



# Navy Data Center Consolidation

**“Today, we have over 100 data centers serving the Navy, each with their own management structure, monitoring tools, facility costs and disaster response plan. As a Navy, we can do this more efficiently.”** – RADM Brady, SPAWAR Commander in CHIPS magazine, October-December 2011 edition

**Presented to:**  
Navy IT Conference  
DCC Status Discussion Panel

**Presented by:**  
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Space and Naval Warfare Systems Command



# Bottom Line

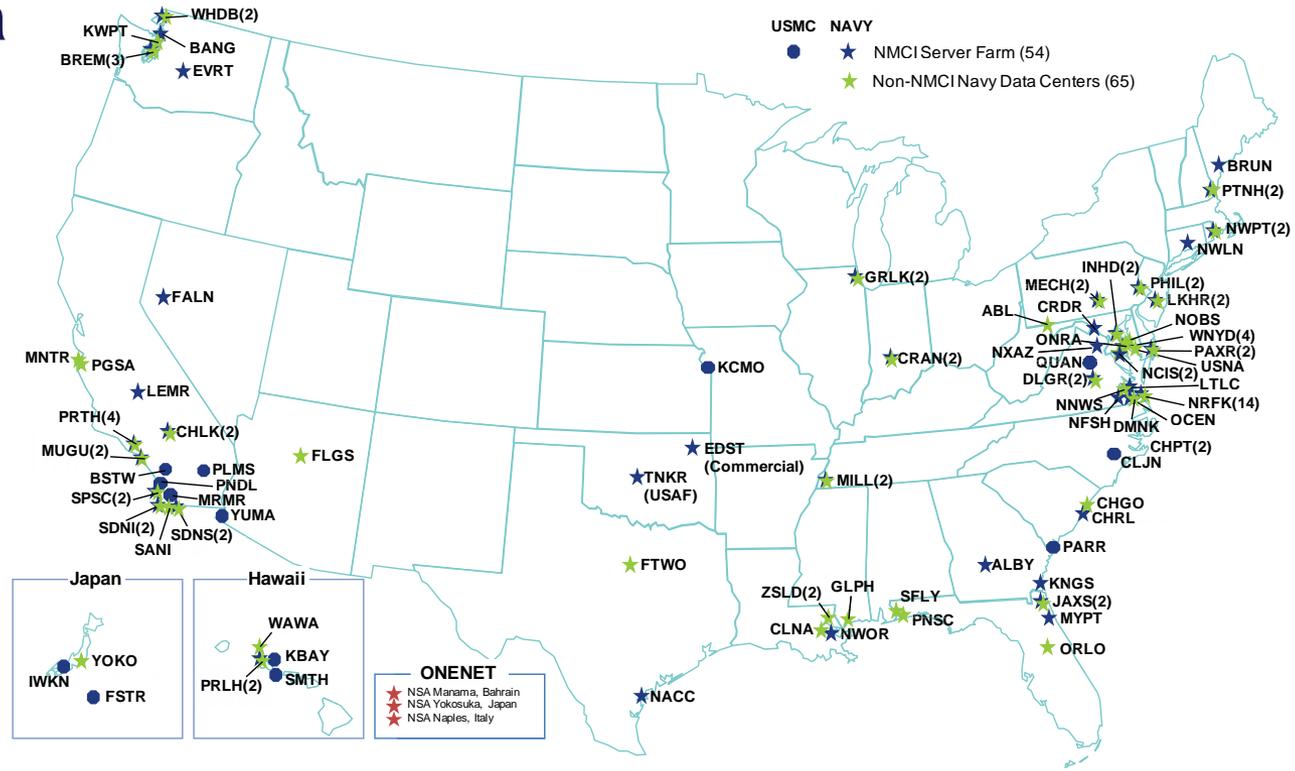
- ▼ DCC TF will assess and consolidate at least 58 data centers over the next few years to:
  - Realize significant cost efficiencies
    - Hardware and application utilization
  - Improve information assurance and cyber security
  - Improve service to users
    - Implement continuity of operations (COOP) and disaster recovery (DR)
  - Gain control and understanding of Navy IT assets and capabilities
    - Posture the Navy to capitalize on future technologies and cloud-like services
  
- ▼ Status
  - Assessing ~40 legacy data centers in 2012
  - Consolidating 22 sites in 2012

