### **DISDI Panels at ESRI FedUC - 10 Jan 07 - Agenda**

#### 8:30 - 8:35 - Col Hal Tinsley - DISDI Overview and opening remarks



8:35 – 9:40 - DISDI Strategic Direction - The DISDI executive team will provide an overview of the strategic direction for the coming year with a focus on standards, data sharing, and common goals for the defense installation and environments community. This panel will be facilitated by Col. Hal Tinsley, DISDI executive manager and special assistant for geospatial information policy.

#### 9:40 – 10:00 – SDSFIE Update – Way forward in the re-engineering of the DoD Spatial Data Standard

#### 10:00 - 10:30 - Break

#### 10:30 - 10:45 -- TEC IO - Overview of imagery acquisition service.

**10:45 - 11:45 - DISDI Group Panel** - Representatives from each of the services will participate in this panel discussion on topics and issues on the use of GIS for installation and environmental management. Col. Hal Tinsley, DISDI executive manager and special assistant for geospatial information policy, will facilitate this panel.

11:45 - 12:45 - Lunch

#### **DISDI Community of Interest**

12:45 – 13:00 - COI Kickoff by Col Tinsley

#### 13:00 - 14:00 - Re-defining the DISDI COI

Presentation of the DoD CIO(NII) Community of Interest organizational template to facilitate an open discussion.



### The Defense Installation Spatial Data Infrastructure: 2006 and Beyond

Colonel Hal Tinsley, USAF DISDI Executive Manager ODUSD I&E (Business Enterprise Integration) January 10, 2007



### DISDI Overview: Agenda

- Introduction to DISDI
- DISDI Governance
- DISDI Policy Agenda
- Supporting DoD Missions RPI, EL, Data Sharing
- DISDI Architecture Global Information Grid Integration
- Standards Alignment & Quality Assurance
- SDSFIE Update Re-engineering the Standard

 $\rightarrow$  BREAK: 1000-1030  $\rightarrow$   $\rightarrow$   $\rightarrow$  Imagery Stewardship – TEC IO



# What is the Defense Installation Spatial Data Infrastructure (DISDI)?







"A DoD mission capability comprised of those people, policies, and practices necessary to acquire, steward, and share installation, environmental, and range geospatial data assets for defense, federal, and national goals"



US Army Corps of Engineers.











### **DISDI Key Milestones & Objectives**

#### Governance, Policy, & Guidance

- Align DISDI Program within the National System for Geospatial Intelligence (NSG)
- NGA Partnership Geospatial-Intelligence Working Group (GWG)
- Clarify Distinctions between Business GI&S, GEOINT
- Quality Assurance for Mapping

#### Standards

- Support for Enhanced Geospatial Data Catalogs and Content
- "Value-add" to NGA Capabilities via Data Alignment
- Enhanced Metadata to Synchronize with the DoD Net-Centric Enterprise Strategy Goals

#### • Service Architecture

Mapping Portal to Leverage Component Source Data

#### Inventory

Portfolio Management, Tracking, & Accountability

#### • Real Property & Installation Lifecycle Management (RP&ILM) Support

- Real Property Inventory & Environmental Liability Mapping
- Support a Transformational Process for Sustaining and Enhancing the SDSFIE

Defense Installation Spatial Data Infrastructure (DISDI) – Vision and Milestones





### DISDI Overview: Agenda

- Introduction to DISDI
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 $\rightarrow$  BREAK: 1000-1030  $\rightarrow$   $\rightarrow$   $\rightarrow$  Imagery Stewardship – TEC IO

