



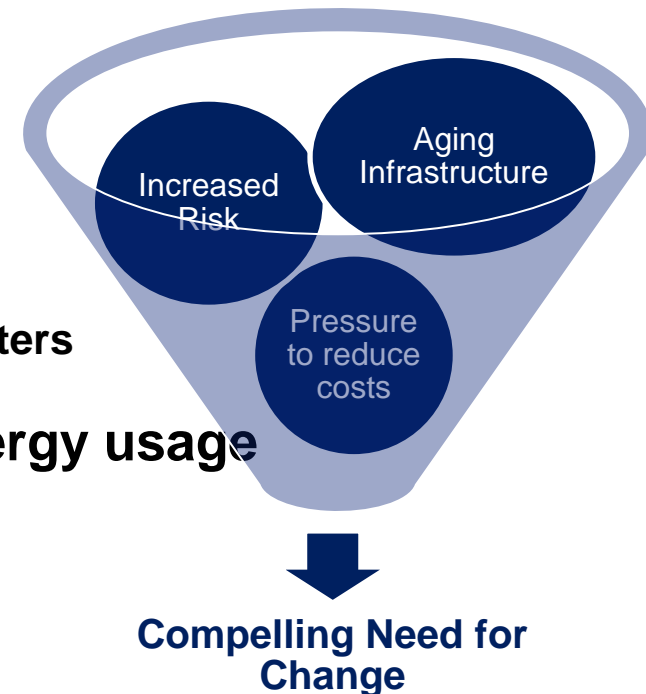
Smart Shore

~ Navy Region Southwest ~



Baseline of Problem

- **Aging infrastructure with deferred and declining investments for facilities sustainment & operations**
 - Deferred maintenance of buildings and building systems
 - Inability to manage enterprise resources due to incomplete business system transformation
 - Lack of people to collect and maintain authoritative information
 - Reduced funding for ATRP program and projects
- **Increased risk from:**
 - Commercial grid and perimeter vulnerabilities
 - Threats of cyber attacks
 - Growing incidence of natural and manmade disasters
- **Increased pressure to reduce costs and energy usage**
 - Rising price of commodities
 - Cuts to national defense budget
 - Aggressive Federal and DoD mandates



How will shore installation management be maintained & funded over their lifecycle to achieve intended benefits?



Terms of Art

Smart Shore

Smart Shore is the integration of operations, utilities, and networking assets to provide synthesized command and control and enable a unified approach to shore management that reduces cost and optimizes resource allocation in a cyber secure manner.

Smart Base

The integration of security & emergency management systems with remote sensing assets in a cyber secure network to allow for remote coordination of the deployment of assets in response to operational demand signals.

Smart Grid

The networking of utilities consumption, commodity production, and utility distribution devices to manage demand, load, and maintenance in near real-time while maintaining cyber security.

