

The Global Information Grid:

Enabling the Transformation to Net-Centric Operations

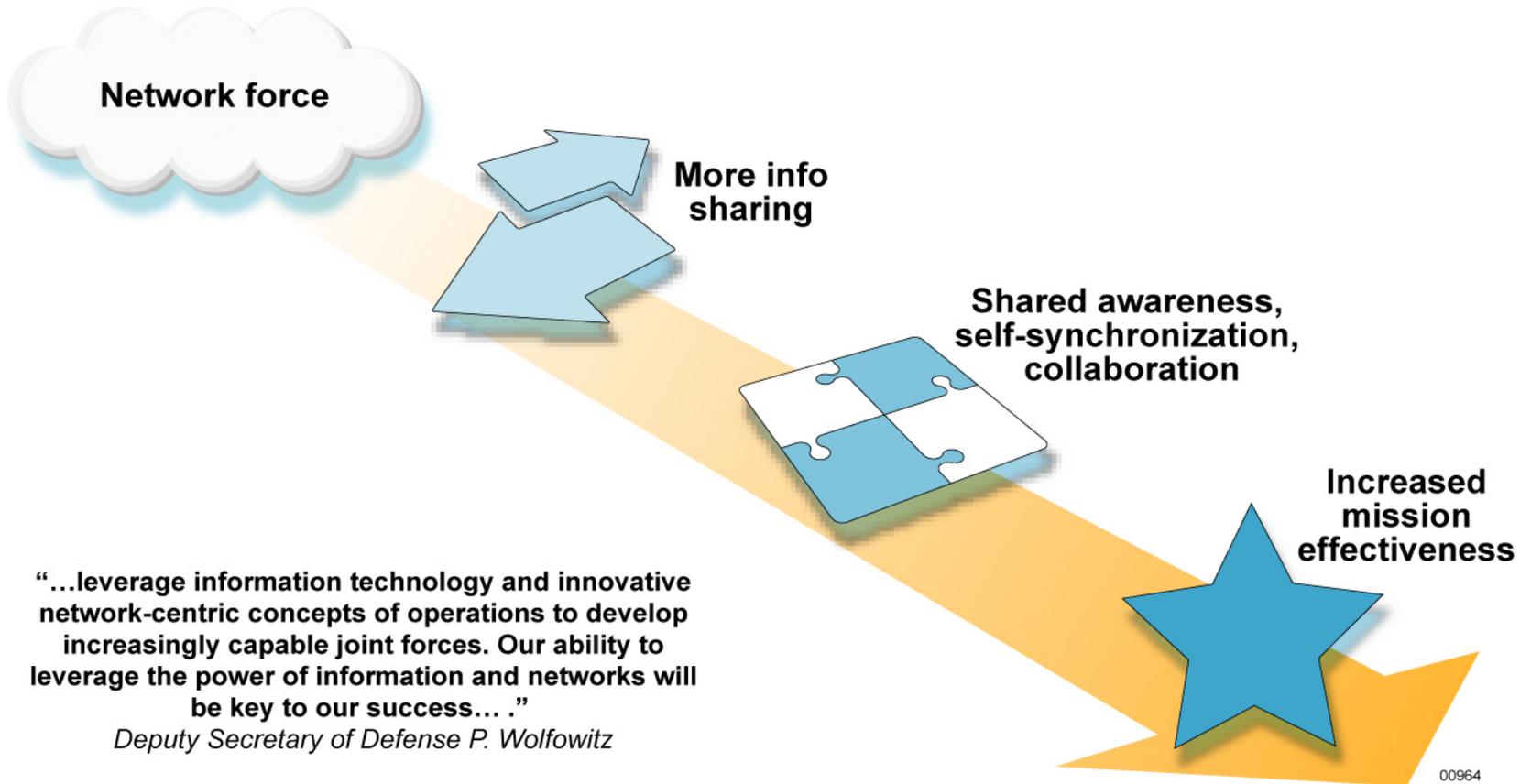
March 2005



Power to the Edge ~~~~~

DoD Transformation Vision

Information Age Evolution → Net-Centric Operations and Warfare



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Power to the Edge!

People throughout the trusted, dependable and ubiquitous network are empowered by their ability to access information and recognized for the inputs they provide.