### DISDI Governance: Top Level

SANDE **Real Property & Real Property & ODUSD/I&E Installation Lifecycle Management** Installation Lifecycle Management (Chair: RP&ILM DGB) **Domain Governance Board Investment Review Board** (Chair: RP&ILM IRB) (RP&ILM IRB) (RP&ILM DGB) **Principals:** Principals: ODUSD/I&E(BEI) Asst Sec of the Army (I&E) Asst Sec of the Army (I&E) (Business Enterprise Integration) Asst Sec of the Navy (I&E) Asst Sec of the Navy (I&E) Dep Asst Sec of the Air Force (Installations) Asst Sec of the Air Force (IE&L) Asst Chief of Staff for Installation Mgt, US Army Joint Staff, J-4 Air Force Civil Engineer Asst Sec of Def (NII/DoD CIO) **ODUSD/I&E(BEI-DISDI)** Navy Chief of Naval Operations (N-46) Director, PA&E (Defense Installation Asst Dep Comdt, I&L, US Marine Corps Spatial Data Infrastructure) Dir, Real Estate and Facilities, WHS ODUSD/I&E Advocate to ODUSD/I&E Advocate to **NGA Geospatial-Intelligence** Federal Geographic Data (GEOINT) Working Group Committee **DISDI Group (DISDIG)** Chair: ODUSD/I&E(BEI-DISDI) Members: Asst Chief of Staff for Installation Management, US Army Commander, NAVFAC Air Force Civil Engineer Asst Dep Comdt, I&L, US Marine Corps Commander, US Army Corps of Engineers Dir. Real Estate and Facilities, WHS



### **DISDI Governance and the GIG**





### DISDI Staff Alignment for Implementing Business Transformation

#### **Colonel Hal Tinsley (USAF)**



- NGA Palanterra/Project Homeland
- DISDI Portal
- **DISDI Information Assurance**



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### **DISDI Policy Alignment and Guidance Objectives**

### FY06 Goals Met, FY07 Goals Remaining



Objective: Align the DISDI Program to Leverage USACE/ERDC Talent Pools

Business Mission Area GI&S to JSD/AT&L



Strategy: Par ner with the Combonerus and the Upact Contragions Research Laboratory, the Theorem 2.5 gives thenter, and the Internation Technology Laboratory to secure quality architecture, acquisition and data standards



### DoDD 5105.60 (revised): NIMA Becomes NGA

• The NGA shall provide timely, relevant, and accurate geospatial intelligence (GEOINT) in support of the national security objectives of the United States, and shall provide the DoD, Intelligence Community, and other Federal departments and agencies with GEOINT needed to meet national intelligence requirements...provide combat support to the Armed Forces of the United States, provide for safety of navigation, and other activities that may be prescribed by the President, the SECDEF, or the DNI. The NGA shall function within the following broad areas:

- GEOINT Data, Products, Information and Services.
- Education and Training Services.
- National System for Geospatial Intelligence (NSG) Operations.
- Procedures and Standards.
- GEOINT Systems.
- Information Assurance (IA).
- NSG Functional Management.
- New Missions as Assigned.



### **DoD Directive 5105.60 (revised)**

Defining Complementary Roles for GEOINT and Installation Geospatial Information & Services





### Organizing DoD Precedents for New DISDI Policy

Executive Order 12906, "Coordinating Geographic Data Acquisition and Access: The National Spatial Data Infrastructure", April 11, 1994
DoD Directive 8000.1, "Management of DoD Information Resources and Information Technology," February 27, 2002

•DoD Directive 5105.60, "National Imagery and Mapping Agency (NIMA)", October 11, 1996

•DoD Directive 8320.2, "Data Sharing in a Net-Centric Department of Defense", 2 December 2004

•DOD Directive 811 DoD Instruction 52 •Executive Order 1 **Requiring Protection** •DoD Directive 503 Imagery or Geospa •DoD Directive 302 •DoD Directive 520 •DoD Directive 514 Chief Information ( •DoD 5200.1-R. "In •DoD Directive 520 •DoD Directive, "Do •DoD 5400.7-R. "Do •DoD Directive 850 •CJCSI 3901.01B, " •CJCSM 3150.15B. •DoD Directive 302 •DoD Directive 850



Department of Defense INSTRUCTION

NUMBER

SUBJECT: Management of DoD Installations & Environment Spatial Information Resources

References: (a) Executive Order 12906, "Coordinating Geographic Data Acquisition and Access: The National Spatial Data Infrastructure", April 11, 1994

- (b) DoD Directive 8000.1, "Management of DoD Information Resources and Information Technology," February 27, 2002
- (c) DoD Directive 5105.60, "National Imagery and Mapping Agency (NIMA)", October 11, 1996
- (d) DoD Directive 8320.2, "Data Sharing in a Net-Centric Department of Defense", 2 December 2004
- (e) through (w), see enclosure 1

