



Defense Intelligence Information Enterprise (DI2E) & Framework

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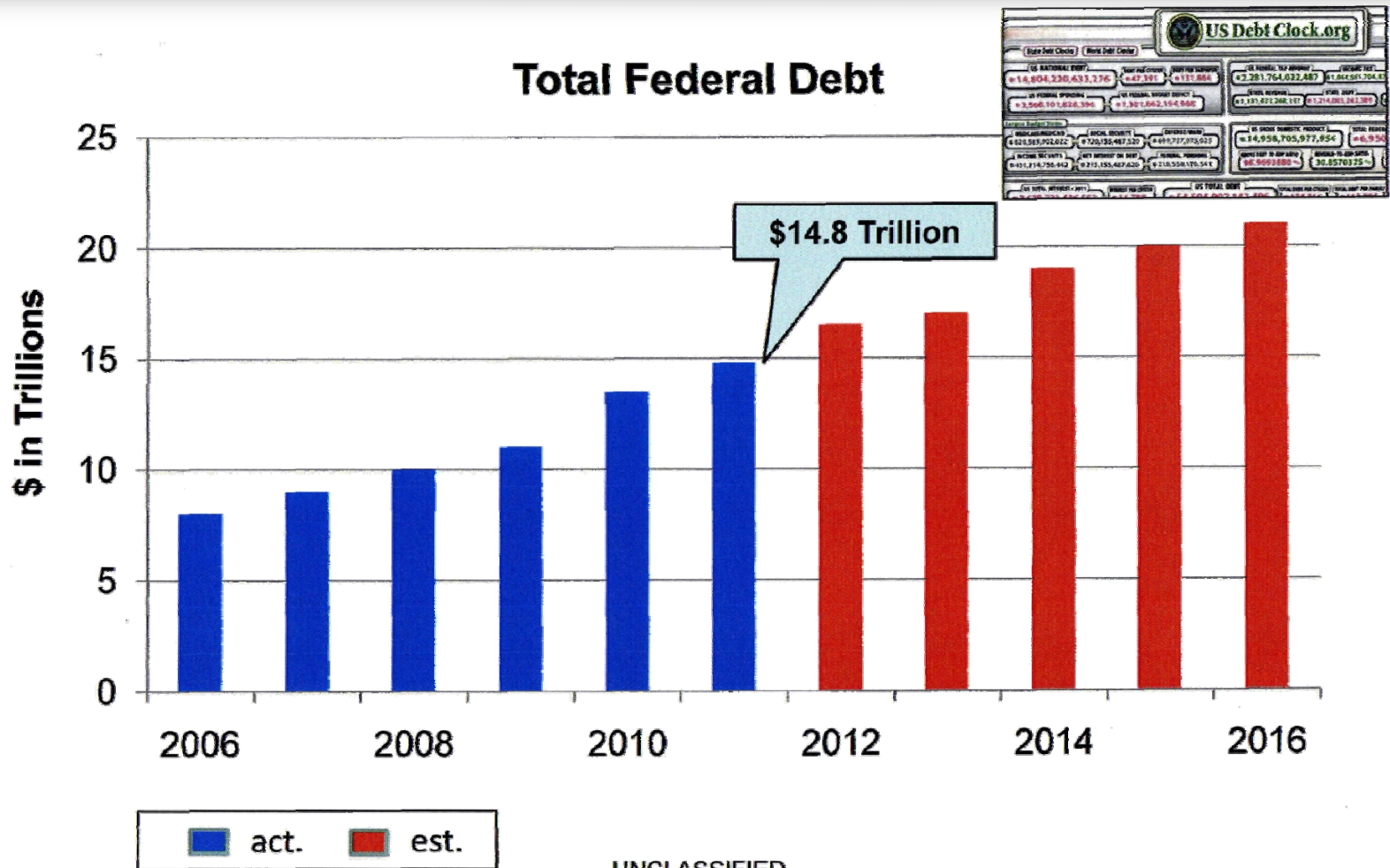
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The Budget Challenge

“Our national debt is our biggest national security threat.”

