



New Beginnings, New Interoperability

The Defense Installation Spatial Data Infrastructure Program (DISDI), 2011

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This Is Not Business As Usual

Excerpt from Secretary of Defense Memo, 16 Aug 10:

“...to move our defense enterprise toward a more efficient, effective, and cost-conscious way of doing business... I am directing a series of initiatives designed to reduce duplication, overhead and excess, and instill a culture of savings and restraint across the DoD.”

Hon. Robert Gates, US Secretary of Defense



What is GI&S Used for in DoD?

Acquisition, Technology and Logistics

GEOINT

- Geographically portray the world; portray warfighting or intelligence assets
- Perform ISR, produce intelligence & other analytic products to answer pressing warfighter and intelligence mission requirements

Contingency Sites

Worldwide Logistics

“Gray Area”

Homeland Defense

Test & Training Ranges

Installation Geospatial Information & Services (IGI&S)

- Geographically portray DoD “sites” (installation, post, camp, or station), “assets,” and “liabilities;” Map the environs of these sites/assets
- Geo-enable DoD business systems and business lines / functional missions (e.g. real property inventory, utilities, construction, maintenance, planning, recreation, environmental restoration, environmental management, range operations)



The Vision

of the Defense Installation Spatial Data Infrastructure (DISDI) Program

Acquisition, Technology and Logistics

“To provide authoritative, cost-effective defense installation geospatial information and services for fact-based decision making across the DoD spectrum of operations.”



**US Army Corps
of Engineers®**

The DISDI comprises a federated mission capability of the people, policies, and practices necessary to acquire, steward, and share installation, environmental, and range geospatial data assets for defense, federal, and national goals.



Who Needs Your Data and Why

Acquisition, Technology and Logistics

- Map all Real Property assets (Land, Buildings, Structures, and Linear Structures) following IGI&S Guidance (April 14, 2009)
- Create and maintain this geospatial information for use in decision making across the DoD

Drivers

Real Property Inventory
Installation Geospatial Information
& Services Guidance

Homeland Defense

DoD Explosives Safety Board
Automated Site Planning



Data Requirements

Land Parcels, Buildings, Structures,
Linear Structures

Utilities, Land Parcels, Buildings

Sites & Parcels, Buildings,
Structures, Linear Structures



What the DISDI Program Is

Acquisition, Technology and Logistics

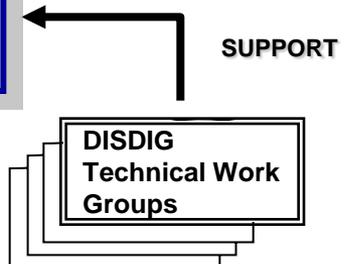
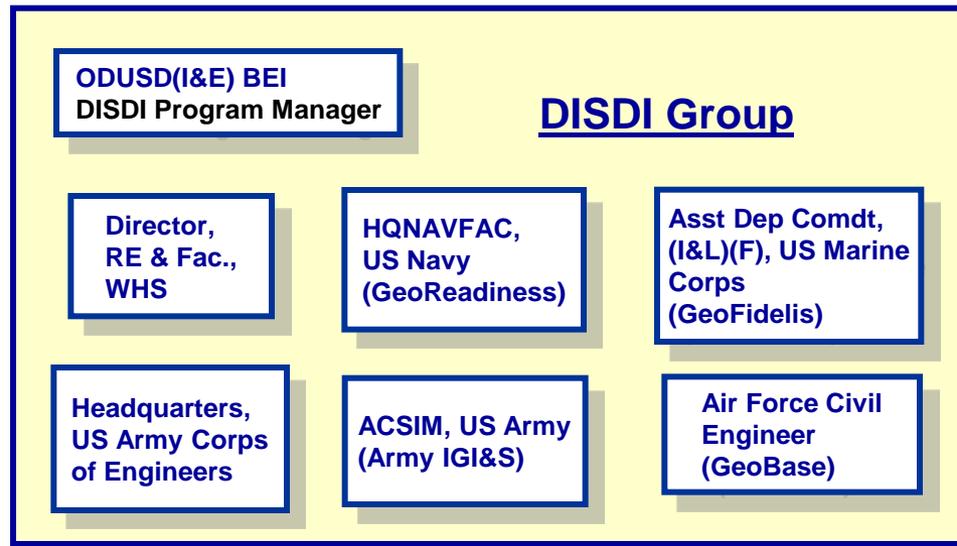
- **A gateway** to NGA data, not a gatekeeper
- **A coordinator** of all IGI&S requirements, not a controller
- **The best source** for integrated, cross-service IGI&S data
- **A nexus of knowledge** and best practices for how to implement enterprise GIS in DoD
- **A GIS resource** for initiatives within the Office of the Secretary of Defense
- The DoD lead for **policy, guidance and oversight of IGI&S**

IGI&S Governance View



Note:
The DISDI Program is an OSD initiative.

