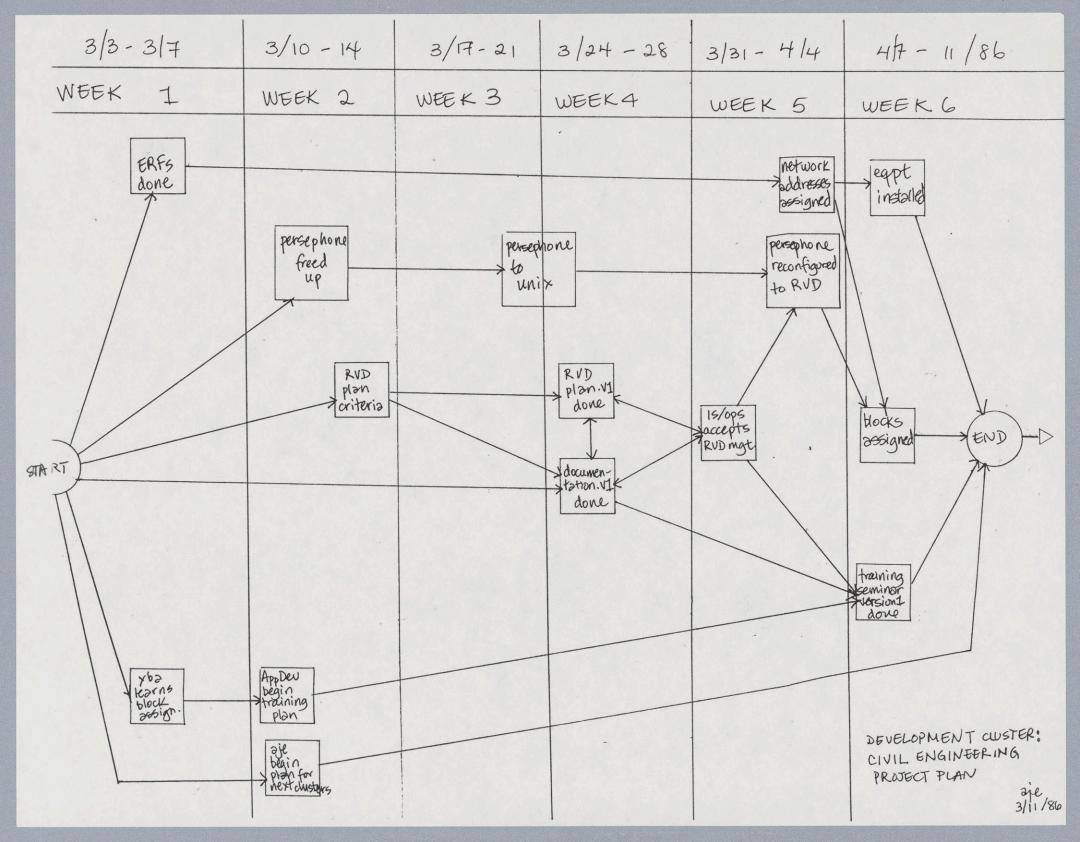
MBR/PLANNING



Project Athena Operations

topic	contact login
/usr/lib/aliases	geeret,hotlineappdev
allocationsbackup problemsbackupsbeta softwarebills (telephone, Faculty Club)bloxbug reports (software)bug reports (software)bug repoblemsbug problemsbug reports (software)bug reports (ajericksbertha,op_staff,alixccyba,dggmaryviola,ellisdroogprojectshotline
calendars (Bill Hogue's)	charlaleahmarytony
cluster maintenance	marybeth,cadminmelissamelissa
database development	etostlund, melissaostlund, melissaspm, jg, tonySaltzer
disk crashes	hotlinemelissaajerickslbm,meadowalix
doseducational evaluationemacsemergenciesequipment requests from projects	<pre>arnie,mjohnson,meadow,sapskccohenwatchprojectshotlinelerman,et,ajericks</pre>
equipment storage	marygary,mdmorsehotlineappdev
Group Administrator program (gadm)	melissa

