



Enterprise Resource Planning (ERP) Common Computing Environment

Guy Weber
Requirements and Analysis Office
14 June 2017



Problem Statement

- **17FEB2017 – Secretary of Defense, James Mattis, mandates all departments must pursue cross-enterprise consolidation of business activities**
- **Fiscal Implications**
 - **Costly to acquire, field and sustain duplicative business systems, processes and services.**
 - **Consolidation of services will free up funds to be invested in higher priority programs**
- **Performance / Service Implications**
 - **Identify business services and tasks that no longer merit individual military department approaches**
 - **Streamline across core lines of business to eliminate duplication of effort and cost to achieve greater Departmental efficiencies while maintaining and improving overall mission performance**



SECRETARY OF DEFENSE
1000 DEFENSE PENTAGON
WASHINGTON, DC 20301-1000

FEB 17 2017

MEMORANDUM FOR DEPUTY SECRETARY OF DEFENSE

SUBJECT: Establishment of Cross-Functional Teams to Address Improved Mission Effectiveness and Efficiencies in the DoD

It is my expressed intent to field a larger, more capable, and more lethal Joint force. It is incumbent on each of us to accomplish this task in the most cost-effective, efficient manner possible. If we are to ask the American taxpayers to provide more resources to our Nation's defense, we must do the same—by making our business operations more efficient and freeing up funds for higher priority programs. In this regard, I support and am guided by the provisions and intent of Title IX of the National Defense Authorization Act (NDAA) for Fiscal Year (FY) 2017 (Public Law 114-328), which task the Department to conduct a thorough review of how we conduct our business operations with an eye toward becoming more effective and efficient.

Accordingly, I would like you to lead an effort to identify a series of key areas for review with an explicit goal of identifying business services and tasks that no longer merit individual military department approaches. I recognize the military services have unique competencies in specific operating domains that ensure the delivery of essential mission capabilities in combat that when combined into a Joint package, present potential advantages with insurmountable challenges. However, we have sometimes allowed our focus on service uniqueness to extend into business operations, leading to duplication of effort and costs we can no longer afford. To achieve greater Departmental efficiency and savings, we must now pursue cross-enterprise consolidation of business activities.