The DISDI Group is a cross-service governance body.





NEW BEGINNINGS & NEW INTEROPERABILITY



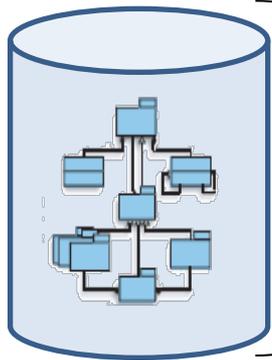
Making the DISDI Vision Real - **Standards**

Acquisition, Technology and Logistics

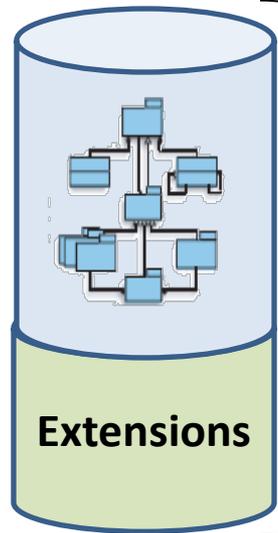
- Last Year:
 - SDSFIE 3.0 (Gold) was not done
 - DISDI Geospatial Metadata Profile (DGMP) was under review, not ready for implementation
 - DISDI COI had no DoD Metadata Registry (MDR) entries
- This Year:
 - SDSFIE 3.0 Gold published on 15 November, 2011
 - DGMP v 1.0 under revision; will harmonize with North American Profile and NSG Metadata Framework
 - MDR namespace “DISDI” has artifacts for SDSFIE and DGMP
 - DoD Guidance for Adaptation of SDSFIE 3.0, 11 May, 2011
 - Change Management Process for SDSFIE 3.0, 8 June, 2011

SDSFIE Implementation – Key Concepts

SDSFIE 3.0 Gold
(LDM)

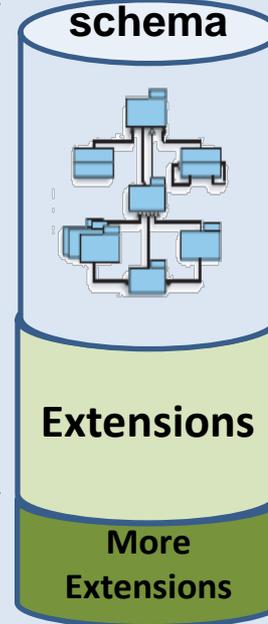


Component HQ
Adaptation
schema

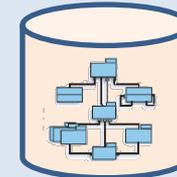


User Physical Database

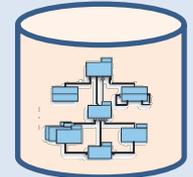
User
Adaptation
schema



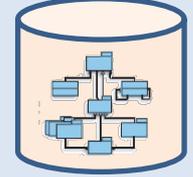
Business Data



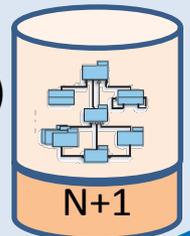
AIXM Data (e.g.)



Soils (e.g.)



Endangered
Species (e.g.)



Sub-organizational governance (other than for SDSFIE) is needed to define what is permissible here



Making the DISDI Vision Real - Resources

Acquisition, Technology and Logistics

- Last Year
 - “In-sourcing” was a concept
 - Defense budget was healthy/stable
- This Year
 - Government and contractor personnel properly aligned to tasks & responsibilities
 - Defense budget is shrinking (!)
 - SECDEF Efficiencies Initiative is at full speed



Making the DISDI Vision Real - **Sharing Data**

Acquisition, Technology and Logistics

- Last Year
 - DISDI Portal 2.0 at initial operating capability
 - What is “GEOINT Online?”
 - “Strategic Installation Picture” (SIP) replaced IVT
- This Year
 - DISDI Portal has 72 data layers and growing
 - DISDI Portal has 34 web services and growing
 - GEOINT Online has a DISDI Community of Interest
 - <https://geoint-online.nga.mil/community/disdi>
 - SIP data needs to be refreshed!



