NII/CIO
Enabling Net-Centric Operations

Net-Centric Operations Conference

"Achieving the Goals for the Net Centric Information Environment"

NDIA, Norfolk VA
6 March 2007

John Grimes
ASD(NII)/CIO

Net-Centric Operations

The Biggest Transformation in 50 Years

- **Need to Share INFORMATION**
- **ENTERPRISE solutions**
- **TRUST…**
  - *…the Information*
  - *…the System*
  - *…the Participants*

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A Net-Centric Information Environment

Users at all levels and in all situations:

- Accessing the best information available
- Pooling their knowledge
- Making better decisions faster
- Converting decision to actions
- Contributing to our security daily

"Uncertainty is the defining characteristic of today's strategic environment"

National Defense Strategy

"...focus on providing the tip of the spear with the information and actionable knowledge to determine the best course of action..."

MG Peter W. Chiarelli
CG, 1st Cavalry Division

Enabling Net-Centric Operations

Transforming the Information Environment

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Our Path to Success…

- Focusing on Data & Information Sharing
- Securing the Information Environment
- Leveraging Systems Engineering
- Use of Service Oriented Architecture (SOA)
- Closer Partnerships with Other Communities

Emerging Improvements…

- Synchronization of priorities, programs & investments
- Greater Acquisition Agility
- Strategic Sourcing Initiative for IT Products

Information Sharing

A Simple Concept, A Challenging Task

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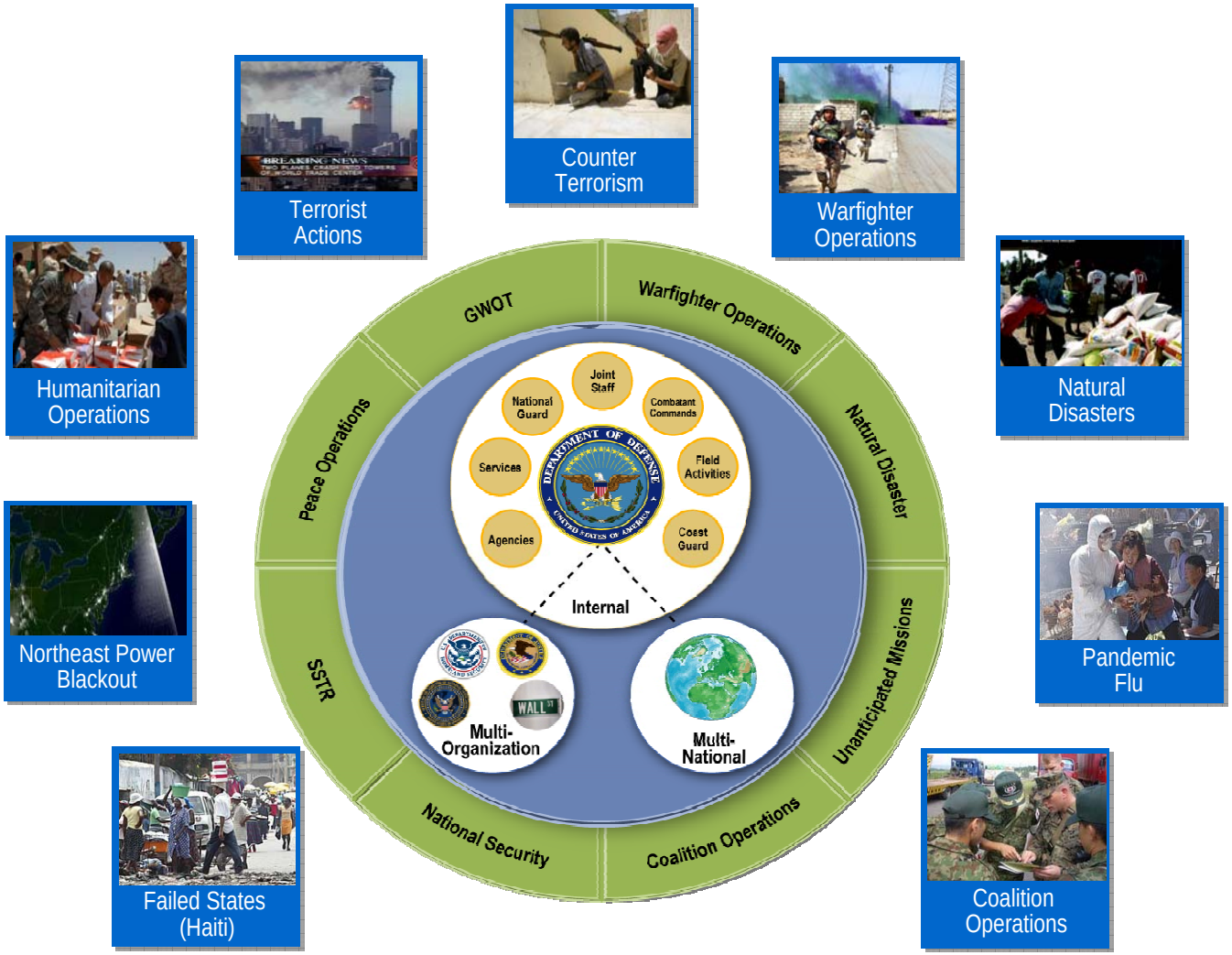

