# (U) Leading NRO IT in Today's Changing Financial Climate

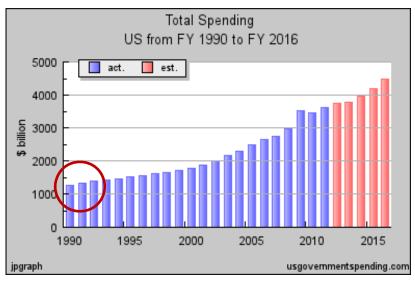
Briefing to the Ground Systems Architecture Workshop 28 February 2012

Jill T. Singer, NRO CIO

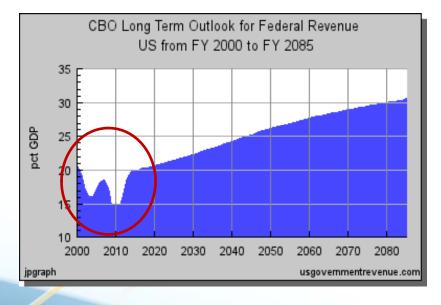


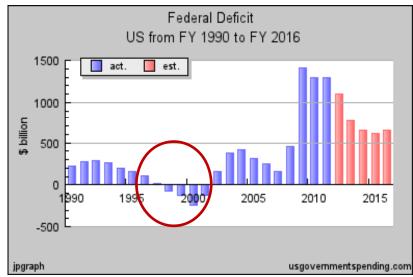


# Debt Reduction: Today's Peace Dividend



- •Our Nation is on a fiscal path that looks unsustainable.
- Federal agencies required to contribute to the solution.
- •For the Intelligence Community, it "feels" like déjà vu: the Peace Dividend of the 1990s.







## The IC Mission Remains the Same

+ IC value to the nation is "left of boom" via the Intelligence Lifecycle.



# The Intelligence Lifecycle

Mission imperative: Can the IC accomplish the mission faster, better, cheaper, and safer?



# DNI, DNRO, and IC CIO Remarks at GEOINT 2011







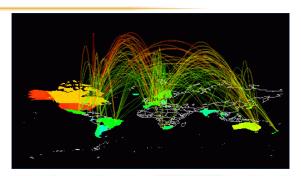
- + Current Landscape
  - → Increasing complexity of IT cyber
  - + Accelerating pace of IT cloud
  - + Shrinking IT budgets Federal, DoD, and IC
- + NRO has too many D/Os doing IT
  - + Remove duplication
  - + Reduce our footprint
  - + Integrate our stovepipes
  - + Make it easier to do our mission
- + New IT Operating Model for IC
  - + IC Enterprise model
  - + Agency unique mission components remain
  - + "Big 5" IC elements will lead, others will join later"



# IC IT Enterprise (ICITE)

## **DNI Vision**

Enable greater IC integration, information sharing and safeguarding through a new common IC IT architecture that substantially reduces costs.

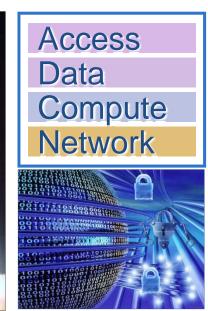




## **Key Principles**

- Every agency buys into an enduring program.
- Mission comes first with recognition of a cost/value threshold.
- Do in common what's commonly done.
- Maximize existing efforts.
- Enhance security.
- Work within existing statutory framework.







## IC IT: Current and Future

#### **Current IT Posture**

#### **Agency-based IT**

Each IC element plans and executes its own IT with limited IC awareness.

Stove-piped IT Portfolio Management Local, agency decisions made with

limited IC information and insight.

**Agency-Centric IT Acquisition** 

Each agency acquires IT (SW, HW, and services) independent of each other and direct from vendors and service providers.

#### **Future IT Posture**

Integrated, Services-based IT

Ten common service offerings across the IC for primary IT functions.

**IC-Level IT Portfolio Management** 

IT decisions made by set of highly informed IT leaders across enterprise.