The Defense Installation Spatial Data Infrastructure (DISDI) Community of Interest

Search

This Site: The Defense Installa



Home

Products & Services

DISDI Portal 2.0 (CAC)

DUUSD(I&E)

GEOINT Online Communities

GEOINT Online Home

View All Site Content

Documents

- Policy & Guidance
- Map Products

Lists

- Announcements
- Links
- Event Calendar

Discussions

Sites

CoI Members

Recycle Bin

The Defense Installation Spatial Data Infrastructure (DISDI) Community of Interest

The Defense Installation Spatial Data Infrastructure (DISDI) Community of Interest (CoI) is a key mission partner to the GEOINT Functional Manager and offers a Department-wide forum for all activities and individuals who create, use, or have a requirement for geospatial information and services specifically tailored to DoD installations and environmental missions.

The DISDI CoI, led by the DISDI Program in the Office of the Secretary of Defense and principally comprised of the Components' IGI&S programs, is the focal point for policy, guidance and oversight of spatial information across I&E business mission areas. The DISDI CoI collaborates on standards, policies and practices that enable the sharing and interoperability of high-quality, net-centric geospatial data to better manage global installations and bases."

Announcements

ID	Title	Modified
4	DISDI Imagery Working Group Meeting	4/14/2011 1:32 PM
	April DISDI Group Meeting Cancelled	4/11/2011 6:57 PM
0	DISDI Group Meeting - March 2011	3/14/2011 8:04 PM
	DISDI Portal 2.0 Launch	4/16/2010 2:17 PM

[Add new announcement](#)



IGI&S Programs

- [Army IGI&S \(CAC\)](#)
- [US Marine Corp GeoFidelis](#)
- [US Navy GeoReadiness \(CAC\)](#)
- [US Air Force GeoBase \(CAC\)](#)

[Add new link](#)

Useful Links

- [SDSFIE](#)
- [GeoSpatial One Stop](#)

[Add new link](#)



UPDATE: DEFENSE SITE LOCATIONS (DSL)



Defense Site Locations Data - Versions

Acquisition, Technology and Logistics

Global DSL

- Corresponds to 2010 Base Structure Report
- Goal: Worldwide Coverage
- Baseline for Department of Defense real property site locations (GIS format)



