



Your Navy in the Southwest
Partners with San Diego since 1917

NDIA Gold Coast Small Business Procurement Event

13 August 2014

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Commander, Navy Region Southwest*



Report Documentation Page

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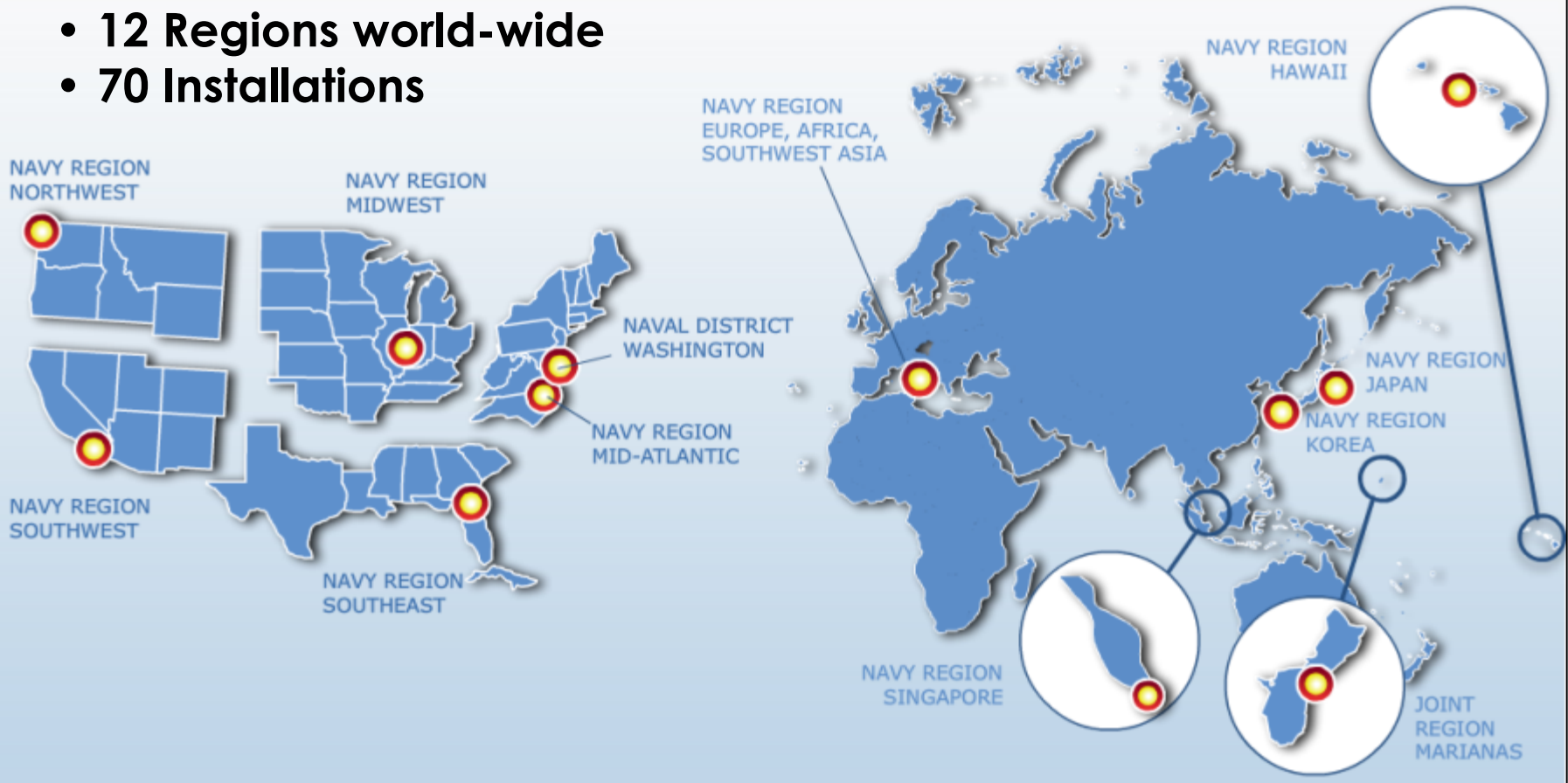
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Worldwide Support to the Fleet

