Suggestions for Planning for IT at UC Berkeley

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UCB IT Environment - 1993

- Emerging from organizational chaos
- Primitive network e.g. ~ 7,000 connections and no connections in residence halls
- Bandwidth out of campus ~ 4.5Mbits/second
- Computer ownership by students ~ 60%; few public labs; very few classrooms media equipped
- NSFnet phasing out
- Obsolete batch administrative applications
- No California Digital Library
- No campus-wide email service => UCLink
- California financial situation deteriorating quickly
UCB IT Challenges - 1993

- Create a modern campus network infrastructure
- Work closely with library & museums to develop rich set of online resources
- Expand use of technology in learning
- Develop distributed computing environment
- Redesign crucial, but obsolete, campus administrative applications
- Provide access to high performance computing
- Adjust to significant campus budget reductions
- Retain, recruit, and train IT staff
Recent UCB IT Planning Processes

- 1993 – IST internal management team
- 1994 – Academic Planning Board – Instructional Technology at UC Berkeley
- 1998 - Commission on Campus Computing
- 1999 – IST internal management team with several campus focus groups
- 2000 – Chancellor’s Cabinet Cisco retreat – development of e-Berkeley Initiative
UCB IT Environment - 2003

- Expanding network infrastructure (46,000 nodes; external bandwidth => 3 gigbits/sec; I2; CENIC)
- Wireless connectivity emerging rapidly
- ~96% of students in residence halls have a computer connected to the network
- Dozens of open labs and media equipped classrooms throughout the campus
- Redesigned online administrative applications
- e-Berkeley campus initiative
- Web is everywhere! => CDL, Webcast, DCP, etc.
- California financial situation deteriorating quickly
UC Challenges - 2003
UC IT Infrastructure TF

- Systemwide standards and policies
- Instructional technology
- Digital content management and preservation
- Scholarly interaction
- ERP administrative applications (e.g. payroll)
- Network infrastructure development
- Information security and protection
- Decreased funding (e.g. Digital California Project)
UCB IT Challenges – 2003

- Develop revised funding strategy and operating plan for next few years
- Work with Academic Senate to develop Strategic IT Plan for campus – integrate with campus strategic plan & “new ideas” committee recommendations
- Enhance IT support for faculty – research, teaching, and scholarly communications activities
- Expand & enhance campus network infrastructure
- Enhance campus IT policy development with special emphasis on copyright, spam, and security issues
UCB IT Challenges – 2003 (continued)

- Move to new operations center and continue development of business resumption plans
- Transition to a 24X7X365 service model
- Strengthen campus IT security procedures and practices
- Resolve several campus IT gaps & overlap issues
- Support, promote, and enhance e-Berkeley projects
National IT Plans & Studies

- American Council on Education (2002) – *Higher Education in the Digital Age*
- National Science Foundation (2003) – *Revolutionizing Science and Engineering through Cyberinfrastructure*
IT Strategic Planning Suggestions

- Build on UCB Academic Strategic Plan & Process
  - IT requirements to support major components of plan
    (e.g. maintain research leadership, enhance undergraduate education, etc.)
  - Specific proposals (e.g. 8.5, 8.6)
  - Academic Senate Comments => Computing and Communications
  - IT requirements to support new strategic thrust areas
    (e.g. computational biology, metropolitan studies, new media initiative, nanotechnology, etc.)
Develop ways of implementing the most important IT recommendations of the Chancellor’s organizational structure study (McKinsey)
- suggest features of “best practices” hybrid model
- recommend new model for faculty support
- suggest most important overlaps to eliminate
Focus on a few key unanswered strategic IT questions for UC Berkeley, such as:

- What is the role of IT in transforming teaching and learning on our campus?
- What kind of IT environment does our campus need to achieve its goals (e.g. innovator, early adopter, join-the-pack, lagging)?
- Is it time for a new research partnership with IT (e.g. Internet2, Abeline, National Lambda Rail, grid computing, etc.)
- Are we “preparing for the revolution” or ignoring it?
Proposal: Use key existing committees

- Academic Senate COMP Committee
- IST Management Team
- IT Architecture Committee
- Micronet
- Administration & Student Services
- Education Technology Committee
- E-Berkeley Steering Committee
- Etc.
Questions & Discussion

- What role does Micronet wish to play?
- Who should be involved?
- Etc. etc.