUE BUSINESS PURPOSE FOR WHICH OUR SYSTEMS ARE PURCHASED.
- WE UNDERSTAND THE NEED TO CONNECT OUR CUSTOMERS' PREVIOUS AND FUTURE IBM SYSTEM INVESTMENTS. WE WELCOME THE PRIVILEGE AND OPPORTUNITY TO INTEGRATE AND SUPPORT THESE INVESTMENTS AS A DIGITAL RESPONSIBILITY TO ADD VALUE TO OUR CUSTOMERS' INFORMATION SYSTEM STRATEGY.
- IBM'S REDUCED PROFIT MARGIN'S ARE FORCING THOUSANDS OF PEOPLE TO BE REDEPLOYED FROM HEADQUARTERS. THEY ARE SURE TO PACKAGE THIS AS INCREASED "SUPPORT". HELP YOUR CUSTOMER SEE THROUGH THIS. ENCOURAGE THEM NOT TO MEASURE SUPPORT BY THE "BODY COUNT". DEC WILL PROVIDE SKILLED PEOPLE TO GET THE JOB DONE AT A FAIR PRICE. (OUR SYSTEMS AND SUPPORT ARE PRICED FOR SUCCESS)

DIGITAL HAS IT NOW!

IN SUMMARY NO AMOUNT OF ADVERTISING DOLLARS AND RELATED PROPAGANDA FROM IBM CAN OVERCOME THE FIVE DIGITAL ADVANTAGES EXPRESSED ABOVE. IBM MUST FIRST FIX THEIR DELIVERABLE PRODUCT STRATEGY. THIS WILL TAKE TIME. DON'T LET IBM BUY TIME AT YOUR CUSTOMER'S EXPENSE. TAKE THE POSITIVE SALES APPROACH, AND STAY CURRENT WITH YOUR COMPETITIVE INFORMATION. PRESS YOUR ADVANTAGE.

"CC" DISTRIBUTION:

- ASM:
- ROSE ANN GIORDANO
- SSC:
- USFMT:

- FOMC:
- NEAL HOUTZ
- SALESHQ:

Interoffice Memorandum

AM

E.A. OC
History

To: see "TO" DISTRIBUTION

Memo: 5346067296COR02
Date: Fri 15 May 1987 2:46 PM EDT
From: KEN OLSEN
Dept: ADMINISTRATION
Tel: 223-2301
Adr: MLO12-1/A50*

Subject: WHY WE LOST FACTORY NETWORKING AT FORD

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I spent a couple of hours this week with the Ford staff that decides what the standards shall be for Ford factories. I think I won every point on every argument, but they still want to use broad band and token bus. I think maybe I would do the same if I were in their shoes.

They have a simple, elegant system, some of which they've had a lot of experience with and the rest of which they can visualize in their head. We present a complex, almost infinite collection of different gadgets, concepts, things, and ways of doing things. Each one of us presents a story in a different way; each one of us has different answers to each problem.

LET'S MAKE AN ELEGANT, SIMPLE PITCH FOR ETHERNET.

Let's try, for the State of the Company meeting, to show how simple and easy to understand a "BASEWAY + Ethernet" system is to conceive of, build and operate. Let's include this in "the book", and let's print the same thing in the booklet.

LET'S PICK A NAME FOR OUR FACTORY SYSTEM SUCH AS "NON-STOP MANUFACTURING".

We have the software systems from us or our third parties for what's needed to keep a factory going to introduce products quickly, to make changes quickly and to avoid stoppage.

We have the equipment to build networks of the highest reliability and ways of making redundant networks so that they should never fail.

SOFTWARE

We have the software that makes networking easy and that makes cell controllers or work groups easy to manage and easy to work with the rest of the organization. We have partners that supply a wide range of software to do planning, control inventory, help product introduction, and help make changes.

NETWORKING

Ford has a system for laying out a factory ahead of time with broad band which brings a jack out at every position in the

factory. I'm going to ask them for a description of how this is done. I believe it is like wiring an apartment house for closed circuit television. At any apartment you can plug in a television set and you don't have to worry about clamping a device on a cable and doing special stringing. You just freely, at any time, plug anything into the cable and it's all worked out ahead of time.

