



SYSTEM OF SYSTEMS SECURITY INITIATIVE

*A Consortium of Industry, Government and Academia
Providing integrated scalable solutions serving
local, regional and national needs to meet the
emerging threats of the 21st Century*



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Outline

- **Background-Why SOSSEC is needed**
- **What SOSSEC is**
- **How SOSSEC meets the need**
- **Status, Vision and Plan**

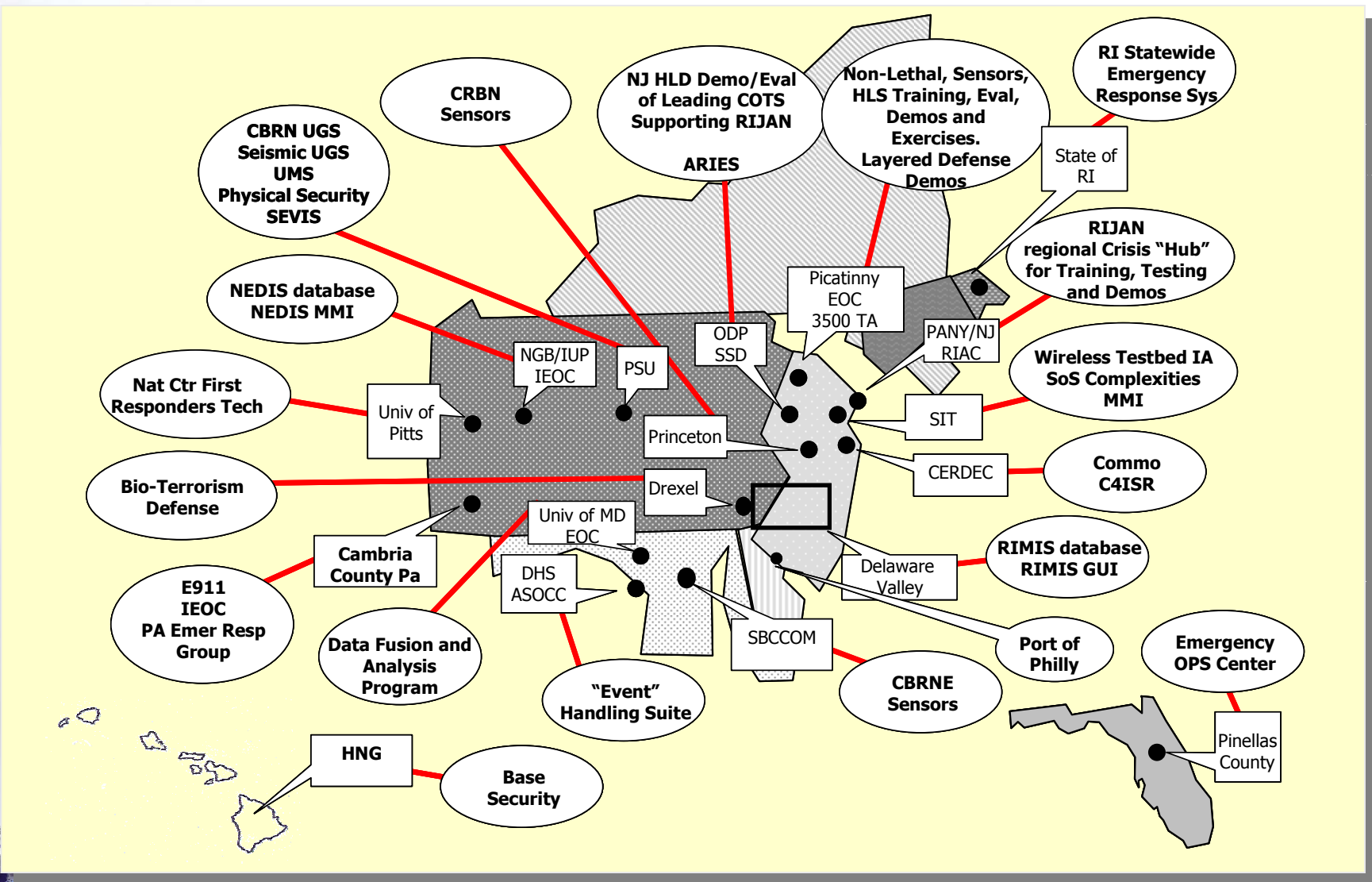


Why SOSSEC Is Needed

- **Homeland Security and Force Protection demand agility and responsiveness that match the threat**
 - Collaboration and cooperation from local through federal/military levels
 - Across geographic, jurisdictional, organizational boundaries
 - "Sense and respond"
 - All phases: intelligence alerts through response and recovery
- **Challenge demands new tools and technologies- but transcends any individual technology**
- **System of Systems solutions are needed to deliver the required range of capabilities that tie together people, organizations, strategies and technology to meet the threat**
- **Value added for participating programs**



