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Information Technology (IT) Efficiencies

Cross Functional Solutions Directorate (CFS)
8 May 2012

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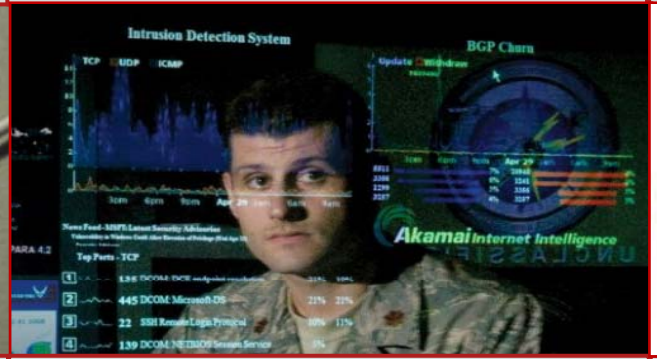
Current DoD IT Environment

Hundreds of sub-optimal data centers and networks incur **unnecessary costs**

Limited interoperability reduces information sharing and collaboration on mission threats

Increasing demand for **new technology** on **rapidly** evolving devices

IT Programs average **81 Months*** Cannot rapidly and efficiently field new technology to meet warfighter needs



Cybersecurity vulnerabilities threaten to exploit classified information and endanger mission success

Current IT delivery process hinders our ability to take advantage of **new commercial technology**

* Source: Defense Science Board

Cyber Threat

- We are increasingly vulnerable as new technologies emerge
- Threat is indirect and multifaceted
- Current environment is indefensible

Cybersecurity vulnerabilities threaten to exploit classified information and endanger mission success

Background

- Secretary of Defense's Efficiencies
  - 9 Aug 10: IT community tasked to address organization optimization, and sustainable processes
  - 6 Oct 10: Secretary of Defense provided direction to consolidate the IT infrastructure to optimize for the joint environment (COA 2)
  - 5 Oct 11: DepSecDef signed DoD IT Enterprise Strategy & Roadmap (ITESR)
- TANK Direction
  - 14 Nov 11: TANK directed Components to build the DoD Plan to achieve IT Efficiencies as a result of USCYBPERCOM presentation
  - 16 Dec 11: DoD IT Effectiveness Way Ahead presented
    - Task #1 – Architectural definition (13 Feb 2012)
    - Task #2 – POA&M (6 Apr 2012)
    - Task #3 – ROM cost (11 May 2012)

Efforts Merged and Codified in ITESR

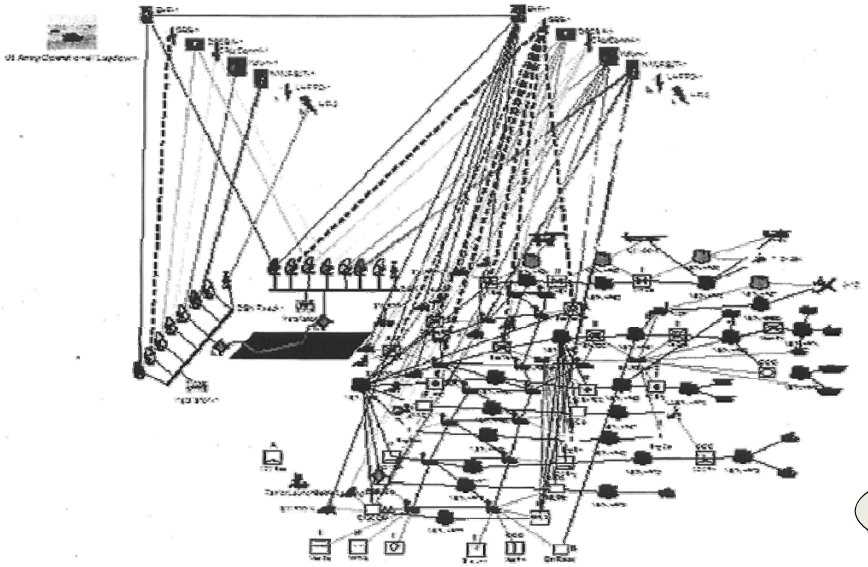
Today's Challenge

- Services do not share a common understanding of:
  - Architecture, requirements & way ahead
- Action Plan: DoD CIO with Joint Staff and USCYBERCOM
  - Convene an Executive Group comprised of Services and USCYBERCOM
  - Translate Enterprise vision into executable roadmap
  - Ensure roadmap defines impact at tactical edge

