



# INFORMATION MANAGEMENT/ INFORMATION TECHNOLOGY (IM/IT)

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## Advanced Planning Briefing to Industry

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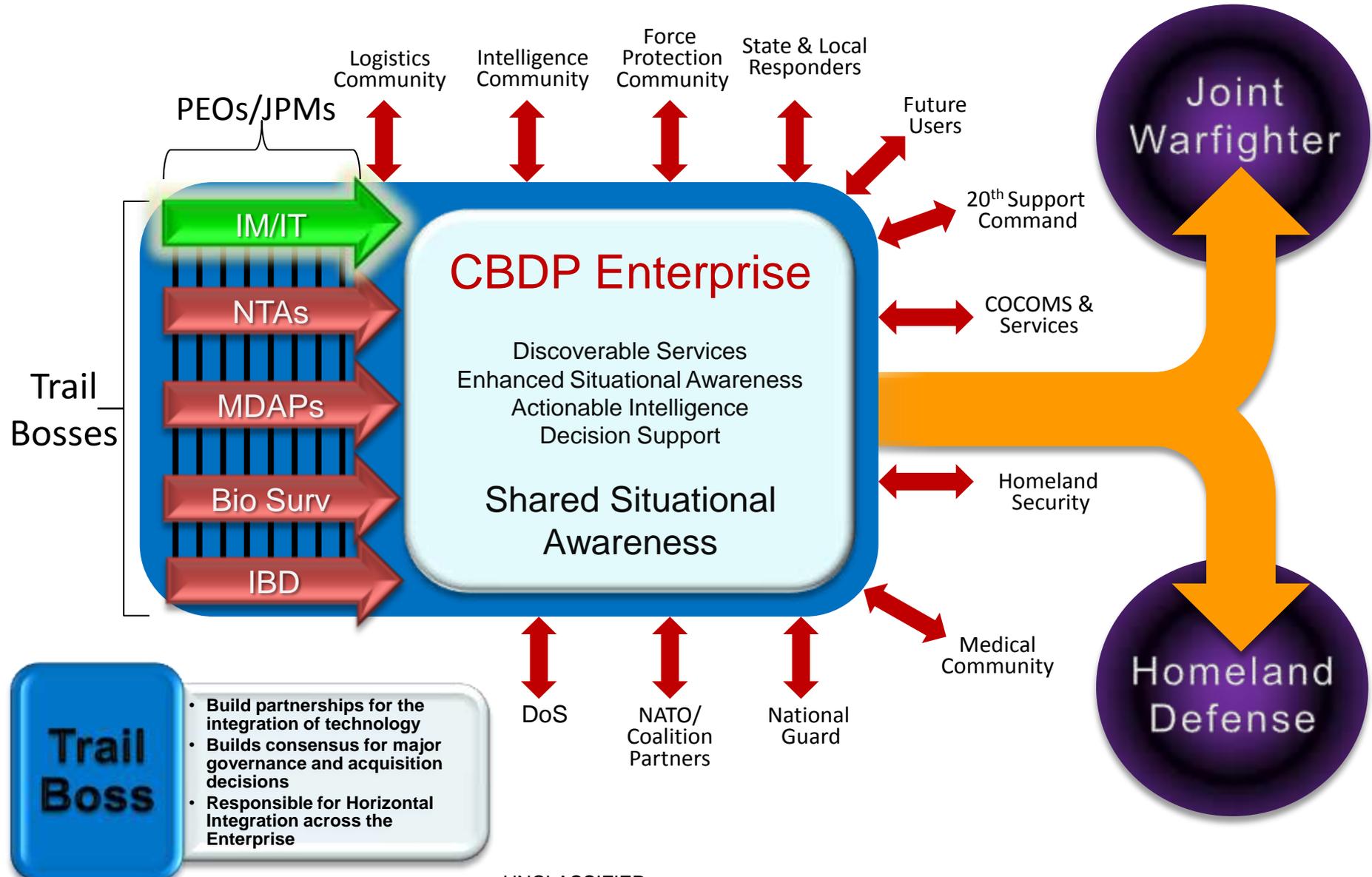