- 12 Regions world-wide
- 70 Installations





National Rebalance to the Pacific

Includes:

- 40 nations
- 60% of the world's population
- More than half of the world's surface
- 30% of the world's GDP
- 70% of the world's oil transits through the Strait of Malacca

• Top 4 trading partners:

- Canada, China, Mexico, Japan

• 6 largest militaries:

- China, U.S., India, Russia, North Korea, South Korea



60% of the fleet to the Pacific



Train Locally, Operate Globally

All carrier air wings train in Southwest airspace

NOCAL Range

All west coast strike groups & expeditionary strike groups train in ranges off California

Pt. Mugu Range

SOCAL Range

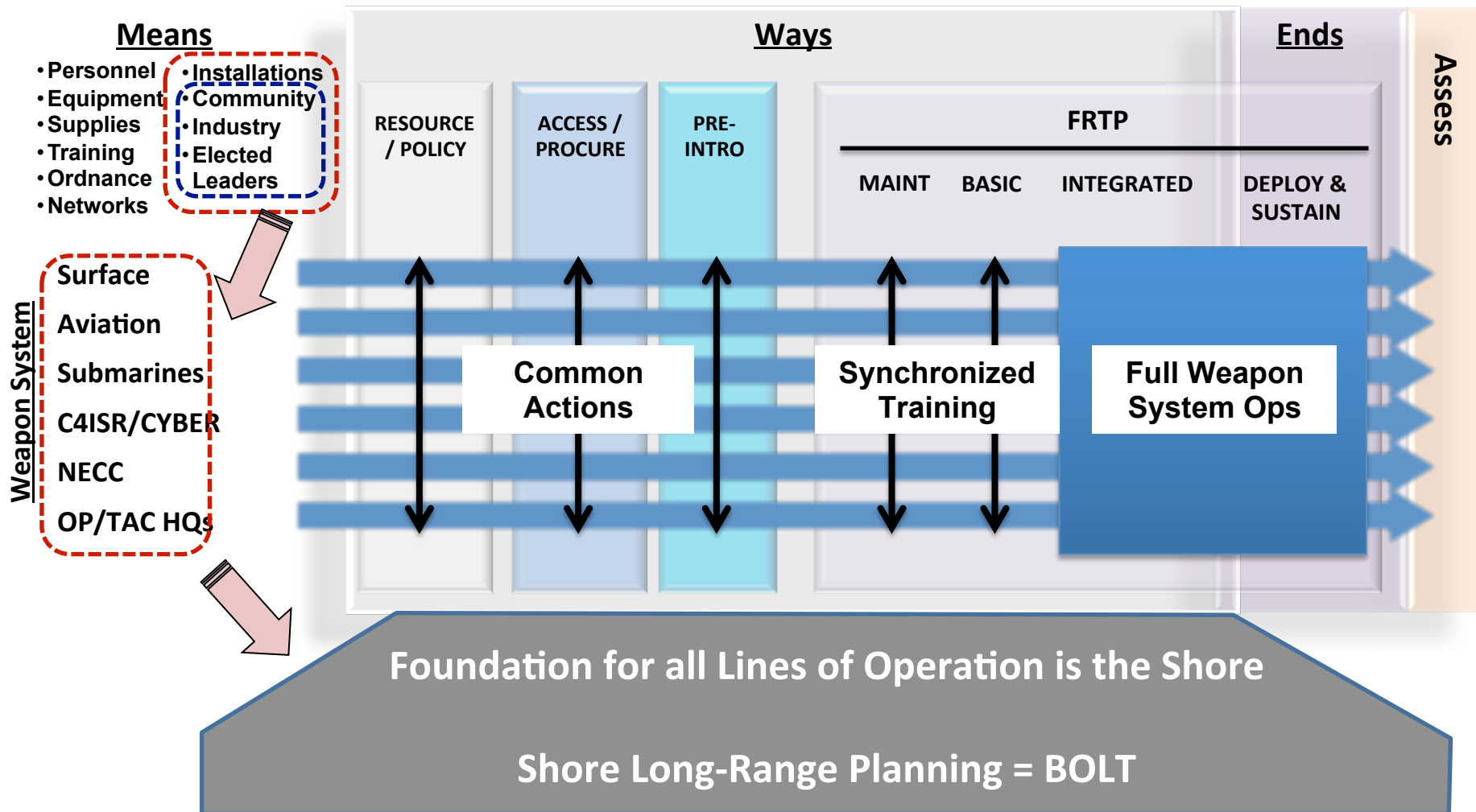
67% of the nation's military training airspace is in the Southwest





