



DOE Update

NASPI Working Group

March 6, 2008

New Orleans, Louisiana

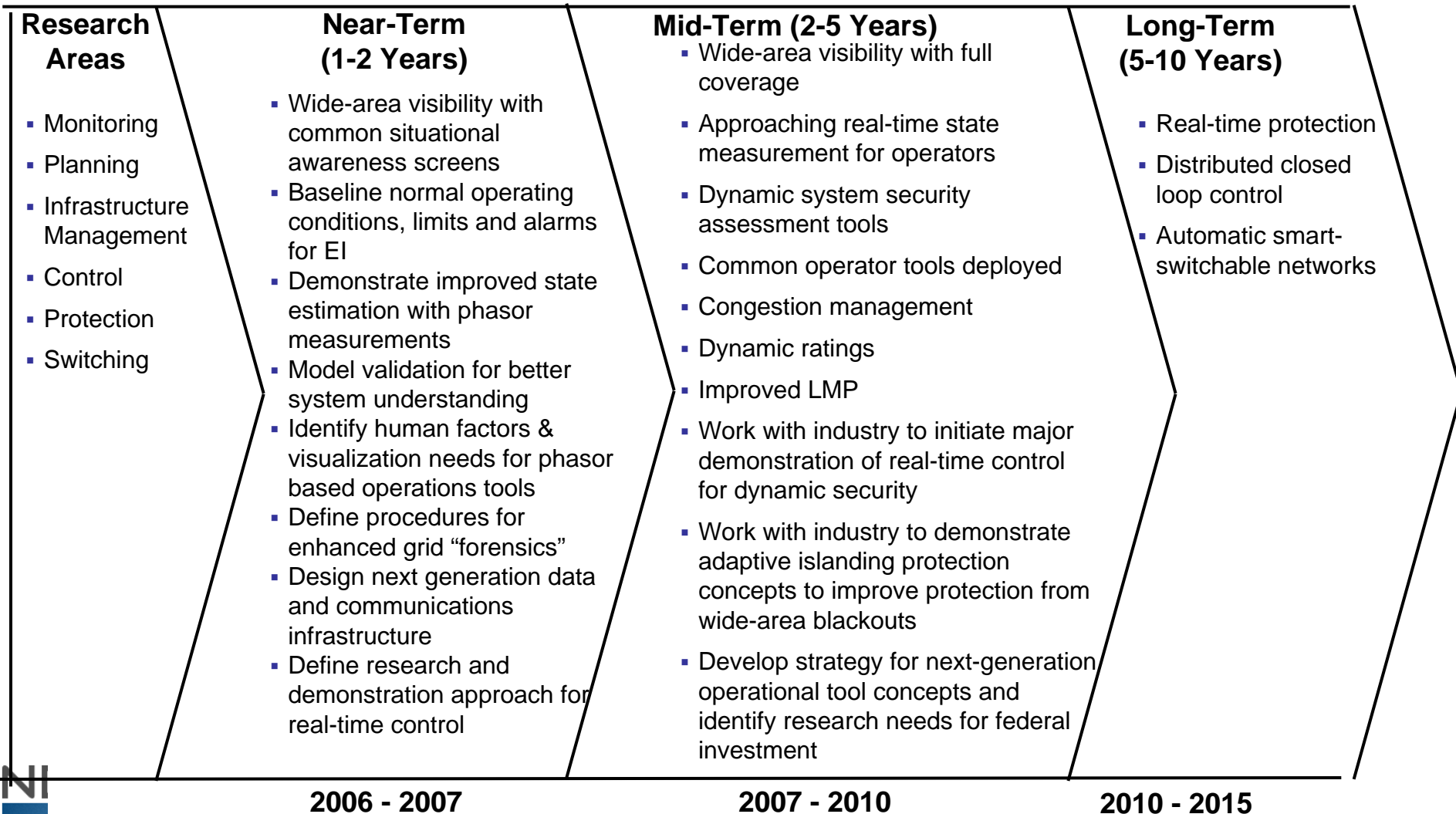
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Office of Electricity Delivery and Energy Reliability

NASPI Network Architecture RFP

- Competitive Solicitation through DOE's National Energy Technology Lab (NETL)
- DOE, NETL and the NASPI drafting team are committed to expediting the process along the critical path to assure award in shortest possible time
- Expected Award Summer 2008

Summary of Research Goals and Milestones



DOE Focus on Long-Term R&D Challenges

Analysis of Data

- Baseline for normal
- Anomaly detection
- Anomaly magnitude characterization
- Anomaly Footprint
- Pattern Detection

**Industry Focus:
Infrastructure**

New Applications

- Wide area situational awareness
- System dynamics assessment
- Improved modeling
- State estimation/measurement
- Grid of the Future – design, monitoring, control, protection, & automated network switching

**DOE Focus:
R&D**

North American SynchroPhasor Initiative

- Leadership and Task Team-directed research
- Real Time Dynamic Monitoring System (RTDMS)
- WAMS Outreach – System Modeling and Validation
- Data Architecture RFP
- NIST SynchroMetrology Lab

Total FY08 funding: \$1,935,000

Automatic Switchable Network

- CCET/TAMU Substation Information
- Modal Analysis for Grid Operations (MANGO)
- Characteristic Ellipsoid Method for Wide-Area Dynamic Monitoring
- Risk-Based Security Assessment
- Statistical Analysis of Abnormal Behavior
- Adaptive Islanding Demonstration
- Real-Time Control Demonstration Scoping
- Wide-Area Multidimensional Nomogram
- Measurement-Based Stability Assessment

Total FY08 funding: \$1,690,000

Summary

- DOE is committed to an expedited award and development of a SynchroPhasor Data and Network Management Specification
- In support of industry's leadership of NASPI, DOE will actively support needed R&D to ensure that the full value of a North American phasor network will be realized