# Outline

- JPEO-CBD Enterprise Management
- What is IM/IT?
- Why IM/IT?
- IM/IT Enterprise Trail Boss Focus
- A Notional Enterprise Information Environment
- Portal Vision for IM/IT “Cloud” Services
- Enterprise CBRN Capabilities for the Warfighter/User
- IM/IT Enterprise Systems Engineering (SE)
- Technical Challenges
- Questions



# JPEO-CBD Enterprise Management





# What Is IM/IT?

- The Information Management Information Technology Enterprise (IM/IT) is Composed of:
  - A Reference architecture
    - Common Standards and Protocols
    - DISA Approved Services
    - Common Data Model
  - Validated JPEO-CBD Services and Components
  - Standardized Development and Integration Processes
  - Fully Capable Systems Integration Lab (SIL)
    - Integration of Capabilities for Bio-Surveillance (and other) Mission Areas
    - Vetting and transition of S&T Capabilities

**IM/IT Enterprise provides the right information to the right person at the right time**

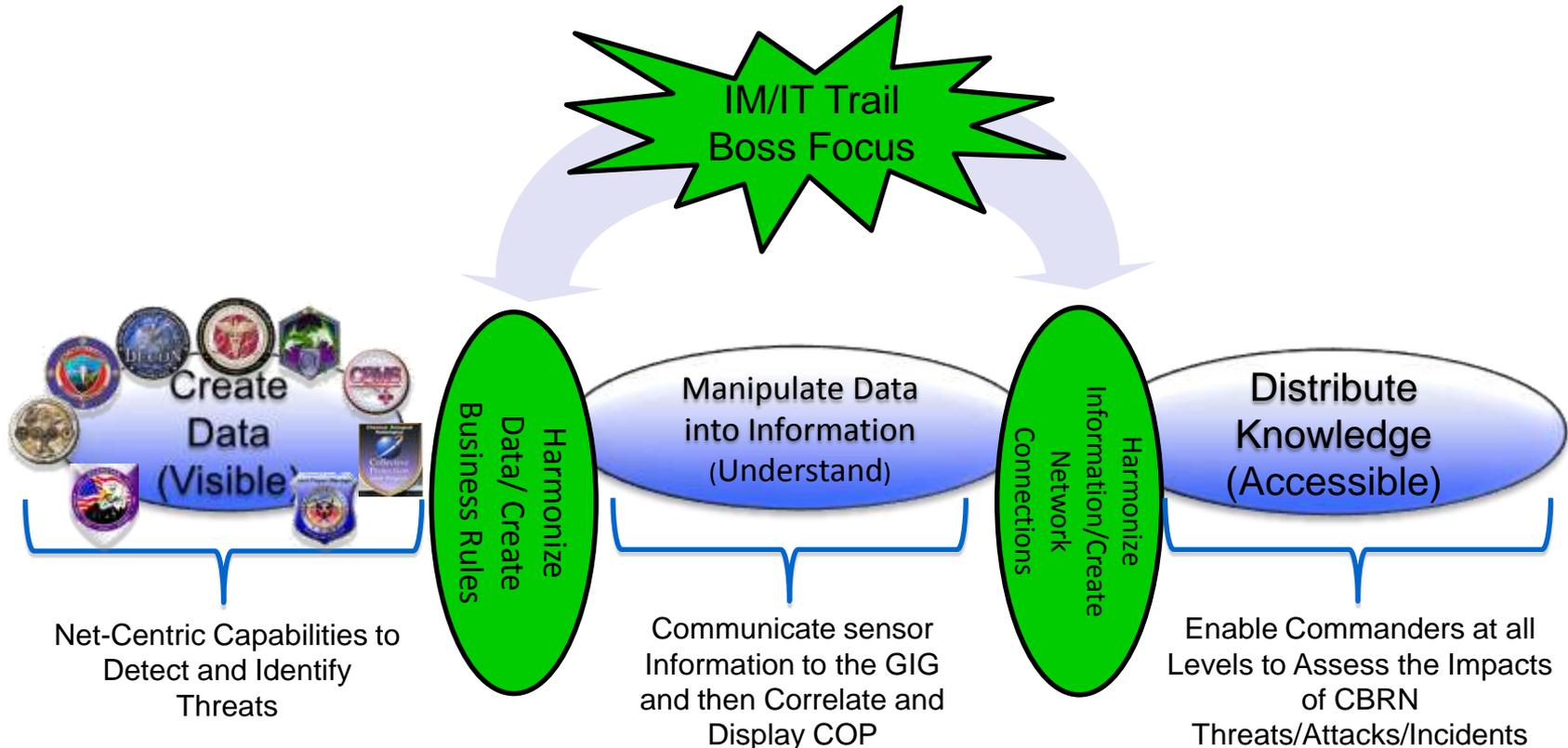


# Why IM/IT?

- Interoperability is Critical to CBRN Mission
- JPEO-CBD Information Systems are Required to Supports CJCSI 6212 and DoD Directives:
  - DODD 8100.01: Global Information Grid
  - DODD 4630.5: Interoperability & Supportability of Information Technology & National Security Systems
  - DODD: 8000.1: Management of the DoD Information Enterprise
  - DODD: 8320.2: Data Sharing in a Net-Centric DoD
- CBDDP Systems will Require Data from Multiple Sources to be Shared Across Multiple Applications
- CBDDP Systems Need Defined Processes and Standards that will Improve Access to Data and Shorten Time Required to Develop and Distribute Information to Key Stakeholders