Three goals:

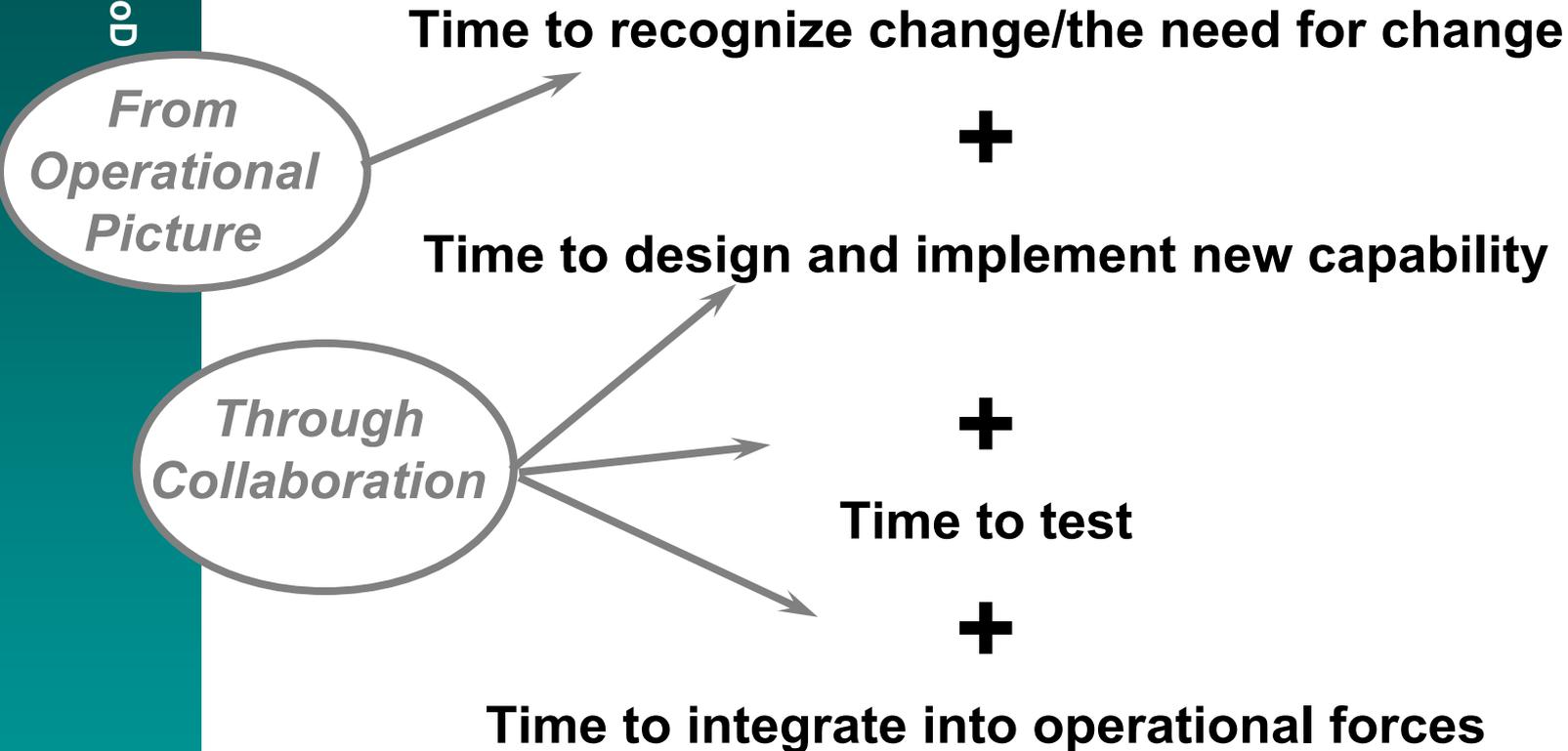
- *Build the net*
- *Populate it*
- *Protect it*

Everyone and everything is on the net!



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Agility MOEs - the *New Metrics*



Net-Centricity Affords Key Benefits

<i>Better use and protection of resources</i>	Faster, superior decision cycles and shared awareness
	Effective force multiplication through higher quality information
<i>More effective use of information assets</i>	Improved “command and control”
	Immediate awareness of information availability
	Near-real time availability of intelligence
<i>More efficient use of platforms</i>	Better “pictures” of the operating environment
	Better visibility into asset status
	Higher yield to warfighters based on transformed business processes



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When the Vision Is Achieved.... What's In? What's Out? with Net-Centricity

IN

- User-Defined Operating Picture
- Self-synchronizing ops
- Information pull
- Collaboration
- Communities of Interest
- Task, post, process, use
- Only handle information once
- Shared data
- Persistent, continuous IA
- Bandwidth on demand
- IP-based Satcom
- Diverse routing
- Enterprise services
- COTS based, net-centric capabilities