Defense Site Locations Data - Versions

Acquisition, Technology and Logistics

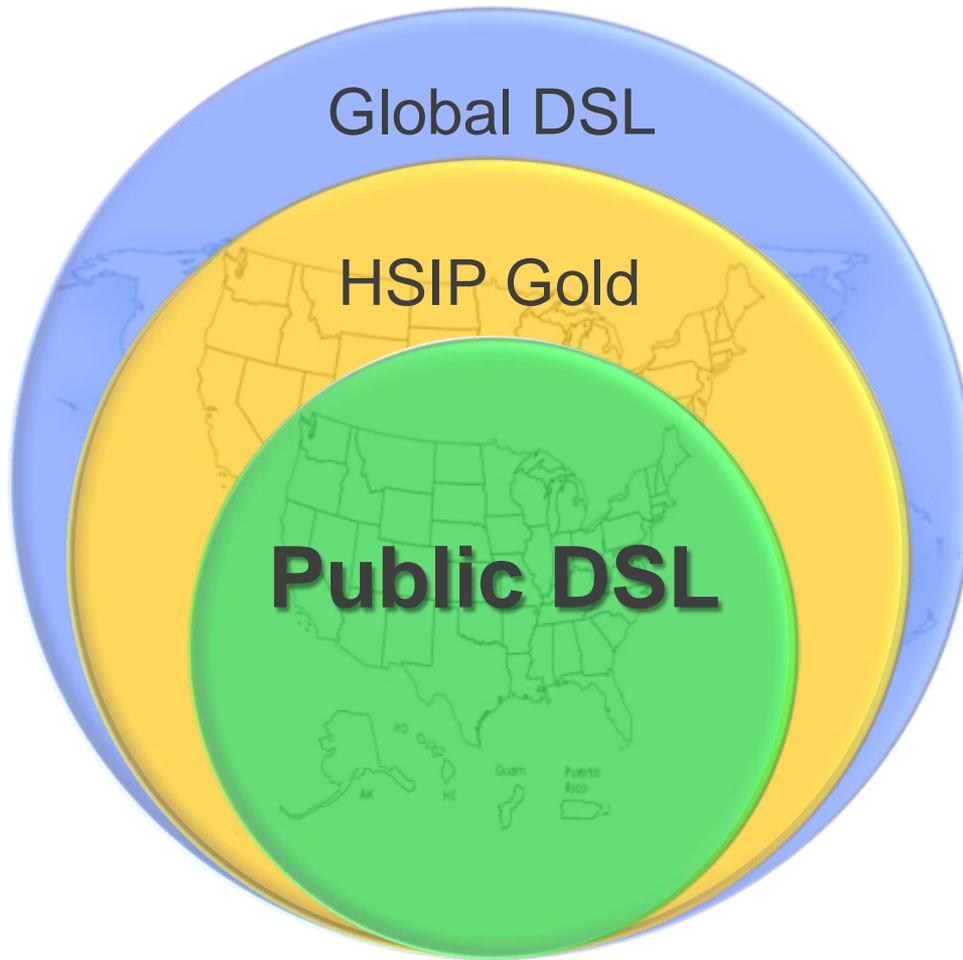


- Subset of Global DSL
- US and All Territories
- Supports Homeland Defense Community



Defense Site Locations Data - Versions

Acquisition, Technology and Logistics



- 800 points or polygons in CONUS, AK, HI, Guam and PR
- Authoritative, publicly releasable dataset
- Attributes:
 - Component
 - Site Name
 - BRAC Closure Identifier
 - State/Territory
 - Joint Base Name



NEW: DISDI COMMON INSTALLATION PICTURE (CIP)



Current Strategic Installation Picture

Acquisition, Technology and Logistics

- Consistent, DoD-wide installation picture
- **19** vector layers and aerial photograph
- Consistent portrayal
- Source: Components' Authoritative IGI&S data sets



Buildings

structure_existing_area

Cadastre

installation_area

Dod_RPI_Land_Parcel_Area

DoD_RPI_Site_Area

DoD_RPI_Outgrant_Area

DoD_RPI_Disposal_Area

DoD_RPI_Land_Parcel_Line

Hydrography

shoreline

surface_water_body_area

surface_water_course_area

Improvements

fence_line

gate_line/point

Military Operations

military_range_area

Transportation

airfield_surface_area/site

railroad_centerline

road_centerline

road_area

vehicle_parking_area

drydock_area

Aerial Imagery

6" orthophoto

* Based on SDSFIE 2.6



Comparison of Common Installation Picture Datasets (CIPs)

Acquisition, Technology and Logistics

- New dictionary - Crosswalk SDSFIE 2.6 to 3.0
 - Some features will no longer exist in 3.0
 - Some features regrouped

All Services	
<i>airfield_surface_site</i>	PavementSection
<i>railroad_centerline</i>	RailSegment
<i>road_centerline</i>	Deleted
<i>structure_existing_site</i>	Building

3/5 Services		4/5 Services	
<i>athletic_court_area</i>	RecreationArea	<i>fence_line</i>	Fence
<i>athletic_field_area</i>	RecreationArea	<i>gate_line</i>	AccessControl
<i>dod_rpi_site_area</i>	Site	<i>installation_area</i>	AdministrativeBoundary
<i>golf_course_area</i>	GolfCourse	<i>military_range_area</i>	MilitaryRange
<i>mooring_facility_area</i>	DocksAndWharfs	<i>pedestrian_sidewalk_area</i>	PavementSection
<i>shoreline</i>	Shoreline	<i>road_area</i>	Deleted
<i>surf_wat_course_centerline</i>	WatercourseLine	<i>road_bridge_area</i>	Bridge
<i>swimming_pool_area</i>	RecreationArea	<i>surface_water_body_area</i>	NaturalWaterbody
<i>tower_site</i>	Tower	<i>surface_water_course_area</i>	WaterFeature
<i>vehicle_driveway_area</i>	PavementSection	<i>vehicle_parking_area</i>	VehicleParking