Moving to the Enterprise Demands a Team Effort

The Transformation Challenge

From This:



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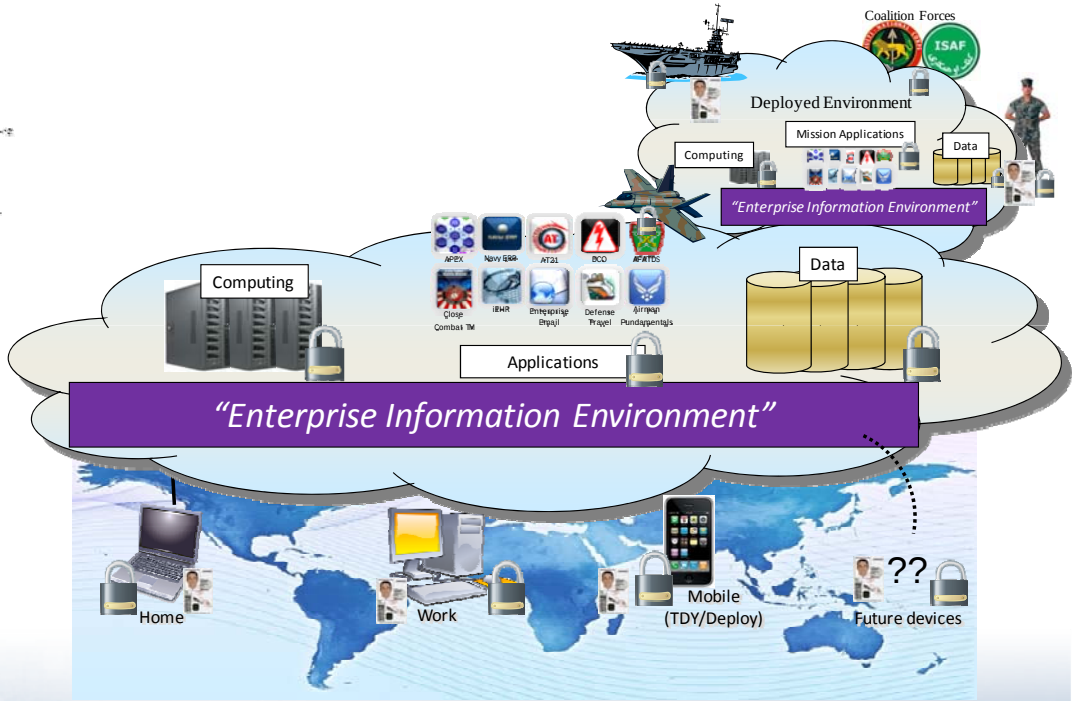
