



# Enhancing Strategic Vision: Data requirement developments within Defense IGI&S communities

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# Agenda

Acquisition, Technology and Logistics

- Date Requirements Development Concept
- Defense Site Locations Update
- DISDI Common Installation Picture
- Homeland Defense & America's Security Affairs:  
Defense Critical Infrastructure Program



# The Vision for 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

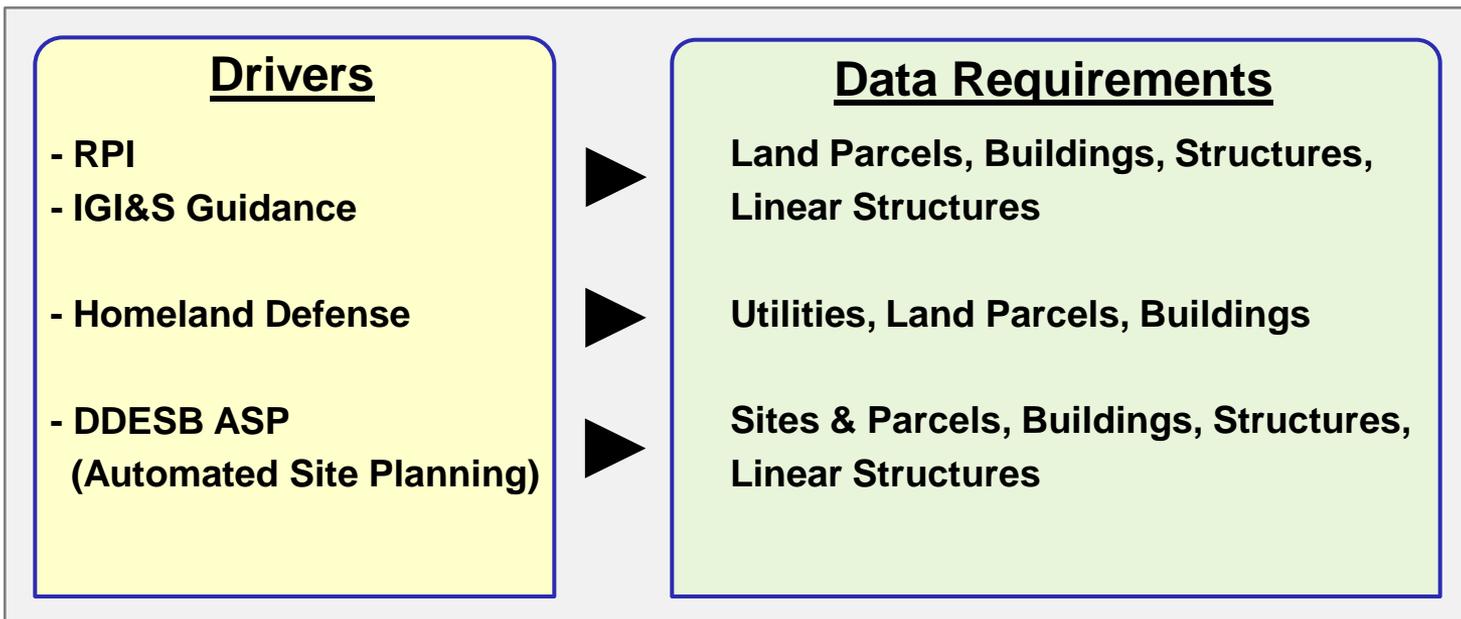
“The DISDI comprises a federated mission capability of the people, policies, and practices necessary to acquire, steward, and share installation, environmental, and range geospatial data assets for defense, federal, and national goals.”