John Adams and crew should lay out a plan showing how this can be done and showing how this is even better with thin-wire Ethernet. It should show how easy it is to hook up a cell at each jack. We could show how every column in a factory has a BNC connector on it (or two) and how from that every CPU in a cell can be daisy-chained at one jack. Parts of the same cell could be under another column and could even be some distance away on different jacks.

THE ELEGANT TOKEN BUS SYSTEM

Token bus, as presented by GM, is indeed elegant. Everything plugs onto the bus in the same simple way. We point out how foolish it is to plug in tediously low speed things at a high speed bus and we point out how difficult it is to manage and maintain a bus with a lot of random things on it. But I can see how people fall in love with the simplicity of the concept and they hold on to that simple concept even when things like sub-buses are introduced.

THE ELEGANT BASEWAY-ETHERNET SYSTEM

The DEC system is even more elegant, but we never put down on paper a simple system. We have an answer to any problem that is brought up, and by the time we finish a conversation, their heads are swimming in all kinds of concepts and none of it sounds fixed or standard and, above all, not at all elegant.

The factory is broken down into cells which can be very tiny or very large and very complex depending on how it is desired to organize the factory. A cell can consist of just one machine or it can consist of a number of machines, measuring devices, transfer devices, and a number of people. The cell is best made with a BASEWAY computer or Ethernet but could be token bus or any other network system.

ETHERNET BACKBONE

Each cell or work group is then hooked directly to Ethernet, usually by way of the MicroVAX or VAX used to manage the cell or work group. For highest reliability, a redundant network is accomplished by each cell or work group hooking into two separate network backbones so that if one is damaged, the system will still operate.

THE PITCH

The pitch boils down into the simple story that there are two components in the factory, Ethernet, which is indeed trivially simple and can be wired up ahead of time as easily as the television circuits in an apartment house, and cell controllers

(or work groups) which tie each sub-group of the factory together.

Digital has built tens of thousands of Ethernet networks; many are in the factory. They are by far the most standard and most reliable, high speed networks. Besides the factory, they are used in the laboratory, the CAD system, engineering, office, warehousing, inventory control, etc.

Digital minicomputers have been used for many years to tie together random protocols and interfaces in the factory with software called BASEWAY. It is difficult to write the software for devices with poorly defined protocol interfaces. As standards are developed for interfaces and protocols this will get easier. There is software written for BASEWAY for many devices that are today used in the factory.

The same BASEWAY computers can be the cell controllers. They can also supply human interfaces and cell management.

Digital offers rugged packaging for its cell controllers for use in the severe atmosphere of a factory.

MAP OUT MARKETED US

MAP won the hearts of the world with a simple, elegant message. They may never deliver but they won the hearts of the people.

Our message terrifies people. We say, tell us your problem and 12 people at Digital can tell you 12 different ways of hooking up an infinite number of pieces of equipment, each with their own code name. Our message is so complex that we can't write it down, and it's so complex that two people at Digital can't give the same story.

THE COMPETITION'S MARKETING PITCH

Let's remember the competition's pitch is simply, you already have a grid of broad band; if we all work together, and standardize on the interfaces, all you have to do is plug any device directly into your grid.

We know that won't work, but it sounds great and ours sounds inconsistent, complicated and, as a result, quite dubious.

Let's publish and maintain a list of all factory devices for which we have BASEWAY software, and let's maintain a description of all the successful Ethernet factories we have delivered.

KHO:ld
KO:967

"TO" DISTRIBUTION:

DAVE COPELAND

WIN HINDLE*

JENKINS
J ADAMS
JIM OSTERHOFF
JOHN SIMS
PETER SMITH

BILL JOHNSON
JIM LIU
JACK SHIELDS
JACK SMITH
BILL STRECKER

SEP 23 1982

Win
Pete's letter attached

DIGITAL EQUIPMENT CORPORATION

MAYNARD, MASSACHUSETTS 01754

KENNETH H. OLSEN
PRESIDENT

23 September 1982

Mr. Peter J. Kaufmann
P. O. Box 152
Machias, Maine 04654

Dear Pete:

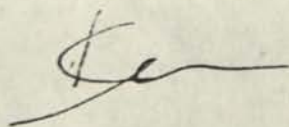
It was good to hear from you again. I am glad to hear you are still worried about us.