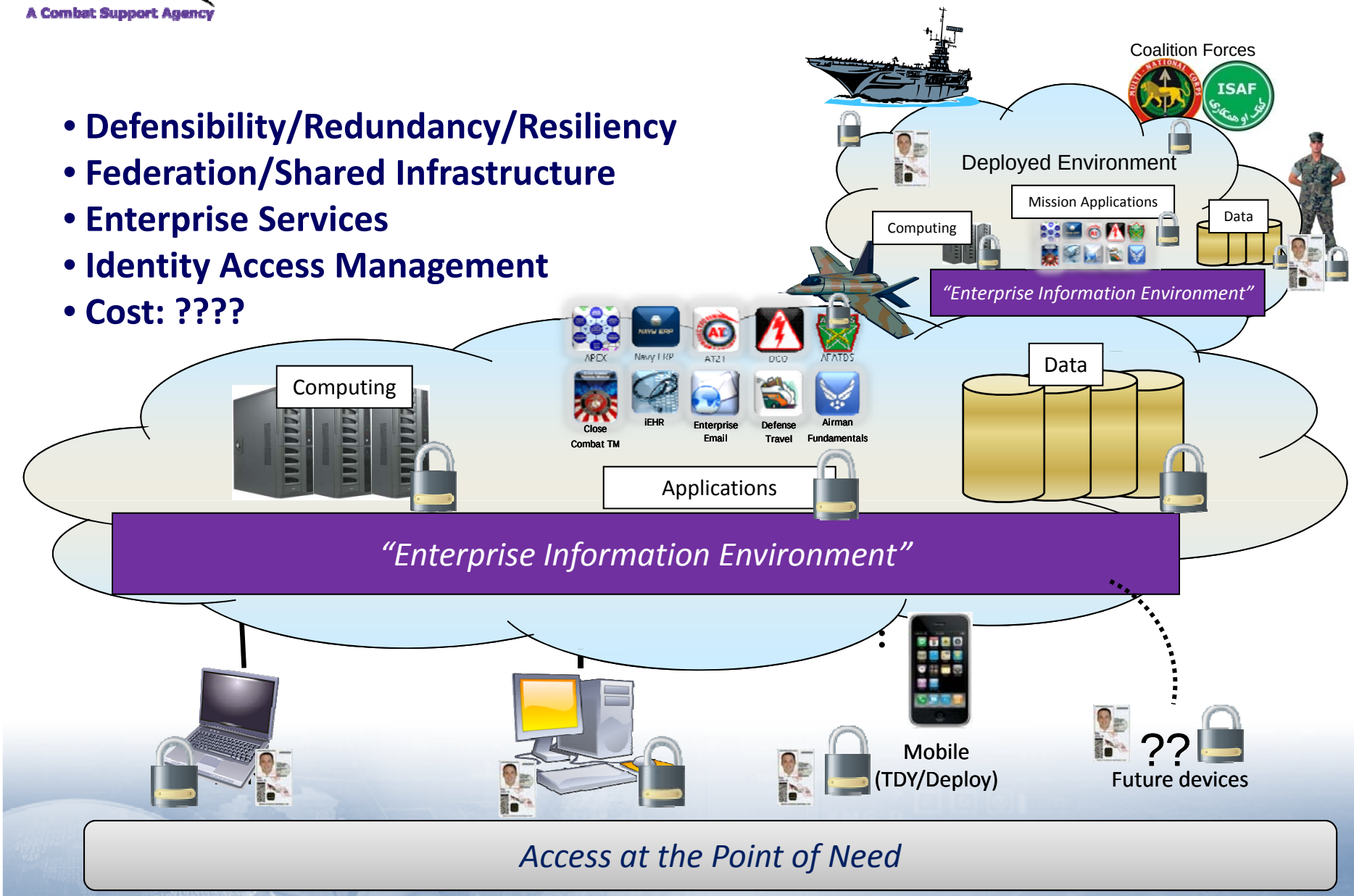
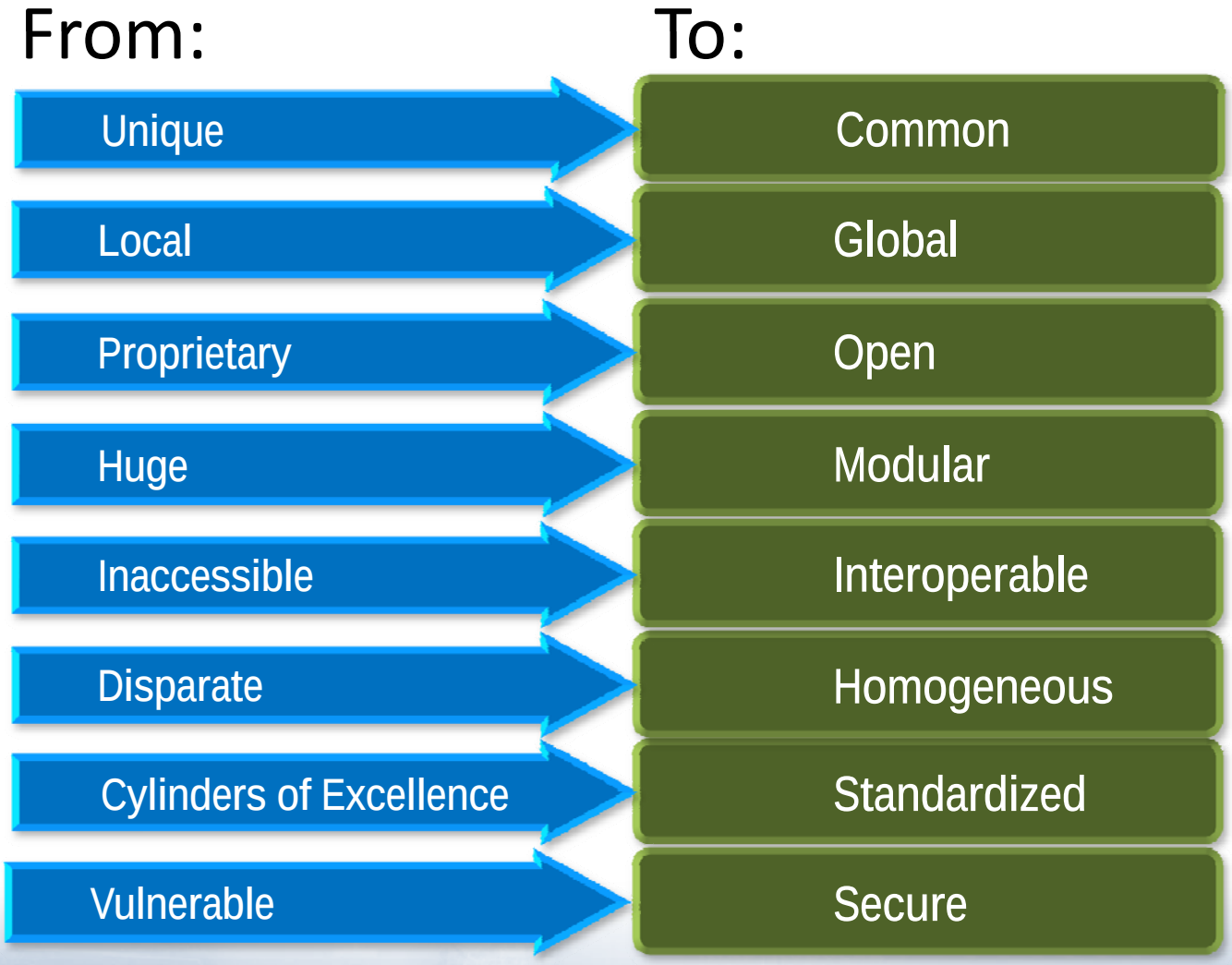