Directive 850..., intermation resultance ( $\pi_j$ , october 27, 2002



### Potential Topics for DISDI Policy and/or Instruction

- Organizational roles and responsibilities
- Interagency data sharing protocols
- Reporting requirements (DoD, Federal)
- Portfolio management requirements
- Data requirements
  - "Common installation picture"
  - Based on enterprise (DoD-wide) requirements
- Technical requirements
  - Standards alignment
  - Architectural alignment
- Information Assurance (IA) and Information Security (INFOSEC) requirements



# The Defense Installation Spatial Data Infrastructure (DISDI) Group







### **Questions?**



US Army Corps of Engineers®











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 $\rightarrow$  BREAK: 1000-1030  $\rightarrow$   $\rightarrow$   $\rightarrow$  Imagery Stewardship – TEC IO



Acquisition, Technology and Logistics

# **DISDI Mission Assurance**

### Implementing DISDI Capabilities, Enhancing Mission Execution

Mr. David LaBranche, P.E. ODUSD I&E (BEI) 10 January 2007



- What is Mission Assurance?
- Aligning DISDI Resources with DoD Business Mission Areas
- Goals & Status of ODUSD(I&E) Geospatial Mapping Pilot Projects to Support Real Property Inventory (RPI) and Environmental Liabilities Reconciliation (total value \$5.5M)
- DISDI Data Sharing Status & Trends



### **DISDI Mission Assurance**

Acquisition, Technology and Logistics

- **Objective:** Support OSD Staff and Components' implementation of OMB Circular A-16, DoDD 5105.60, and DISDI goals and objectives; assure business process reengineering tasks to implement visualization and mapping capabilities in I&E are coordinated with the Components and aligned with the DoD Business Enterprise Architecture (BEA).
- Mission Assurance Goals:

**Dimension** 

<u>Goal</u>

Acquisition	"Acquire Once <u>Share Many</u> "	
Architecture	"One EnterpriseOne Architecture"	
Information	"Maximize Leverage Minimize Risk"	
Quality	"Standards-Based Stewardship"	So Coluce
Sustainment	<b>"From Awareness to Adoption"</b>	

Functional Alignment - not Technical Alignment



### The "I and E" of DoD





### **DoD Business Mission Areas of Interest**





### DISDI Support for DoD Real Property Inventory (RPI)

Acquisition, Technology and Logistics

- Goal: Formal registry of accurate real property data, including site locations
- Site Registry
  - Authoritative, non-spatial repository of all DoD "sites"
- Mapping Site locations (legal boundaries) is a key component of the RPI
  - Based on Audited Tract Maps or land descriptions from acquisition deeds, lease agreements, SOFA agreements, etc.
  - Entered using Coordinate Geometry (COGO) using legal (parcel) land descriptions
  - Prototyping at ~70 installations

#### Relevance to DoD Installations

- New boundary layer (CIP or MDS)
- Changes to the SDSFIE





Has privated from the Bold invitation Mountanion Test (WT) Viewing Application



## **EL Mapping & Reconciliation Pilot**

Acquisition, Technology and Logistics



**Objective:** Develop a department-wide Environmental Liabilities reconciliation process and standards to enable the Components to **demonstrate completeness of the EL site records** at each installation.

Approach: The pilot will establish and test the technical approach and work flow for the acquisition of EL geospatial data and reconciliation of EL sites to one or more real property assets (RPA), i.e. land parcels



# What is an Environmental Liability?

Acquisition, Technology and Logistics

### • Environmental Liabilities (EL)

- A Sub-set or Type of "ESOH Interest Area" as Defined in BEA 4.0

"An environmental liability is a probable and measurable future outflow or expenditure of resources that exist as of the financial reporting date for environmental cleanup costs resulting from past transactions or events."