Readiness Kill Chain

Governance / C2 – Drives integration & synchronization vertically across weapons systems & horizontally across the readiness lifecycle





NRSW Lines of Operation

- **Rebalance**

- Near, Mid, Long

- **Energy**

- Culture
- Efficiency
- Sustainability
- Security

- **Encroachment**

- Development
- Regulatory
- Legislative

- **Environment**

- Stewardship: Air, Sea, Land



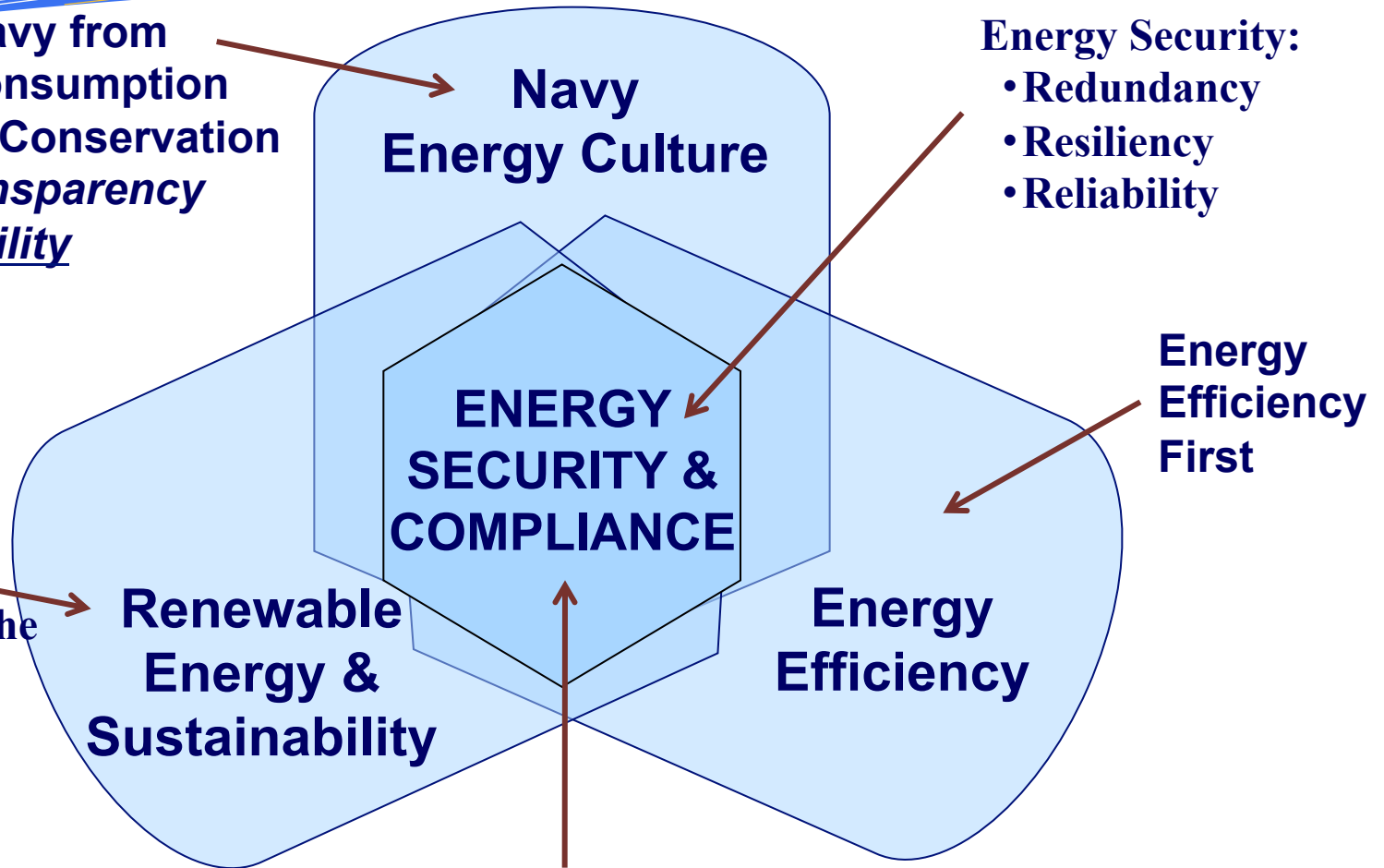


Navy Shore Energy Strategy

Transform Navy from Culture of Consumption to Culture of Conservation Through Transparency & Accountability

The Right Technology at the Right Time

- Watch
- Partner
- Lead



Energy Security:

