Distributed Common Ground/Surface System (DCGS) Industry Advisory Group (IAG)

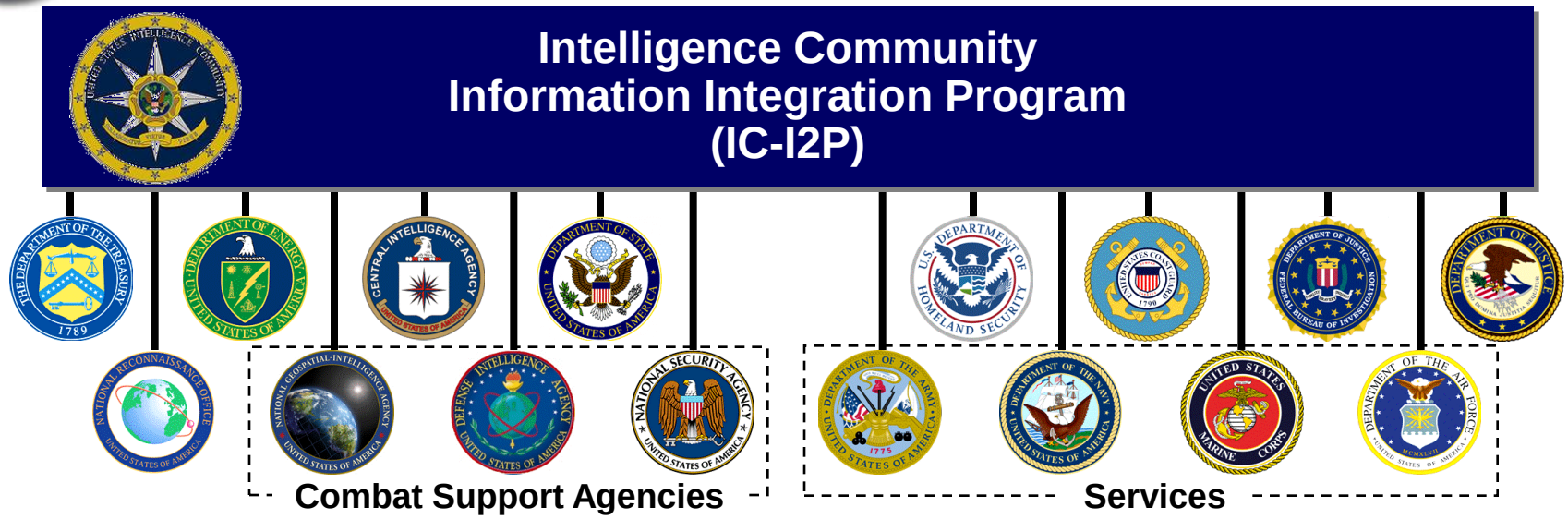
James Martin

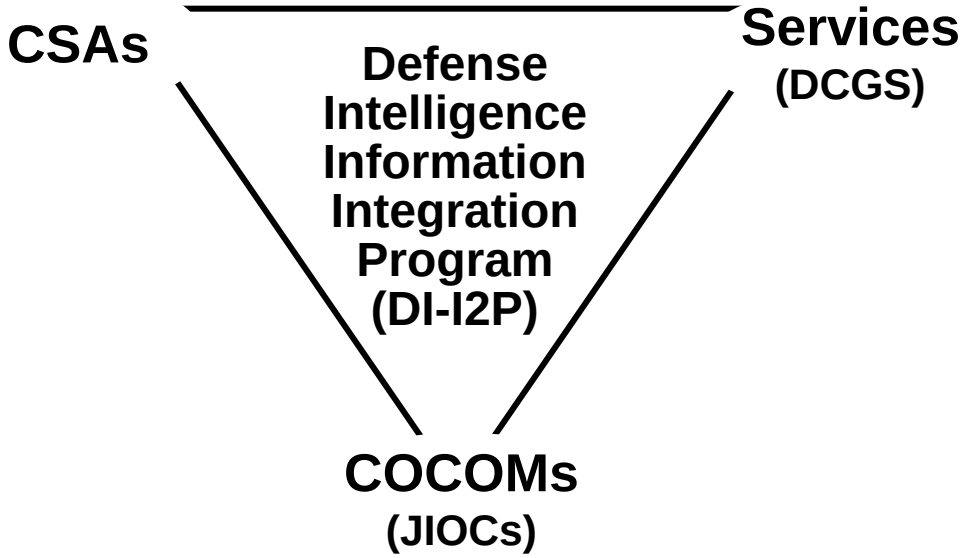
Office of the Under Secretary of Defense for Intelligence