Data Strategy

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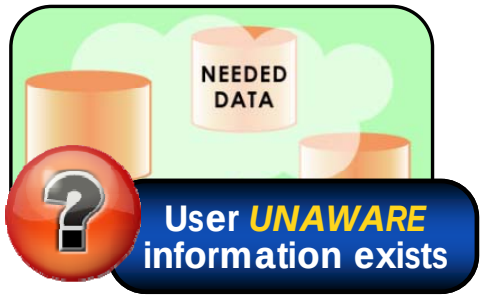
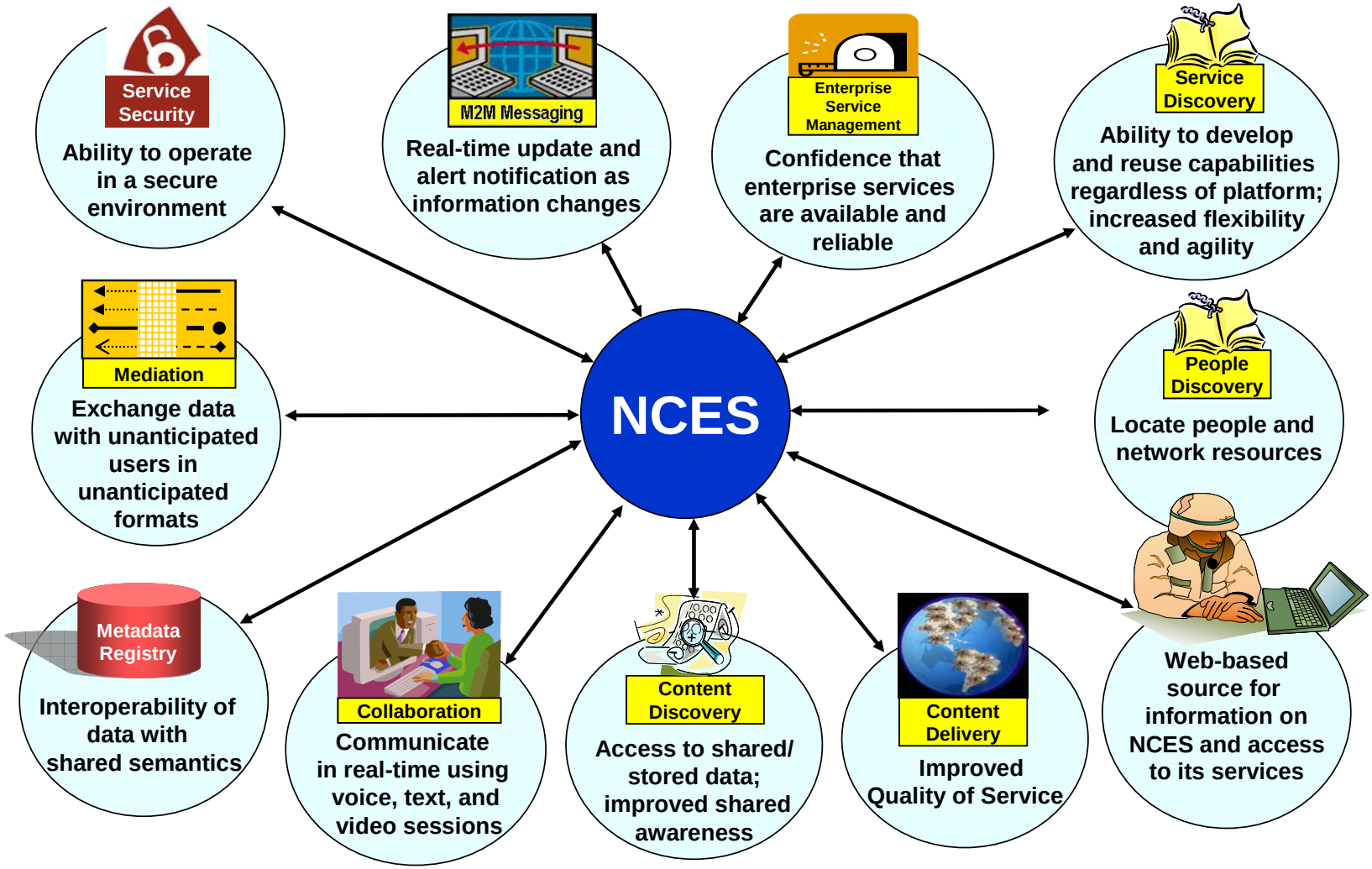
Challenges	Goals	Actions
	**Visible**	• Advertise Information • "Tag" Data
	Accessible	• Web Enable Sources • Remove Impediments • "Need to Share"
	Understandable	• Shared Vocabularies • Communities of Interest