그 사람이 되었다면서 하는 바람이 있는데 이 전에 가장하다면서 하는데
hardware problemshotline
hydrovaxgary,jdb
hotlinecc, joshua
IBM-specific issuesrip, mtc, arnie, mjohnson, mike
IBM-terminal emulatorsmtc
IBM-PC (staff) questionsarnie,mtc,mjohnson
imagentony, mike, hotline
Ingres (university)ostlund, melissa
(wti)
(rti)ostlund, melissa
IVISgant
Kermitmtc
keysmary
libraryconnie
lispyba
lock resetting or problemshotline,et
Macsymavis
MHtony
mail sorting and distributingjhickey
mail softwaredgg
mailing out Athena publicationsjhickey
man pages (on line)dgg,watchprojects
(hard copy)billb,red
meetingsjhickey
modems infoet
motdsbertha
moversmary
nameserversjis,dgg
network downhotline (referral only)
network issuesjis,dennis,jdb,dgg
network newsalix
new accounts (policy)lerman
(setting up)melissa
new clusters (plans)et,ajericks
(in progress)et,ajericks
new proposals for Athenalerman,connie
news clippingsconnie
office suppliesmary
on-line consultingbeth, treese, consultants
paperwork and filing for operationsmary
parking (stickers)connie
(reimbursement)mary
payroll (non-student)connie
(student)mary
PC network package (PCIP)
penplotappdev
personnelconnie
passwds (root)ostlund
petty cashmary
physical plant and Fixit interfaceet,connie
policy changeslerman, jis, jdb, rip
preventive maintenancegary, hotline
printer (hardware and maintenance)hotline,op staff,gary
(software)philipp
printer paper & supplieshotline,et
Project Athena Newsletterlbm,aogura
property office tagginget, tmd

publicitylerman
purchasingmary
QA/testingwatchprojects
quotations from vendorset, mary
random xeroxing, typing, or errand-runningconnie
registration programostlund
release engineeringalix
remote virtual diskdgg, jis
repair requestshotline
resource allocationet,ajericks
restoring filesbertha, droogprojects
rslappdev
scribe databaselbm
security (physical)ljryan,ajericks
(software)Saltzer
seminar seriesconnie
schemeyba
sipb softwarewcs
software developmentSaltzer
software distribution (external)
software installation (plans)Saltzer
software installation (plans)
source controldgg,geer
space (mit)jdb,et,ajericks
(office)wfhogue
special-case accountsmelissa
student consultantsbeth,cadmin
system managementalix
telecommunicationsdennis, jis, dgg
telephonesconnie
terminal lineset,op staff
toolset,op_staff
transportation of equipmentet,cc
transportation of equipment
travelmary
truck shipmentset,tmd
20/20
ultrixjg,mike,dgg
unix (kernel/system issues)hackers
(user issues)beth, consultants, jstewart
(asef issues)
(software problems)hotline
unsupported softwaredgg,watchprojects
user accountsmelissa
user assistancebeth, consultants, yba, jstewart
user minicoursesbeth
user policylerman, jstewart
vantmd,et
visitors (outside, tours)charla,lerman
vs100 software developmentjg,tony,newman
who-does-whatcc
window systemsjg,tony,arnie,newman
"Indo" Systems

Return-Path: wfhogue@JASON
Received: by JASON (5.15/4.7)
 id AA03403; Wed, 19 Feb 86 07:57:27 EST
Received: by ATHENA (5.15/4.7)
 id AA10911; Wed, 19 Feb 86 07:57:21 EST

Received: by JASON (5.15/4.7)

id AA03395; Wed, 19 Feb 86 07:57:15 EST

Message-Id: <8602191257.AA03395@JASON>

To: lerman@JASON Cc: wfhogue@JASON

Subject: Directors Agena Item

Date: Wed, 19 Feb 86 07:57:13 -0500

From: wfhogue@JASON

I believe we may be in danger of losing the confidence of a large portion of the staff if we (the directors) don't produce a written strategic plan. I don't think I am overstating the case.

I would like to make sure we discuss this at tomorrow's directors' meeting. In the aftermath of today's managers' planning retreat, I can provide the directors with a list of specific issues on which the managers are seeking a directorial initiative. This should help focus the discussion.

It is probably the case that we have spent too much time and energy over the past few months worrying about pressing operational issues. Now that we have a strong managerial team, we need to change the focus of our efforts.