# Community Data Requirements

Acquisition, Technology and Logistics

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

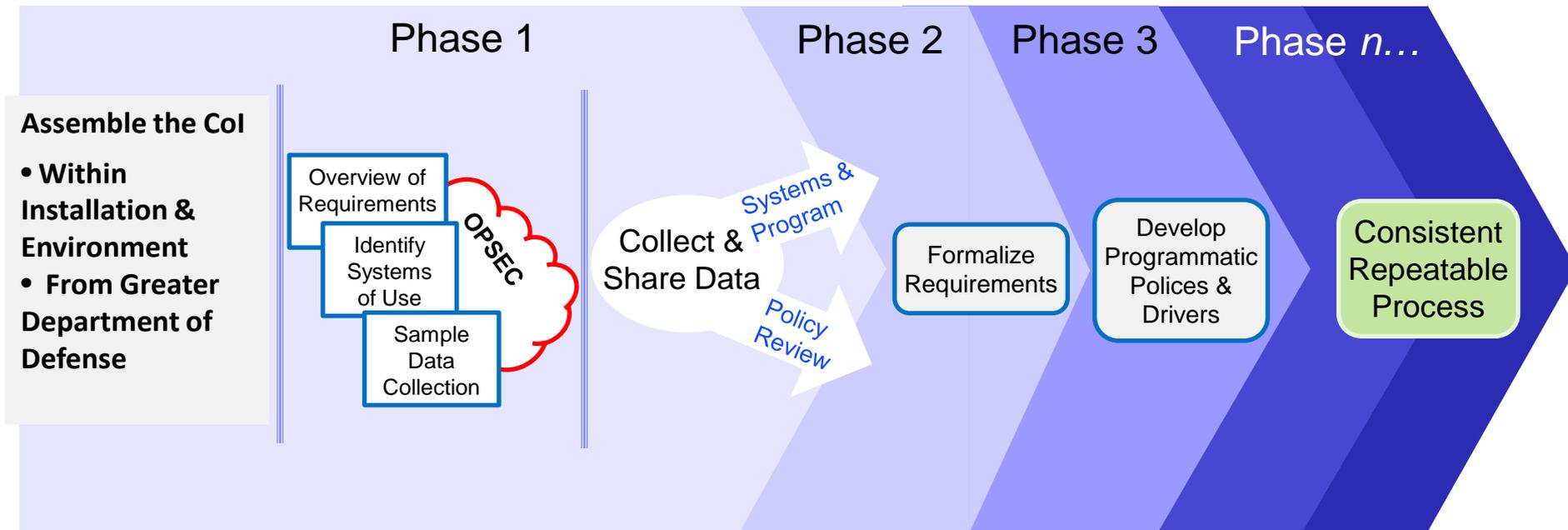




# Requirements Generation Concept

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- Identified systems and programs of need
- Build standards in data requirements, collection efforts, and dissemination
- Goal: Consistent Repeatable Process



