



Security

American Electric Power

CSOC Threat and Information Sharing

H Kevin Stogran

Director – IT Risk Services
Risk and Compliance Management
Information Technology



American Electric Power

At AEP, we dedicate ourselves to providing reliable, affordable service and shareholder value, with a continued focus on safety.

Headquartered in Columbus, Ohio, AEP is one of the largest electric utilities in the U.S., serving over 5 million customers in 11 states.

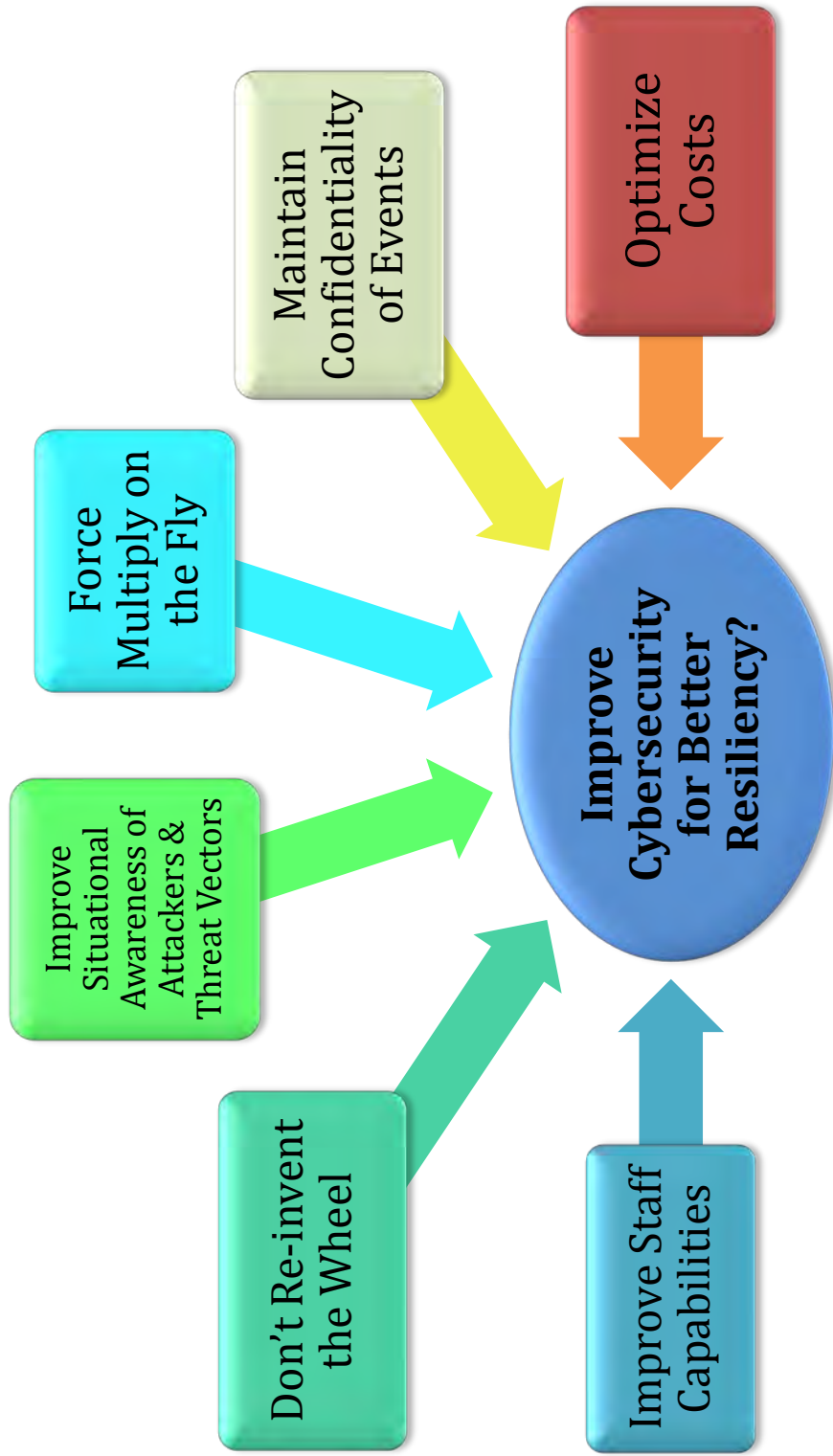


American Electric Power

Our major businesses include:

- **Regulated Utility Operations**
Seven regional electric utilities serving customers across 11 states.
- **Transmission**
The nation's strongest transmission network, with a national vision for the nation's power grid.
 - **39,000-mile electricity transmission**
 - **More 765 kilovolt extra-high voltage transmission lines than all other U.S. transmission systems combined**
- **Power Generation**
One of the nation's largest, most efficient, and most innovative generation fleets with nearly **38,000 megawatts** of generating capacity.
- **AEP Energy Partners**
Providing electric supply to customers in deregulated electricity markets.
- **River Operations**
One of the nation's largest barge companies, transporting coal and other cargoes.