**Enhanced IC Enterprise IT Acquisition** 

Centralized and synchronized IT acquisition lifecycle enabling greater innovation, stronger buying power, and progressive methods (SOA, agile).

Independent =

Federated

■ Integrated •















## Recent DNI Decisions on ICITE

- + Programmatic approach
- + Governance structure
- + Services, business models and initial providers
- + Roadmap and schedule
- + Characteristics include:
  - + Single back office
  - + Consolidated infrastructure
  - + Common services
  - + Thin desktop for most
  - + Smart data
  - + Cloud-based
  - + "Widgetized" applications













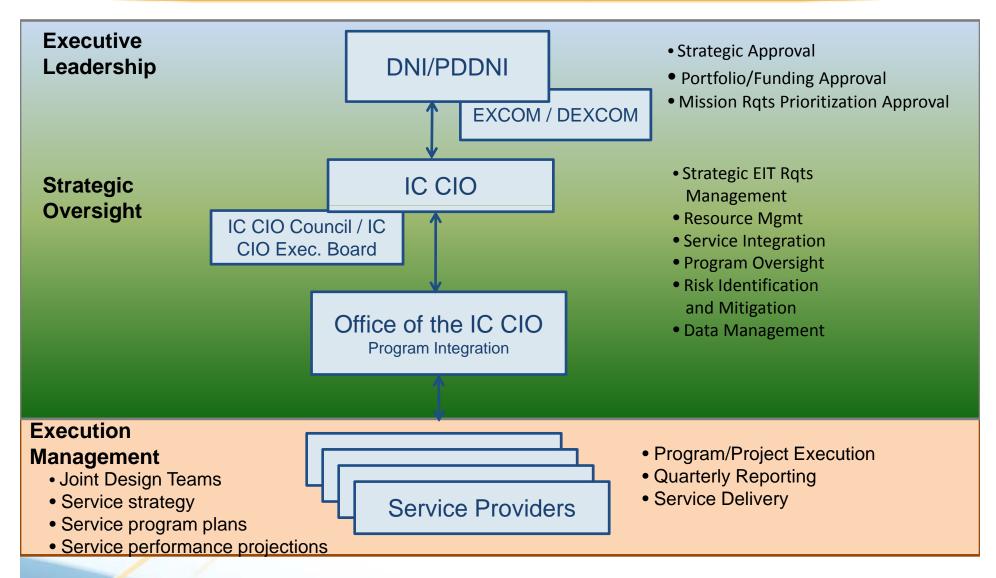
# ICITE Programmatic Approach

## IC CIO oversees the overall program and integration

ο.	FY12	FY13	FY14	FY15	FY16+
Leadership	Standards	Accelerate Standards developm Approval process (weeks, not n			
ade	Policies	Resolve Key Policy Issues:			
Resources Le	Oversight	Establish IC Oversight Process	Validate Program	Validate Program	Validate Program
	Budget/Acquisition		ronize FY13-14 CBJB& ith IT Efficiency program	Employ Rapid/Agile Enterprise Acquisitions	
Res	People	Establish Joint engineering teams	IT Workforce Skills Assessm	ent	
Mission	Mission Applications	5 year target wit			
IT Infrastructure	IC Desktop Environment	get wi	th 1 kg		
	Smart Data		ear road		
	Integrated Audit		-Or	haps	
	Identity & Access Management			and 3 me	
	Compute & Storage Infrastructure			.101	Oth Spin
	Consolidated Network				ns