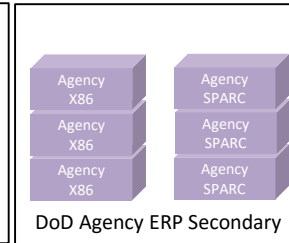
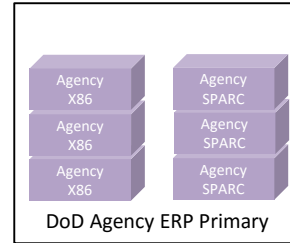
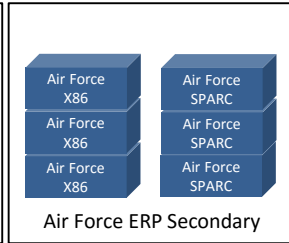
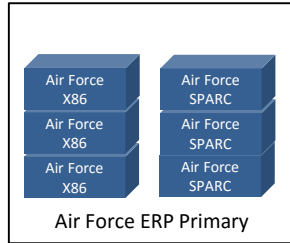
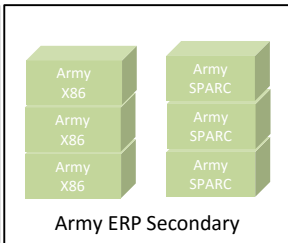
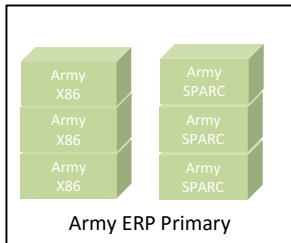
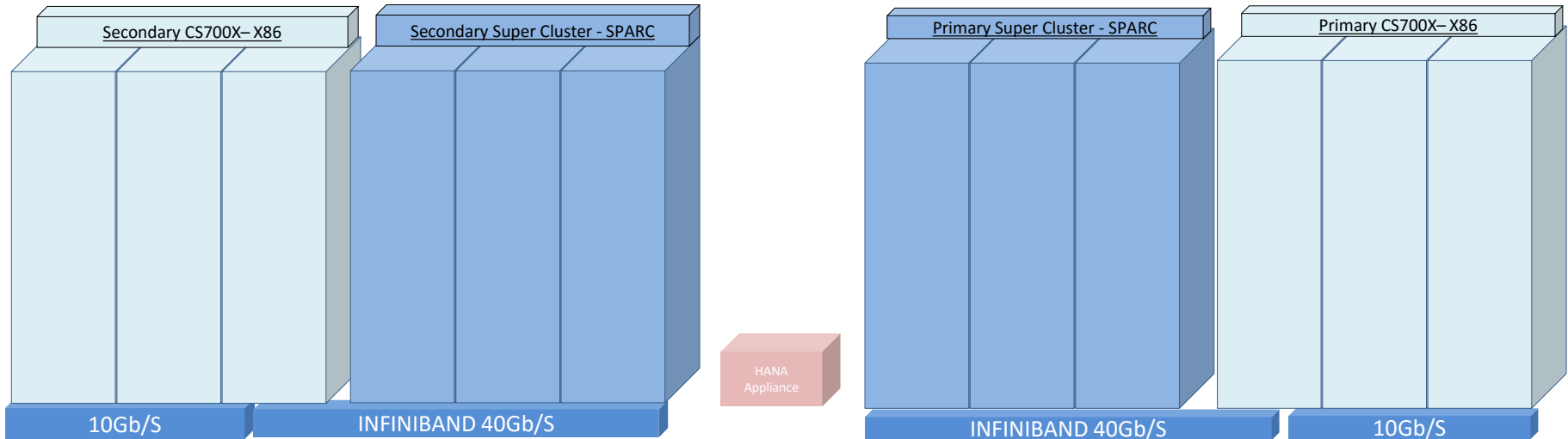
I find the work done by you, the Deputy Chief Management Officer (DCMO) and Chief Information Officer (CIO) staff in 2014-2015 to be a good place to start. You highlighted potential savings to be had by consolidating work in several discrete lines of business. In keeping with the framework used by the Defense Business Board for its study on "Transforming DoD's Core Business Processes for Revolutionary Change," I direct you to further this work by exploring efficiencies across the following core business functions: human resource management, financial management (to include improvements in cost accounting), real property management, acquisition and contract management, logistics and supply chain management, health care management, base services (including retail operations, base lodging, and Morale, Welfare, and Recreation (MWR) services), and cyber and information technology management. I would like you to establish accountable, cross-functional teams to address these lines of business, and any others you deem worthy of review. As the teams consider horizontal consolidations, they should keep a clear sight picture on maintaining or improving overall mission performance outcomes.



020301-100001-0001

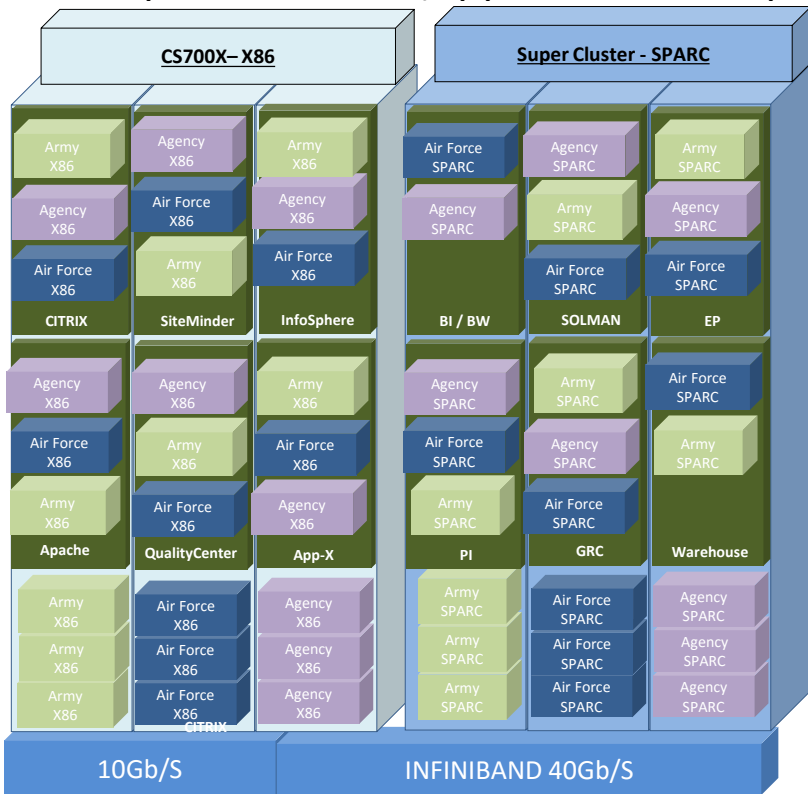


ERP Multi-tenancy



ERP CCE Migration Path

Development & Test (Application Examples)