Next time you are in the area, please stop in and visit. Meanwhile, don't worry about us becoming a marketing organization. It may appear that we spend more time helping the marketing area, but that is because the so-called creative groups have trouble in doing traditional management and therefore, generating new leaders and so they take more time. I figure it is price that sells the product and not any one component of price. Our immediate goal is to cut out so-called marketing costs because that is the biggest contribution to cutting prices, but I am still a manufacturer at heart.

We are making enormous improvements and gaining tremendous efficiencies in overhead. If we can keep this recession going for another year or two, the Japanese will never be able to touch us.

With best wishes.

Sincerely yours,



KHO:ep

RECEIVED

SEP 15 1982

September 1982

OC Secret file

KENNETH H. OLSEN

Dear Ken,

I had the opportunity to work eleven years of my life at digital and no matter how my life has changed since then, I will always feel a part of the company. Though, I myself, could never return to american industry, in any capacity, I wanted to give you my views from afar.....of your struggles today.

In the late sixties and early seventies, when digital focussed on marketing for its growth I had misgivings.....for my trip to Japan had convinced me that ultimately it was the Japanesse not IBM, as Nick Mazzeresse felt, who would end up as the most formidable competitors. A joint venture in Japan that Ted Johnson, Ed Schwartz and I proposed was turned down flatly by the Operations Committee, as they were fearful of the transfer of technology that might occur.

In both decisions.....you were obviously correct.....for the results of the last ten years show.

But once again, I am called upon to suggest to you that your struggles today stem from your success in building a marketing oriented corporation. The manufacturing organization was also built to service that focus.

Somehow, Ken, it still seems to me that the company that can compete with Japan in cost, and quality and simplicity is the company that will live.

If it is impossible to turn around the monolith we created then please take as many resources as you can muster and go after an engineering, manufacturing and sales organization that is lean enough to compete. (I left out marketing) ~~(where is Tom Stockelbrand?.....)~~ → because I have always felt marketing was immoral.) (Where is Tom Stockelbrand?....)

The U.S. has lost its consumer electronics industry to the Japanesse.

The U.S. has lost its automobile industry to the Japanesse.

Please let us not lose the computer industry to the Japanesse and become another Chrysler corporation. You are too smart for that.

With great love and humility,

Peter J. Kaufmann also chip

January 1978

Dear Win, et al;

By some quirk of fate, your Christmas card actually reached me, though I am no longer picking up my mail at my post office box.....and it was nice to hear that someone misses my falling asleep at meetings.

As for me, I am alive and well. As you know, I had purchased a piece of land in the country. Spent the summer in the area.....worked as a carpenter for two months.....wanted to learn how to build a building; pumped gas at night and an assortment of odd jobs. In the fall, I started a business consulting firm which specializes in assisting and developing small, local, privately held companies. (You always did say I would be a lousy consultant!!) But, as you might have guessed, I operate completely differently than the normal consultant. I actually tell the owner what to do, if he agrees, he does it and if he is satisfied with the results, he pays me for my service. It really is fun, and so far, think, I am really helping some folks.

Recently, I have received an advance from a publisher for me to continue writing my book. (I remember deciding to write it at the first Operations Committee meeting in Bermuda, years ago.....it is not about Digital, so no one should get paranoid.) Have found that it takes intense concentration and discipline to do some worthwhile writing, but so far am really pleased with my work.

I am presently living on the land I purchased. Over the years, I hope to develop this piece of land back into farming, as it was used that way, years ago. Contrary to popular belief, I am not married, nor at the moment am I living with anyone. As you know, my Irish ex-schoolteacher had the great foresight to turn down my proposal and is still living in Dublin. Marriage is probably marvelous for those that are successful at it, but, I am one of those that has found it to be much too debilitating and unless I should soften again, suspect I will go it alone for a while longer. (Of course, a relationship from time to time.....that is different.)