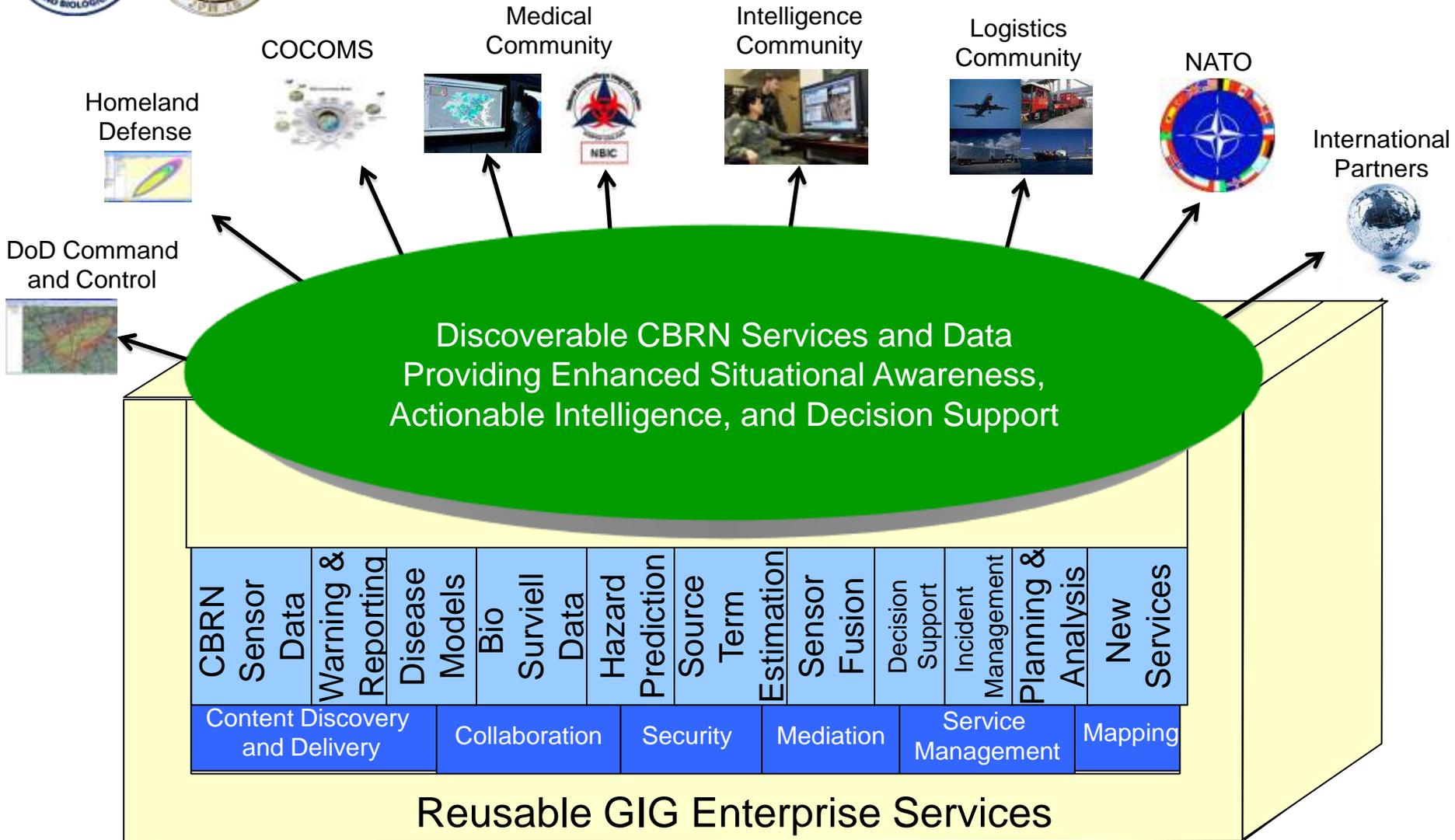


# IM/IT Trail Boss Enterprise Focus