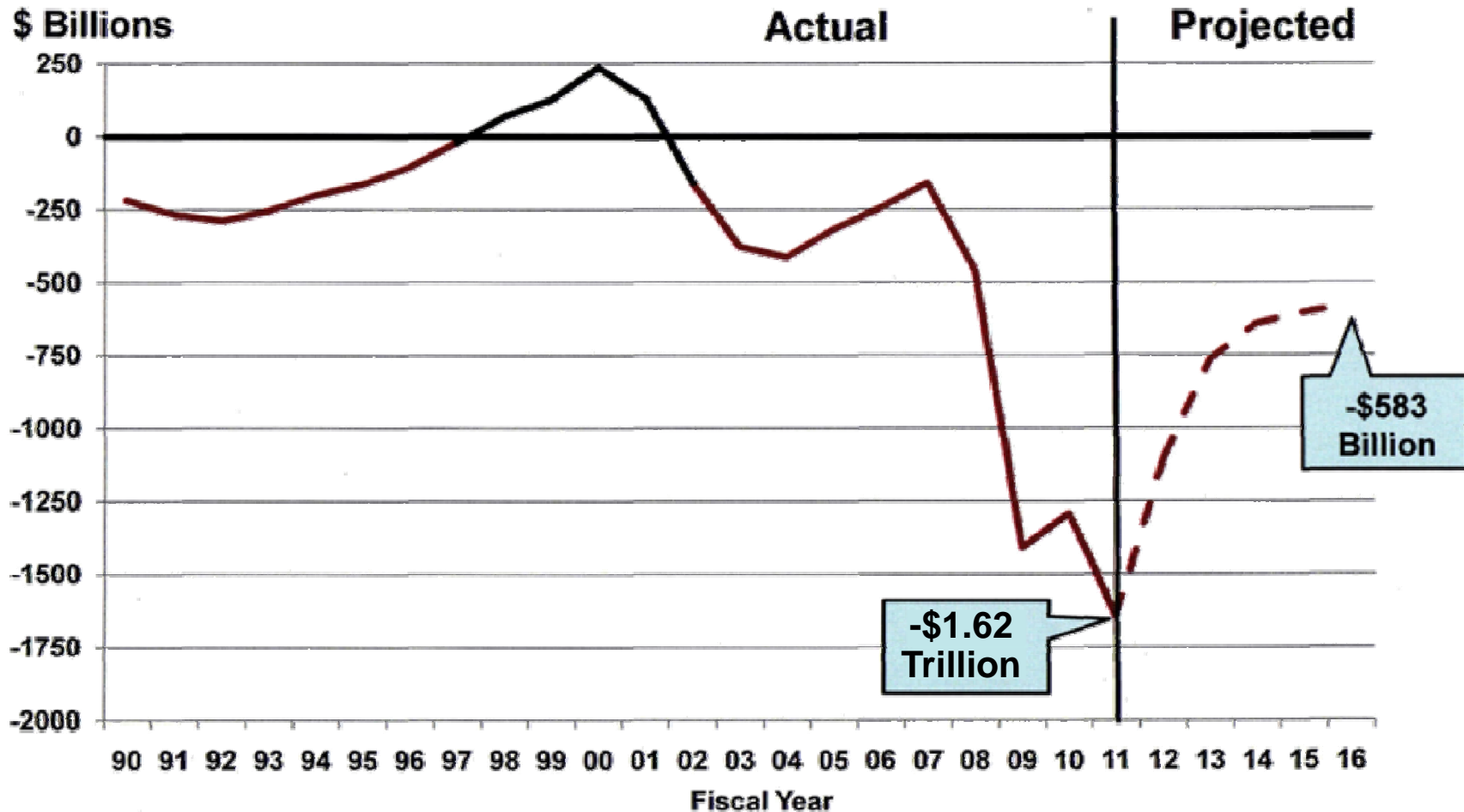
Admiral Mike Mullen, Chairman of the Joint Chiefs of Staff [23 Jun 10]