Current Situation: Many Isolated "Islands" of Capability



How SOSSEC Meets the Challenge

- **Integration of multiple existing and ongoing HD/HS projects and systems markedly improves regional security - rapidly and efficiently**
- **Application of DoD Net-Centric Operations concepts**
- **Practical strategy for expansion and replication of regional capabilities will accelerate achievement of large scale interoperable security capabilities**
- **The growing SOSSEC Consortium represents a community of interest to foster best of breed concepts, technologies and products for long term national HD/HS development**



SOSSEC Strategy Fosters Effective Partnering

- **Standards- Based Service Oriented, Web Service Enterprise Architecture Framework for Ease of Affiliation**
 - “Loose” integration, avoiding the pitfalls of traditional approaches
 - Faster, less costly
 - Preserves autonomy of individual communities’ decision making
 - Leverages DoD experience and capabilities- Net Centric Operations
- **Federated Operating model facilitates collaboration across projects**
- **A practical spiral development strategy**
 - High impact solutions near term
 - Rapid, efficient evolution to large scale solutions for homeland protection
 - Dual- use benefits to the warfighter
 - Best of breed technology adoption
 - Natural migration path from pilot programs to self-sustaining programs
- **A means to rapidly expand and propagate interoperable System of Systems capabilities across regions- potentially to national scale**

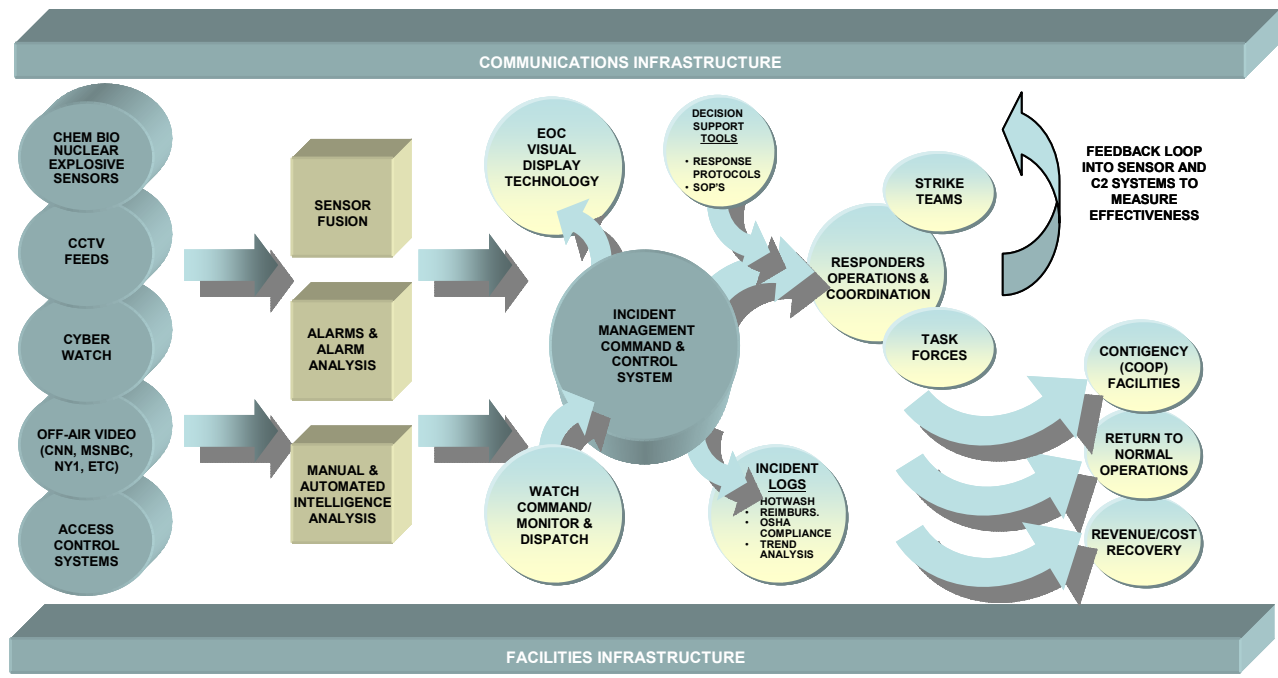
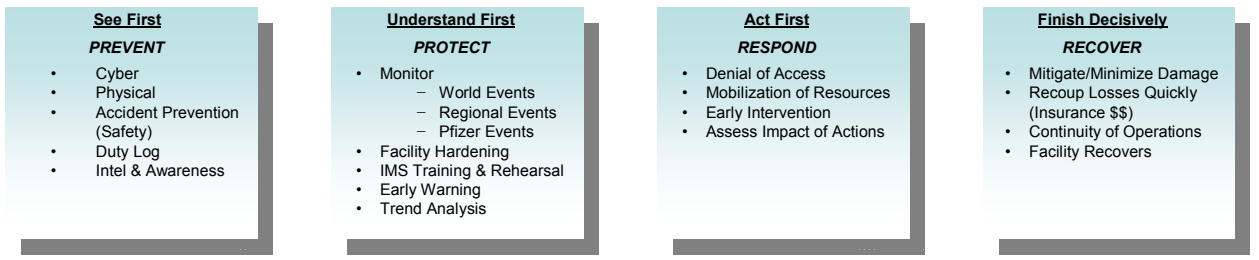