Information Sharing

Leveraging Net-Centric Enterprise Services



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Sharing Information

Communities of Interest – Maritime Domain Awareness

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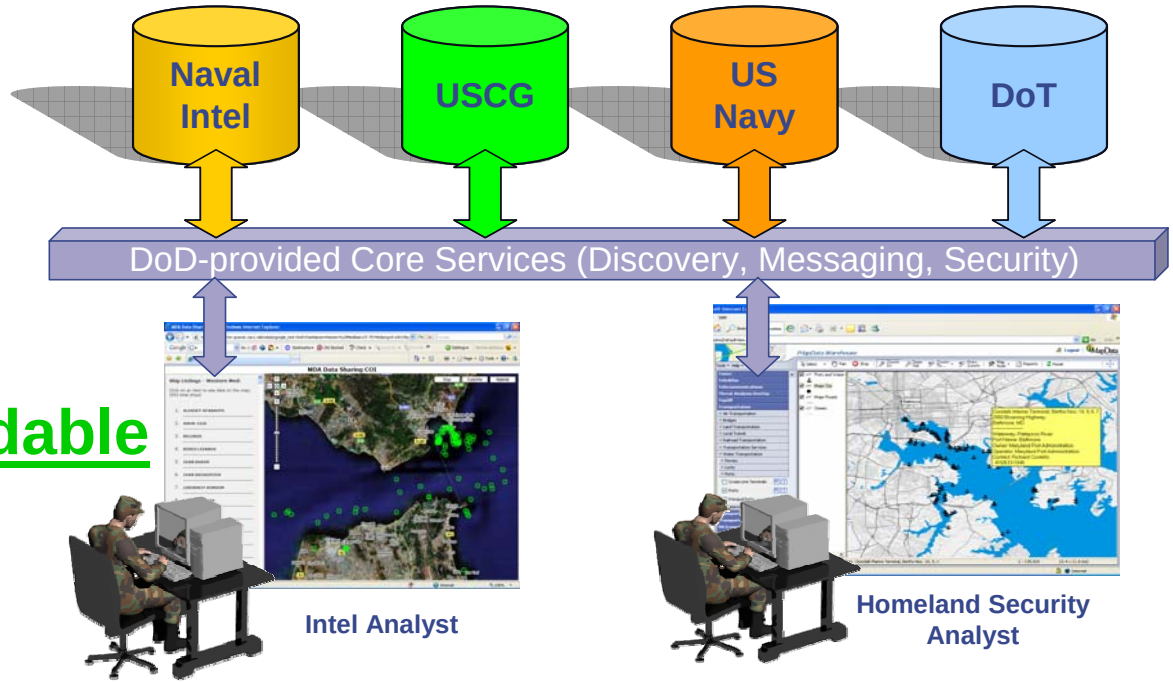
Eight Month Pilot Effort…