**TF Gaining Great Insight into Navy IT Landscape**



# Current Navy Data Centers Footprint

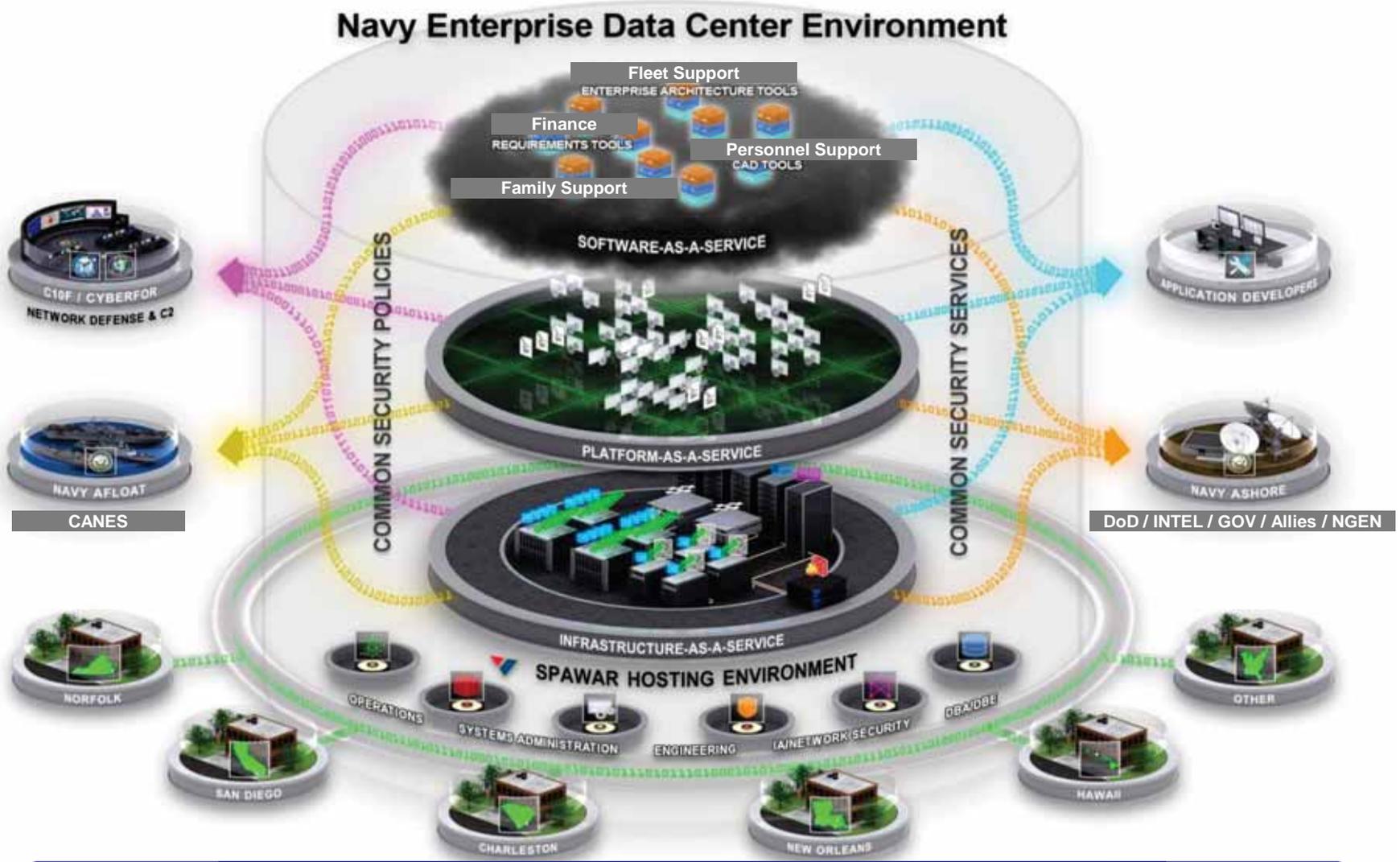
- ▼ Over 150 data centers
- ▼ Quality varies
  - Security
  - Modernization
  - COOP/DR
  - Efficiency
- ▼ Multiple support models
- ▼ Multiple cost models



Based on 2009 PEO EIS data center study and criteria, 119 data centers identified between NMCI and non-NMCI (excludes ONENET)

**“One of the things we will do in the department is to look at what are the best operating data centers in terms of mission sustainment, cost of operations and security, and those are the data centers that we will move stuff into.”** – Terry Halvorsen, DON CIO, Defense Systems magazine, Oct. 12, 2011