Joint Information Enterprise End State

- **Defensibility/Redundancy/Resiliency**
- **Federation/Shared Infrastructure**
- **Enterprise Services**
- **Identity Access Management**
- **Cost: ????**



Stovepipes to Enterprise

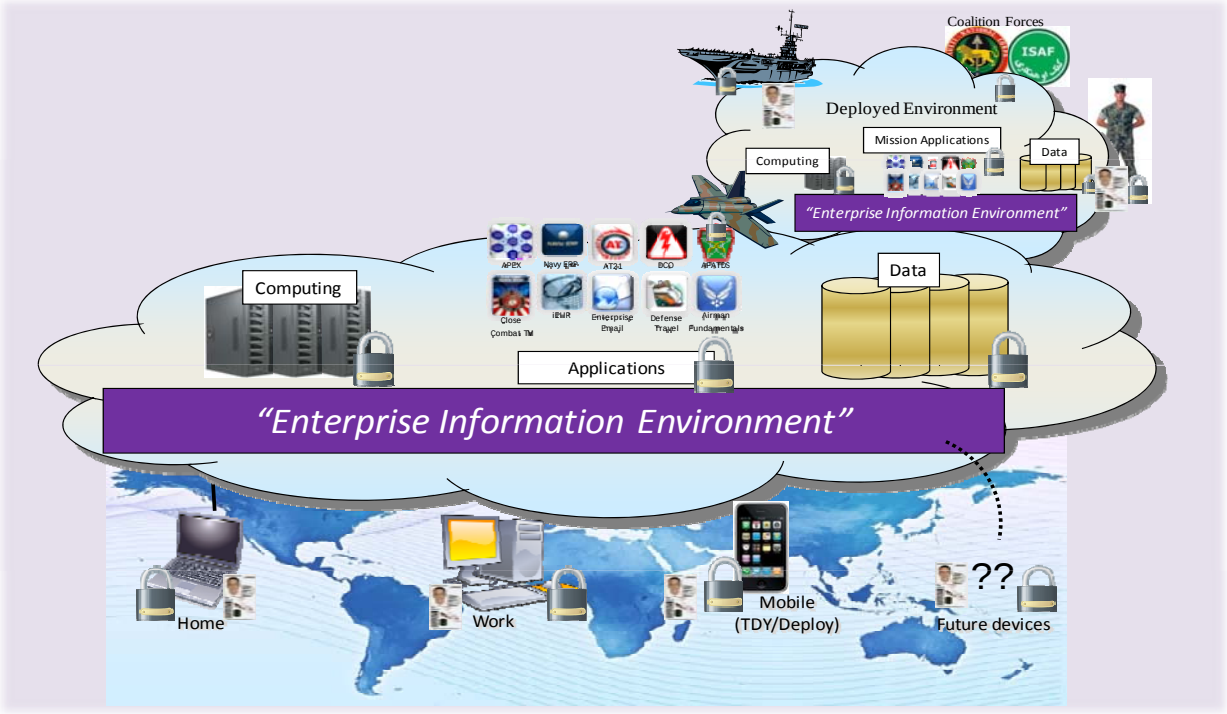


Transform to the Enterprise

Guiding Principles

- All stakeholders are committed to achieving the end state
- DoD IT will operate in an enterprise model with enforced governance
- Mission success is the first priority
- Common technical standards and processes are the default; uniqueness may be allowed when essential for mission success
- We will maximize utilization of existing efforts to include the Intelligence Community and Coast Guard
- We must and will enhance security
- We will operate within the existing statutory framework
- Requirements, PPBE, and Acquisition processes will be aligned to achieve the end state