ISR Programs Directorate

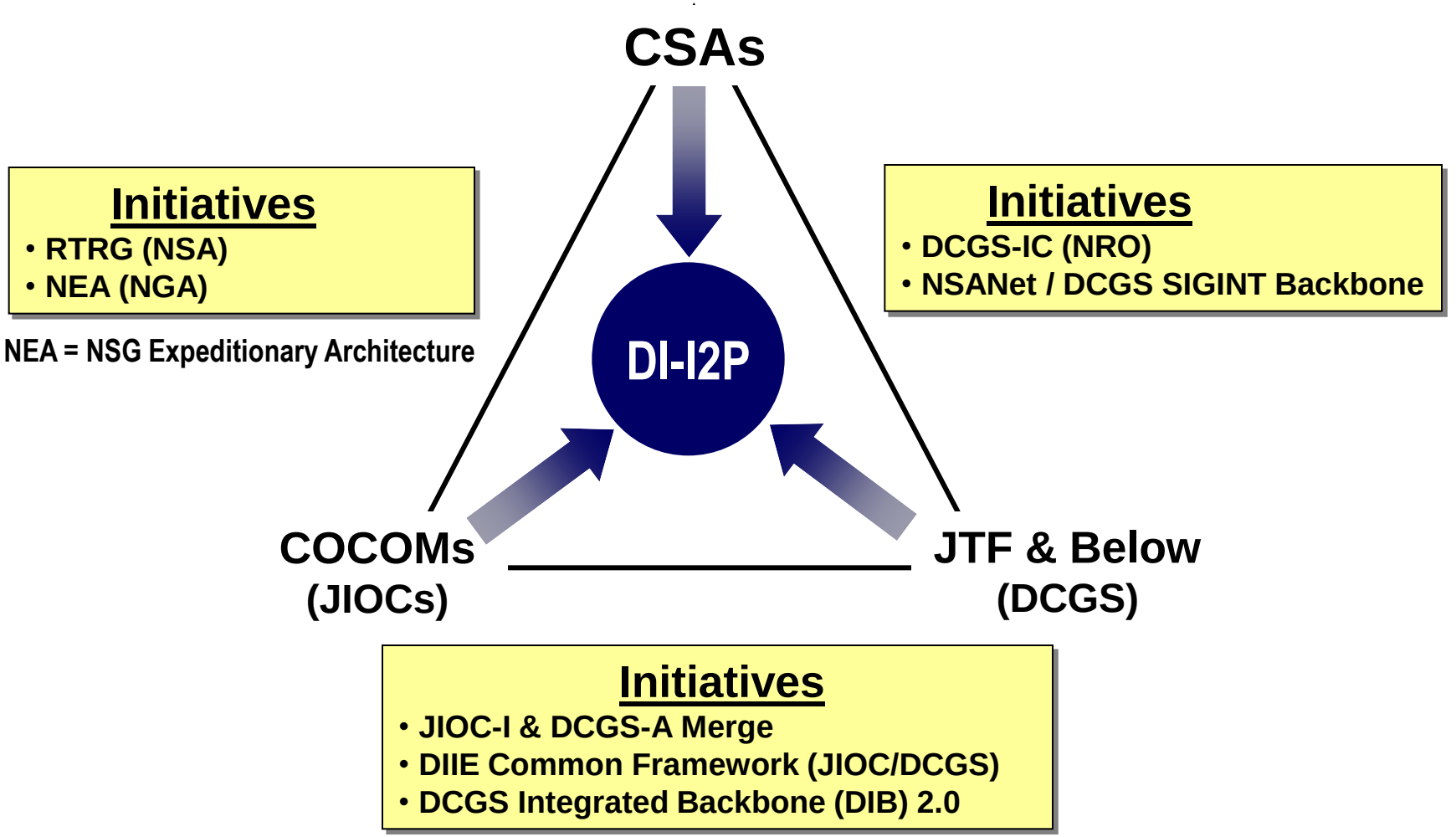
23 June 2009

Information Integration Governance

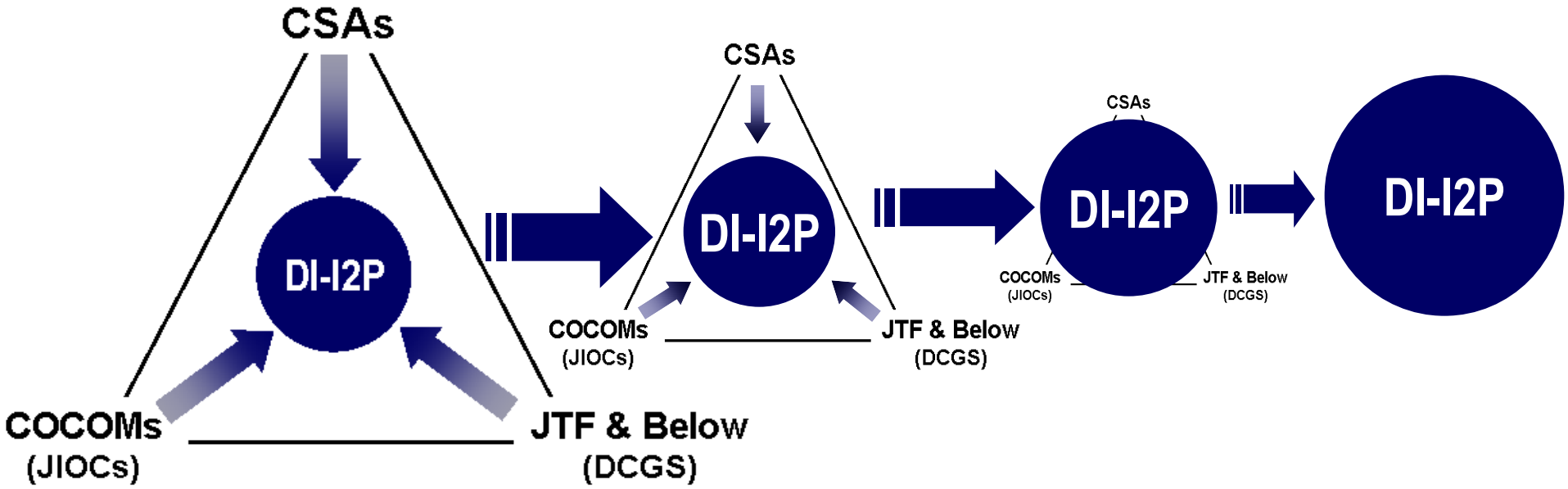




Defense Intelligence Information Integration Program (DI-I2P)



DI-I2P Vision



Collapses Multiple Enterprises into a Single Integrated Enterprise

Distributed Common Ground/Surface System (DCGS) Overview: "Unity of Effort"

John Snevely

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23 June 2009

Distributed Common Ground/Surface System

DCGS is…

- An ISR System that processes and exploits US and selected coalition sensor data (Army, Navy, Air Force, Marine Corps, USSOCOM)
- Optimized for JTF and below
- Operational today supporting GWOT/OIF/OEF
- Posting consumable Intelligence within the ISR Enterprise
- Evolving to a net-centric capability
- Included in the Battlespace Awareness (BA) Portfolio (Military Intelligence Program (MIP) Funded)

"DCGS is …
the Processing and Exploitation Component of the ISR Enterprise"

What is not Common in DCGS?

- **Service requirements for how data gets Distributed at the tactical level (Ground and Surface Systems) greatly differ:**
  - **Navy's limited footprint requirement drives the Battlegroup (DCGS-N afloat) as a node connected to the enterprise via reachback to CONUS**
  - **Army's "disconnected ops" requirement drives replication of independent data stores at tactical levels**
  - **USMC's and SOF's scalability requirement drives out a modular DCGS solution with tactically focused capability**
  - **Air Force's National production requirements drive out a large fixed exploitation and dissemination focused capability**

What is Common in DCGS?