#### • EL Site Categories Are Defined in Guidance

- Financial Management Regulation (FMR) Volume 4, Chapter 13
- DUSD(I&E) Management Guidance for the Defense Environmental Restoration Program (DERP)
- DUSD(I&E) Guidance for Recognizing, Measuring, and Reporting Environmental Liabilities Not Eligible for DERP Funding



### The Spatial Component of EL Sites

Acquisition, Technology and Logistics

• EL Occur in Three Broad I&E Areas:

EL Area	Spatial Component	Geoloc. in BEA?
1. Real Property	Have unique points, lines, or polygons	Yes
2. Facilities and Equipment	Primarily associated with building # or address	Yes & No
3. Weapons Systems	Primarily associated with a maintenance or storage facility	Νο



# Keys to Success for the RPI and EL Mapping Pilot Project

- Contractors (3) provide weekly progress reports that communicate progress made, % complete, issues requiring government resolution
- RPI and EL Mapping contractual 'deliverables' will be reviewed by Components during draft and final stages
- Strong need for good lines of communication between Real Property, Environmental and GI&S staff elements
- BEI to lead an "RPI Mapping Working Group" and an "EL Mapping Pilot Working Group"
  - Member from each Component
  - Forum for resolution of issues & questions, feedback conduit between headquarters/contractor/staff/installation



## **DISDI Data Sharing – Status & Trends**

Acquisition, Technology and Logistics

- DISDI has coordinated 22 data sharing exchanges over three fiscal years; dozens of requests redirected or maps provided instead
- No data has been (or will be) shared without permission of the Components; some data is already in public realm (e.g. IVT)

### DISDI Data Request

Elements:

Purpose of request; requesting Agency's project or requirement

Specific data types and installations/locations desired

Intended use of data

How requestor will limit further distribution

**Technical specifications & POCs** 





- What is the "right" data source what sources are authoritative?
  - How can you tell?  $\rightarrow$  Organizational Hierarchy, METADATA, professional standards
- How will the data be used for what purpose?
  - Scale, accuracy, level of detail, map format, etc.
  - Is the data or analysis based on scientific rigor? ("sound science," documentation, peer review, etc.)

#### It's about both DATA and PEOPLE

- Avoid "If we build, it they will come"
- Audience? Goals? Information Culture?
- Data  $\rightarrow$  Information  $\rightarrow$  Knowledge





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 $\rightarrow$  BREAK: 1000-1030  $\rightarrow$   $\rightarrow$   $\rightarrow$  Imagery Stewardship – TEC IO

### DISDI Architecture Global Information Grid Integration

#### Costi Tudan

DISDI Architect Defense Installation Spatial Data Infrastructure Office of the Deputy Under Secretary of Defense for Installations and Environment

Department of Defense Deputy Under Secretary for Installations & Environment





DISDI





### Enabling Net-Centricity → Data Strategy

Acquisition, Technology and Logistics

#### **The Department's Strategy**

To move from privately owned and stored data in disparate networks and within legacy systems and applications to an enterprise information environment where authorized known and authorized unanticipated users can access any information and can post their contributions for enterprise-wide access.





# **Strategic Guidance**

- The Net-Centric Data Strategy (signed May 9, 2003) is a key enabler of the Department's transformation.
- DoDD 8320.2 (signed Dec 2, 2004) directs implementation of the Net-Centric Data Strategy.
- DoD 8320.2 G (signed April 12, 2006) provides guidance for implementing the DoD Net-Centric Data Strategy.
- The Strategy provides the foundation for managing the Department's data in a net-centric environment, including:
  - Ensuring data are visible, accessible, and understandable when needed and where needed to accelerate decision making
  - "Tagging" of all data (intelligence, non-intelligence, raw, and processed) with metadata to enable discovery by known and unanticipated users in the Enterprise
  - Posting of all data to shared spaces for users to access except when limited by security, policy, or regulations
  - ✓ Organizing around Communities of Interest (COIs)
  - ✓ Establish Communities of Interest to understand the nature of the change.