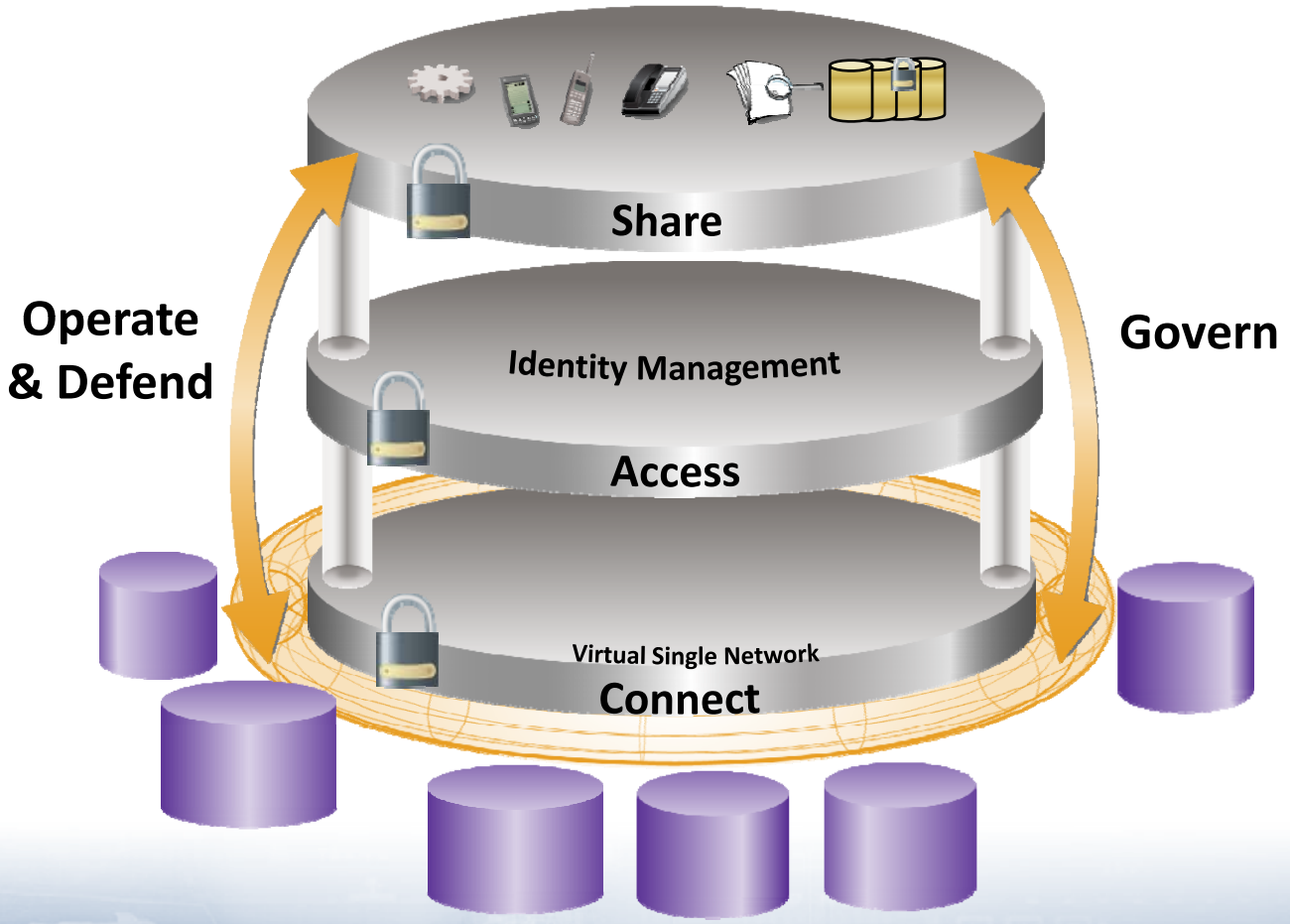
Organizing Approach



Provide Capabilities	Operate and Defend	Govern
Connect	Operate	Compliance
Access	Security Posture	Models and Processes
Share		Standards and Policy