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Federal Budget Deficit



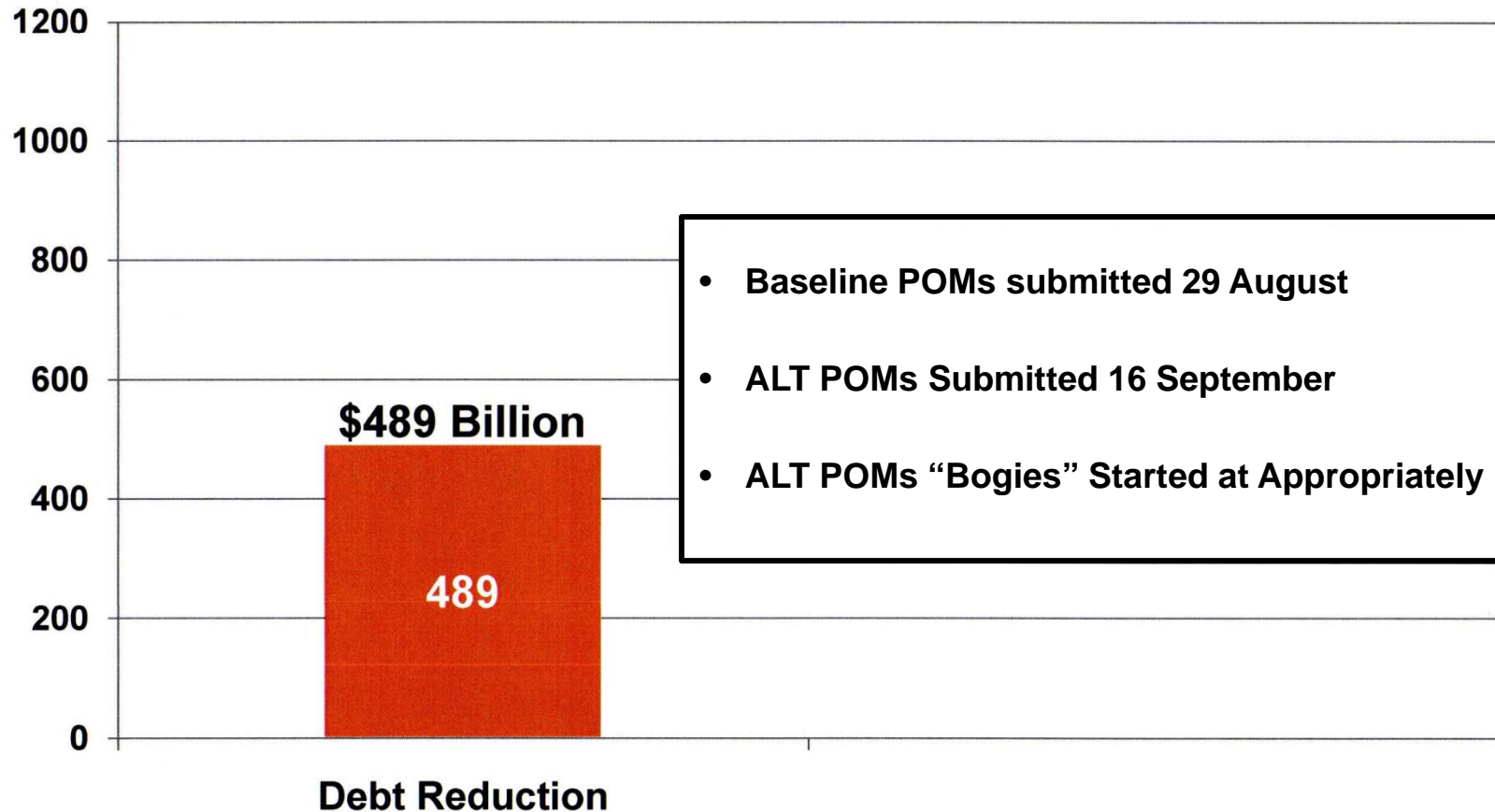
Budget Control Act of 2011 Reduces Deficit



Budget Control Act of 2011

Potential DoD 10 Year Budget Reduction (2013-2023)