Problem Statement





CSOC Concept - Threat & Information Sharing CSOC – Cyber Security Operations Center



The Idea

- Leverage existing threat sharing models
- Protect the gridSMART network
- Quickly expanded to the full enterprise network
- Partnering with
- Lockheed Martin (DIB)

Funding

- Initial 2009 AEP Ohio gridSMART Stimulus from DOE.
- On-going – Membership Dues

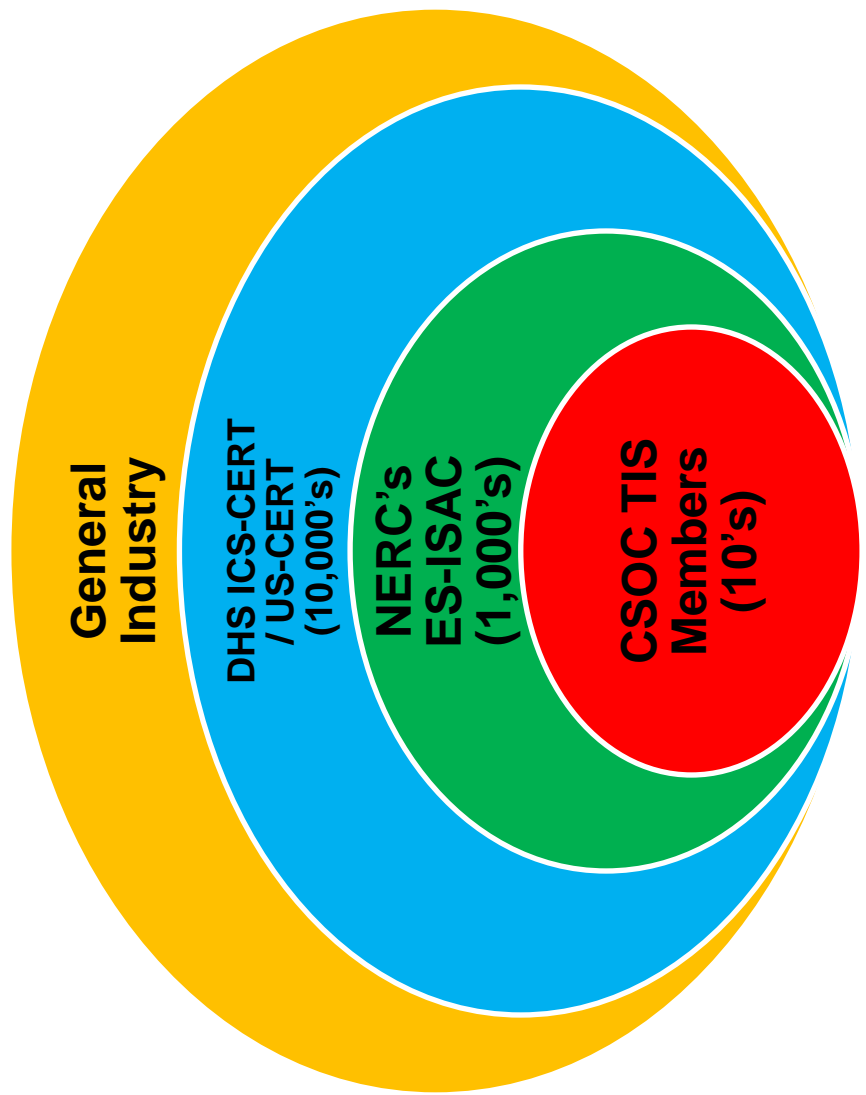
Pilot Demo

- Spring 2011
- Initial deployment of CSOC Portal
- 30+ companies, each with one piece of data
- Strength of Sharing

CSOC Threat & Info Sharing Portal

- Secure website
- Operational July 2012
- Membership Governed & Funded

Threat Sharing - Circles of Trust



CSOC TIS Portal Membership Benefits

Governance	<ul style="list-style-type: none"> • Governed by Participant Steering Committee.
Trust	<ul style="list-style-type: none"> • Close circle of trusted peers. (Will never be large community) • Complementary to NERC ES-ISAC.
Membership	<ul style="list-style-type: none"> • Membership vetted by current members (Not a public organization). • Membership list is confidential.
Training	<ul style="list-style-type: none"> • Monthly Analyst Training • Twice Annual Classroom Training
Funding	<ul style="list-style-type: none"> • Participant funded. • Total operating costs / active members = annual membership fee.
Agreements	<ul style="list-style-type: none"> • Participants signed standard CSOC Agreement with AEP
Staff Multiplier	<ul style="list-style-type: none"> • Allows close peers to contribute on threat analysis.

Program Successes

- Low cost to achieve.
- Community contribution of threat vectors.
- Early identification of industry attack vectors.
- More eyes on the game.
- Advanced training for SMEs.
- Analyst peer community and outreach.