The girls are fine. Karen is on tour, this month, with a professional dance group and should graduate this June from Hampshire College. She plans to do consulting work in creative movement.....which I do not understand, except that it has nothing to do with sex. Jan is at Marlboro College in Vermont, hopes to be a veterinarian, but may end up in forestry or agriculture because the competition is fierce for veterinarian school.

Shortly after I left Digital, I gave away all the money that I received from the sale of my dec stock.....that should keep a few lawyers and accountants busy for years. It feels so nice to be out of retirement and back to work again, for the past five years have proved that I am not one who is happy in retirement. Have so many fine memories of Digitalso many fine people.....and I often think about how much I learned from chunky Ken Olsen. In retrospect, he is the sweetest, kindest, most brilliant, manipulative, one dimensional, huckster I have ever met, and I love him dearly. Hope he is well and happy.

I promised Ed Shein and others that I would keep in touch, so please feel free to show this letter to the Operations Committee, the Manufacturing Staff and anyone else you think interested.

I am happy, contented and at peace with myself and the world.....a state that few people have seen me in.....and hope this letter finds you the same. Am certain that someday, probably soon, my whereabouts will be discovered and become public knowledge, but until then, my very best love to you and the family.....

Kaufmann

Machiasport

June 1978

Dear Win,

My personal situation has been cleared up and I thought that I should write to you and tell you my whereabouts.

I am living in Machiasport, Maine....Jay Peter Chipmann, P.O. Box 152, Machias, Maine 04654.....telephone number, (207) 255-3052.

Things have gone well for me. Had a quiet winter.... accomplished alot of writing....learned how to plow snow, until it got ahead of me, as it did for you f olks,... ..then was skiing (1 1/2 miles) in here with groceries.. ..chopped wood and heated by a woodstove.

Since the spring have been outdoors....clearing land and finishing the house and barn. Am going to spend the summer also clearing land (15 acres) and f encing. Have decided to start with goats as they eat alder roots and hardack....then on to the blueberries, (have options on an additional 600 acres, 100 of which, are blueberries.)

Have developed just enough of a consulting business to pay for the truck, taxes, etc. but hope, someday, this place i s self sufficient.....the consulting has been fun.

Congratulations on your new job.... hope all is well with you and your family.....my best regards to everyone.

PK

P.S. You might tell "chunky" Ken Olsen that if he is in the area canoeing this summer that I'd love to show him what I am doing.....Machias has a small airport... ..when it isn't fogged in.

Pitt - You will have to file Form 4
 - Does this trade constitute a
 "buy" ?
 - Why do you object to 2 years?
 March 21, 1977

To: Ken Olsen
 Win Hinds

From: Peter Kaufmann

Subject: Stock Options

See Ken -

On May 1 of each year I am required to pay to my ex-wife a substantial capital payment, as well as the usual monthly alimony payments. Each year I have sold stock to make this payment.

My personal lawyer has advised me that SEC Rule 16b will apply to me for six months after my July 1, 1977 resignation, (see attached letter). Therefore if I sell stock at this time, I will be unable to purchase the options available to me in June. They are as follows:

6/11/73	@	\$ 4.667	2400	R	4 yrs worth why not 6000?
7/2/73	@	27.479	4500	Q	
2/24/75	@	24.146	3750	Q	
6/23/76	@	11.00	450	R	
			<hr/>	2850	R
				8250	Q
			<hr/>	11,100	
total # of shares					

I would like to make the following proposal. In exchange for turning back to Digital all of the above exercisable stock options, would you exchange them and release the restrictions on the "equivalent" number of options which I have previously exercised? They are as follows:

Release Date		#		
1/3/78	@	2.667	1500	R
6/26/78	@	1.667	2250	R
6/26/78	@	1.333	3870	R
1/3/79	@	2.667	1500	R
6/26/79		1.667	2250	R
6/26/79		1.333	3870	R
1/3/80	@	2.667	1500	R
1/3/81	@	2.667	1500	R
1/3/82	@	2.667	1500	R

19,740 R

Whatever you decide is the "equivalent" number of shares will be satisfactory to me and all the remaining previously exercised shares will be returned to Digital.