Bill

Date: February 11, 1986

To: Managers

From: Steve Lerman Spl

Re: Attached Strawman Plan for the Next 18 Months

The attached timeline is meant to serve as a framework within which we can begin to plan at least the next 18 months of Project Athena and assess the obstacles facing us as we do so. It is in no way meant to be "the definitive plan"; it is something against which you can bounce your ideas. The ultimate goal is for us all to create a Project-wide, coherent plan.

Some notes to the timeline:

- 1. This is an internal document and should remain confidential to this group.
- 2. Amounts of equipment: The total amount is between 628-678 workstations, more or less evenly divided between DEC and IBM. These amounts are broken down below.

For development clusters, we are hoping to install 60-75 workstations.

For new clusters, we hope to install over 90 workstations. In living groups, we hope to do a pilot group, involving 4-6 living groups for a total of approximately 40-50 workstations. We would also like to see if it would be possible to do an intensive experiment (i.e. one workstation in every room, or every suite) in a dorm and ILG. That would take another 65-70 machines. And if we could squeeze in, say, one more dorm and 5 or more ILGs, that could take another 60 or so workstations.

We hope to install workstations in one or two of the libraries, with 20 workstations in each one.

Cluster conversion: we were thinking of doing a 1 to 4 ratio of timesharing to workstations as a first step. One 11/750 would remain a timesharing machine. Our figures were as follows:

1-142 26 ws, 4 ts 11-113 22 ws, 4 ts W20 60 ws (30 DEC, 30 IBM) 38-344 10 ws, 4 ts 66-080 25 ws, 4 ts 2,4,6 36 ws, 12 ts

2,4,6 36 ws, 12 ts 16 22 ws, 4 ts E51 11 ws, 4 ts 9-550 20 ws, 10 ts

total DEC in clusters: 114 ws, 16 ts total IBM in clusters: 119 ws, 30 ts

page 2

Department clusters are a new idea, which we have to pitch to the faculty. Some departments are already interested or already informally started, like Mech. E. and Ocean E. We hope to be able to do 10 such clusters with 10-15 workstations each.

3. Gating factors: A list of the ones that come immediately to mind is attached. Several more are:

RVD is coming along, but we've decided not to distribute it at all to the outside world until we can do so in an organized manner. Preparation for an orderly distribution involves quite a few groups, so will take some time. Dan Geer is coordinating this.

The Institute is now involved with the living group planning, and it needs to make a decision on finances. How long this will take is not clear; hopefully it will not delay our prototype groups too much.

Athena's expansion is closely linked to the rewiring of the campus phone system, so its progress will gate ours in some ways.

Please feel free to hack at this timeline and to add your own favorite gating factors, problems, improbabilities and impossibilities. We will schedule a meeting to discuss all of this.

Gating factors:

- * 4 Fraternities Done
 - ILG server strategy (printers, RVD etc) telephone co. 10Kb line
 - gateway for 10Kb line
 - legal/liabilities issues
 - service/operations strategy
 - training/documentation strategy
 - public workstation software/documentation (inc. authentication, mail, validity of disk contents, etc.)
 - physical improvements (esp. electric)
- * 1 Dormitory Done
 - server/network problem
 - physical plant work space, power, cabling for internal network
 - coalition-building
 - most of fraternity problems
- * 6-10 Development Clusters
 - high degree of contact time (with whom?)
 - network connection
 - server strategy
 - service strategy
 - space prep (department)
 - private workstation software/documentation
 - RVD availability
- * Departmental Cluster (3-462)
 - networking
 - air conditioning/physical
 - RVD service
 - develop strategy for handling new dept. clusters
 - all public cluster problems
- * Public Clusters (37-312, 4-035)
 - network
 - RVD service
 - public workstation software/documentation
- * Library
 - printer strategy
 - network
 - public workstation software/documentation
 - operations service
- * Cluster Conversion
 - course computing schedule
 - applications software conversion
 - public workstation software/documentation