Staging & Production



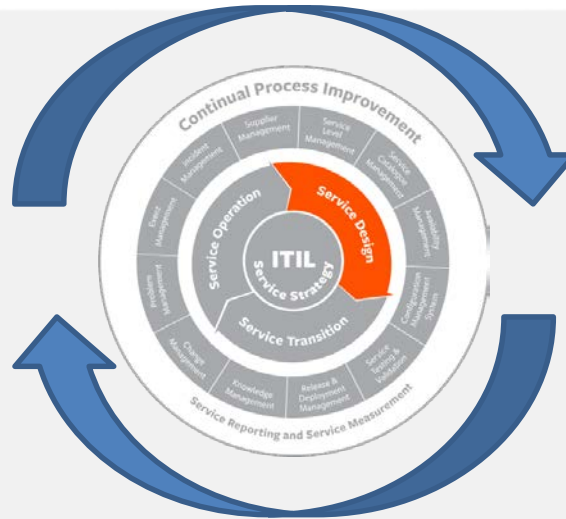
Named programs and applications are for demonstration purposes only



ERP CCE Portfolio Office

Subject Matter Experts

- Oracle
- SAP
- Dev/Ops
- High Availability



DBS PEO Governance

- Governance Oversight
- Standards development
- SLA requirements development
- Service coordination

ERP CCE Portfolio Office

- Development roadmap
- Governance coordination
- Service development
- Migration coordination



ERP CCE Key Shared Capabilities

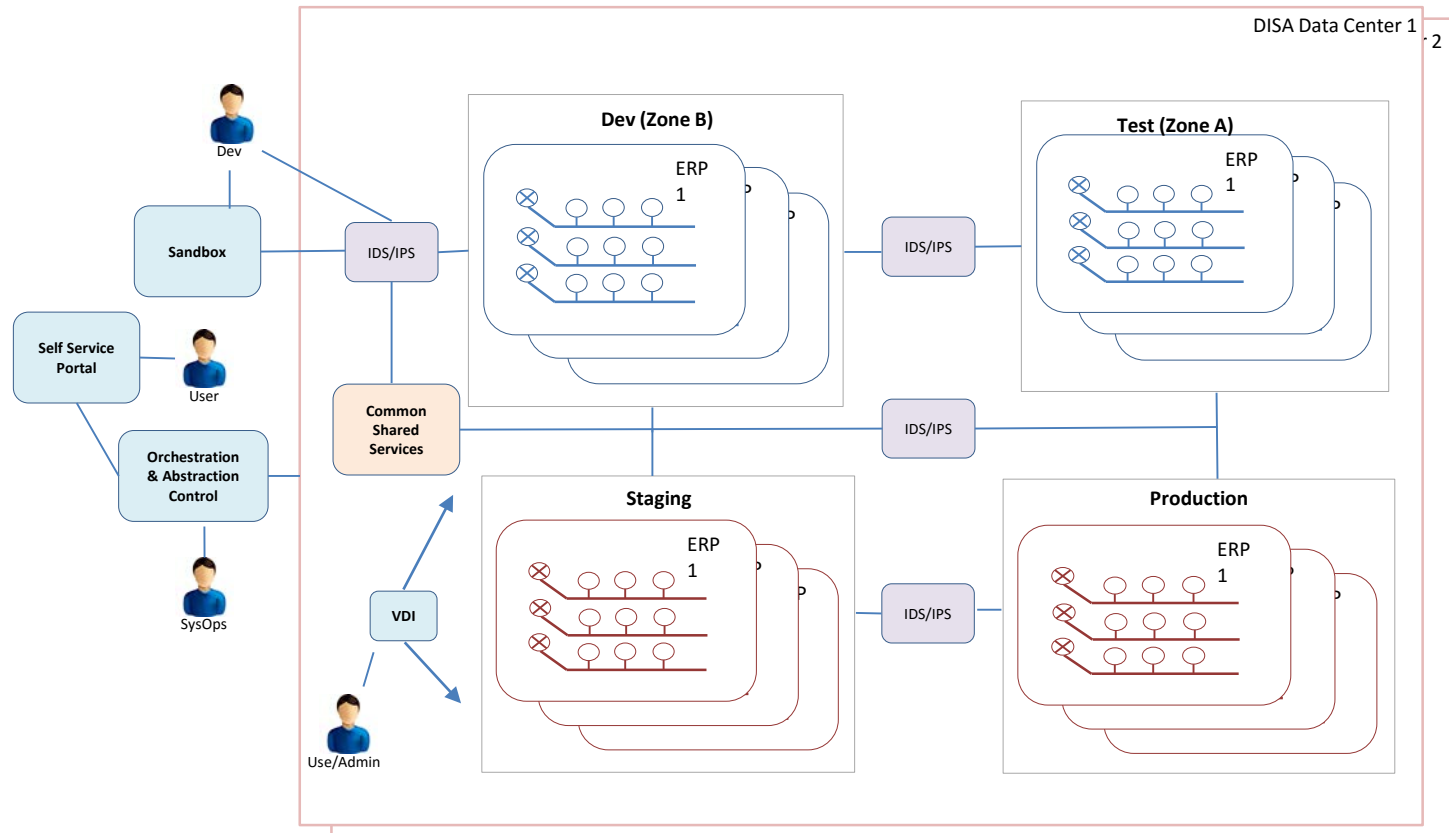
- Test & Development
 - Multi-tenant (DISA defined) Zone A & B with Sandbox development access
 - Automated process controls for Dev/Ops coordination
 - Standardized security management & test tools across Zones
- Standardized Common & CDSP services across Cloud and ERP environments
 - Shared common services across Dev/Ops continuum
 - Security monitoring/management tools
 - Configuration management
 - Performance monitoring
 - Health & Welfare management tools
- Integrate VDI and SDN services as part of CCE
 - Network automation & provisioning across N-Tier end-user defined architecture
 - Standardized VDI privileged and end-user interfaces