New Model, Proven Principles



Standards- Based Enterprise Architecture Framework

Supports all Phases of Homeland Defense/Force Protection Operational Cycle



Support for National/Response Plan and National Incident Management System

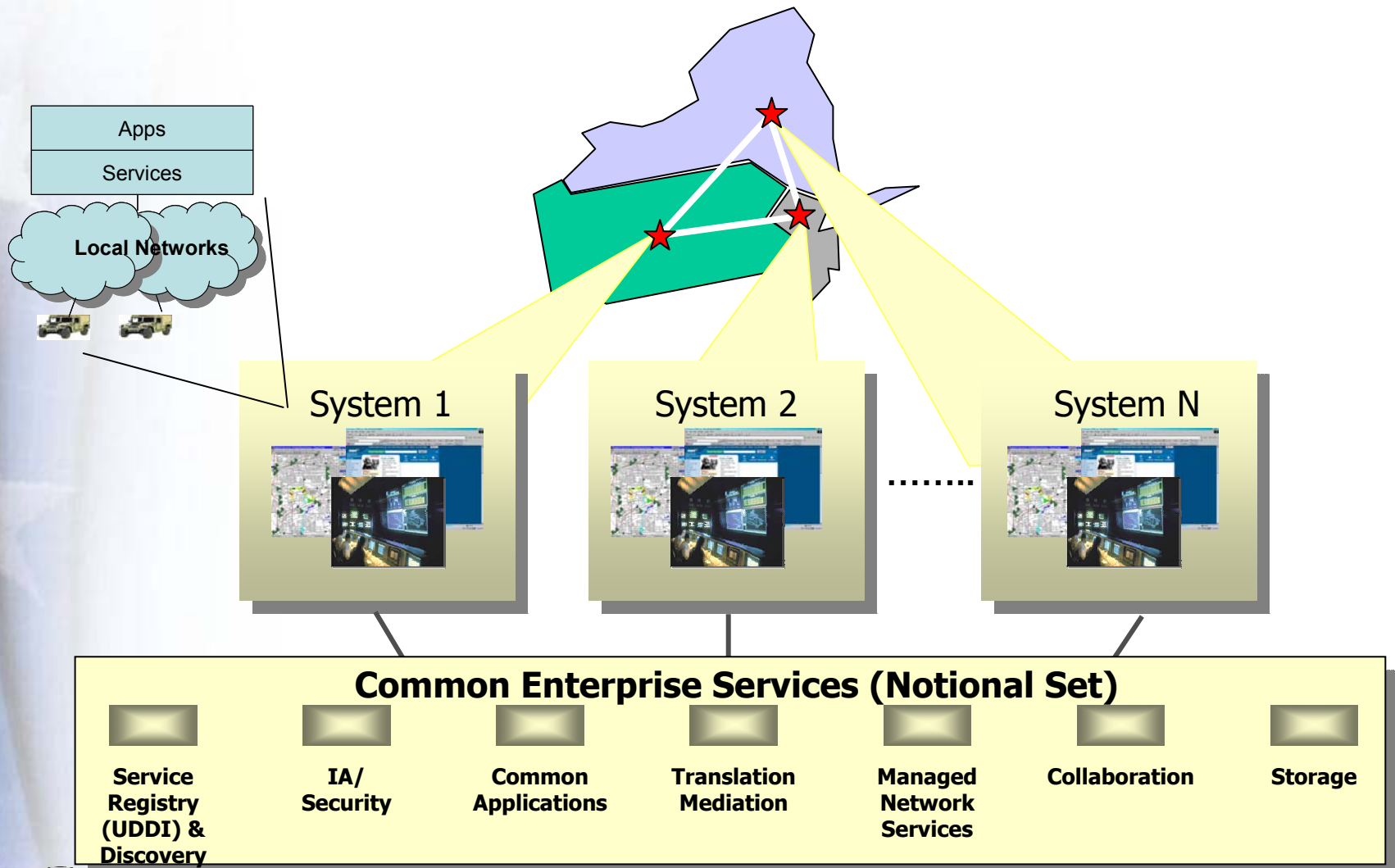


SOSSEC Enterprise Architecture Framework

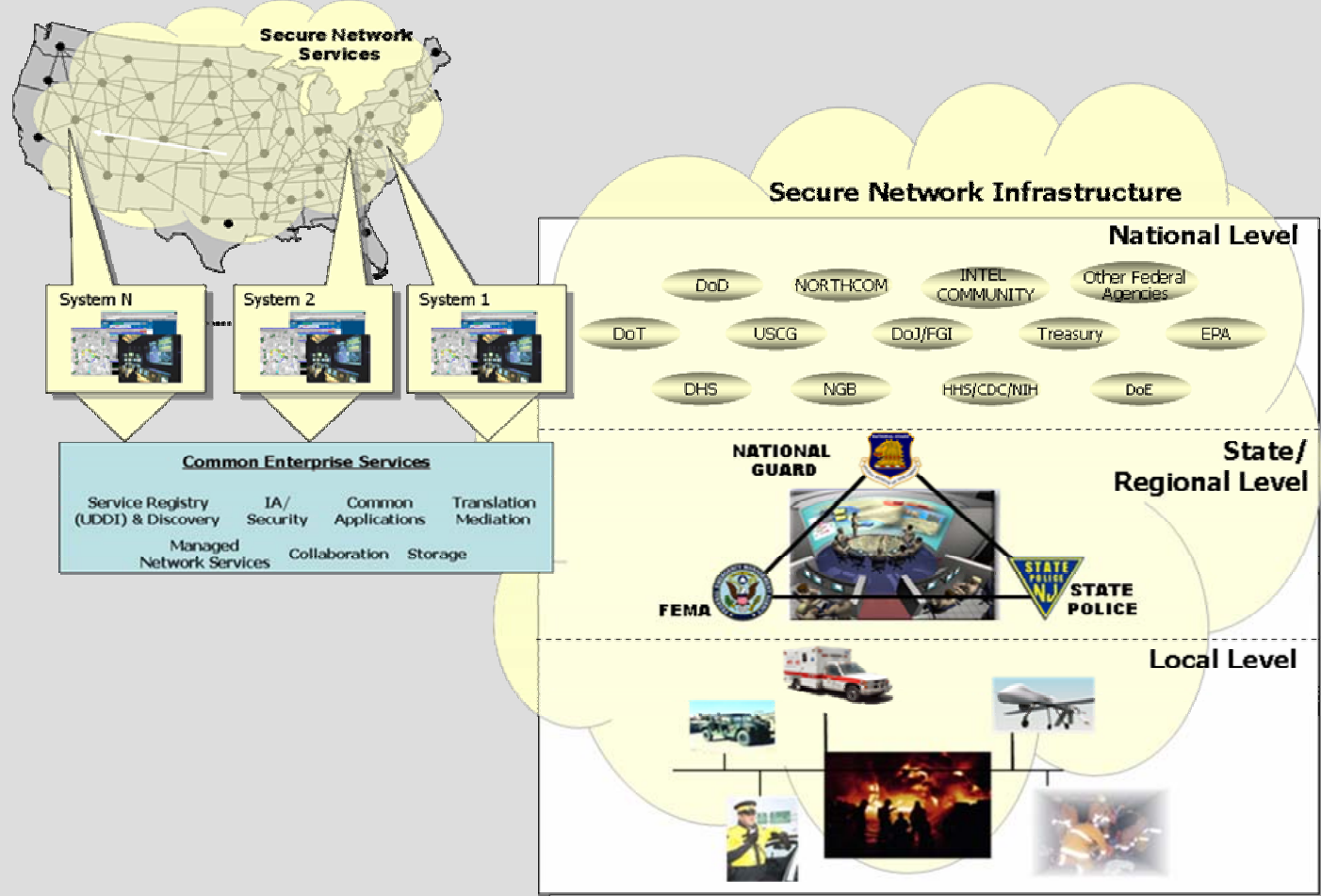
- **Standards- based EA Framework- not a rigid architecture**
- **Applies Service Oriented Architecture and Web Services concepts and standards**
- **Network- Centric Core Enterprise Services are a critical component**
 - Better, Faster Planning and Decision making via enhanced access to information and services outside individual user domains
 - Better collaboration through shared situation awareness, rapid community of interest formation- sense and respond operations
 - Interoperability
 - Ease of affiliation
- **Basis for expanding System of Systems**