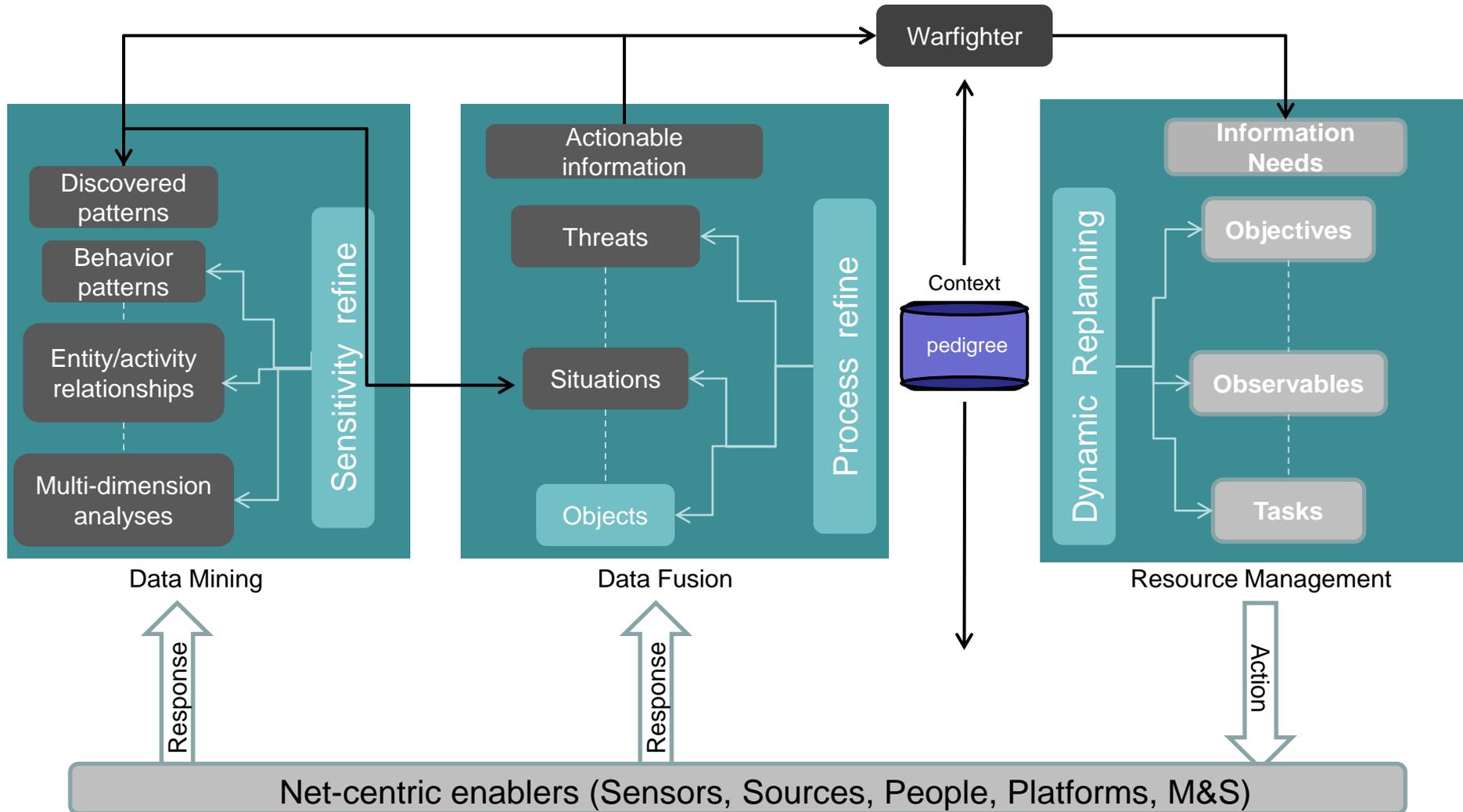
# Enterprise CBRN Capabilities for the Warfighter/User