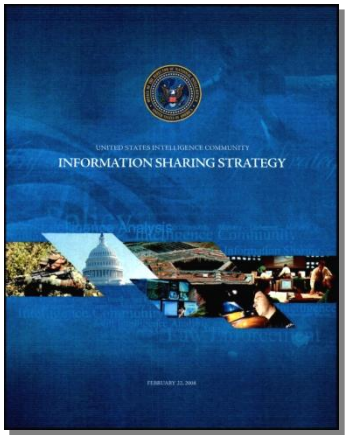
A Work in Progress

- **Hardware Components**
  - Common Imagery Processor (CIP), Common Data Link (CDL), Imagery Exploitation Support System (IESS), Imagery Product Library (IPL)
- **Standards**
  - Coalition Data Sharing, Motion Imagery, Still Imagery, Sensor Data Extensions, Measurement Analysis, Signals, Data Transfer Formats
- **Applications** (migrating to services vice standalone Apps, where appropriate)
- **Joint Documentation** (CONOPS, MA-ICD, JCD)
- **Governance Structure** (DCGS Board, IPTs, MET, Focus Teams)

USD(I) is focused on developing a Common Data Strategy composed of:

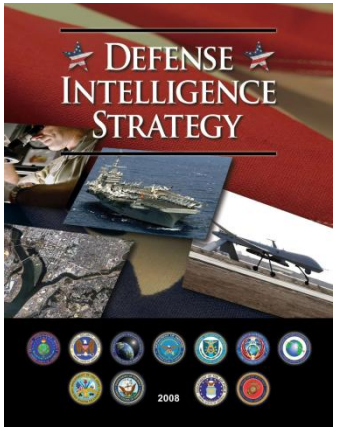
- **Common Data Layer** – Domain agnostic data access (as limited by security)
- **Common Core Services** – based on Community needs
- **Common Infrastructure** – based on DoD and IC guidance

Unifying Vision



- Intelligence Community Information Sharing Strategy

  An integrated intelligence enterprise that anticipates mission needs for information by making the complete spectrum of intelligence information seamlessly available to support all stages of the intelligence process



- Defense Intelligence Strategy

  A professional and fully integrated and seamless Enterprise, providing the best intelligence, counterintelligence, and security under any condition or circumstance, whenever and wherever, in support of the warfighter and the Nation

Information Sharing Today; Shared Analytics & Analysis Tomorrow

Guiding Principles: Information Sharing

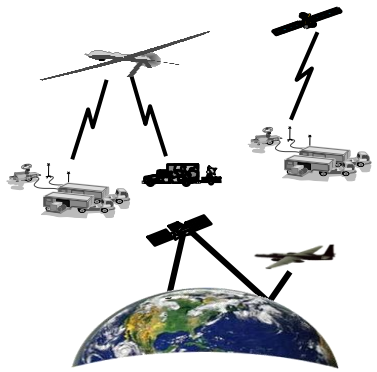
The Intelligence information sharing end-state is a common trust and information environment, wherein all intelligence information is discoverable and mission accessible

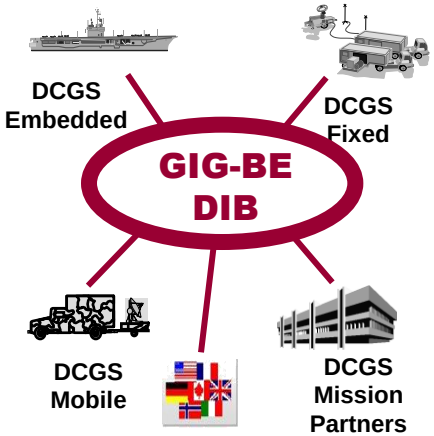
	Legacy	New Model
Vision	**"Need to Know"** (Share Only When Necessary)	**"Responsibility to Provide"** (New Mindset)
Scope	**Service/Agency-Centric** (Focus on a particular organization's needs & Mission Set)	**Enterprise-Centric** (Stretches across multiple organizations & Mission Sets)
Collaboration	**Static** (Policies & Regulations allow little product change or flexibility)	**Mission-Centric "Decision Focused"** (Adaptable to changing needs and new partners)
Security	**Network-Centric** (Security designed around each Network)	**Information-Centric** (Tag the Data – Trust the Tags)
Access	**Compartment-Based** (Security/Regulation based access control)	**Attribute-Based** (Profile, Mission focused Access)
Usage	**Data "Ownership"** (Providing organization owns/controls access & use of the data)	**Data "Stewardship"** (Provider ensures Quality – User has a Duty to Protect)

