

DOE NASPI Update

NASPI Working Group Meeting

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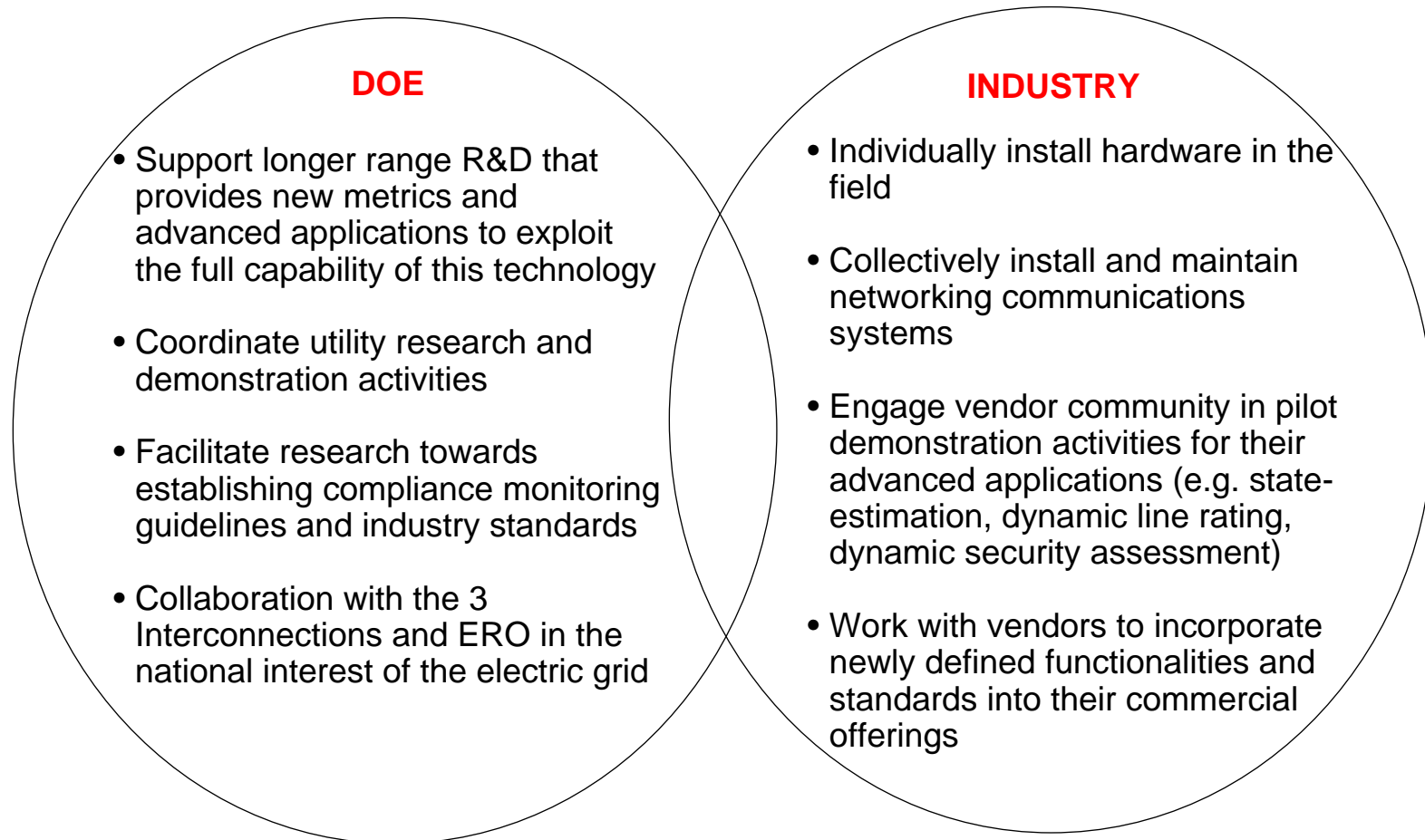
*North American Synchro-Phasor Initiative
Working Group Meeting*