**CBRN Capabilities, Services, and Data Available to all GIG Consumers**

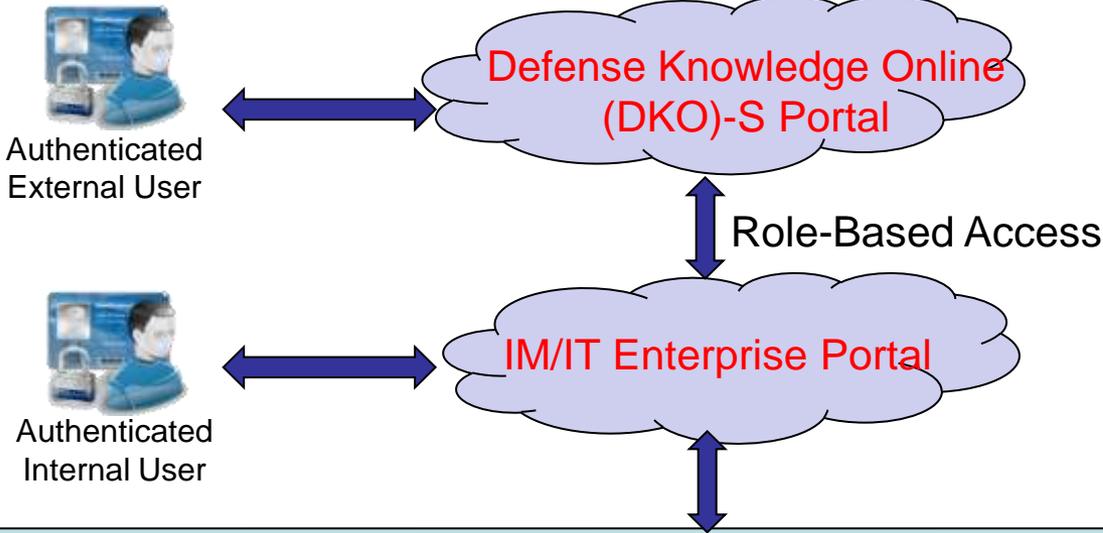


# The Enterprise Information Environment





# Portal for IM/IT “Cloud” Services



IM/IT Portal Internal users have Role-based, Authenticated Access to IM/IT Services through a DoD-common Portal. The Portal provides a Bridge between Legacy CBD Information providers and Future Systems.

External Users will be able to Access the IM/IT Portal through DKO-S and will be able to Access Information Based on Their Role and Need to Know.

## IM/IT Provided Services

CBRN Sensor Data	Warning & Reporting	Disease Models	Bio Surveill Data	Hazard Prediction	Source Term Estimation	Sensor Fusion	Decision Support	Incident Management	Planning & Analysis	New Services
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## Net-centric Services

Content Discovery and Delivery	Collaboration	Security	Mediation	Service Management	Mapping
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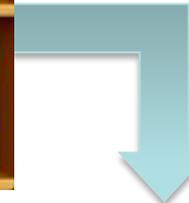
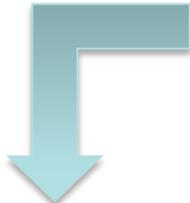