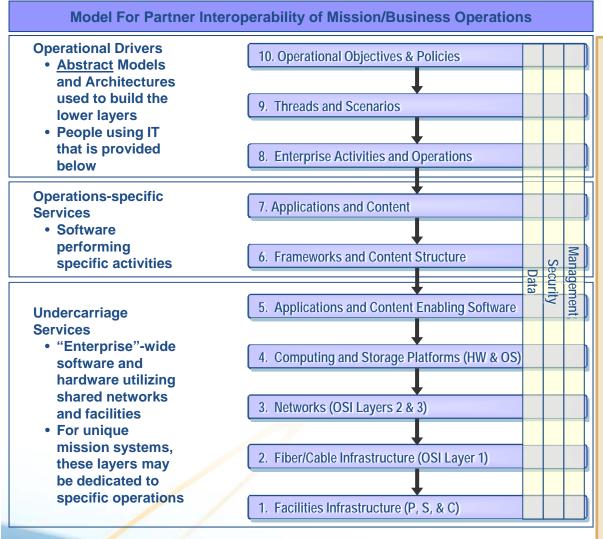


## **ICITE** Governance Structure





## Initial ICITE Services



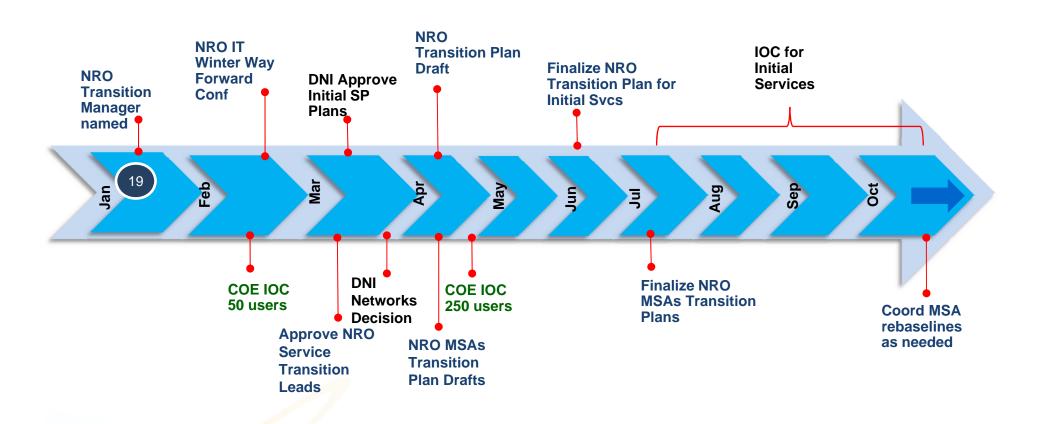
#### **ICITE Services (providers)**

- 1. Enterprise Management
- 2. Apps Stores (all)
- 3. Apps Dev
- 4. Apps Mall (NSA)
- Identity Access/Authorization
- 6. Desktop Environment (DIA-NGA Team)
- 7. Clouds (NSA, CIA)
- 8. Campus Networks
- 9. Red Core
- 10. Black Transport

Note - Services in bold awarded, remaining services to be "bid" in FY2012.



# CY2012 NRO Migration Schedule - Tactical



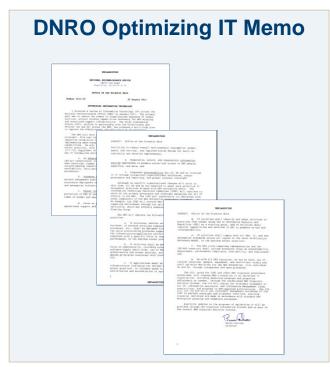


# DNRO Optimizing IT Memo – 2 Aug

The NRO will move forward smartly to optimize IT on a strategic fiveyear plan centered on driving IT efficiencies, improving integration in support of QUAD initiatives, implementing game-changing technologies, and safeguarding our IT capabilities. We will ensure our IT is aligned with the direction of the IC CIO, the DOD CIO, and the Federal CIO.