### **Data Sharing Responsibilities**

Acquisition, Technology and Logistics

Key Goal of DoD Directive 8320.2	Scope of Enterprise Role	Scope of COI Role
Make data visible Contextual Data	<ul> <li>Develop, maintain DoD Discovery Metadata Specification (DDMS) to facilitate DoD-wide search</li> <li>Direct development of Enterprise search capability</li> </ul>	<ul> <li>* Tag data holdings with DDMS</li> <li>* Extend for COI specific search criteria</li> </ul>
Make data accessible Sharing Data	<ul> <li>Maintain repository of acceptable commercial standards for web- based services</li> <li>Direct development of federated service registry for web-services</li> </ul>	<ul> <li>Implement access services</li> <li>Register access services in federated service registry</li> </ul>
Make data understandable Structural & Semantic Data Descriptions	* Direct development of federated metadata registry for semantic and structural metadata	<ul> <li>Develop vocabularies, taxonomies for data exchange</li> <li>Register these agreements in federated DoD metadata Registry</li> </ul>

DepSecDef sees this as a DoD transformational priority !

DoD 8320.2 Directive, Data Sharing in a Net Centric Department of Defense

DoD 8320.2 Directive codifies DoD Net-Centric Data Strategy (DoD CIO)



Acquisition, Technology and Logistics

### Metadata, metadata, metadata

### Three types of metadata are relevant to DISDI:

### Geospatial Data

- e.g. "This GIS file includes boundaries for Langley AFB"
- How? FGDC metadata (CSDGM, ISO 19115)

### • Services

- e.g., "Use this web service to access boundaries for Langley AFB"
- How? OGC WMS, WFS, DDMS (Dod Discovery Metadata Specification)

### • Vocabulary and taxonomy

– e.g., "I can access the boundary file for Langley AFB, but I



Make Data Visible

# **DoD Discovery Metadata Specification**

Catalog (historical)



**DDMS: Leverages Industry Standards** 



### Make Data Accessible

- Documents
  - Use common formats
  - Store in shared spaces accessible via URL
- Systems
  - For applications: Expose data via web services
    - Web services = "API for the web"
  - For end-user: Web-enable via browser or application
- Enablers
  - DISDI Portal
  - Expose map services

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### **DISDI** Concept of Operations (CONOPS)









### **User Access Continuum**







- Leverage **existing** Component portal implementation efforts, and the DoD portal Enterprise Services and Product Lines
  - Services' DB of record are the foundation
  - Register metadata (of all types) to the MDR and DoD Portal
- Solve the data merge problem **once** 
  - Define joint Common Installation Picture
- Provide a common access location/standard without modifying the supplying architectures
  - DISDI Portal acts as the broker to Joint and merged geospatial data
- User/provider transparent security model joint access



### DoD Global Enterprise Services Portal Framework





### How do we get there: Information Assurance Strategy

Acquisition, Technology and Logistics

arogram Mana

Guidance and Collaboration

Leotamatica

MASS

DoD has developed a new DoD C&A instruction and two DoD-owned Web-based services based on COTS applications to transform the DoD C&A process in support of the Net-Centric, GIG-based environment

- DIACAP ("DoD Information Assurance Certification and Accreditation Process" DoDI 8510.bb)
  - Supersedes DoDI 5200.40, "DoD Information Technology Security Certification and Accreditation Process (DITSCAP)"
  - Adjudication of Formal SD 106 comments is near-completion
- DIACAP Knowledge Service (KS)
  - Web-based resource for DIACAP implementation;
  - Enterprise Mission Assurance Support Service (eMASS)
  - IA program management service; automates C&A workflow; pilots in progress



### DISDI Architecture Strategy: Summary

- There are *known* and *unknown* users of installation geospatial data
  - The DISDI CoI needs to accommodate <u>both</u> types of users by aligning with DoD Net-Centric Data Strategy
- DoD's Net-Centric Data Strategy defines goals for making our data available to the DoD enterprise
  - Make data visible
  - Make data accessible
  - Make data **understandable**
- DISDI architecture strategy will meet these goals by:
  - Leveraging Service Component geospatial databases of record
  - Providing the DISDI Portal as a broker to common/joint (merged) data
  - Registering data, services, metadata and vocabularies to the DoD Motodata Pagistry and DoD Portal



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# Defense Installation Spatial Data Infrastructure: Geospatial Standards & Quality Assurance