"Loosely" Integrated Systems Supported by Common Enterprise Services



Network-Centric Enterprise Architecture Framework Supports Agile, Coordinated Operations



SOSSEC Vision and Plan

START-UP:

- Achieve early critical mass & establish momentum by integrating existing programs on regional level
 - Firmly establish "core" consortium
 - Implement initial enterprise building blocks

TRANSITION:

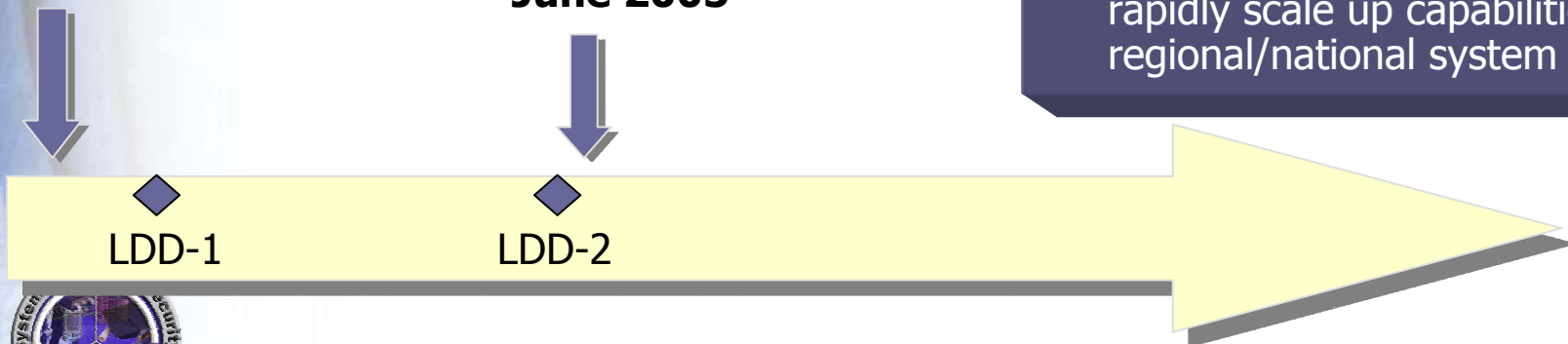
- Expand coverage to other regions & organizations by attracting new members to consortium
 - Facilitate transition of projects to mainstream programs at federal/regional state levels
 - Expand enterprise service functions

LONG-TERM:

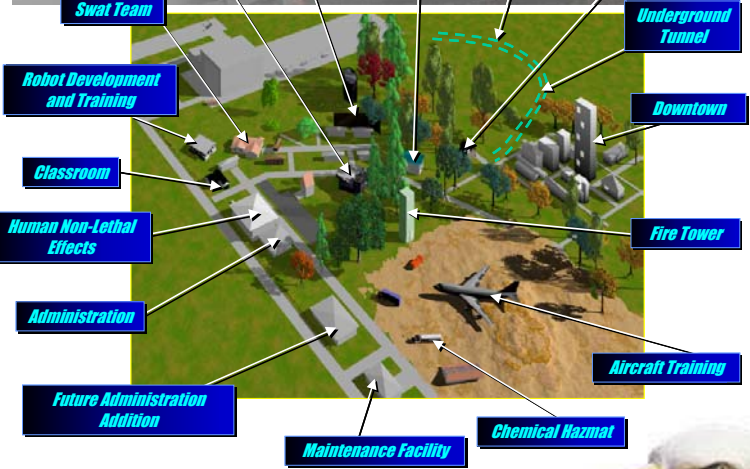
- Facilitate continuous development of new best of breed solutions
 - Provide assistance to communities to rapidly scale up capabilities & link to regional/national system of systems