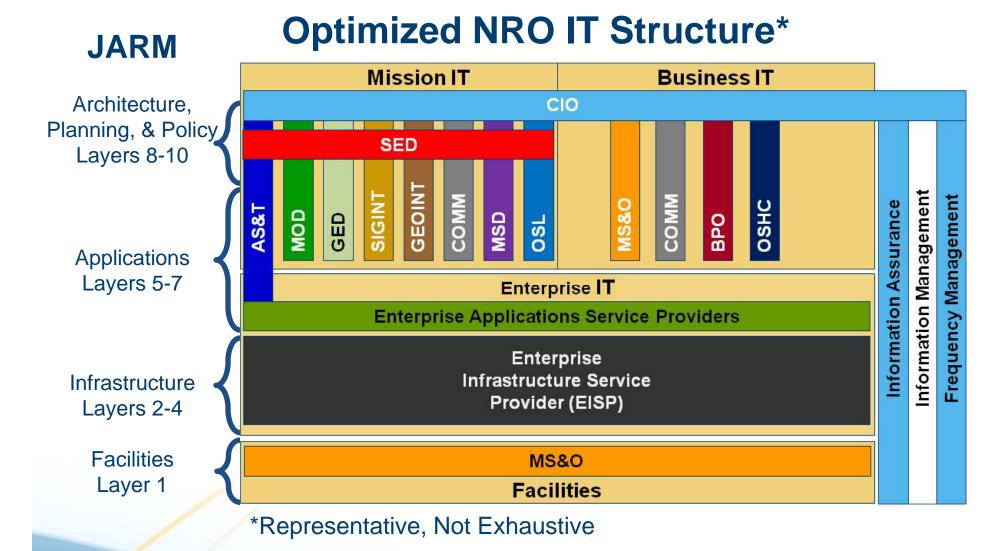
#### The key IT foundations moving forward are:

- + Adaptable IT Infrastructure
- + Standard IT Implementations
- + Robust Cyber Security
- + Resource Efficiencies
- + Responsive Info Sharing
- + Corporate Accountability