John Kochanowski DISDI Standards Coordinator

**Deputy Under** Department **US Army Installation US Navy** USMC **US Air Force** Secretary for of GeoReadiness Geospatial GeoFIDELIS GeoBase Installations Defense Information & Services & Environment GEO READINESS DISDI ARM



Agenda

Acquisition, Technology and Logistics

DISDI Standards Coordination - Primary Focus

- DISDI Geospatial Standards Objectives & Progress
  - Standards Alignment
  - Metadata
  - Quality Assurance Planning



### DISDI Standards Coordination Primary Focus

Acquisition, Technology and Logistics

- 1. Geospatial Data Standards & Content Strategies
  - Geospatial Data Alignment
    - Spatial Data Standard for Facilities, Infrastructure, and Environment (SDSFIE)
    - National System for Geospatial-Intelligence (NSG)
    - Federal Geographic Data Committee (FGDC)
    - DoD Business Enterprise Architecture (BEA)
- 2. Geospatial Metadata Strategies
  - Developing a new geospatial metadata profile
  - Discoverable, Accessible, Understandable
  - Uniform Quantitative & Qualitative Measurements of Data
- 3. Quality Assurance Planning & Reporting
  - Establish **Common** Geospatial Data Quality Reporting
  - Maturing DoD User Community Expectations

#### **Standards:**

**Precursor to the Establishment of Quality Assurance** 



- DoD Business Mission Area Liaison for Geospatial Data Standards
  - Ensure new standard legitimately meets DoD enterprise data strategies
    - DoD Net-centric Enterprise Data Strategy (DoD Directive 8320.2)
    - Business Enterprise Architecture (BEA)
- Geospatial-Intelligence Working Group (GWG) Coordination
  - Application Schema Feature Encoding (ASFE) Focus Group
    - Finalizing creation of an SDSFIE Technical Panel
    - Support SDSFIE guidance, harmonization, and alignment with NSG Feature Catalog
    - Establish procedures for managing SDSFIE updates to the DoD IT Standards Registry
- FGDC Alignment
  - Framework data standards
  - Metadata linkages



### Metadata





Metadata Why Change???

Acquisition, Technology and Logistics

- Net-Centric Enterprise Strategy (NCES)
  - Defense Discovery Metadata Specification (DDMS)
  - Defense Information Technology Standards Registry (DISR)
- National System for Geospatial-Intelligence (NSG) Geospatial-Intelligence Working Group (GWG)
  - GWG Metadata Focus Group (MFG)
  - GWG Application Schema and Feature Encoding (ASFE) Focus Group
- Installation Visualization Tool (IVT)
- DISDI Spiral II Architecture
- Federal Geographic Data Committee (FGDC)
  - DRAFT North American Profile (NAP)

### Minimize Mission Impact to DoD Components



### Metadata Status

Acquisition, Technology and Logistics

### • **DISDI** Metadata Working Group

- Established 27 Oct 06
- Army, Navy, Air Force, Marine representation
- Identified and drafted a set of standard metadata elements based on ISO 19115.

### DISDI Geospatial Metadata Profile Draft Specification

- Scheduled comment review NLT 26 Jan 07
- Three week Component review/comment
- DISDI Geospatial Metadata Profile 1.0 to be delivered to DISDI Group for approval NLT mid-March

### • Next Steps

- XML Schema Development
- Translation Tools
- Editor/Publishing Tool



### Quality Assurance Standards & Planning

Acquisition, Technology and Logistics

### Bringing It All Together - Quality Assurance Plans

QAP... a specification based on a common set of authoritative guidelines Standards-Based Data Requirements

- Content
- Organization
- Extent
- Metadata

#### **Collection Guidelines**

- Data Sources
- Positional Accuracy
- Content Accuracy

#### Certification, Acceptance, & Ownership

- Validation Guidelines
- Data Submission Requirements
- Security Requirements

Initial Development To Begin in conjunction with DISDI Common Installation Picture (CIP)

#### Standards: Precursor to the Establishment of Quality Assurance



# The Defense Installation Spatial Data Infrastructure (DISDI) Group







### **Questions?**



US Army Corps of Engineers®