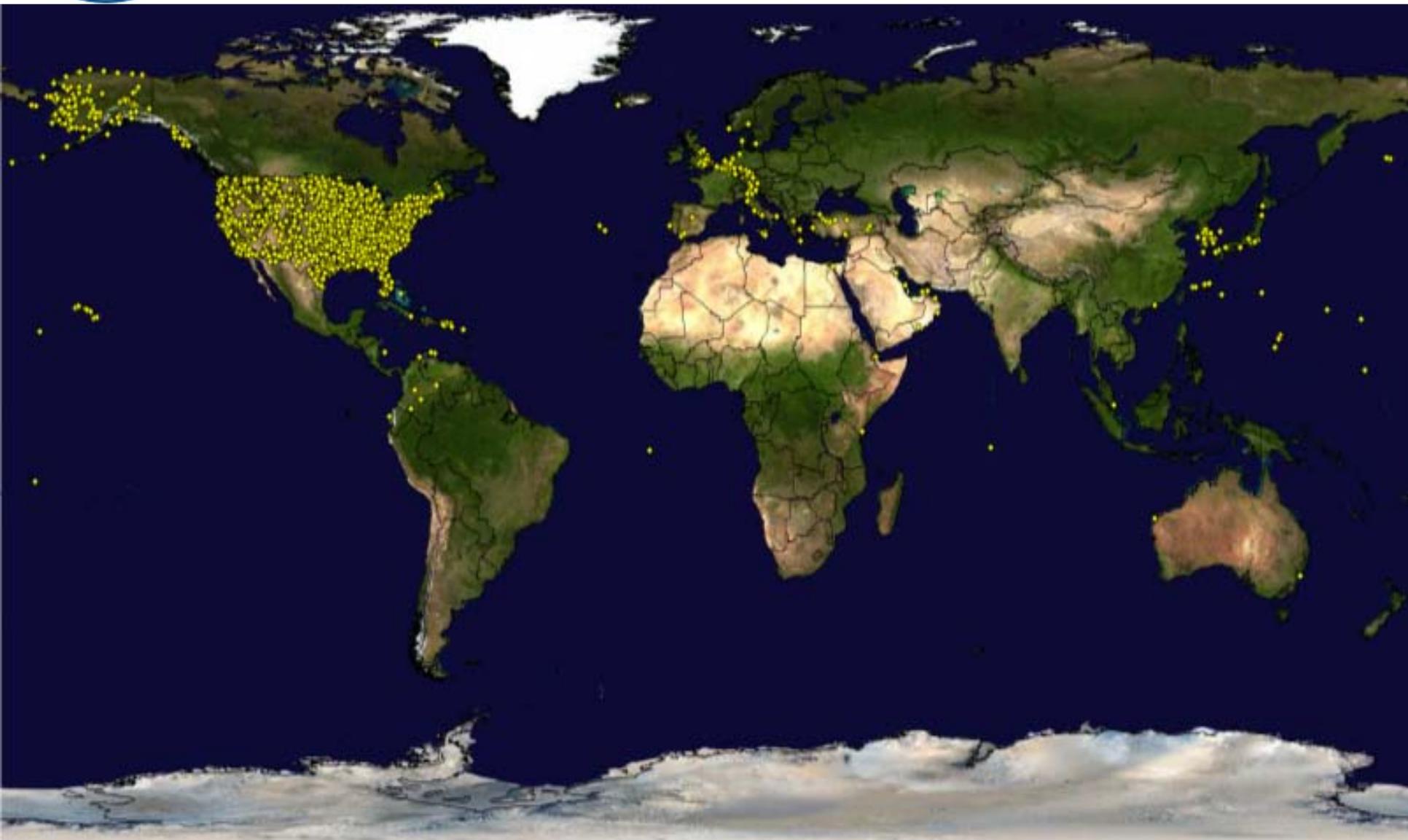


# DEFENSE SITE LOCATIONS UPDATE



# Worldwide DoD Facility Footprint

Acquisition, Technology and Logistics





# Defense Site Locations Data - Versions

Acquisition, Technology and Logistics

## Global DSL

- Corresponds to 2009 Base Structure Report
- Goal: Worldwide Coverage
- Baseline for Department of Defense Geospatial Activities



