



*Operationalizing Information Technologies:
Impact on People, Processes, and Readiness*

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Information Technology Style

- Digital Native

- A person who has grown up with digital technology such as computers, the Internet, mobile phones, and MP3
 - Typically born after 1980

- Digital Immigrant

- A person not born into the digital world:
 - has adopted many aspects of the technology, but just like those who learn another language later in life, retains an *accent* because they still have one foot in the past
 - challenged to communicate effectively with digital natives

- Analog

- A person who chose to not adopt emerging technology

Digital Immigrants challenged to keep pace with Digital Natives



Current Generation of C4I War Fighters

Today's leaders & soldiers are digital natives and use IT technologies to their advantage for situational awareness and collaborative, agile decision making



The Environment:*

- Lack of information and services that are visible, accessible and understandable
- Information “silos”-- capability needed to move information from one stove-pipe to another
- Hard-wire interfaces aimed at predetermined needs unresponsive to dynamic environment
- Continue to not leverage the latest information technology solutions available commercially

“Digital Natives” trapped in industrial-era institution

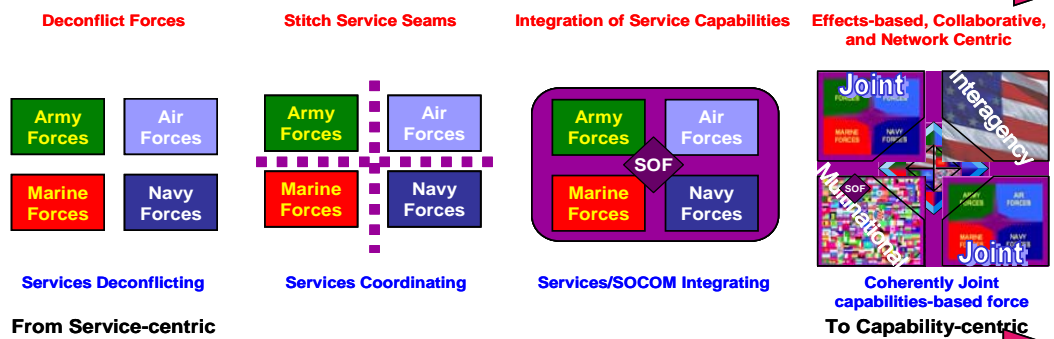
* Source: DSB Summer Study 2006



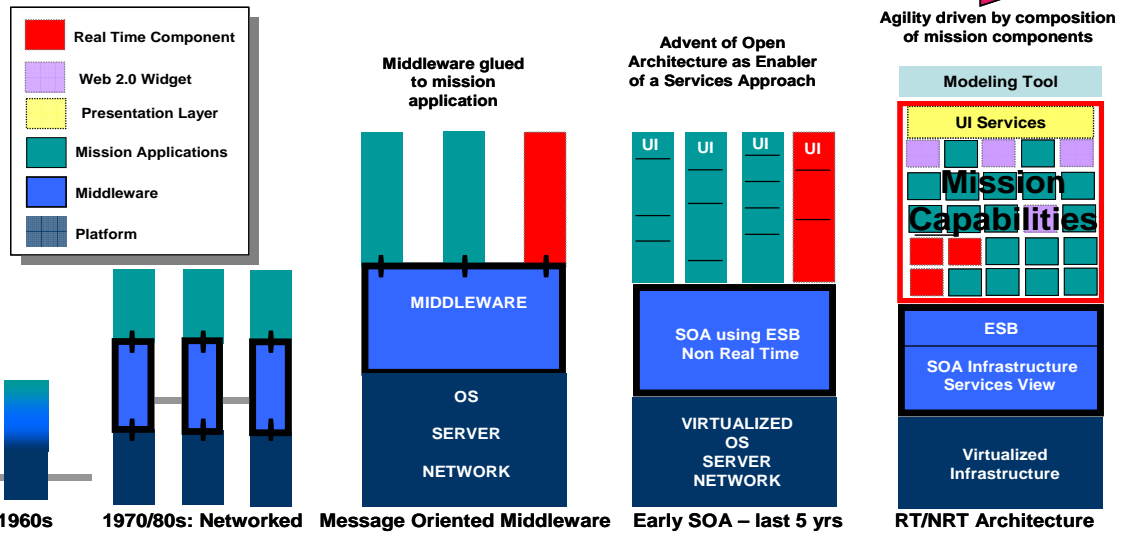
The Co-Evolution

Leveraging IT to Support Mission Operations

Evolution of DoD Operational Environment → Mission needs drive this transformation