\$ Billions

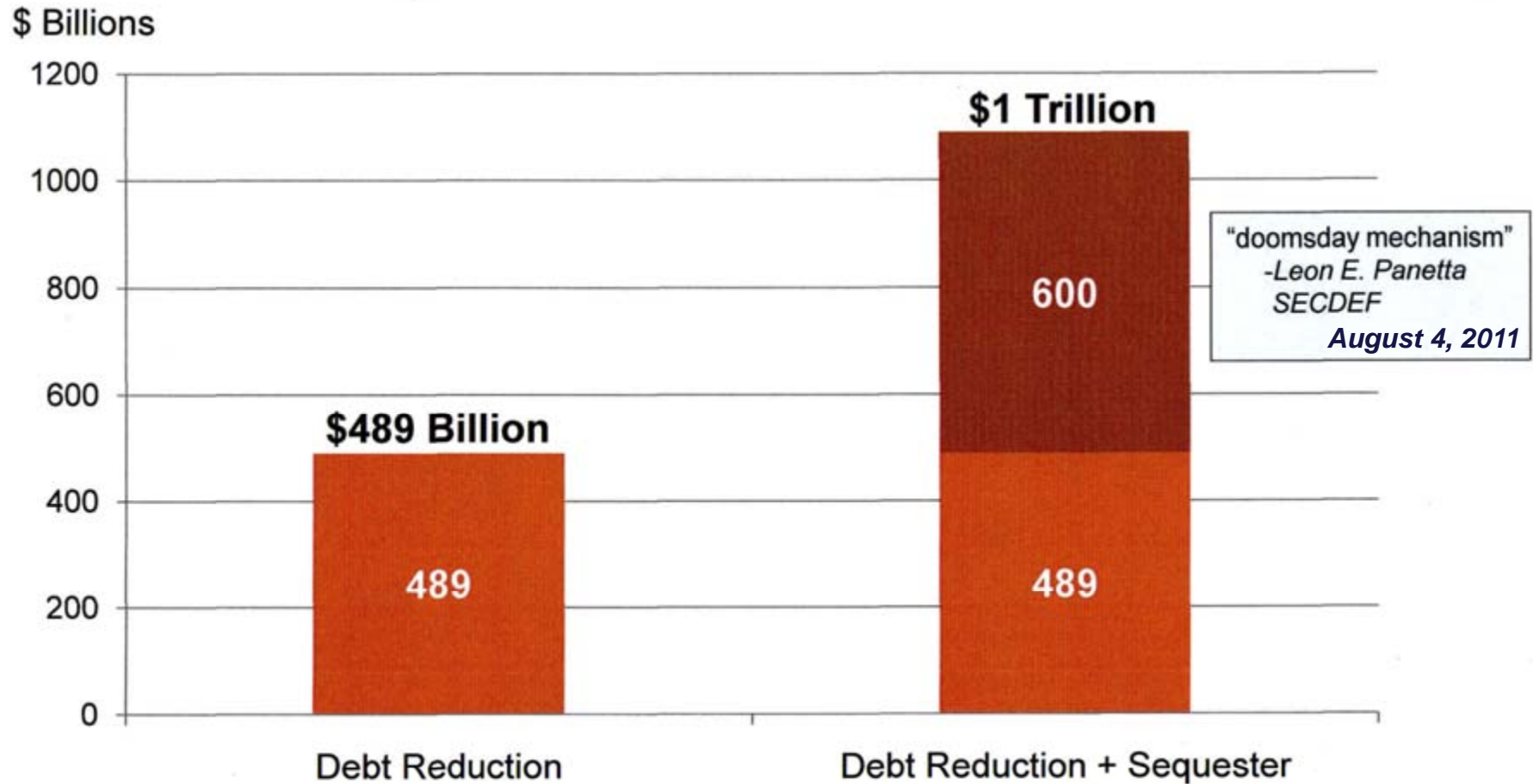


- Baseline POMs submitted 29 August
- ALT POMs Submitted 16 September
- ALT POMs "Bogies" Started at Appropriately 10%