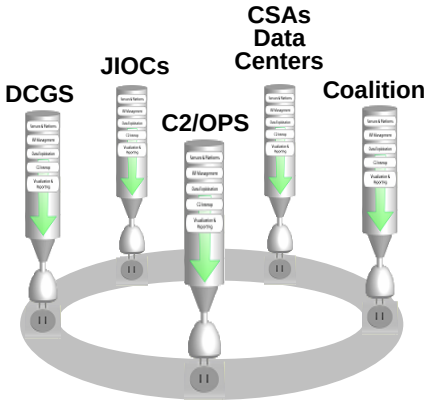
Enterprise Development

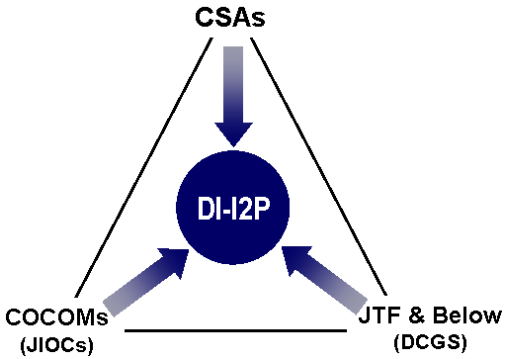
"Unity of Effort"

Stove Piped DCGS | **Net-Enabled DCGS** | **Defense Intel Enterprise** | **Intelligence Enterprise**









Migration Path

Product Sharing	*Information Sharing* *Common Enterprise Infrastructure*	*Shared Analytics & Analysis*

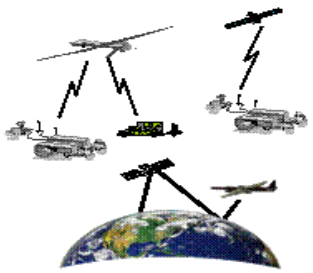
DCGS MA-ICD → **Enterprise ICDs**

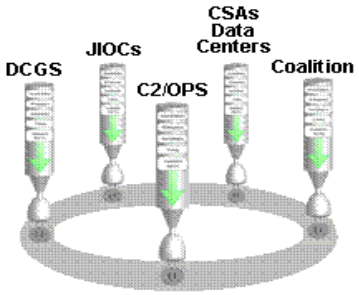
- DCGS-Enterprise (Feb 2009)
- JIOC (in staffing)
- IC Directive 501 (Jan 2009)

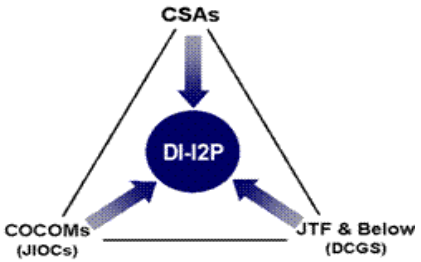
GIG = Global Information Grid
DIB = DCGS Integration Backbone
DI-I2P = Defense Intelligence Information Integration Program