It would be helpful to me if the "equivalent" number of shares could be released prior to May 1, but if not, then by July 1, 1977.

The above proposal would relieve me of borrowing money, as well as waiting for six months after I leave in order to sell the shares I need to sell. For Digital, it will relieve the unstated precedent (which I feel strongly should be discontinued) of giving two years worth of stock options to a person leaving the company.

If I could get an indication of your thinking by April 15, I would appreciate it, as if I need to borrow the funds I can make the necessary arrangements by May 1.

Thanks.

PR

- Messages -
- Pete - Don't say yes so easily
 - Make more time for company-wide involvement
 - Watch your overhead.
 - Starv - Be more aggressive in new areas (Point of sale)
 - where you are strongest -
 - Andy - Be clearer on your ideas, keep them in front of us - we don't remember what you said in 1970.
 - Al B. - Focus finance on fundamental business - pricing, etc
 - More control in overhead - incl. sales & mfg as well as Corp. & PL.
 - Gordon - Spend more time in mfg + understand mfg problems -
 - Ted - Be flexible in sales/service org. of the future.
 - Watch your overhead.
 - Be clearer in your ideas
 - Win - Get Personnel to set mechanics straight
 - Get PLM to focus on key market issues, set down plans & needs -

DIGITAL EQUIPMENT CORPORATION
4 MT. ROYAL AVENUE
MARLBORO, MASSACHUSETTS 01752

ANDREW C. KNOWLES
VICE PRESIDENT

February 11, 1983

Mr. Kenneth H. Olsen
President
Digital Equipment Corporation
Weston Road
Lincoln, Massachusetts 01773

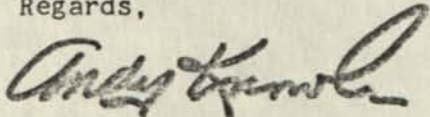
Dear Ken:

There comes a time in everyone's life and career when you must assess where you are and going. Frankly, this past year has been a very difficult one for me in that there has been lots of stress and pressure, and really it's no fun being here anymore. I can take the pressure if I feel what I am doing is fun. Given it isn't, I would like to resign from the Company effective July 1, 1983. As of now, I have no definite plans other than to maybe take some time off.

It has been a rewarding 13+ years for me at Digital. I will fondly remember my days with the PDP-11, the Small Computer Group, the Components Group, and the Technical Group!

Your continued success is certainly my wish. Digital, as the seventh most respected company in the U.S., certainly has a bright future and you and your colleagues should be complimented for the kind of Company and business you have made happen.

Regards,



Andrew C. Knowles

ACK

undoubtedly { 13,314 today
712 more 2/1/83

owned 1200 will lapse between
now + 2/1/83

12/15/76
12/14/76
10/19/76
11/12/76 + 11/26
12/7/76

OC Secret file



17 September 1982

Mr. Stanley C. Olsen
5 French Drive
Bedford, New Hampshire 03102

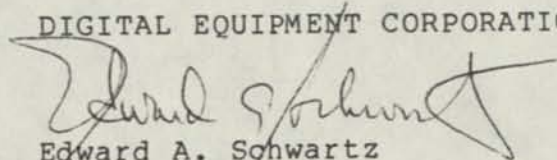
Dear Stan:

I am sorry I have not responded to you sooner on the subject of your retaining certain shares purchased by you under the original Restricted Stock Option Plan; however, as you do know, this was a much discussed issue by the Board of Directors.

I am pleased to state, on behalf of the Company, that the Compensation and Stock Option Committee has elected not to repurchase the 1500 shares of stock which you presently own and purchased under a grant dated 21 June 1981, which would have vested on 4 August 1982. This election withdraws the letter from us dated 9 July 1982 which requested the shares.

We are all pleased with this result and believe that the mutual good will between you and the Company has been preserved.