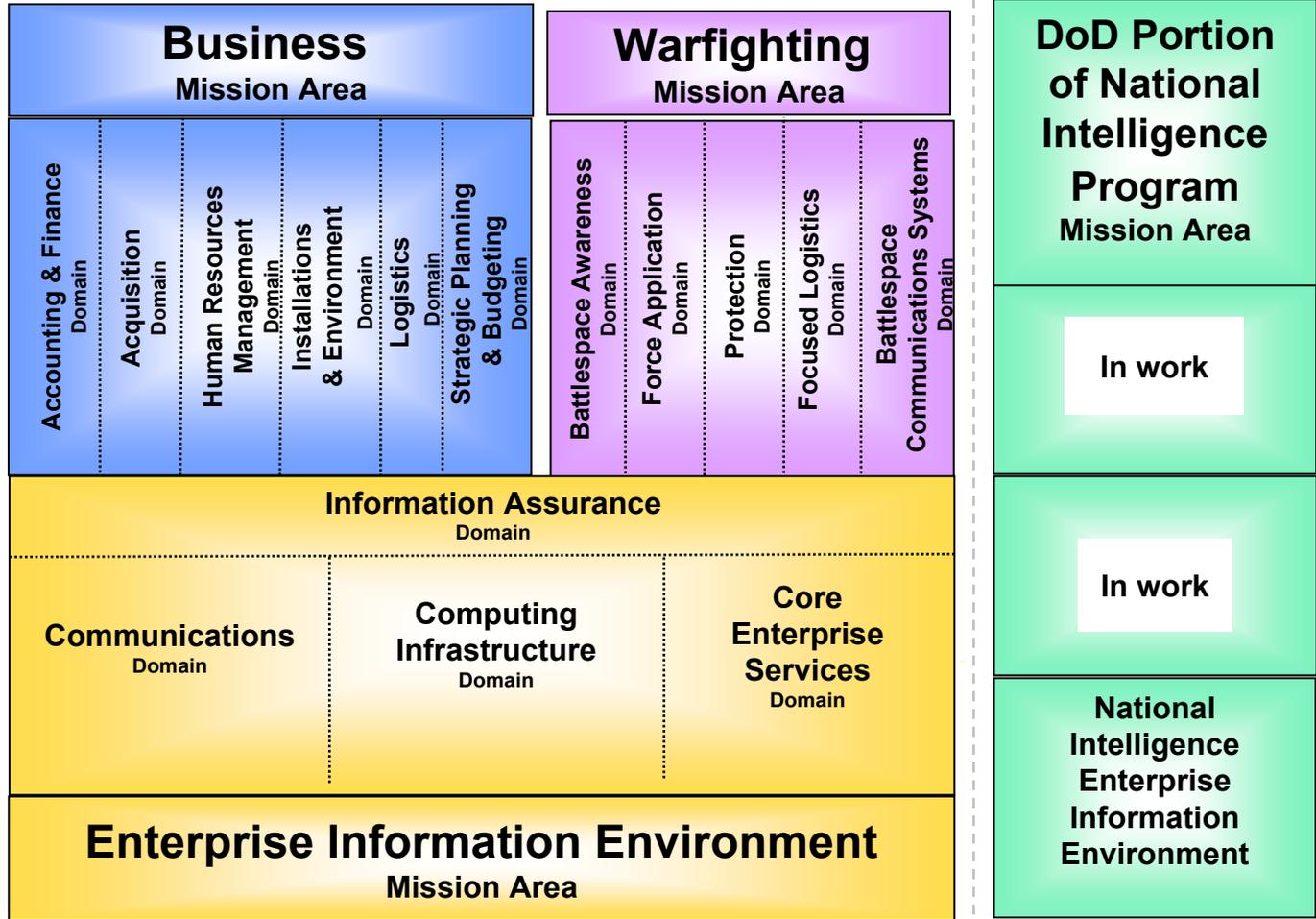
OUT

- Situational awareness (COP)
- Autonomous ops
- Broadcast information push
- Individual
- Stovepipes
- Task, process, exploit, disseminate
- Multiple data calls, data duplication
- Private data
- Perimeter, one-time security
- Bandwidth limitations
- Circuit-based Satcom
- Single points of failure
- Separate infrastructures
- Customized, platform centric IT



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GIG Portfolios



Challenges

- Resourcing and **completing the communications backbone** – the critical enabler:
 - **TSAT** – from the terrestrial (GIG-BE) to mobile environments
 - **JTRS** – the mobile communications backbone
- Defining, resourcing and implementing the **GIAP – GIG IA Portfolio** – to secure the networks, data and therefore our resources and people
- **Quality of Service** – operating at or above required service levels – for headquarters and mobile, disadvantaged users
- **NetOps** – understanding the environment and delivering trustworthy service to all users, anytime and anyplace
- Implementing the **data strategy** – so that required data is visible, accessible and understandable – even by unanticipated users



What Does Net-Centricity Mean for our Industry Partners?

- Faster application implementation
 - Increased use of COTS
 - Fewer dollars for application integration
- Robust, highly engineered Enterprise Information Environment (EIE)
 - Significant engineering effort – end-to-end QoS
 - Requires standards in many areas – lots of work here
 - Service Oriented Architecture – expect to use managed services – new business models
- Ability to access needed data – anytime, anyplace
 - Focus on data – data separate from applications
 - Less dependency on contractors and/or software to “find” or translate information
- Collaboration
 - More collaboration – internally and externally



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What Does Net-Centricity Mean for our Industry Partners?

(continued)

- **Shortened timelines between recognizing the need for change and integrating a new capability into the operational force (agility)**
 - More focus on process improvement
 - IT isn't the long-pole on organizational change/implementing new capabilities



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