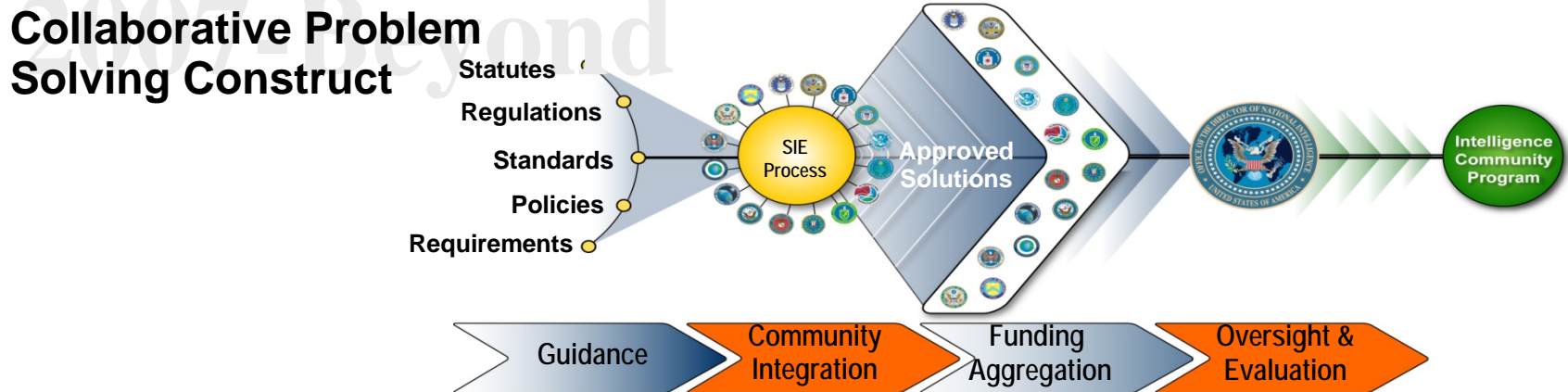
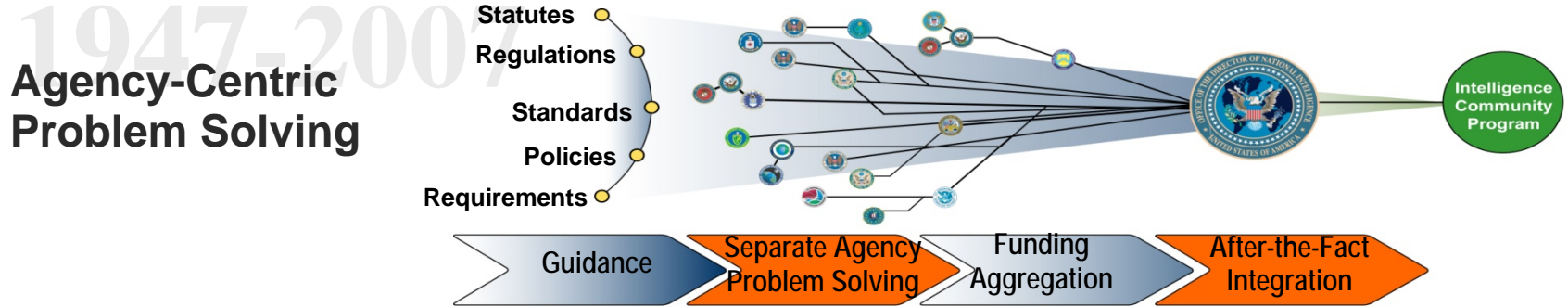
Transforming of Information Environments → Commercial IT trends drive transformation



DoD is behind industry – now at early SOA phase



Opportunities to Change -- Leverage Enterprise Efforts*



* DNI/CIO Strategy

Intelligence collaboration



Impact on People

⑩ Logistics

- ⑩ Asset visibility
- ⑩ Smart weapons systems
- ⑩ Wireless technology
- ⑩ Training and simulation

⑩ Medical support

- ⑩ Single health record
- ⑩ Ability to track from front lines to hospital

⑩ Pay and personnel

- ⑩ Guard, Reserve, active transitions
- ⑩ Interoperable

IT “to the edge” improves operations



Impact on Processes

- **Operational decisions are better informed**
 - Blue force tracking
 - Information sharing between all Services, Agencies and Allies
 - Rapid secure communications
- **Logistics processes more responsive**
- **Business processes more efficient**

IT/Net Centricity changes the way we fight



Impact on Readiness

- **Material readiness improved**
 - Asset visibility enabled across components
- **Personnel readiness enhanced**
 - Training
 - Medical
 - Personnel and pay

Net Centricity critical to supporting the Digital Natives



Summary

- Our customers are mostly digital natives and demand Net-centric information sharing to maintain the unprecedented operational advantage
- We are now following commercial industry
- The Department is in a transition from the Industrial Age to the Information Age
- IT will change the way we operate and how we support our customers

*Digital Immigrants challenged to keep pace with
Digital Natives*