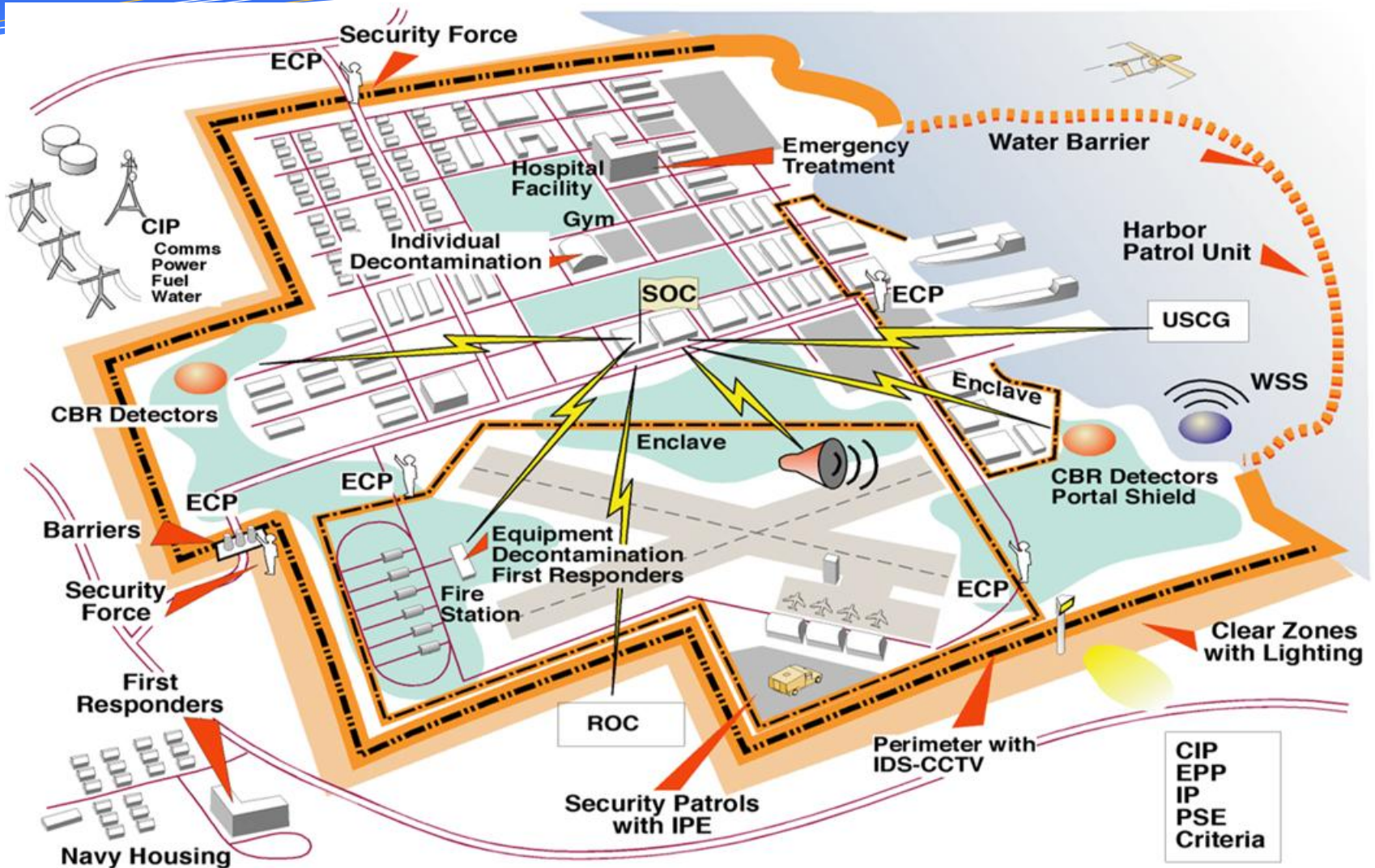
- Redundancy
- Resiliency
- Reliability

Energy Efficiency First

“Compliance” is Unique to the Shore

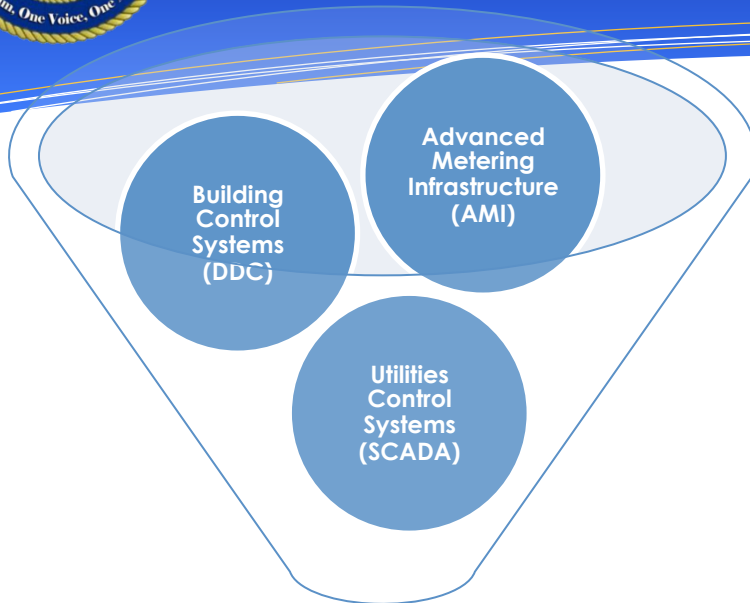


Shore Energy Starts with Shore ATFP Program Architecture





Navy Smart Grid



Systems Integration Software & Hardware
Personnel Training
Organizational Change

SMART GRID

- **Market Driven Near Real Time Energy Management**
- **Demand Response, Peak Shaving, Load Leveling**
- **Condition Based Targeted Maintenance and Repair**
- **Predictive maintenance, Remote Diagnostics**
- **Cyber secure utilities and energy systems**



Operational Guiding Principles

Guiding Principle 1



The Capabilities shall enable the means to achieve a better financial "bottom line."

Guiding Principle 2



The Capabilities shall enable the means to achieve improved Mission Readiness AND shall NOT risk Mission Readiness through information technology.

Guiding Principle 3



The capabilities shall enable recognition of new opportunities and enable the ability to LEAP forward when new technologies, new regulatory changes, ... new anything appear.

Imperatives to SmartGrid Strategic Success



Smart Grid Architecture

Smart Grid

- Advanced Metering Infrastructure
- Substation & Distribution Automation
- Two-Way Communications & Control
- Adaptive Relaying

Cyber Security

- Virtual Secure Enclave
- Live Action Network
- Secure Distributed Monitors
- Situational Awareness

Dynamic Control

- Load Control Systems
- Islanding Control System
- Energy Management System
- Seamless Grid Synchronization