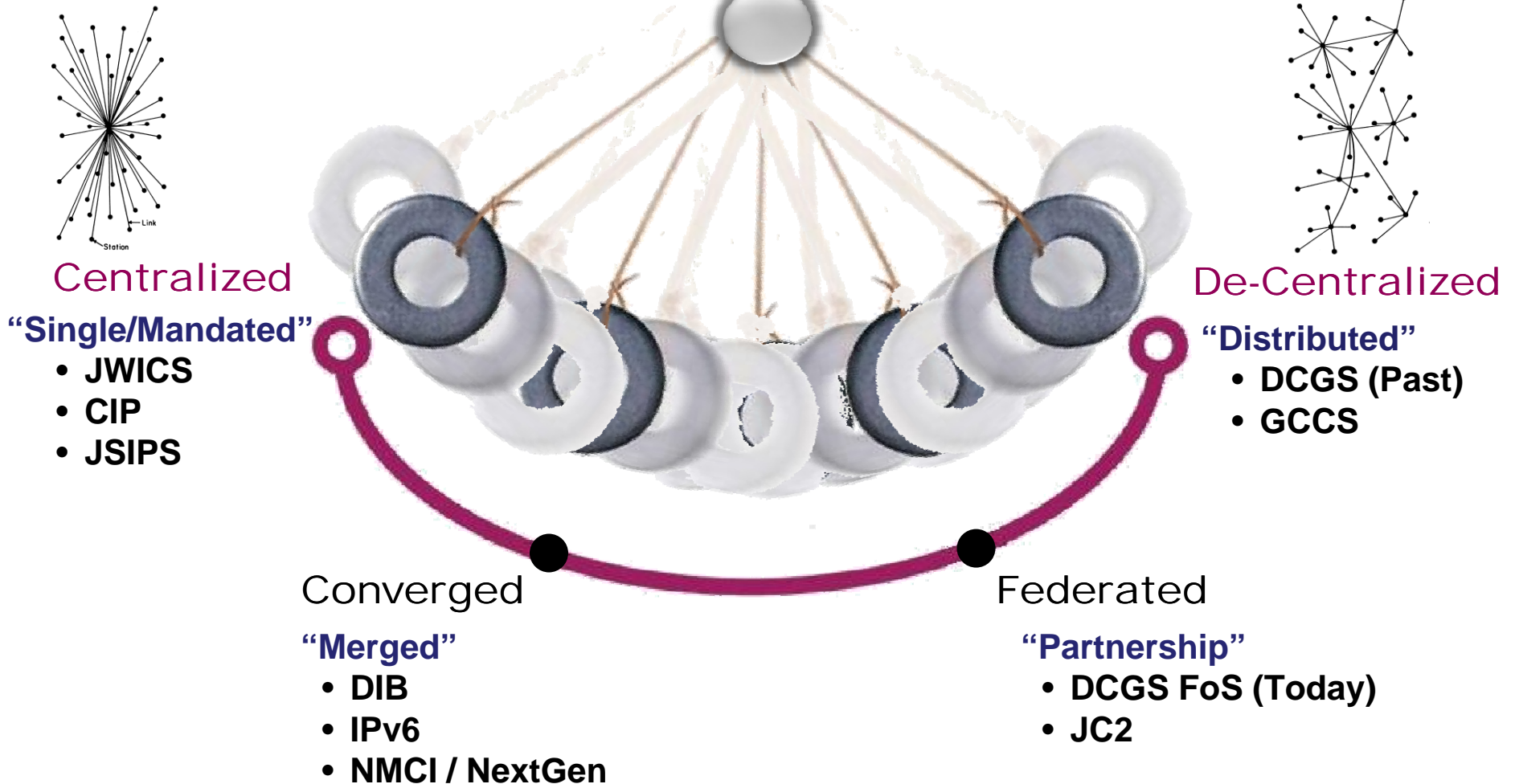
Budget Control Act of 2011

Potential DoD 10 Year Budget Reduction





The Challenge

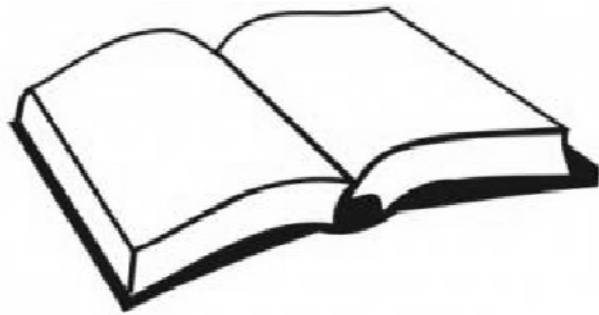


**Federated Approach...
Convergence When / Where It Makes Sense**

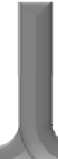


DI2E Framework

Framework



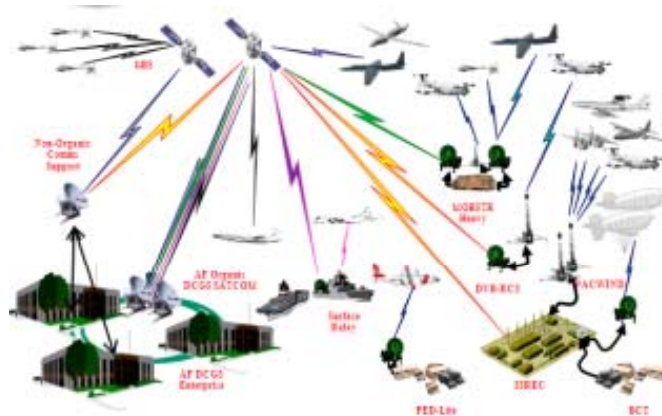
Enables/Federates



Architectures

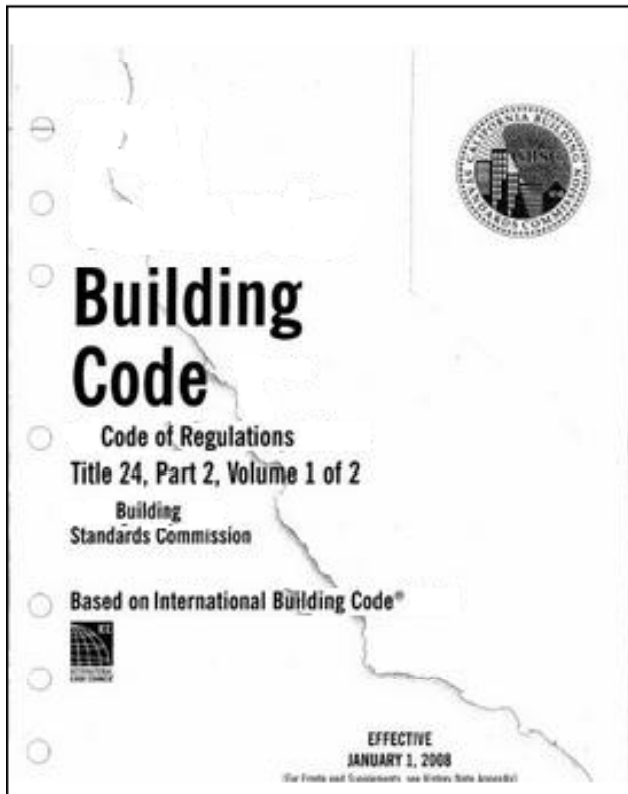


Capabilities





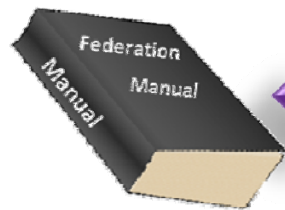
A Personal Example





What AF thinks of DI2E?

Framework



Federation Manual

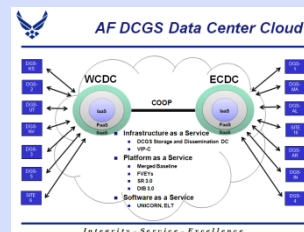
DI2E Framework defines how we interoperate by providing:

- Standards
- Specifications
- Reference Implementation
- Policy
- Doctrine
- Processes