Power System Reliability Analysis *Gaps*

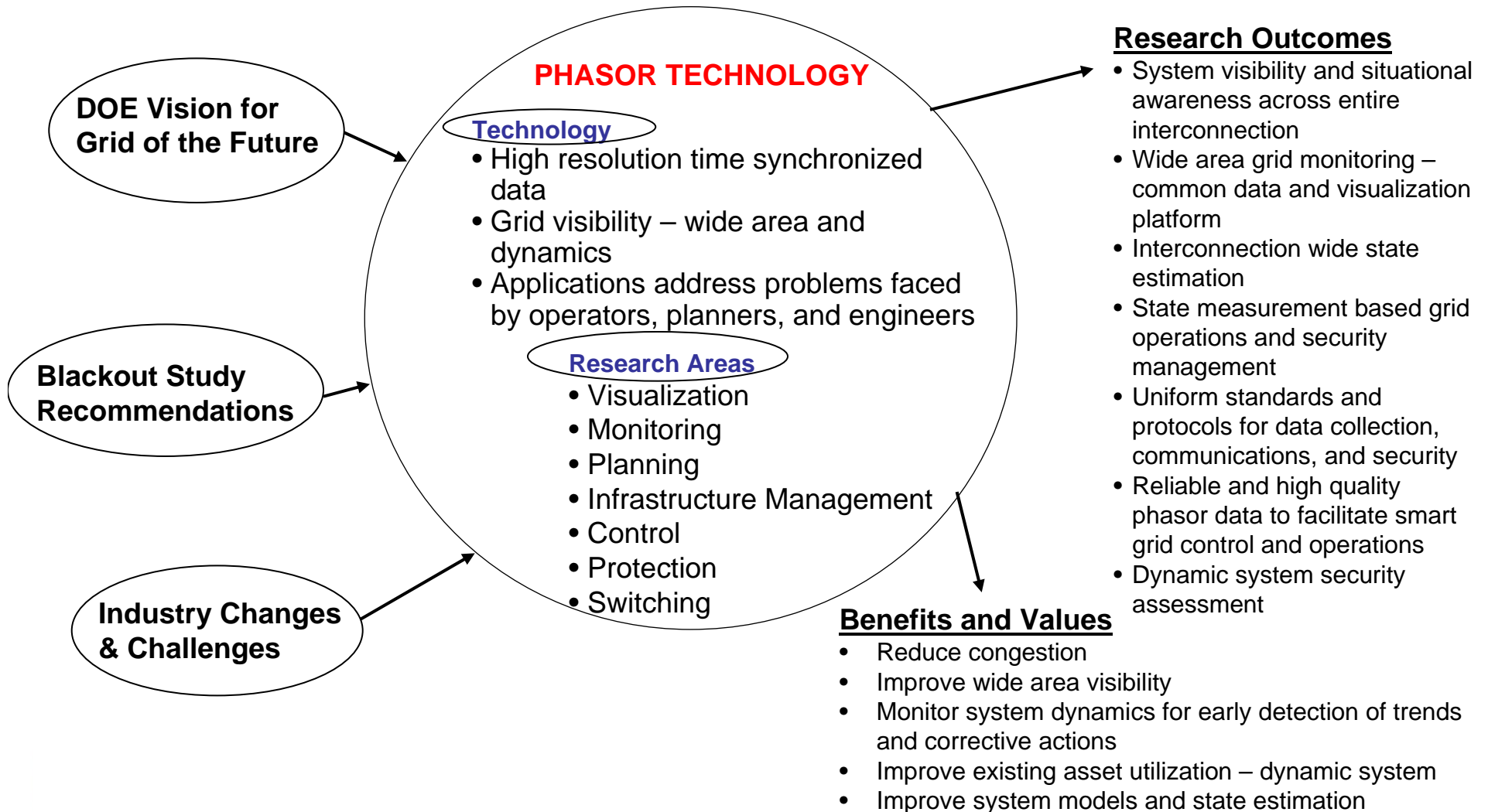
- Lack of wide-area visibility
 - Lack of situational awareness
 - Need for time-synchronized data recorders
- Phasor measurement technology is the solution



Emerging Roles and Responsibilities



Phasor Technology Vision and Roadmap - Overview



Advanced Applications Projects

Analytical Investigations

- Measurement-Based Stability Assessment
- Modal Analysis for Grid Operations
- New Characteristics Ellipsoidal Methods for Monitoring Power Systems Dynamics using PMU Data
- Demonstration of Adaptive Islanding in WECC
- Synchronized Sampling Uses for Real-Time Monitoring and Control

Planning, Testing and Technical Support

- Real-Time Grid Control Scoping Study
- Technical Support to WECC
- SynchroMetrology Laboratory
- Phasor Roadmap Extension
- Expansion of FNet Deployment



Summary

- DOE fully supports industry efforts to promote and enable widespread adoption of advanced monitoring technologies to ensure grid reliability
- 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
- DOE is committed to ensuring that gaps do not emerge as NASPI activities reach full maturity