- Sources tagged
- Common vocabulary
- Web services
- Discoverable metadata
- Shared information
- User portals

Visible

Accessible

Understandable



Cross-Agency Info Sharing is Happening Today!

Securing the Information Environment

Confronting a Persistent Adversary

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- **The Cyber Threat:**
  - **Unconstrained by borders / boundaries**
  - Multiple paths of attack – little / no indications or warning
    - **Huge increases in targeted incidents on the Internet**
- **The Aggressors:**
  - **Responsive to our defensive measures**
  - Elusive, innovative - improving their command & control
    - **Increasingly immune, adaptive, enduring**
- **The Target:**
  - **Information – more valuable / profitable**
  - Personal, business & govt. data/intellectual property at risk
    - **Data theft, identity theft, loss, fraud, and deception**

Enterprise Security Solutions

Need to Keep Improving Information Assurance

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- **Accelerate Network Defense Initiatives**
  - Deploying PKI / CAC, patch management, host-based security
  - We're getting stronger, more responsive, more consistent
- **Cross-Domain Solutions**
  - Aligning policies, processes, governance to drive assured sharing
  - Established DOD/Intel Cross Domain Management Office (CDMO)
- **Certification & Accreditation**
  - Intel and DoD working together to transform / integrate processes
  - Systems fielded in one community authorized to operate in others
- **GIG Info Assurance Initiative (GIAP)**
  - Managing IA as a capability across the enterprise
  - Capability based, focused investment / results
- **Protecting Data At Rest (DAR)**
  - #1 concern among top security issues (2006 FBI survey)
  - DoD formed Tiger Team Aug 2006 to consider options

Synchronizing Priorities & Investments

Portfolio Capability Management

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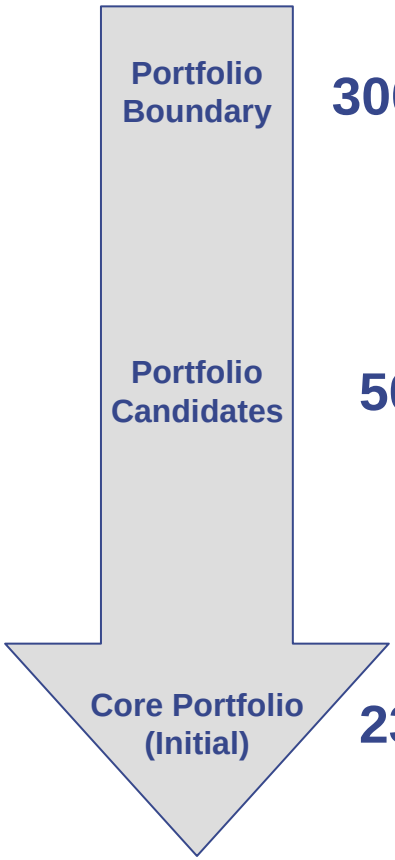
Managing capabilities to improve interoperability, minimize redundancy, and maximize effectiveness



300+ Programs

Began with programs aligned with Enterprise Information Environment, War fighting mission area and the Net-Centric Functional Capabilities Board

50 Programs

Transport – TSAT, ITAS
Services – NCES Collaborative
Info Assurance – GIAP
Network Mgmt
Knowledge Mgmt

23 Programs

TSAT
WGS
WIN-T/JNN
HC3, FAB-T, NMT
JTRS
HAIPE,KMI,PKI, CDS
NCES
SOSCOE
MUOS
DISN-NG
TELEPORT
JNMS
INMS
GEMSIS
GPS III
AEHF
MNIS