PROPOSED ACCOMPLISHMENTS TIMELINE

February

VS100 installation in clusters complete LN03 installation in clusters complete 1-245,272 installed March

demo center done 38-600 has 2 VS2's April

15 fraternity proposals due 4/1 wiring for 4-035, 37-312 done May

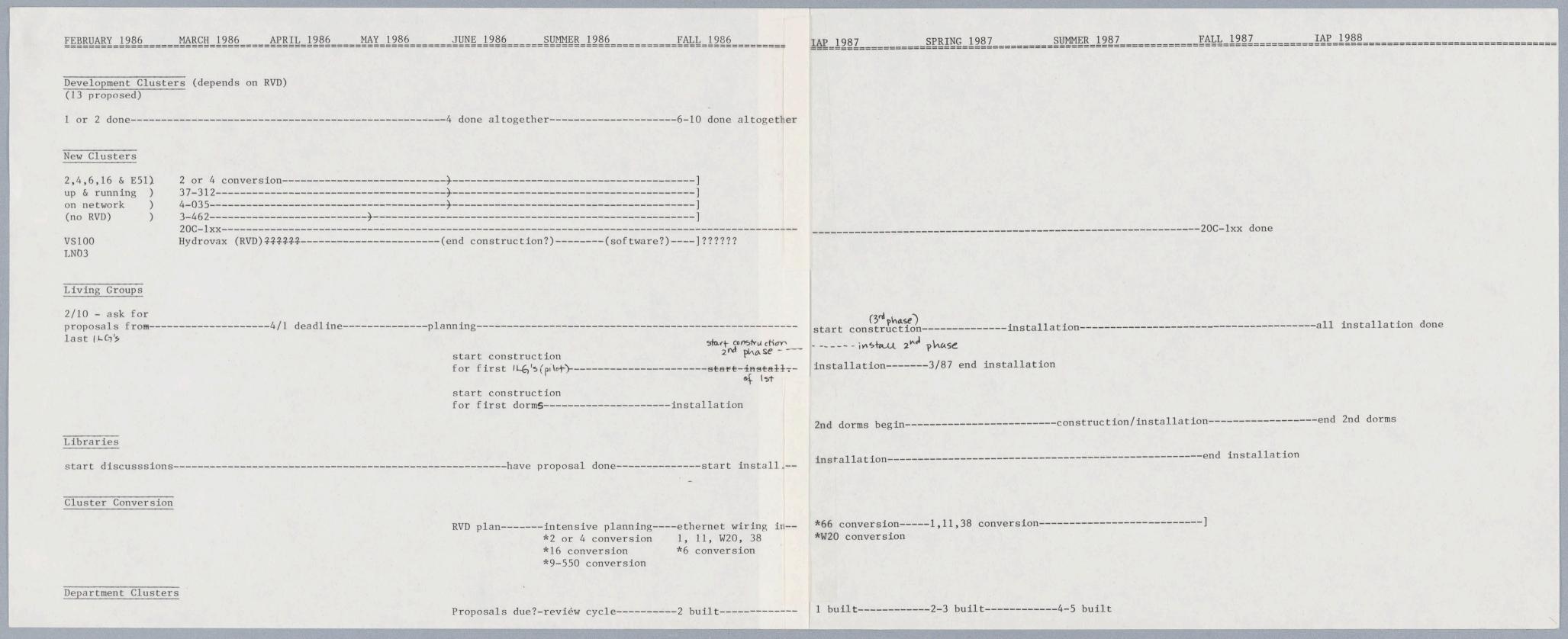
4 development clusters done

June

department cluster proposals in rvd plan done (for first 6-10 development clusters) Libraries proposal in 3-462 with all of first 10 VS2's installed

BY September 1986

15 new fraternity plans
4 fraternities done
1 dormitory done
9 fraternities underway
1 ôr 2 dormitôries underway
6-10 development clusters finished
3-462 done
37-312 done
4-035 done
2 and 4 converted
rvd plan done (for workstation clusters)
initial department cluster plans done
16 and 9-550 converted



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Dan Geek

Return-Path: wfhogue@JASON Received: by JASON (5.15/4.7) id AA10185; Tue, 18 Feb 86 10:00:23 EST Received: by ATHENA (5.15/4.7) id AA04474; Tue, 18 Feb 86 10:02:53 EST Received: by JASON (5.15/4.7) id AA10179; Tue, 18 Feb 86 10:00:07 EST Message-Id: <8602181500.AA10179@JASON> To: jstewart@JASON

Subject: Planning Agenda Date: Tue, 18 Feb 86 10:00:04 -0500

From: wfhoque@JASON

Jackie --

Below is a proposed starting place for our meeting. Let me know what you think and feel free do forward/discuss it with anyone you choose ...