ERP CCE Reference Architecture

1) Security management across Zones using application layer inspection tools, security scanning, break & inspect, IDS/IPS, and CSSP sensor subscription services

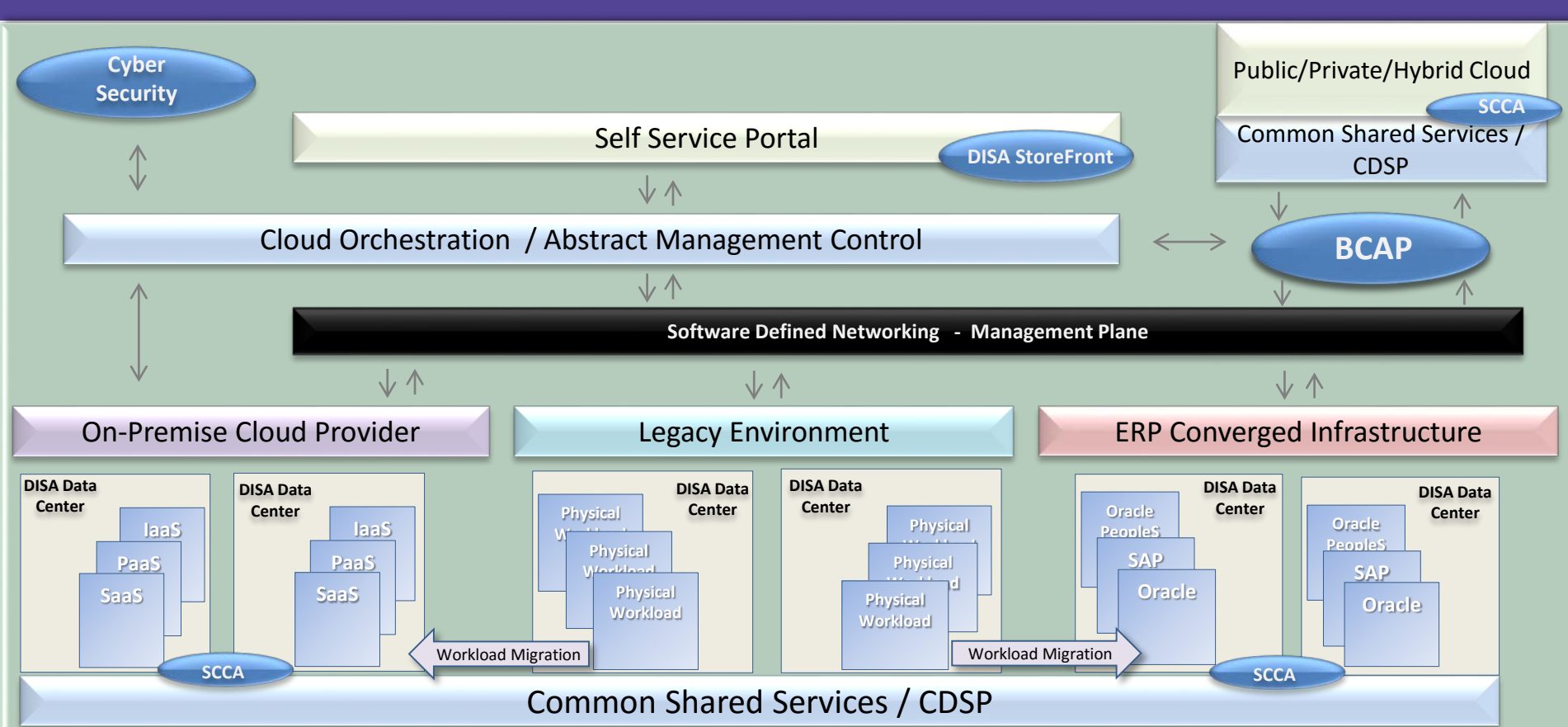
2) Mission Partner defined network configuration and collaboration capabilities with automation process control for code inspection release, and promotion