# IM/IT Enterprise Book Shelf

Medical Informatics for Therapeutics



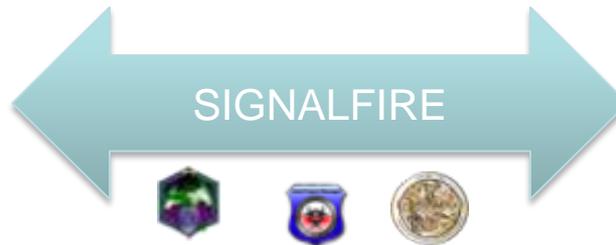
MIL-CIV Integration



Warfighter Readiness



Medical Surveillance





# IM/IT Enterprise Systems Engineering (SE)

- Facilitate CBRN Family of Systems Engineering
- Horizontal Integration across Commodity Areas
- Enhance Traceability from Joint Capabilities Integration and Development System (JCIDS) Requirements down to derived Performance, Hardware, and Software Requirements
- Create the ability to Analyze and Trace Impacts of Proposed Changes Across the Enterprise
- Common IM/IT Product Lines to be Utilized Across Multiple Programs
  - Example: Common CBRN Sensor Interface (CCSI)
  - Example: Common CBRN Model Interface (CCMI)



# IM/IT Enterprise Systems Engineering (SE) Tools

- Establishing a Enterprise Systems Engineering Tools Environment to Address Consistency and Visibility Across:
  - Requirements Management – Piloting Jama Contour
  - Architecture – IBM System Architect (SA) and XT (Web Client)
  - Feature / Problem Tracking – ALTASSIAN JIRA
  - Software Configuration Management – TeamCity with Subversion and Maven
  - Scheduling – Microsoft Project Server
  - Collaboration and Knowledge Management – SharePoint / Defense Connect Online (DCO) / Army Knowledge Management (AKO) / Defense Knowledge Online (DKO)



# IM/IT Technical Challenges

- Provide Proven Standardized Solutions to CBRN Business Domain and Warfighter Domain Issues
- Identify COTS Products that could Enable the IM/IT Enterprise Execution Strategy (Cost/licenses are an Issue)
- Achieve the IM/IT Portal Vision Built on the CBRN Backbone



# Program Points of Contact

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Questions?



# BACKUP



# IM/IT Requirements Management Tool Pilot

- Initial Pilot is for Requirements Management:
  - Jama Contour Software Procured and Installed - Configuration Underway
  - Hosting Environments Identified, Virtual Machines Configured and Installed - Configuration Underway as well as Information Assurance Requests and Authorizations
  - Ready to Schedule Training in San Diego, CA; Falls Church, VA; Dahlgren, VA; Edgewood, MD
  - Updates to Status of has (and continues to be) briefed at the monthly JPEO-CBD CHENG SE Forum
  - JPM IS Requirements Management Standard Operating Procedure (SOP) is in the Process of being Updated to Reflect Latest IEEE 12207 Best Practices and Systems of Systems Enterprise Engineering (not JPM specific) and will be Promulgated to JPEO-CBD for their Consideration to Standardize Requirements Management Across the CBDP Enterprise



# Acronyms

CBRNe – Chemical Biological Radiological Nuclear Explosive  
 DSS – Decision Support System  
 SOA – Service Oriented Architecture  
 DAL – Data Access Layer  
 DKO – Defense Knowledge Online  
 DS – Any generic Data Source (Not Necessarily a Data base)  
 BCCS – Battle Command Common Services  
 UDDI - Universal Description Discovery and Integration  
 PASS - Publish and Subscribe Services  
 DDS – Data Distribution Service  
 IIS – Internet Information Server  
 WCF – Windows Communication Foundation  
 JPEO – Joint Program Executive Office  
 JACKS – Joint Acquisition CBRN Knowledge System  
 CCSI – Common CBRNe Sensor Interface  
 JPMG FP – Joint Project Manager Guardian Force Protection  
 ICD 0100 – Interface Control Document 0100  
 IA – Information Assurance  
 NCES – Net-Centric Enterprise Service  
 CES – Core Enterprise Service  
 DCGS – Distributed Common Ground Service  
 TBC – Tactical Battle Command  
 TBMCS-UL – Theater Battle Management Core Systems – Unit Level  
 CPOF – Command Post of the Future  
 ThinC – Thin Client  
 JWARN – Joint Warning and Reporting Network  
 JEM – Joint Effects Model  
 JJI – Joint JWARN Interface