February 19, 1986

AGENDA -- Managers' Planning Retreat

Realistic Goals for this Session: We Can't Do It All In One Day

Given the planning vacuum of the past two years, it is unrealistic to expect to fix the Project in one day. We need to suggest some strategic goals, look at the difficulties of translating strategic goals into tactical ones, and then establish tactical plans. This very large task will require several meetings to establish a baseline, followed by ongoing maintenance.

The Strategic Plan: Some Educated Guesses

Based on comments, notes, directors' meeting minutes, and conversations, the Managers need to outline a broad strategic plan for the next 18-24 months.

The timeline developed by Alana, Jackie's list of questions, and the results of our joint meeting last week may help form this discussion.

Following the directors' lead, three major categories for consideration might be hardware, software, and educational plans.

- A. Hardware -- Alana's timeline might serve as a useful starting point for formulation of overall hardware strategies.
- B. Software -- The Technical Plan would be a big plus here. In its absence, we may need to deduce certain things about the Athena computing model, proposed cooperation with CMU and Brown, and realistic expectations based on Dan Geer's assessment of the systems development group.
- C. Education -- This is the big void. Somehow, we need to suggest

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a strategic plan that alters the allocation process to give greater emphasis to proper software design, longer-term, more thoughtful approaches to difficult questions, and improves communication between central Athena and the faculty projects.

This plan may be informed, in part, by Karen Cohen's work. Additional work may be forthcoming from Greg Jackson, Don Schon, and Sherry Turkle -- but it will be coming too late to help us. Perhaps an examination of their questions will help inform the planning process.

3. From Strategy to Tactics: Rocky Road.

Many questions need to be resolved, not the least of which are those listed by the managers in preparation for the joint meeting. In addition, there are several others that come to mind...

** laundry list of needed policies and procedures

** method to assign Project Managers, and definition of what Project Management means

** IS/Athena cooperation

** involvement of AT&T in the Project

** loss of key personnel in '87-'88

The managers need to provide their own answers and move on.

- 4. Tactical Plan
- n Once the preceding steps take place, individual projects should fall into place. It is unlikely that we will reach this step in our initial meeting.

Please put major chogs under my door by 1:15 February 20, 1986 To: Directors From: Bill Hoque

Subject: Planning Retreat to Consider Strategic Issues

At Athena's mid-life, it may be appropriate to address, in written form, a variety of issues important to the future direction of the Project. I propose a planning retreat as the most efficient way to accomplish this end.

Below are listed six strategic issues about which there exists considerable confusion -- both on the staff and in the MIT community at large. This is by no means a comprehensive list, but it is a useful starting point for such a retreat.

Beneath each of the large questions are listed sub-questions which need to be considered. Many of the sub-questions can be answered by our management team, but only in light of clear statements addressing the larger issues.

STRATEGIC ISSUES

- What roadmap can we lay out to meet Project Athena's educational qoals?
 - -- Faculty Projects
 - -- Can we formulate a clear restatement of what the Institute is trying to accomplish with these grant moneys?
 - -- Should we begin to encourage more departmental proposals that have the implicit or explicit approval of departmental curriculum committees?
 - -- Can Project Athena be more proactive in establishing feedback mechanisms and evaluation procedures to ensure that the Institute gets interesting, innovative, and visible results from the \$10-million investment that is at the heart of the Project?
 - * provide faculty training?
 - * establish pre-consultation with Athena staff and review of technical feasibility as prerequisites for funding?
 - * obtain and evaluate status reports from developers?
 - * collect and distribute faculty software:
 - -- coherence?
 - -- quality control?
 - -- sources?
 - -- documentation?
- 2. How can we clarify some fundamental issues concerning hardware and vendor relations to ensure compatibility with educational objectives?
 - A. Hardware
 - -- What are overall objectives governing location of hardware and appropriate vendor choices at specific sites?
 - * generic workstations?
 - * early visibility to black box specifications for 9/86?
 - * cost effectiveness for post-1988?