Demand Side Management

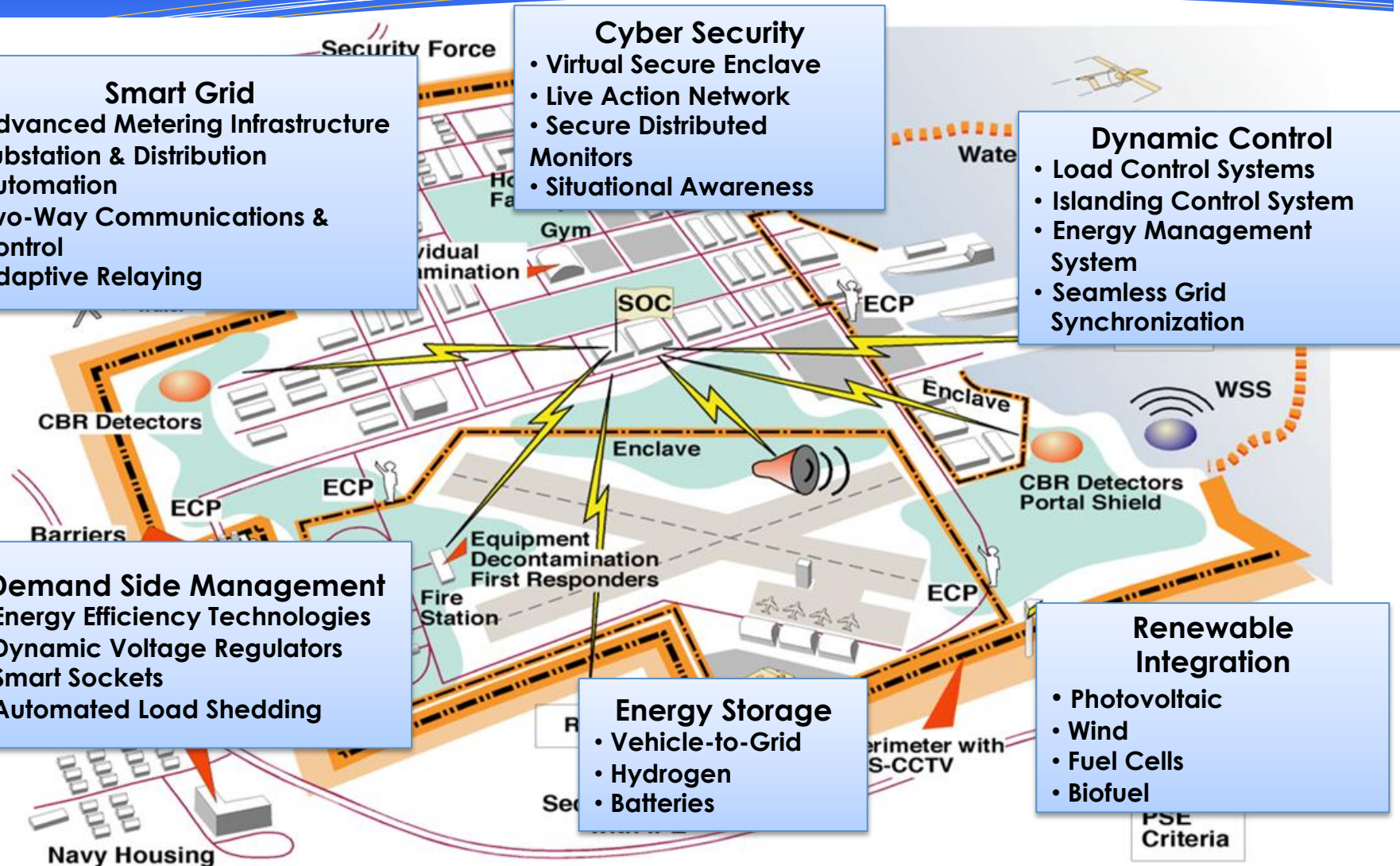
- Energy Efficiency Technologies
- Dynamic Voltage Regulators
- Smart Sockets
- Automated Load Shedding

Energy Storage

- Vehicle-to-Grid
- Hydrogen
- Batteries

Renewable Integration

- Photovoltaic
- Wind
- Fuel Cells
- Biofuel





Questions?

NAVY REGION SOUTHWEST

Where the Pacific Fleet Begins