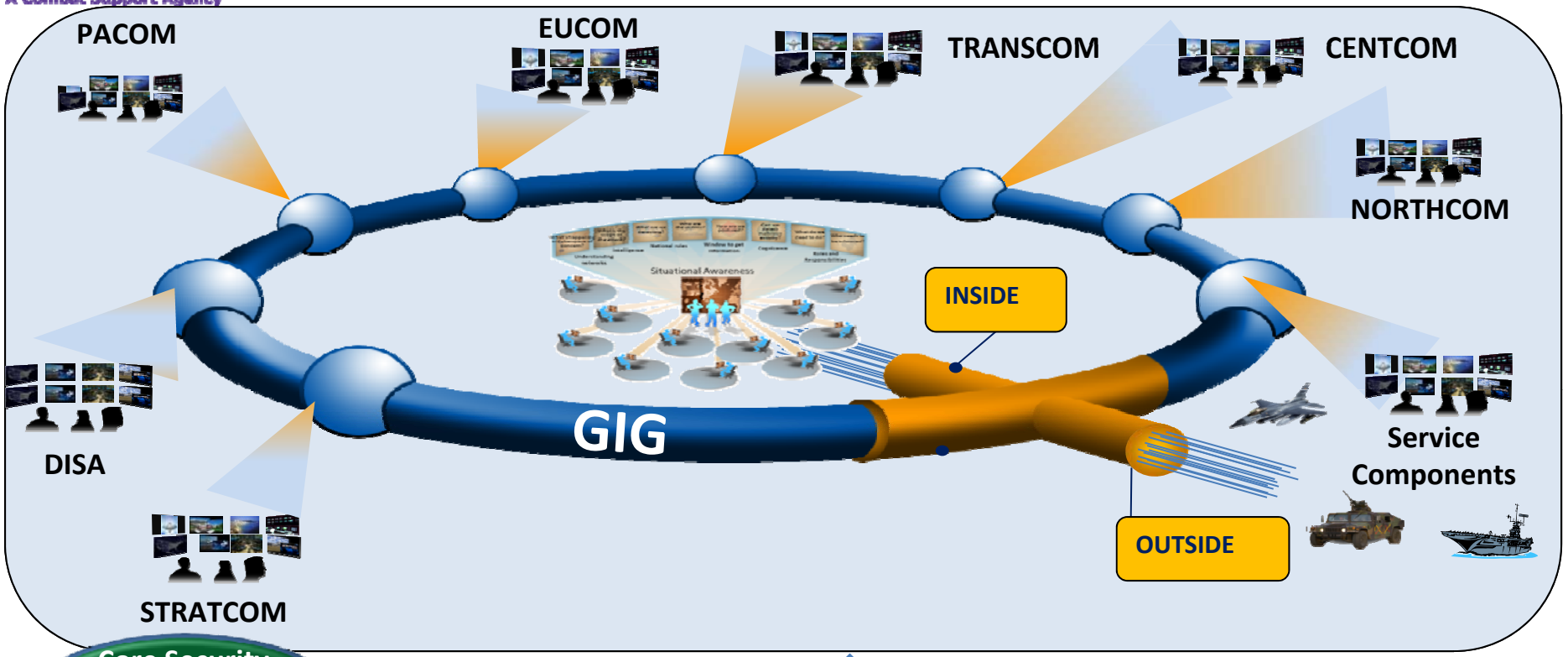
End State Architecture: Provide Capabilities

Cloud Approach (improve effectiveness, reduce cost)
Centralized provider preferred for common elements