push toward departments with clear commitment to computer intensive environments? * need to slow projected delivery schedules to ensure Institute's ability to use effectively? * implications of mixed vendor Living Group sites? Information -- Can we inform planning with regular, accurate grant accounting? 3. How can we strategically plan for staffing needs? -- Clear plan for staff migration as Project winds down, particularly for development areas where there is no established parallel organization in IS. -- Definition of student staffing levels and clear approval process. -- Overall examination of cross-group staffing in anticipation of vacancies and shifting workloads. -- Clear response on addition of new positions -- cannot allocate staff resources without straightforward approval or disapproval of new positions. -- Anticipation of what will NOT get done without additional staffing --- mapped to technical and strategic goals. -- Visibility to selection process for industrial staff. -- Implications of continued support for Phase I while introducing Phase II. -- Increased support staff levels to support Project areas currently unsupported (cost-effectiveness?) Can we clearly set goals and expectations for Athena's involvement with, and responsibility to, MIT, IBM, DEC, and the outside world? Α. Newsletter -- Yes, no, target audience, staffing. Project Booklet -- Format, staffing C. General Communications Strategy for broad software distribution... Athena/Berkeley contacts, participation on Standards Committees. Relationship with MIT sub-units outside Athena who want to "stay current with Athena." F. Documentation and user support. Assuming the addition of a third major vendor to the Project, what are our contigency plans?

4 F 95 Can we reexamine and re-state our goals to help address the fundamental tension existing between a service environment that is market-driven versus an experiment which is driven by educational and technological goals? User interface -- where are we going and how do our decisions Α. map to our educational and technical goals? -- Amplify Brown/CMU software or develop home-grown? Where should limited resources be directed? (see staffing, above) В. Model of computational environment we expect to see in '88. C. Stability implications for operational and support groups. D. E. Data from Karen Cohen and others to inform plans?

planning Connic kelley istement yba 19 Feb 86 15 jericks wfhoque Evaluation is lacking esp. for faculty projects + their educational impact Hadling of visitors (will be taken eare of by having open Fri. pm 's) a long listingly every one of their aggressations - mine attached Surg Wilson has no risk to arkena failure swort listen to any complaints Saltzer + Leman will not plan, but will critique we (mas) should do the plan but we cannot answer the educational isones, i.e. the goal setting we Hist to meet

limit mgre meetings in size del prepare an overall list of what will be hot of questions for Directors 20 Feb 86
something on faculty projects
how to keep projects non-trivial
turing Athena's neumess insist on Ruconsultation of staff funded projects must be demon's strated to us + sfur turned over to us should we change the point of solicitation (dept. level rather than P.I.) what how -> whom + why? stoffing: industrials, count, migration part, service related us. dev: related, diversity cost out MIT/outMIT public relations sissemination (hartodoas user interface + its importance) good as CMU planning contrigencies for AT+T, 17. Obsolescence

tech flan + role
file nysten (RVD, NFS, RFS, etc.)
securey on ws from industriale
anth from K vs jot desc; respect
stoffing levels (now + 87/88)
documentation (reg. + resp.)
mail by whom (15/Telecom/?)
dgg/jis specialness
budget authority + resp.
CMU/Brown cooperation
user interface & (Andrew)

tech is mkt driven venda relations + rusp. other vendors (ATFT) pecedence of tooks potential obsolecence appropriate mgs. fanous Just mit no Just athers auxilliany Athers (eg. evoques) guinea pigo for dev. win Haffeluster Single version VS. 10 flow. pushing X etc. as a std. how to influ industrial to provide staff we want + can use SSC ACRB relations Sec. support

I. Where are we going?

Goal setting and definition of what the goals mean.

Integrated plan for project (priorities, between

different projects, need to be set up) with

a well-defined Project (planning) Manager.

Long-range plan from Directors.

Decide what policies need drawing up.

Provide the long-range strategic plan.

II. How are we going to get there?

A. Who are we? (relationships internal to Athena)

Closure on Endicott House Agenda.

'Athena's vision'.

Clear charter for every group.

B. Some specifics

RVD - where is it going as a model of computation.

Real budgets.

Realistically address problems with Operations.

Determine the model for paying for equipment after the end of Athena.