# Defense Site Locations Data - Versions

Acquisition, Technology and Logistics

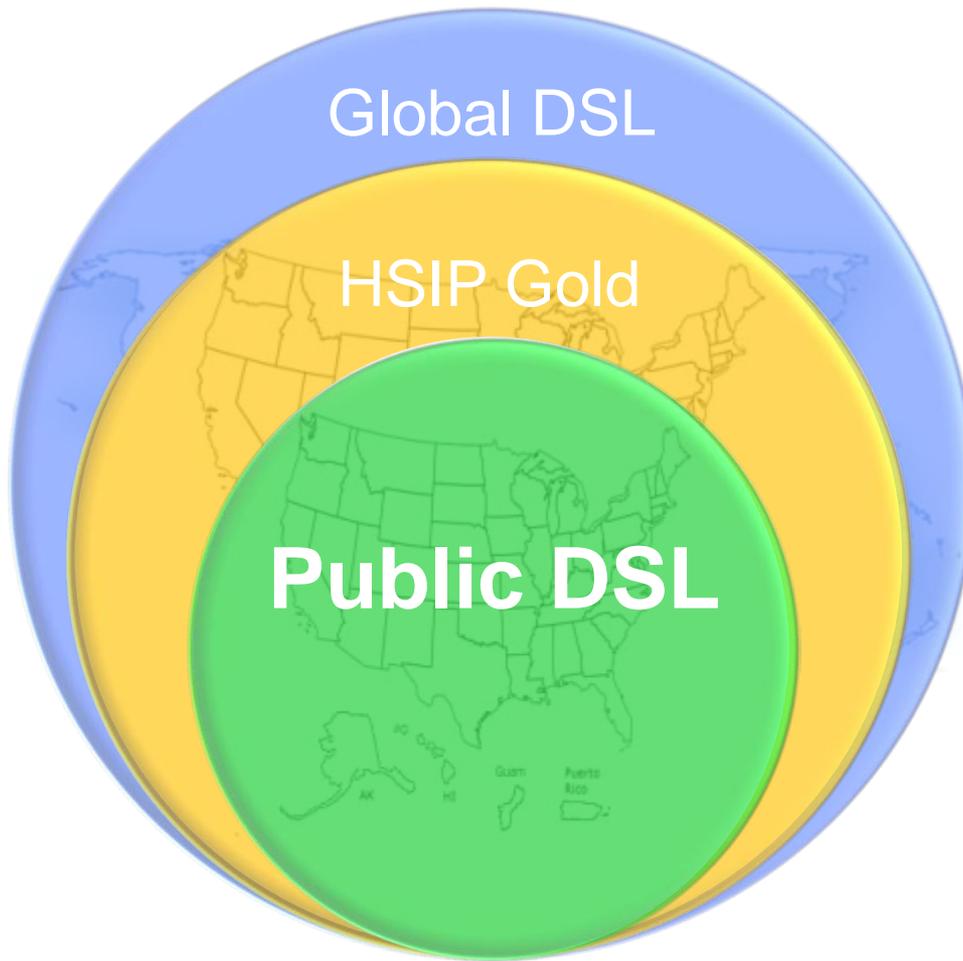


- Subset of Global DSL
- US and All Territories
- Supports Homeland Defense Community