DISDI CIP 2011 - Feature List

Acquisition, Technology and Logistics

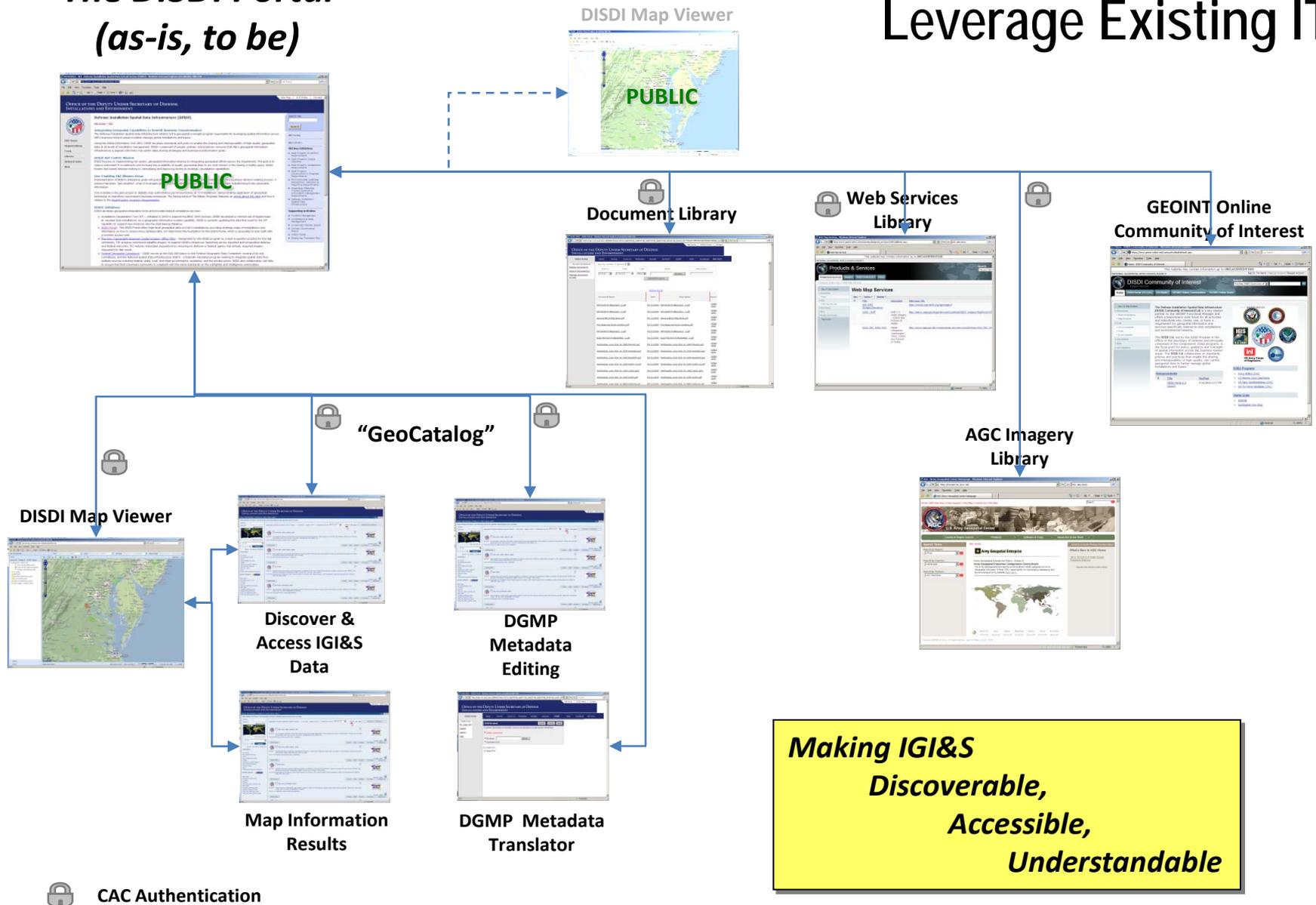
* Based on SDSFIE 3.0 Gold LDM

- AccessControl
- AdministrativeBoundary
- AirAccidentZone
- Bridge
- Building
- EnvironmentalRemedi
- Fence
- GolfCourse
- Im
- Parcel
- MilitaryRange
- MilitaryTraining
- PavementS
- Pave
- Area
- RoadCenterline
- RoadPath
- RoadSeg
- Site
- Tower
- VehicleParking
- Wetlands

Don't forget the metadata!

"The DISDI Portal" (as-is, to be)

Next Spiral: Leverage Existing IT



Questions?

Web site and DISDI Portal: www.acq.osd.mil/ie/bei/disdi.htm

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DISDI Group Panel

**Topic: *What is Your
Architecture?***