**SOSSEC
Launch
July 2004**

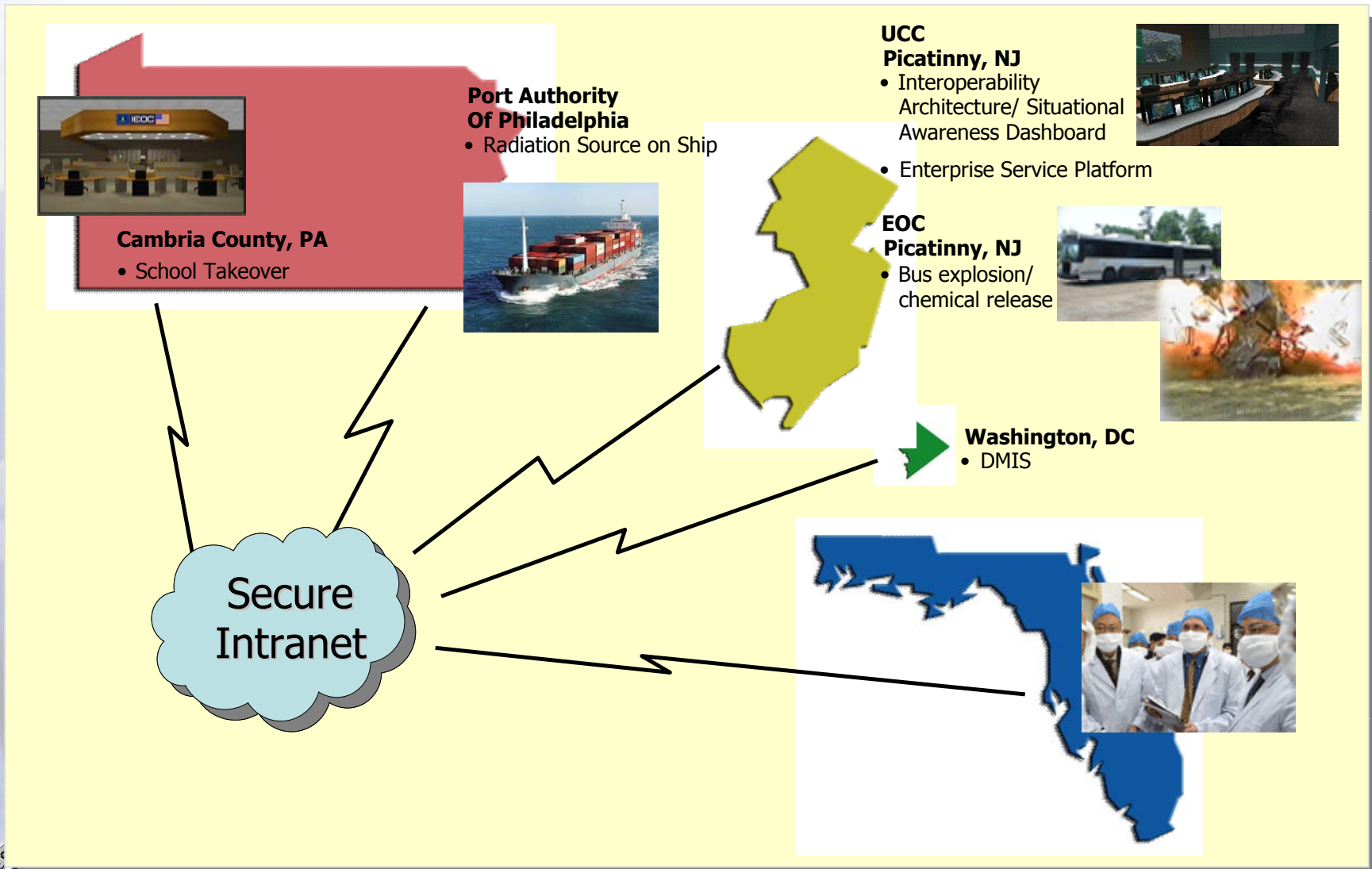
**PRESENT
June 2005**



Picatinny, New Jersey



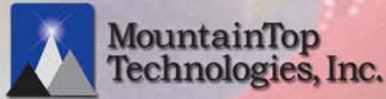
Layered Defense Demonstration - 2





SYSTEM OF SYSTEMS SECURITY INTEGRATION FOR HOMELAND DEFENSE AND HOMELAND SECURITY

Forging responsive, enduring security through integration that harnesses the combined power of people, processes and technologies across organizations and geographic boundaries



*A partnership of
Government, Industry
and Academia*