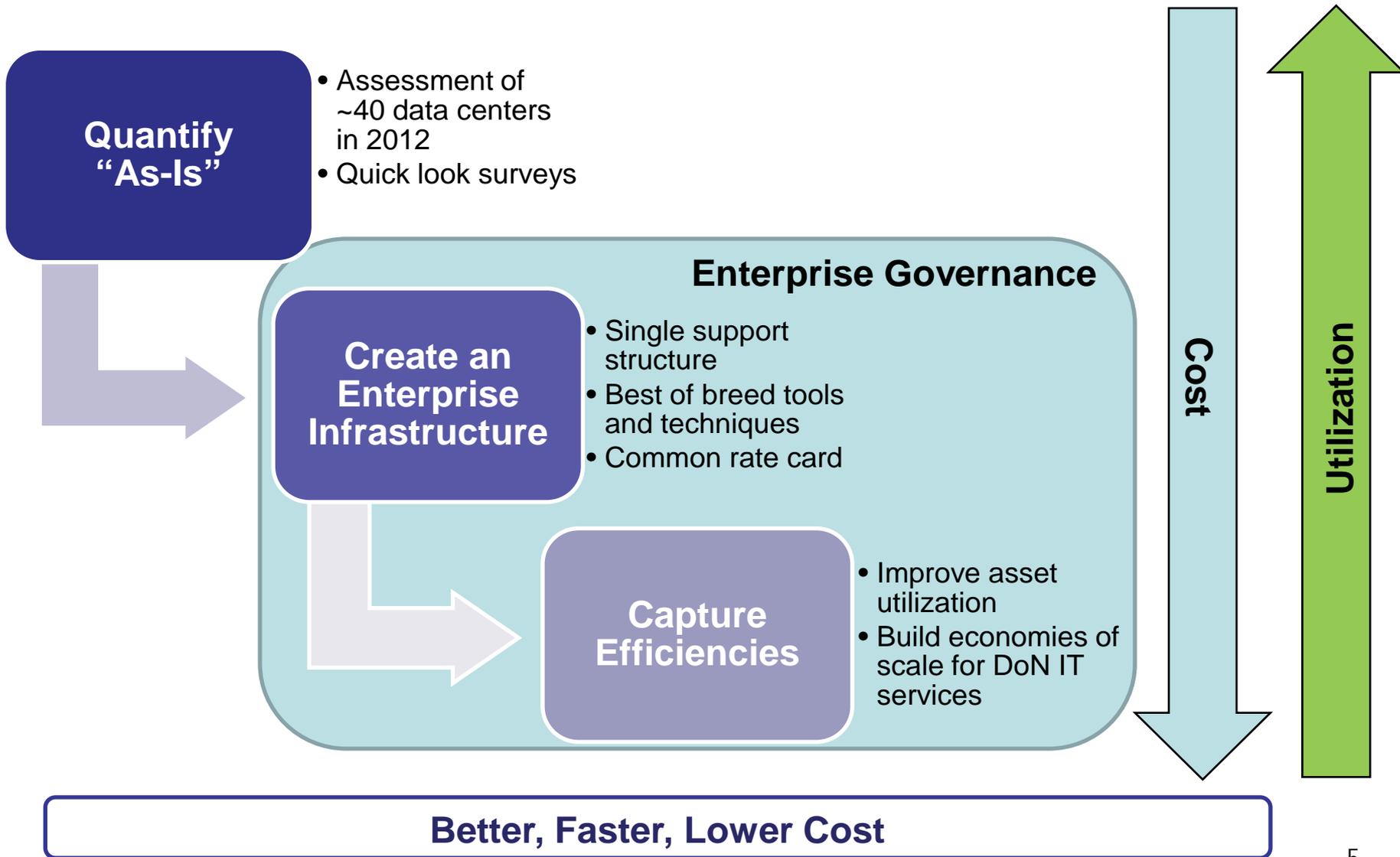
# Navy Enterprise Data Center (NEDC) End-State



**NEDC Enables Other IT Efficiency Opportunities**



# Deliver an Efficient Enterprise Infrastructure





# DCC TF Near-Term Activities

## ▼ Quick look survey

- Directed to conduct quick look surveys between Jan-Jun 2012 (~ 70 additional data centers)
- Leveraging experienced active duty Navy personnel and government civilians

## ▼ NEDC

- Enterprise Rate Card
- Common Architecture
- Collecting and analyzing site cost data
- Ensuring catalog of services reflects customer needs

## ▼ Transition planning

- Developing a process to determine location for each system/application
- Planning for site closures
- Consolidations starting in February



# Early Observations

## ▼ Cost

- No single ***comprehensive*** IT asset data call
- Challenges collecting relevant cost data for sites *and* the TF
  - Labor data complexities
- Varying quality of documentation

## ▼ Technical

- Inefficient utilization of IT assets
- Legacy excepted networks-analyzing justifications
- Some systems operating without accreditation or outside the intended use per the accreditation
- Capturing customer needs (storage, computing capability, DR and COOP, security, etc.) to ensure the catalog of services will be sufficient



# The NEDC Advantage

- ▼ NEDC knows customer needs and environment
  - Already work and comply with DoD information assurance processes and procedures
  - SLAs developed to support Navy applications and operating environment
  - Reduces IT spend on equipment and personnel
- ▼ NEDC based on commercial computing model
  - Applications operate in secure environment with COOP and DR
  - IT assets are optimized using virtualization, gets most out of IT purchases while providing scalability where needed
  - Maintenance time decreased
  - Delivers a competitive solution
  - Power and other infrastructure costs decrease



# Moving Forward

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## ▼ Industry support

- Sharing and helping us adopt best practices
- Assist execution of transition and sustainment activities
- Preparing Navy Enterprise IT for the future



# Questions?