Sincerely,

DIGITAL EQUIPMENT CORPORATION

Edward A. Schwartz
Vice President & General Counsel

EAS/jp

cc: Win Hindle

SEP 17 1982

|d|i|g|i|t|a|l|

INTEROFFICE MEMORANDUM

DATE: 9/13/82
FROM: Darman Wing
DEPT: Law
EXT: 223-2206
MS: MSO/M6

10

TO: Ed Schwartz

CC: Win Hindle
Bob Steinbach

cc

SUBJ: Stan Olsen

On Friday, September 10, Win called to pose a question raised by Arnaud deVitry: In electing not to repurchase Stan's 1,500 shares, are we establishing any legal precedence which would obligate us to do the same for others in the future?

In response, I pointed out that while the election not to repurchase Stan's 1,500 shares is in fact a "first", it will not create any future duty to act similarly. I explained that repurchases are wholly discretionary on a case by case basis and will continue to be, that our review of past actions involving other officers who have left show that no fixed standard is applied, and that past treatment of others was unique to each situation. Thus, Stan's treatment would be but another example of treatment fashioned to fit the circumstances: to maintain good will with a founder, a 25 year employee, a significant contribution to the business, etc.

DAW/jp

I agree
[Signature]



April 18, 1969

Mr. W. Brewster Kopp
134 Coolidge Hill Road
Cambridge, Massachusetts

Dear Brewster:

We are all very enthusiastic about having you become a member of the management team of Digital Equipment Corporation. We wish to offer you the position of Vice-President, Finance.

During this period of time when we have not had the position filled, we have been able to see the weaknesses in our financial organization, and have developed some ideas as to what we desire to have in the future. As we review these ideas, we are convinced that you are just the one we want to fill the position.

We would like you to take on all the financial responsibilities, which include stockholder relations, contact with financial analysts, banking, selling of stock, raising of funds, all the functions of controllership, EDP, and budgeting. In addition, we feel an important part of this position is teaching and helping our product line people to understand their operations, carry on their budgeting, prepare their pricing, and, in general, operate in a profitable, businesslike way. We feel that the legal activities should also come under this title, and, in addition, those chores which you might be better suited to run than anyone else in the management team.

We would like to offer you a salary of \$60,000 (sixty thousand dollars) a year, and options for 5,000 (five thousand) shares of DEC stock. Enclosed is a brochure describing our stock option plans. We would like to give you the choice as to how you would like the 5,000 shares divided between the two plans, up to half in the Restricted Plan. I believe the price in the Restricted Plan will be half the market price.

I will be out of town all next week, but Win Hindle and the other Vice-Presidents will be here and will be happy to answer any questions you might have.

Sincerely yours,

Kenneth H. Olsen
President

KHO:ecc

DIGITAL EQUIPMENT CORPORATION, 146 MAIN STREET, MAYNARD, MASSACHUSETTS 01754
1617887-8821 TWX 710-347-0212 TELEX: 920456

*3/for split
made this 15,000*

May 6, 1969

Mr. W. Brewster Kopp
393 Fifth Avenue, N. W.
Boca Raton, Florida 33432

Dear Brewster:

We reviewed the points that came up in our discussion last Wednesday night, and I think we have some answers that should please you.

We feel we have to hold the salary offer firm, but I would like to lower the price of stock in the Restricted Plan. Next Monday, I plan to go to our Board of Directors and ask that it be fixed at ~~\$20.00~~ per share for the Restricted Plan. I think this would make it quite attractive. ^{\$15}

We would very much like to have you take on the responsibilities for planning and operations research (if we find use for it). Later, if it still seems worthwhile, Win Hindle would like to be relieved of his responsibilities of Personnel.

We feel that we cannot offer a title beyond vice-president, nor can we offer a directorship.

We do hope that you will see your way clear to join our team. The financial department has to be completely rebuilt, and we have tremendous challenges ahead in the dramatic growth we're planning for next year.

We are confident that you can be the one to complete and share in the excitement of growth we see before us.

Sincerely yours,

Kenneth H. Olsen

KHO:ecc