Creates touch points within our architecture that allow us to federate across the DI2E Enterprise.

Enables/Federates

Architecture



Hybrid Data Center Cloud

Network architecture is the design of a communications network. It's physical components, functional organization, and operating principles and procedures are defined by AF ISR capability requirements.

- Robust WAN Network
- Data Storage and Dissemination Centers (ECH and WCH)
- Virtualized Imagery Processing
- Standardized SW/HW Baseline (10B)
 - FVEYs
 - Enterprise Service Bus

AF DCGS

Enables

Capability



Information Superiority

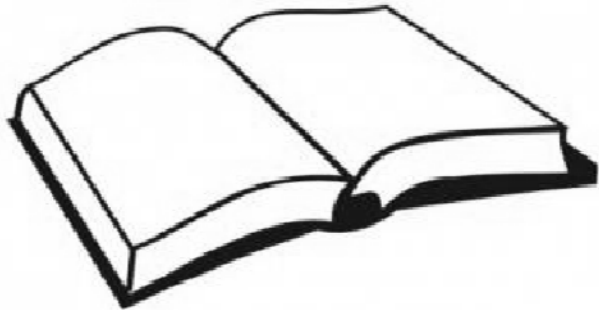
Information Superiority is one of six AF Distinctive Capabilities specified by Air Force Doctrine (AFDD1).