2



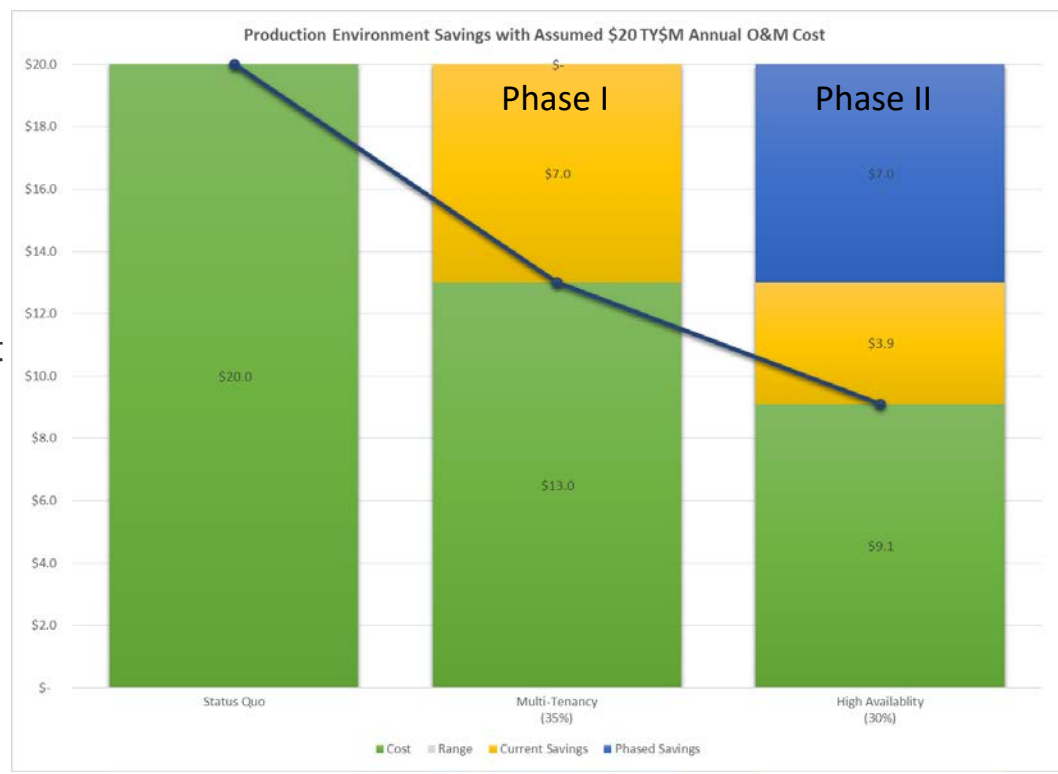
Cloud/ERP Integrated Operating Model





Business Case Findings

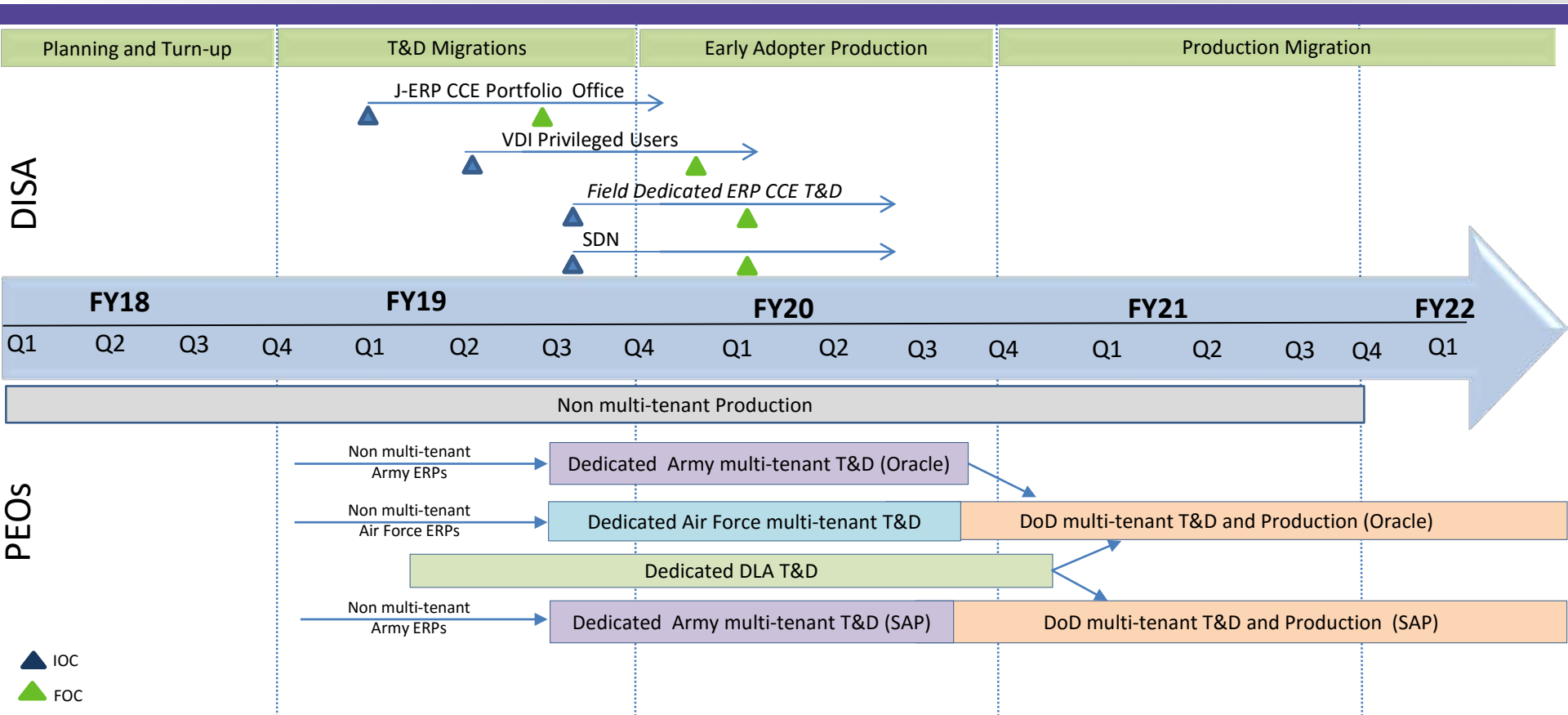
- Reduce ERP infrastructure cost through CCE efficiencies
 - Phase I - Estimated 20% - 35% (production ROM) cost reduction through multi-tenancy
 - Phase II - Estimated 25% - 30% cost reduction through elimination of COOP/DR (off-set for high-availability development)



- Yellow = Investment offset
- Blue = Realized savings
- Green = Planned cost



Target ERP CCE Migration Time Line



▲ IOC
▲ FOC

rate us

take the **3-question** survey
available on the **AFCEA 365** app

visit us

DISA Booth # **443**

follow us



Facebook/USDISA



Twitter/USDISA



DEFENSE INFORMATION SYSTEMS AGENCY
The IT Combat Support Agency

 www.disa.mil  [/USDISA](https://www.facebook.com/USDISA)  [@USDISA](https://twitter.com/USDISA)