“In God We Trust, All Others Must Bring Data”

Installation Geospatial Information and Services in DoD

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Why a “Spatial Data Infrastructure” for Defense Installations?

The World Extent
National Geospatial-Intelligence Agency

The Installation & Environment Extent
Installation Geospatial Information & Services

The Facility Extent
Space Management, Building Information Modeling

Know the World… Know the Installation… Know the Facility…
1998 - Building Upon Battlespace Parallels

Situational Awareness Of the Strategic & Tactical Basingspace

- Where am I?
- Where are the Friendlies?
- Where are the Enemies?
- Where are the Non-Combatants?
- How do I move or navigate among them?
- What is the Environment?
- What does it mean?
- What is the impact?

Situational Awareness Of the Strategic & Tactical Battlespace

- Where are our worldwide installations?
- Where are our worldwide facilities?
- Where is our critical infrastructure?
- Where are the DOD installation boundaries?
- Where are our environmental assets?
- Where are our environmental liabilities?
- Where are installations being encroached?
- Where are utility shutoff valves?
- Where are our local HAZMAT stores?
2004 - The Installation Visualization Tool

- 1-Meter Imagery extending 1 mile beyond the outermost limit of IVT layers
- Noise Zones
- Accident Potential Zones
- Installation Boundary
- Wetlands
- Explosive Safety Quantity - Distance Arcs
- 100 - yr Floodplain
2008: Applying GI&S to Business Enterprise Priorities

DoD Business Enterprise Priorities

- Financial Visibility
- Acquisition Visibility
- Material Visibility
- Personnel Visibility
- Common Supplier Engagement
- Real Property Accountability

Real Property Inventory
Real Property Acceptance
Environmental Liabilities

Sites and Land Parcels: Dover AFB, DE
- Site Boundaries
- Land Parcels (owned)
- Land Parcels (non-owned)

Real Property Inventory: Sites and Land Parcels
- RPI Sites
- RPI Land Parcels
  - Owned land parcels
  - Less-than-fee surface rights (non-owned lands)
- RPI Outgrants
- RPI Disposals

e.g., Cleanup Sites vs Parcels
Installation Management Vision

Supporting Multiple Missions with a Common Shared Information Infrastructure

Business functions consume or reference authoritative geospatial data, improving operational readiness.
Our Vision

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

“In god we trust, all others must bring data”
- W. Edwards Deming
Useful Links

• DoDI 8130.01, Installation Geospatial Information and Services (download on DoD Issuances site http://www.dtic.mil/whs/directives/)

• http://www.acq.osd.mil/eie/BSI/BEI_DISDI.html DISDI Program public page with links to the DoD Components’ IGI&S Program web pages are here

• http://sdsfieonline.org Public registry of IGI&S data standards and related documents (registration required)

Useful References

• Briefing: The Defense Installations Spatial Data Infrastructure Program – Policy Overview

• Article: Overview of DISDI Program and IGI&S in Geospatial Intelligence Forum

• Base Realignment and Closure (BRAC)
  – http://www.brac.gov/ Congressional Site
  – http://www.oea.gov/programs/brac/start DoD site
Interesting Reading

• “Power to the Edge: Command and Control in the Information Age” (Alberts and Hayes, 2003)

• “Federated Governance Of Information Sharing Within the Extended Enterprise” (Aucoin and Magnusson, 2008)

• “Information Ecology: Mastering the Information and Knowledge Environment” (Thomas H. Davenport, 1997)