- Execute PCPAD functions on myriad of air and space platforms and sensors
- Provide global ISR products & services
 - Positive ID, Precision Geo-location, I&W, Target Development, Treaty Monitoring, Time Sensitive Targeting, Persistent Surveillance, Pattern of Life, etc.
- Support National Agencies, CSAs, COCOMs, JTF and below, and Coalition Partners



What's the NRO Doing?

Framework



DI2E Framework \$41M

ROMO

Service Oriented Architectures

Capabilities

- DCGS-IC \$XXM
- CENTCOM DI2E-F QRC \$15M
- PACOM DI2E-F QRC \$12.5M



ROMO Contract

- “Rapid Operational Multi-INT Omnibus”
- IDIQ Contract

- Task Order 1
- Task Order 2
- Task Order 3
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- Task Order n

DI2E-F is a single Task Order

**Task1: Document/Develop and Maintain/Update
DI2E Reference Implementation**

**Task 2: Support Compliance Testing with the
DI2E Framework and Standards**

Task 3: Provide a DI2E Store Front



Task 1: Document/Develop and Maintain/Update DI2E Reference Implementation

- Using approved common core services, integrate and share a common DI2E reference implementation
- Keep the reference implementation up to date as standards, specs and services are changed or added
 - + Provide appropriate documentation to support service development and framework implementation by any potential developer
 - + Deliver and maintain physical implementations for compliance testing

A 3D-rendered tablet displaying a complex technical table. The table is divided into several columns and rows, with some cells highlighted in yellow, blue, green, and purple. The text within the cells is dense and appears to be technical specifications or data points, including various alphanumeric codes and descriptions. The tablet is shown at an angle, giving it a three-dimensional appearance.



Task 2: Support Compliance Testing with the DI2E Framework and Standards

- **Support Test and Certification of services for compliance with published and approved DI2E service standards and specifications**
- **Verify that services successfully integrate within the approved reference implementation**





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Task 3: Provide a DI2E Store Front

- Establish DI2E storefront points of presence across network domains
- Deliver web-based environment where consumers can search and retrieve Widgets, Applications, Core Services, Service Components & Source Code, Profiles, Standards & Provider info
- Provide support tools and components to register services where developers can submit for DI2E-F Test & Certification compliance
- Develop, manage and support multiple software sharing business models (i.e. GOSS, fee for use, unlimited rights)



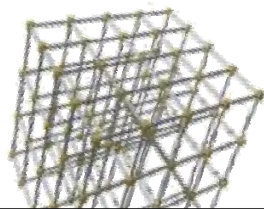
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DI2E-F Key Events

DI2E-F Notional Schedule

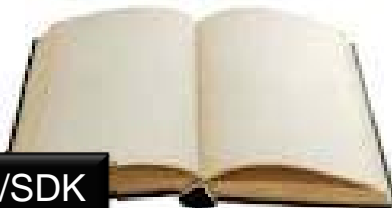
- DRAFT IDIQ RFP released July 2011
- FINAL RFP release October 2011
- Task Order release expected January 2012
- Framework IOC (projected date: 2nd quarter FY - 13)
- IOC is:
 - Physical Instantiation of the Framework Reference Implementation
 - Documentation / Software Development Kit (SDK)
 - Storefront available with DI2E core services
 - Conformance testing for enterprise services [on-going]



Reference Instantiation



DI2E Storefront



Documentation/SDK



Conformance Testing



Key Take Aways

- **DI2E is Federated & will Converge Where Appropriate**
- **NRO has Many “Hats”... One is DI2E-F**
(Let’s not Confuse Them)
- **DI2E Framework**
 - **FINAL RFP release October 2011**
 - **Task Order release expected January 2012**
 - **Framework IOC (Projected Date: 2nd quarter FY - 13)**
- **Current Budget Discussions could Change our Future DI2E Implementation Strategy**



The Panel...





Questions