Enterprise Development

Core Interoperability Concepts

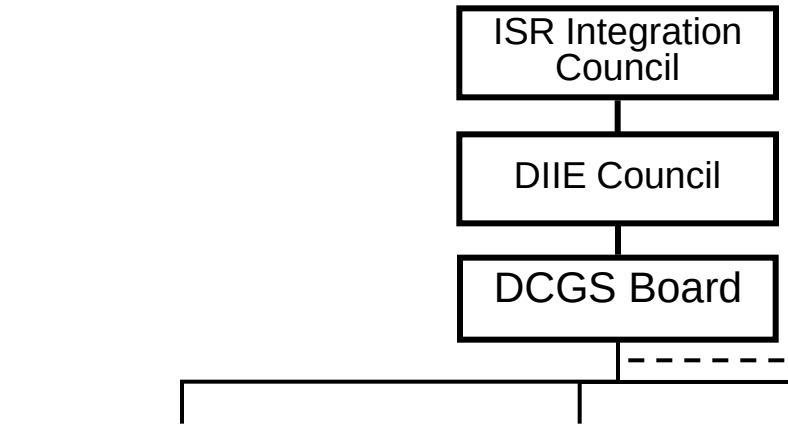






	Stove Piped DCGS	Net-Enabled	Defense Intel Enterprise	Intelligence Enterprise
ID & Access	**Username Password**	**Username/Password Web Portals**	**PKI and Shared User Directories**	**DoD/IC Common Attribute X-Domain Access**
Comms & Collab	**Limited internal data sharing**	**E-mail Attachments SharePoint**	**Chat and Whitebd Common Collab Tools**	**A-space Alert and Warn to tactical level**
Integrated Information Management	**Individual data management**	**Some DIB Federation Local Data Stores**	**DIB Federation NCES Coalition (via MAJIIC)**	**Global access to data and analytics**
Ntwk Services & Security	**Secure LAN**	**Distinct enclave control DMZ / Firewalls**	**DCGS Secure Arch ISR Enterprise Svs**	**DoD/IC Common Enterprise Svs Consolidated Ntwks**
Search & Discover	**Search tool for each data source**	**DIB Search Limited access outside enclave**	**DoD/IC Search Service**	**Global data access via Cloud**
Integrated ISR Ops	**Voice comms**	**Individual Apps (and Licenses)**	**Cross-cueing**	**Decision Based Analytics Dynamic Re-tasking**

DCGS Governance Structure



Membership:
- **OSD**
- **JCS**
- **Services**
- **COCOMs**
- **Combat Support Agencies**
- **Defense Agencies**