Microgrid

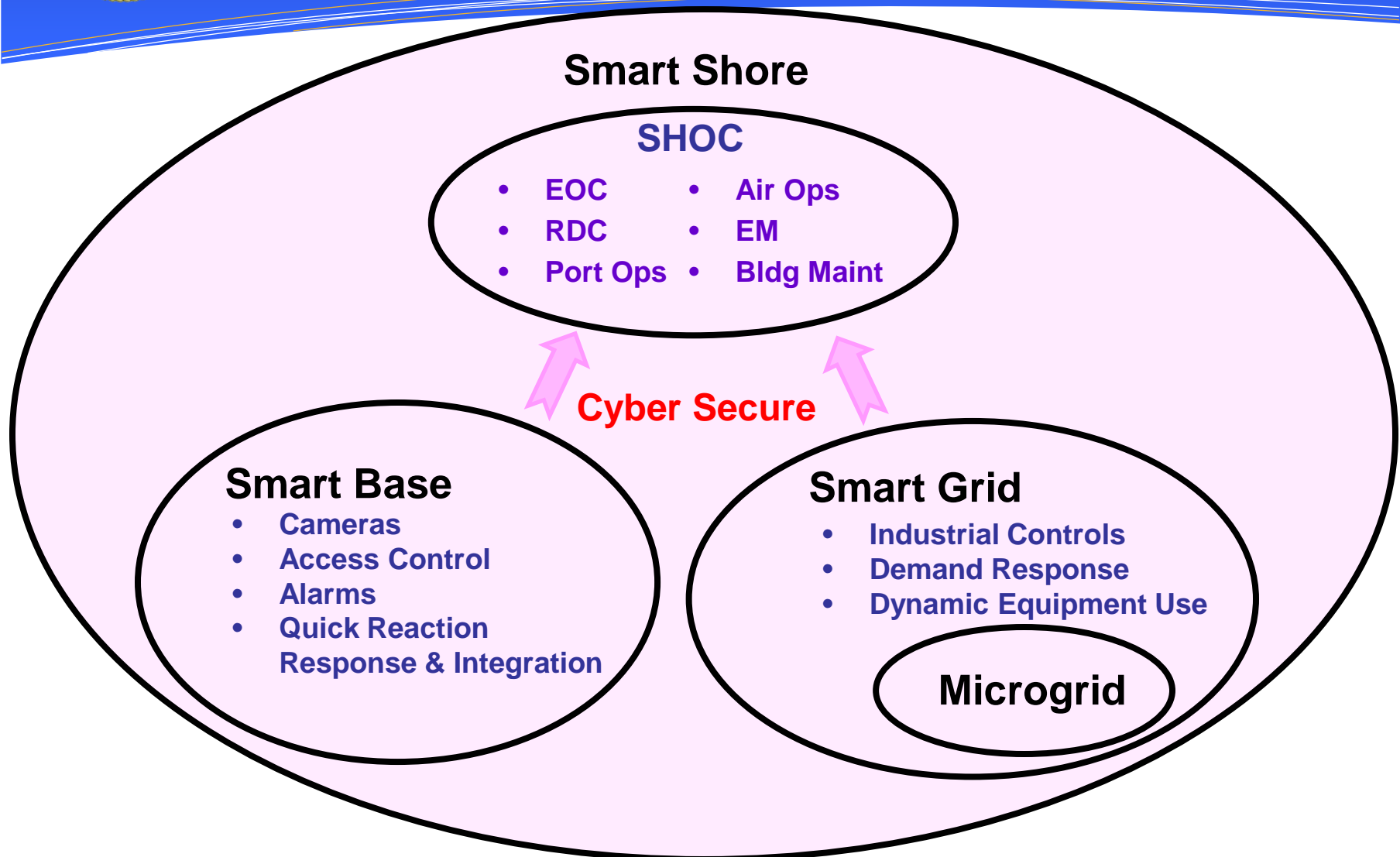
An electrical system that includes multiple loads and distributed energy resources that can be operated in parallel with the broader utility grid or as an isolated system (known as islanding).

Shore Operations Center (SHOC)

Physical location where the Regional Dispatch Center, Utilities Operation Center, and Maintenance Trouble Desk are merged to provide a single regional command and control cell to utilize all network assets to create a common operating picture.