Changing IT Acquisition

More Capability to the Warfighter Faster

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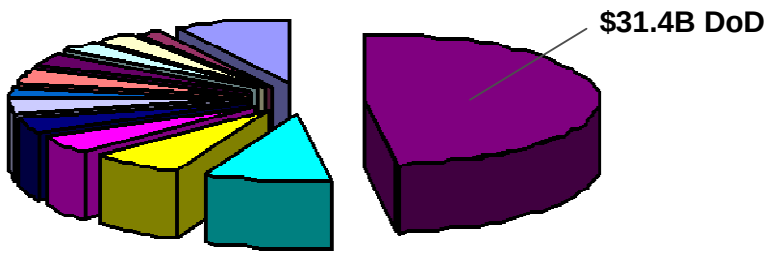
- **Reduce "custom" solutions**
  - Deploy standards based solutions
  - Put RFQs / RFPs on a diet…fewer pages, specs, testing
  - No more proprietary software
- **Be innovative – maximize IT investment**
  - Bulk buy commodities like PCs / laptops
  - Leverage software enterprise licenses
  - Deploy COTS in standard configurations

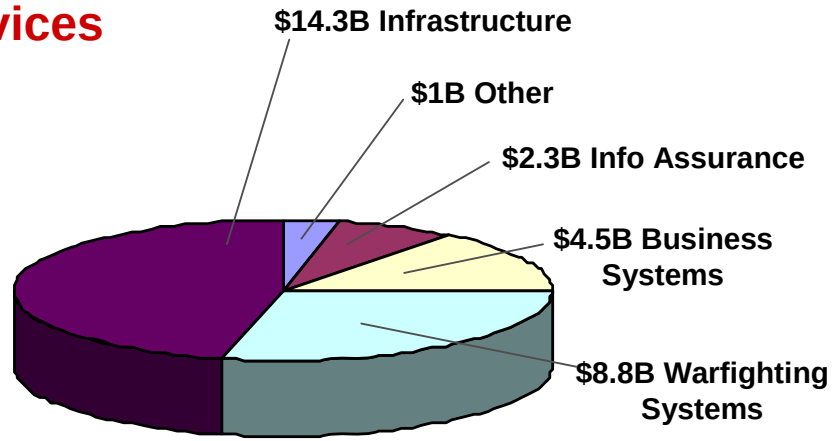
Future IT Investment

- Saving money by shutting down systems
- Increasing IT investment transparency
- Federal IT budget growth FY08…2.8%
- DoD comprises 50% of Federal IT $
- Leveraging “line of business"
  - Payroll
  - Case Mgmt.
  - Travel
  - Accounting
  - Recruiting

} **Common Services**



President’s FY08 IT Budget $65.4B



DoD’s FY07 IT Budget $30.9B

Our Mantra - Buy Less, Share More

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Building Partnerships

Inter-Agency Involvement is Critical to Success

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Operational Partners

- Combatant Commanders
- Intelligence (DNI)
- NATO / Coalition allies
- JTF-GNO / STRATCOM
- DOT / FAA
- Red Cross, other NGOs

- **Meeting mission requirements**
- **Sharing information**
- **Protecting information**

Technical Partners

- Military Labs
- Industry
- Academia

- **Developing solutions**
- **Delivering capabilities**

Policy Partners

- HSC / National Security Council
- DNI CIO – joined at the hip w/ DoD
- CNSS

- **Common standards**
- **Coordinated efforts**

The Way Ahead…

Scalable, Interoperable, Standards-Based Solutions

- **Philosophy**
  - **A**dopt before **B**uy, Buy before **C**reate (**ABC**)
- **Emphasis**
  - Secure, enterprise-level capabilities
  - IP based
  - Web enabled
  - Service Oriented Architecture (SOA)
- **Innovation in technology & services**
  - Continue looking to industry for new approaches

Field capability quickly…Leverage COTS

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Customer Focused – Warfighter 1st

Our Challenge… deliver the right solutions *quickly* and *reliably*

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