Functional Teams

HUMINT
DIA

MASINT
DIA

SIGINT
NSA

IMINT
NGA

Focus Teams

Enterprise
Architecture / Integration

Coalition

OPS / Users
Joint Staff/JFCOM

Test & Eval
DISA/JITC

Acquisition Team

MET
DCGS PMOs

Industry Advisory Group

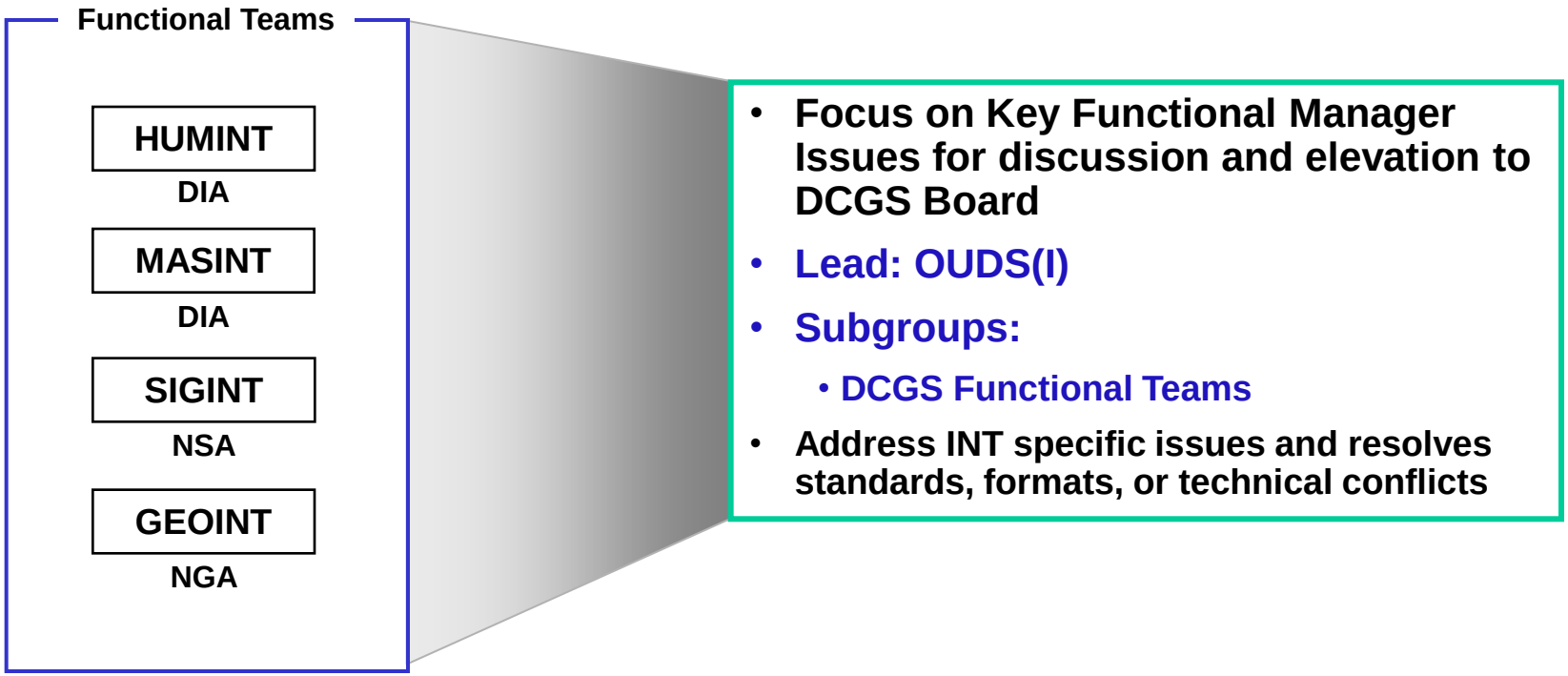
NDIA **AFEI**
Industry + Academia Reps

MET: Multi-Service Execution Team

- **Provides Direction and Guidance**
- **Allows for Unique Service Missions**
- **Aligns Service and Defense Agency Activities**
- **Establishes Building Codes (Common Standards, Formats)**
- **Manages Portfolio of Domain Enterprise and Infrastructure Services**
- **Links to COCOMS / JIOC, IC, Foreign Partners and C2 communities**

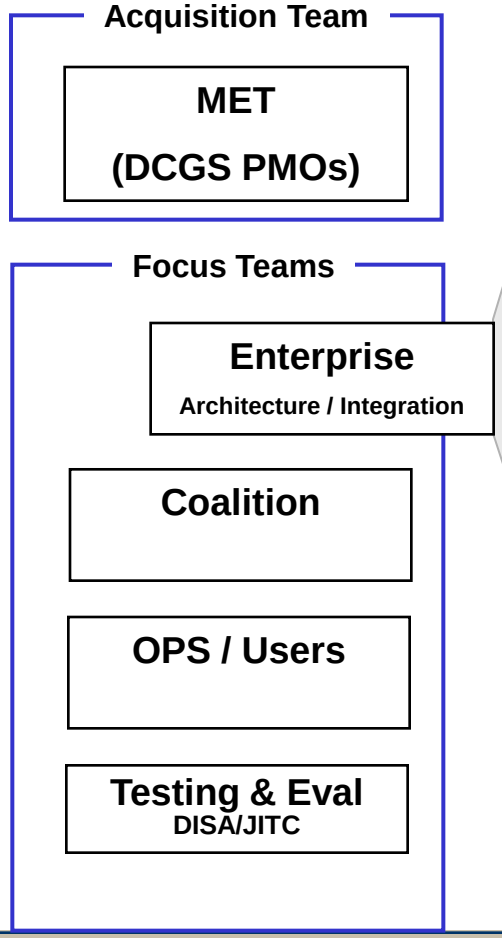
Focused on standardized Enterprise goals
Allowing flexibility for individual PoR requirements

DCGS Functional Teams



Providing Leadership
DCGS Governance Structure

DCGS Focus Teams
Enterprise



- **Primary Focus on DCGS "To-Be" Architecture and Enterprise Capability Integration**
- **Lead: DIA/DS**
- **Oversight:**
  - **Enterprise Governance Board: Governance processes, oversight of specifications standards, enterprise capability roadmaps, capability planning & management, scorecards**
- **Subgroups:**
  - **Architecture Focus Group: Enterprise architecture products, compliance metrics, interoperability profiles, prototypes (D2D-IP)**
  - **Services Portfolio Focus Group: Services portfolio and "dashboard", service specs/standards, Core services integration, service compliance guidance, core service reference implementations,**
  - **"As Directed" Tiger Teams: Short term efforts focused on spiraling capability for enterprise use (JIEDDO COIC, RTRG integration, D2D-IP, Core Services Quicklook)**

Providing Leadership
DCGS Governance Structure

DCGS Focus Teams
Coalition & OPS/User

Acquisition Team

MET

(DCGS PMOs)

Focus Teams

Enterprise
Architecture / Integration

Coalition

OPS / Users

Testing & Eval
DISA/JITC

- **Primary Focus: support DCGS objectives to advance interoperability between U.S. and Coalition allies, initially beginning with 4-eyes partners (UK/CAN/AUS)**
- **Emphasis on coalition warfighter identified, multi-INT issues**
  - **Identifies potential solutions and decides how, where and when to demonstrate the solutions**
- **Recommends changes to policies that inhibit information sharing with allies**

