



*Consulting in Telecommunications, Networks, and Information Technology
Strategy Acquisition Implementation*

UIUC Strategic Plan for Voice and Data Networks

November 3, 2006

Agenda

- Purpose of today's meeting
- Scope of the work
- Your current situation
- WTC experience
- Status
- Timeline

Purpose of Our Meeting

Purpose of Our Meeting

- Review the network and telecommunications work underway
 - Review voice issues
 - Review rate and funding issues

Scope of Work

Scope of Work

- Centrex Modernization
 - Determine viable voice alternatives

Scope of Work

- Centrex Modernization
- Outside Plant Assessment
 - Examination of voice and data connectivity
 - Copper Cable
 - Fiber Optic Cable
 - Pathway
 - Spaces

Scope of Work

- Centrex Modernization
- Outside Plant Assessment
- Disaster Mitigation Plan
 - Identify vulnerabilities and single points of failure
 - Determine mitigation options
 - Estimate what it would cost to mitigate

Scope of Work

- Centrex Modernization
- Outside Plant Assessment
- Disaster Mitigation Plan
- Wireless In-building Penetration Plan
 - Improving cellular coverage

Scope of Work

- Centrex Modernization
- Outside Plant Assessment
- Disaster Mitigation Plan
- Wireless In-building Penetration Plan
- Spectrum Management Plan

Scope of Work

- Centrex Modernization
- Outside Plant Assessment
- Disaster Mitigation Plan
- Wireless In-building Penetration Plan
- Spectrum Management Plan
- Rate and Funding Strategy
 - How do you pay for it

Your Current Situation Voice

Current Situation

- Centrex is UIUC's telephone system
- Centrex is a fee-for-service agreement
- The contract expires June 2007
- Extension options are gone
- Replace by contract end unlikely
- Urbana, Chicago and Springfield are all included in the same contract
- The contract is with AT&T

Current Situation

- Centrex is regulated
- Special tariff
- UIUC's actions affect other campuses
- 27,000 lines at UIUC
- 20,000 lines at Chicago
- Less than 1,000 lines at Springfield

Current Situation

- The main equipment is at the AT&T location
- Significant equipment on campus
- All equipment owned by AT&T
- Telephones owned by UIUC
- Cable owned by UIUC

Rates and Funding

Rates and Funding

- Traditional funding sources are gone
- There is no replacement that does not hurt
- Stable network funding is required
- Rates structures are old
- Current rates are usually not compensatory
- Full cost is usually not known
- Convergence claims complicate rates
- Fully loaded costs generally do not go down
- An opportunity exists to create strategy

WTC Experience

WTC Experience

- University of California, Berkeley
- University of Wisconsin, Madison
- University of Cincinnati
- University of Minnesota
- University of California, San Francisco
- Johns Hopkins Health System
- University of Southern California

Issues

Issues

- Role of Convergence
- Data network impact
- Role of wireless
- Degree of reliability/survivability
- CER readiness

Alternatives

Alternatives

- Strategic choices
 - Continue with Centrex using a separate data network
 - Convert to a PBX with IP capability and continue to use a separate data network
 - Convert to a converged voice and data network

Configuration Alternatives

	<i>Centrex Benchmark</i>	<i>TDM-PBX</i>		<i>Hybrid TDM/VoIP</i>		<i>Server Based VoIP (No TDM)</i>	
Survivability ▶		Less	More	Less	More	Less	More
Degree of Wireless ▼							
Wireless for Convenience	I	II	III	IV	V	VI	VII
Wireless as a Replacement Strategy	VIII	IX	X	XI	XII	XIII	XIV