Smart Shore Concept





Elements of Smart Shore

Main Utilities Grid

SMART BASE ASSETS



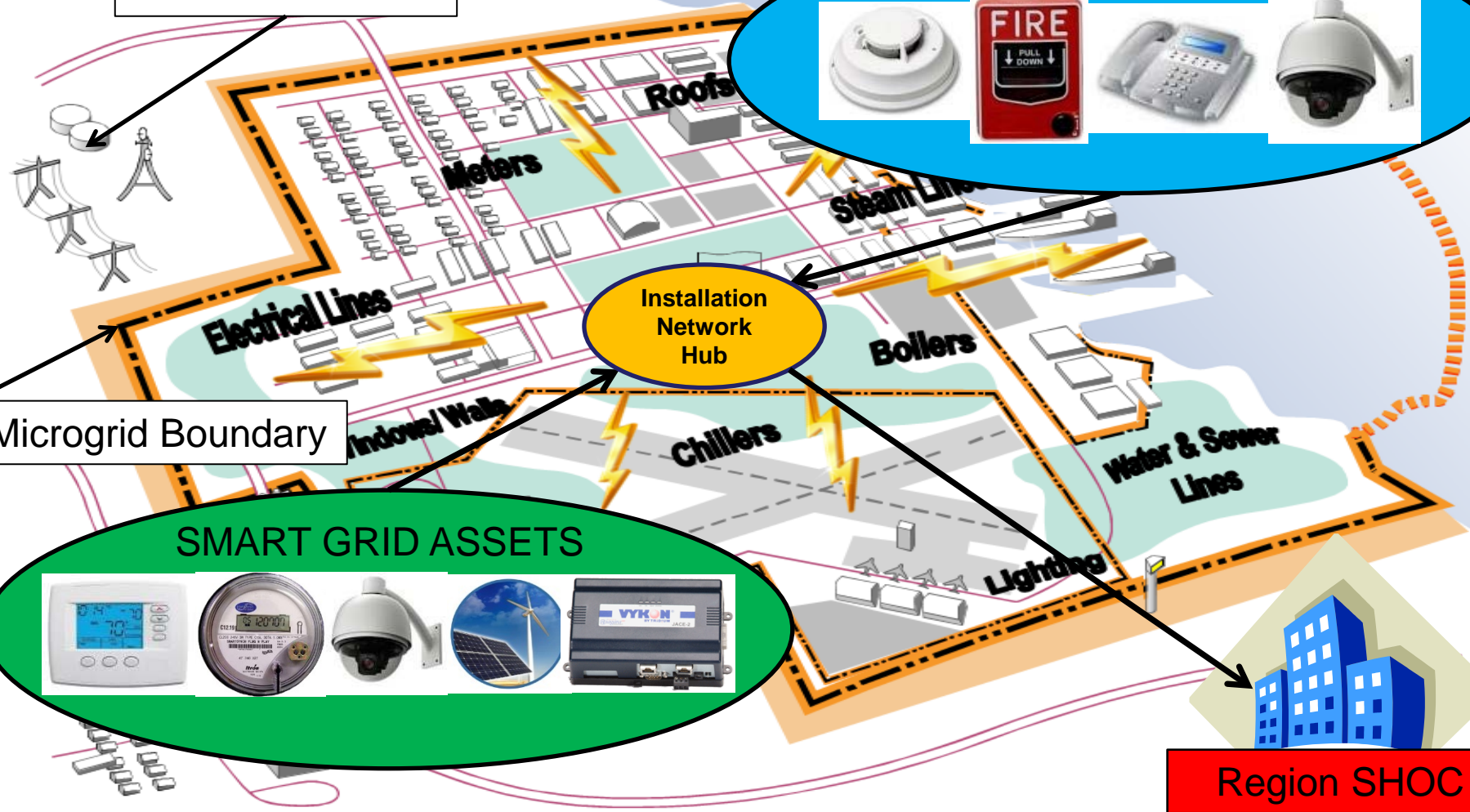
Installation Network Hub

Microgrid Boundary

SMART GRID ASSETS

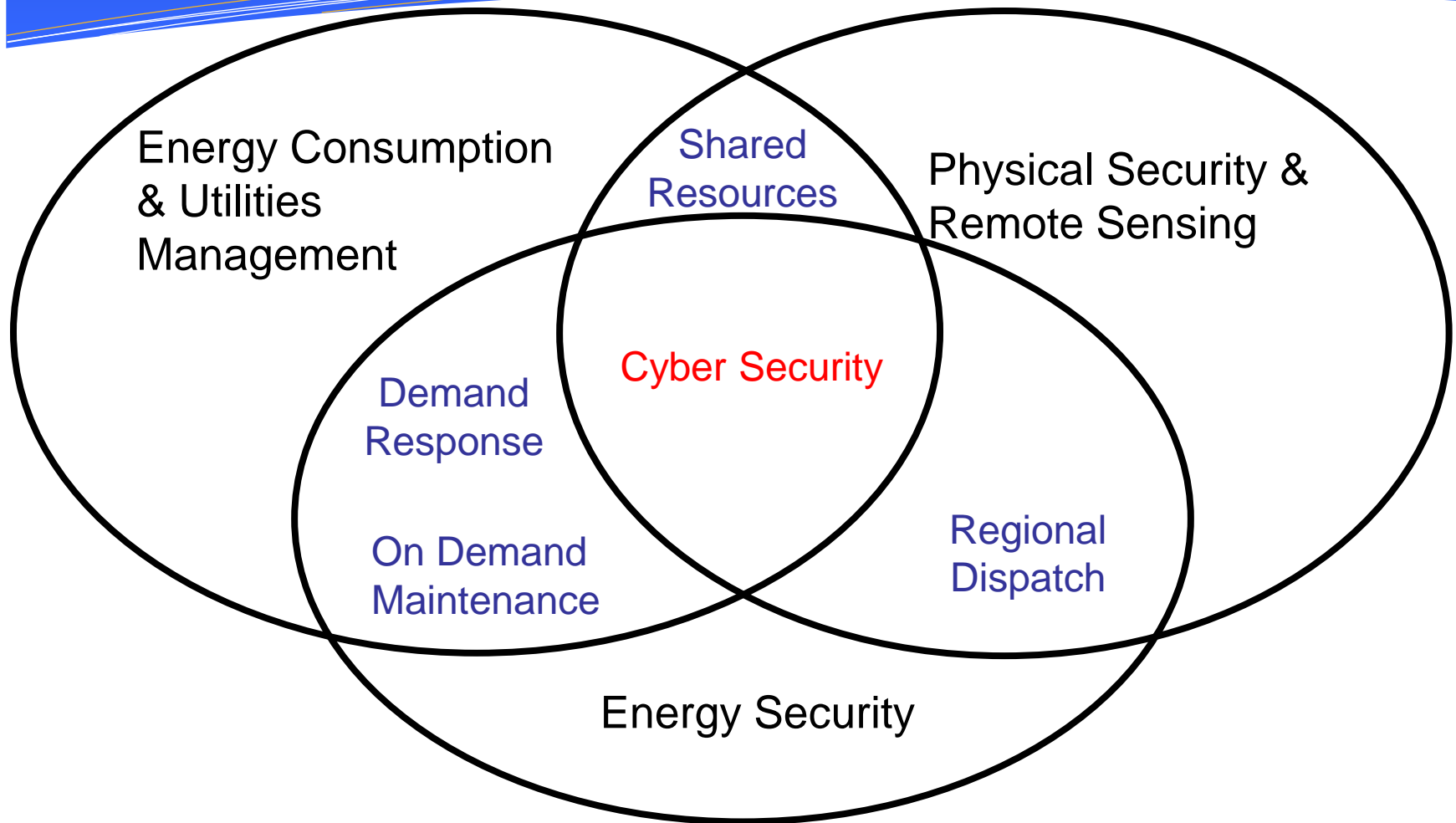


Region SHOC





Smart Shore Synergy



Smart Shore is the integration of operations, energy, and networking assets to provide an unified approach to shore management that reduces cost and optimizes resource allocation in a cyber secure manner.



Present and Future

Smart Shore 1.0

Systems consolidated onto the same platform



*Fiber Plant
Network Assets
Video Cameras
DDCs
Alarm Systems
ELMR*

Smart Shore X.0

*Advanced applications and operating
procedures
leveraging integrated system data*



*Quick Reaction Force Security
Sensor Based Enclaving
DLLR Every 15 minutes based on Spot Market
Condition Based Recurring Maintenance
Dynamic Equipment/Fire Response Integration
Instantaneous Access Restrictions*



Questions?