Security is Pervasive

End State Architecture: Operate & Defend



Core Security Functions

- *Policy*
- *Process*
- *Architecture*
- *Standards*
- *Technology*

Secure Share

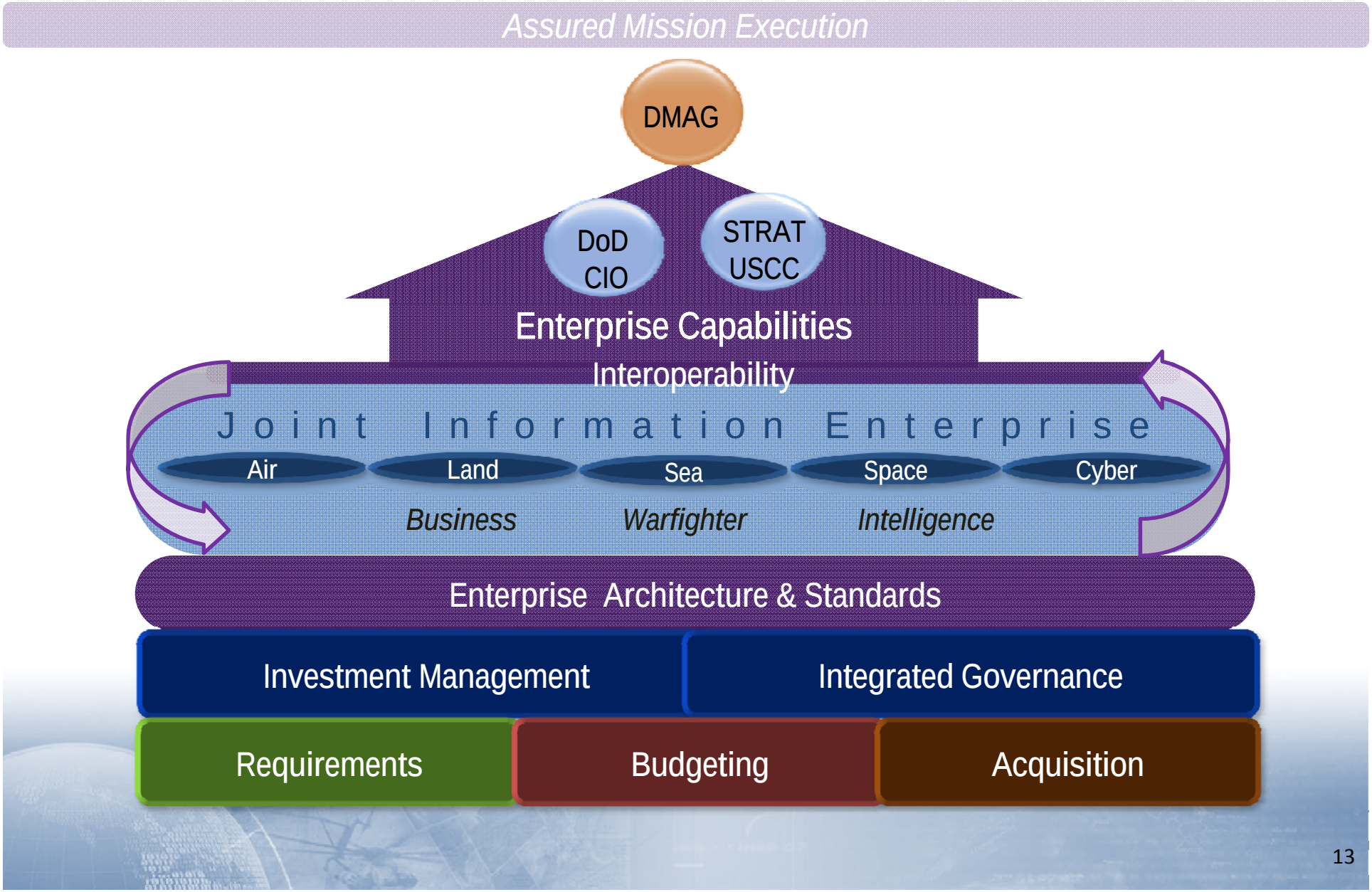
Secure Access

Secure Connect

Management, Monitoring & Reporting

Secure, Resilient, Global Mission-Enablement

End State Architecture: Govern



DoD IT Effectiveness

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		FY17+
Consolidate Data Centers	>770	<100
Network Optimization	Duplicative	Federated/ Enterprise
Consolidated Network Ops Centers	65	25
Replace legacy phone switches		Unified Comms
Reduce reliance on PCs	Desktop PCs	Client-based Technology
Consolidate H/W and S/W Procurement	Multiple Contracts	Enterprise Contracts
Reduce duplicative IT staff		
Purchase Green IT to reduce energy use		

Plan of Action & Milestones (POA&M) Rough Order of Magnitude (ROM): TBD

Bottom Line: DoD IT Annual Budget $38.4B $????

Our Approach

- Build Joint Information Enterprise architecture
- Produce milestones to drive implementation
- Optimize information, network, and hardware
- Optimize support software
- Provide common applications
- Tailor governance processes and structures

Codified in the DoD IT Enterprise Strategy and Roadmap

What Will It Take…

- Strong Governance
- Budget Alignment
- Integrated Strategy
- Sequenced Approach
- Expectation Management

…a Team With a Coach

Future DoD IT Environment

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Reduced costs for data centers and applications

Improved interoperability for better coordination and collaboration

Improved user satisfaction and **mission success**

Faster, more responsive capability deliveries to Warfighters

Improved security to reduce cyber threats

Faster adoption of commercial IT breakthroughs

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Questions