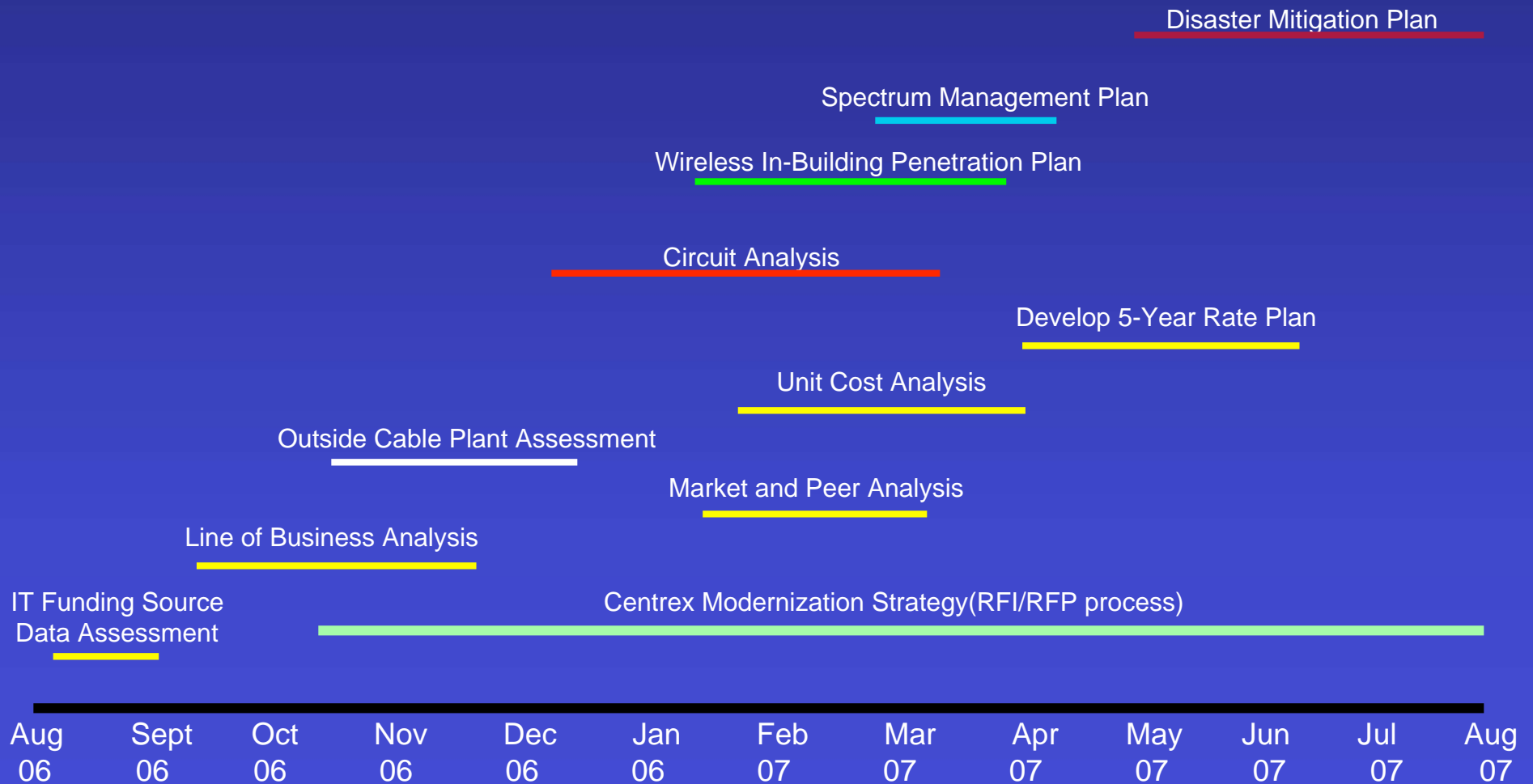
Status

Status

- Teams have been formed
 - Policy Committee
 - Steering Committee
 - Technology Working Group
 - Rate and Funding Working Group
- Centrex renegotiation underway
- Beginning a competitive process
- Conducting Outside Plant Assessment
- Completed Phase I for rates and funding

Timeline

Proposed Time Line



Discussion