- **Primary Focus on DCGS users or customers, ranging from COCOMs to Services**
  - **Business Processes**
- **Lead: JCS/J2 - JFCOM**
- **JODC Focus Group (JFCOM): JCD, requirements management and "To-Be" CONOPs. JFCOM develops objectives and scenarios**
- **JCIDS Focus Group (J2 Lead): IPLs & JUONS**

DCGS Focus Teams
Test & Evaluation

Acquisition Team

MET
(DCGS PMOs)

Focus Teams

Enterprise
Architecture / Integration

Coalition

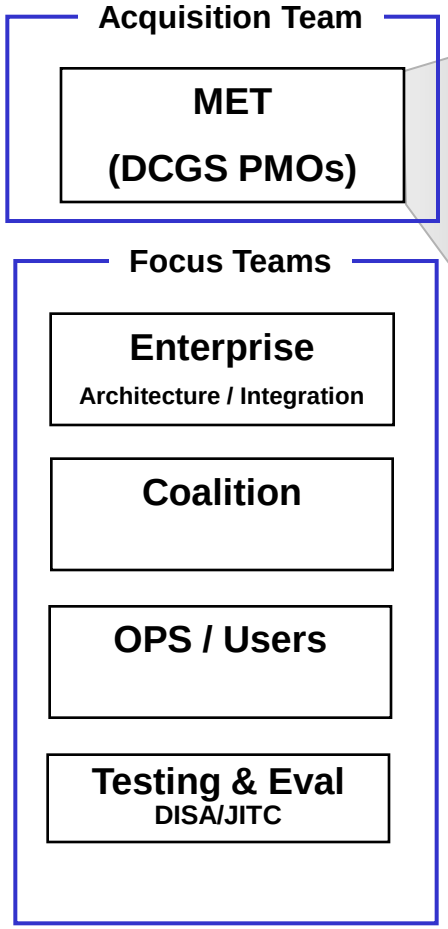
OPS / Users

Testing & Eval
DISA/JITC

- **Primary Focus on Joint/Coalition Testing, Evaluation, and Interoperability**
- **(Leads: JITC & JFCOM)**
- **Focus Groups:**
  - **Test Focus Group (JITC lead)**
    - **-- JITC: Manages DDTE; provides test criteria, test plans, MOEs, reports / DEVNET**
  - **Empire Challenge Focus Group (JFCOM)**
    - **-- Services/Program Offices/Coalition Partners: Identify objectives for capability demonstration & testing; provide assets**
    - **-- NGA: Execution co-lead for EC**
- **JS: Leads JSBA activities; assists with development of event objectives, based on JQRR and IPL input from COCOMs**

Providing Leadership
DCGS Governance Structure

Acquisition Team
Multi-Service Execution Team (MET)



- **Primary Focus: Acquisition, Programmatics, and Capability Roadmaps, services migration, SLA and contracts**
  - **Participation by:**
    - **Program Managers (USA, USN, USMC, USAF, USSOCOM, NRO)**
    - **Services Representatives**
    - **Representatives from traditional Functional IPTs (SIGINT, MASINT, HUMINT, GEOINT, etc.)**

Providing Leadership
DCGS Governance Structure

Industry Advisory Group
IAG

Industry Advisory Group

NDIA **AFEI**

Industry + Academia Reps

- **Primary Focus: ….to included sharing the vision and way ahead for the Defense Intel Enterprise with our Industry Partners.**
- **Rules of Engagement:**
  - **Open, collaborative and broad**
  - **Sensitive to OCI issues**
  - **Focused on services Environment**
    - **Architecture, acquisition, governance**
    - **Net-centric data strategy (DoDD 8320.2)**
  - **Work to be agile and responsive**
    - **The 80% opinion is the best answer**
  - **NOT Authoritative – Government decides**
    - **Industry suggestions and recommendations**
  - **Policy, governance structure, common standards**
  - **Leverage ICT evolution to achieve vision**

What is the role of an IAG in DCGS Governance?

What We Need from You

Help Us …

- Team together at the technical, policy and leadership levels to build an effective, seamless DCGS Enterprise (Defense Intelligence Enterprise)
- Provide innovative solutions focused on our forces deployed in combat operations and the challenges they face

Questions?