# Defense Site Locations Data - Versions

Acquisition, Technology and Logistics

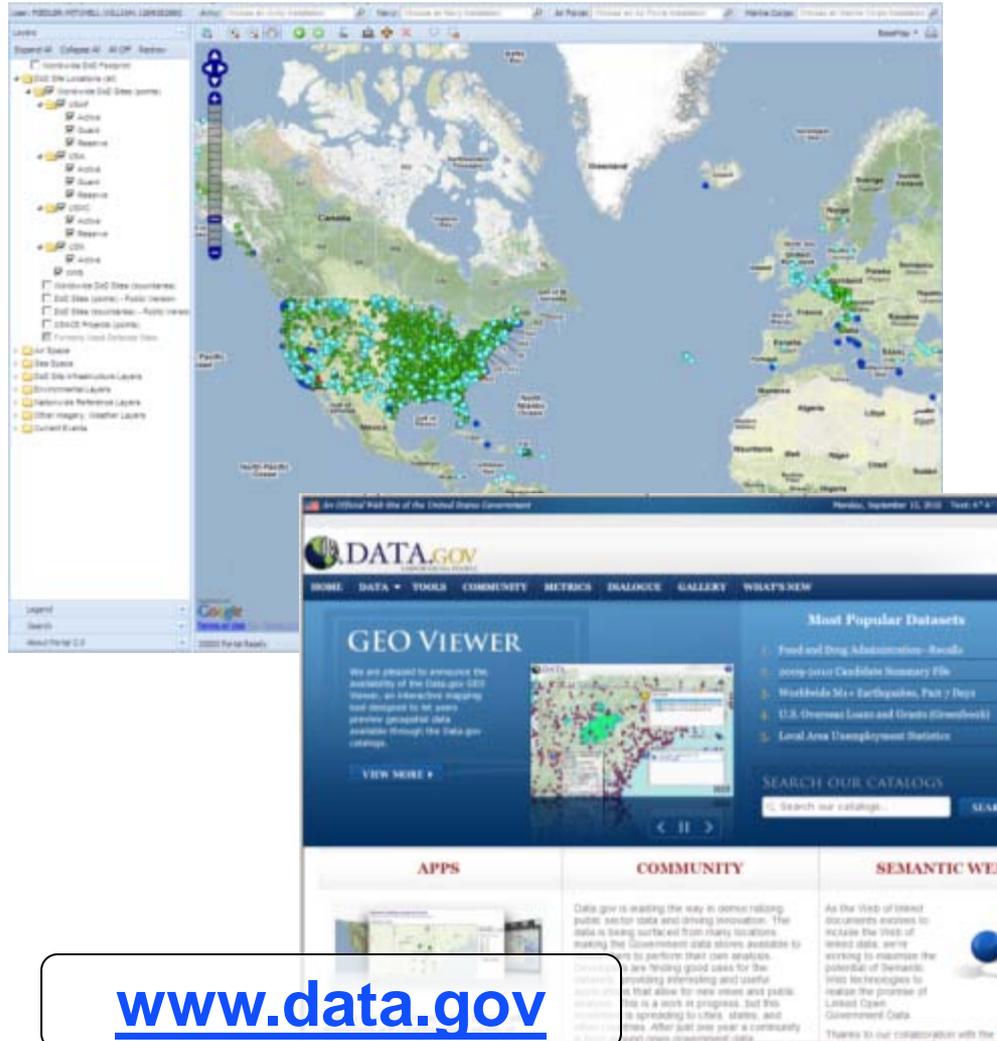


- 800 points or polygons with CONUS, AK, HI, Guam and PR
- Authoritative publicly releasable dataset
- Attribution
  - Component
  - Site Name
  - BRAC Closure Identifier
  - State/Territory
  - Joint Base Name



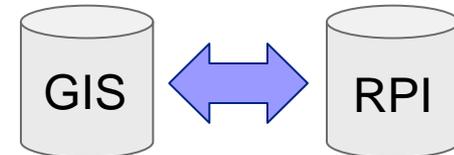
# Defense Site Location Update

Acquisition, Technology and Logistics



[www.data.gov](http://www.data.gov)

- Authoritative Set of Points and Boundaries for DoD Site Locations
- Aligning Geospatial Locations to Real Property Inventory



- Publicly Releasable Version Available



# **DISDI COMMON INSTALLATION PICTURE**



# Current Strategic Installation Picture

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- DoD wide consistent installation picture
- **19** vector layers and aerial photograph
- Consistent portrayal (SLD)
- Up to date data from Service Authoritative IGI&S



## 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



# Revamping Strategic Installation Picture

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- Address the currency, integrity, and dissemination of SIP layers for ingestion into the DISDI Portal and access within the I&E Community
- Leverage existing Service Common Installation Picture (CIP) initiatives
- Maintain common installation feature data as OSD view and for known sharing requirements
- SIP transforms to “DISDI CIP”



# Service CIP: Crosswalk and Common Features

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- New SIP Landscape - Crosswalk SDSFIE 2.6 to 3.0
  - Some features will no longer exist under 3.0
  - Others features regrouped

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



# Potential DISDI CIP Features

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\* Based on SDSFIE 3.0 Gold LDM

- AccessControl
- AdministrativeBoundary
- AirAccidentZone
- Bridge
- Building
- EnvironmentalRemediationSite
- Fence
- GolfCourse
- ImpactArea
- Installation
- LandParcel
- MilitaryRange
- MilitaryTrainingLocation
- PavementSection
- PavementBranch
- RailSegment
- RecreationArea
- RoadCenterline
- RoadPath
- RoadSeg
- Site
- Tower
- VehicleParking
- Wetlands



Homeland Defense & America's Security Affairs:

# **DEFENSE CRITICAL INFRASTRUCTURE PROGRAM**



# HD&ASA DCIP Mission Need

Acquisition, Technology and Logistics

- Homeland Defense and Americas' Security Affairs manages the Defense Critical Infrastructure Program (DCIP)
- Mission to identify, prioritize, assess, and assure the protection of critical assets.
- Installation infrastructure data is needed for these assessments





# Initial Steps

Acquisition, Technology and Logistics

- Coordination with HD community
  - DTRA
  - MAD
  - NORTHCOM
  - USACE PW
- Determine relevant POCs and policy information for Component utility systems.
- Initial data requirements determined by HD analysis teams.



# Way Ahead – Pilot Project

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- Survey HD systems and programs on the PW data requirements.
- Initial data call to gather existing geospatial utility data determined from survey.
- Discuss current data formats, policies and procedures for utility data creation and maintenance.
- Formalize data requirements based on Col discussions.
- Formalize new programmatic drivers and policies where needed to meet DCIP system and program requirements.



# Summary

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- Coordinating geospatial data and policy with mission need
- Aligning geospatial data with broad based Real Property Site policy
- Re-engineering the DoD Installation "Picture" to meet IGI&S Guidance
- Creating data policy that enables the Homeland Defense community



# Questions?

Acquisition, Technology and Logistics



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