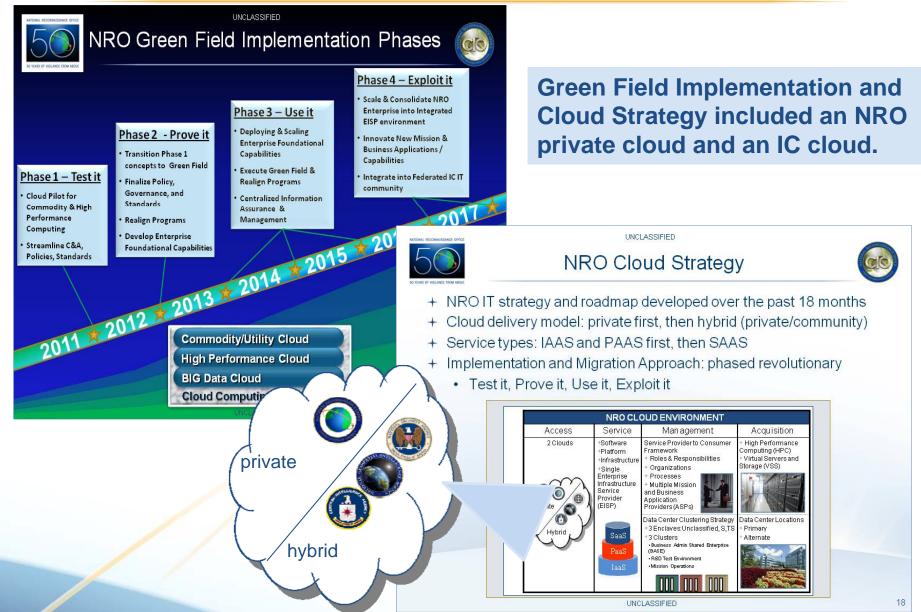


# EISP - Foundational Part of Solution



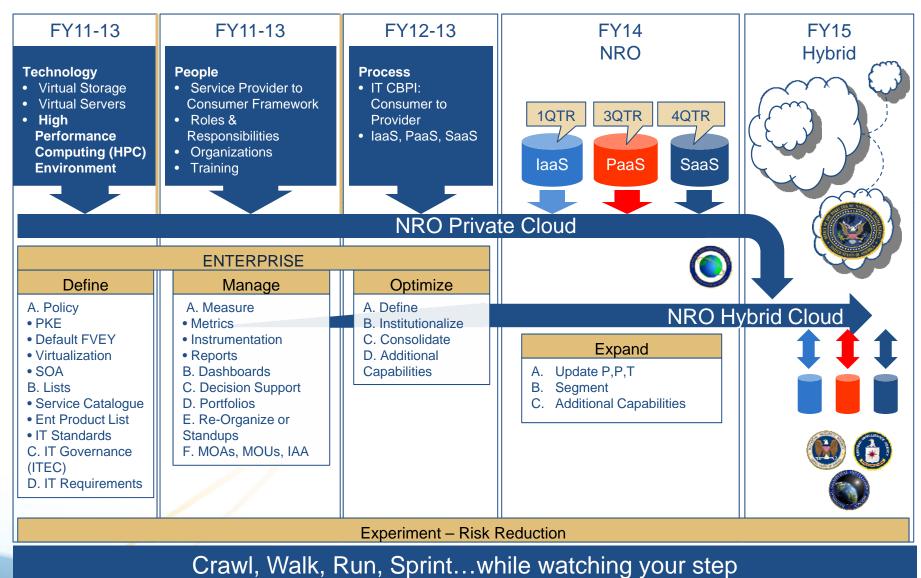


# Migrating NRO to the Cloud – Green Field



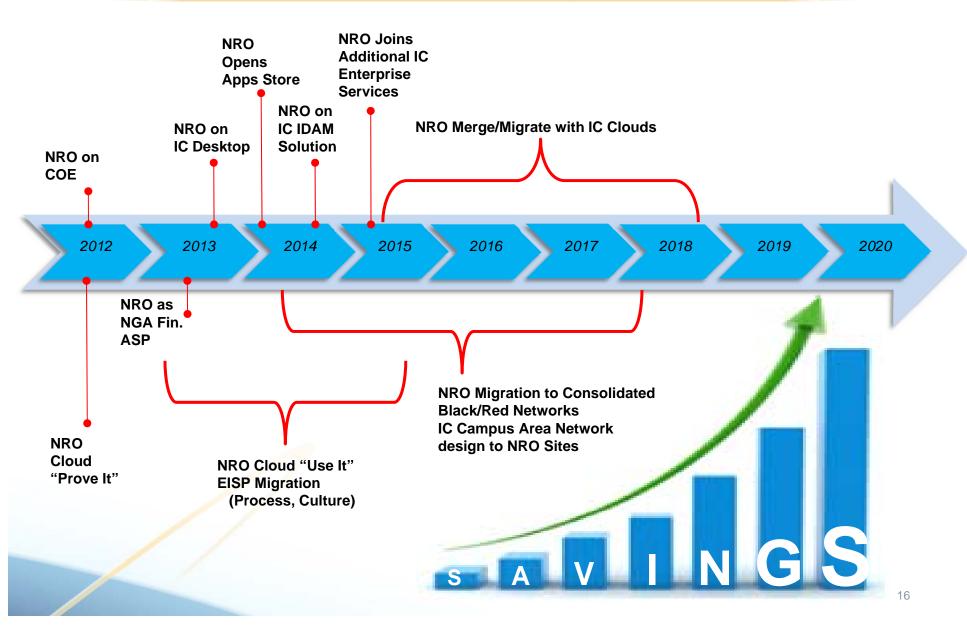


## Merging Into the ICITE Clouds





# Tentative NRO Multi-Year Migration - Strategic





## Summary

- + Our world is changing.
- + The mission remains the same.
- + Our leadership recognizes IT as key to solution ICITE.
- + NRO IT already on efficiency path Optimizing IT.
- + We need to mature, migrate, and merge into the clouds.
  - + My perspective on cloud: <a href="http://jillsinger.sys-con.com/">http://jillsinger.sys-con.com/</a>.
- + Need everyone's help for success.
- + ONE TEAM even more important!!







#### NATIONAL RECONNAISSANCE OFFICE

VIGILANCE FROM ABOVE

