

Homeland Infrastructure Foundation Level Data (HIFLD) Working Group



Kentucky GIS Conference
September 26-28, 2012

Presentation Agenda

- HIFLD Working Group Overview
- HIFLD to the Regions (HTTR) Overview
- HSIP Overview
- Homeland Security Geospatial Tools



Homeland Infrastructure Foundation
Level Data (HIFLD) Working Group

HIFLD History



- The Homeland Infrastructure Foundation-Level Data (HIFLD) Working Group was established in February 2002 to address desired improvements in collection, processing, sharing, and protection of homeland infrastructure geospatial information across multiple levels of government and to develop a common foundation of homeland infrastructure data to be used for visualization and analysis on all classification domains.
- Maintaining this original purpose, the HIFLD Working Group has attracted a voluntary coalition of federal, state, and local government organizations and supporting private industry partners who are involved with geospatial issues related to Homeland Defense (HD), Homeland Security (HLS), Emergency Preparedness and Response (EP&R), or Civil Support (CS).



**Homeland Infrastructure Foundation
Level Data (HIFLD) Working Group**

HIFLD Official Members



Over 5,128 Contributing Partners From
14 Executive Departments, 94 Agencies and 50 States



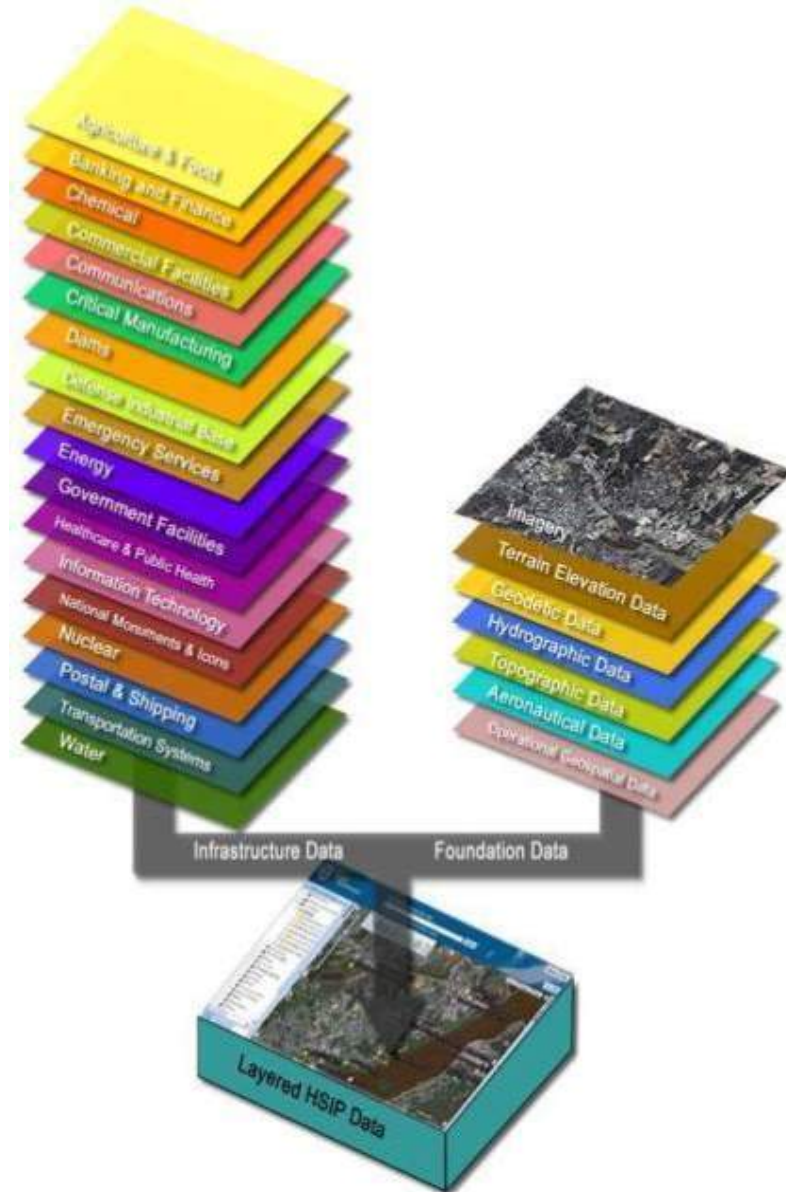
Homeland Infrastructure Foundation
Level Data (HIFLD) Working Group

HIFLD Objective

Support Domestic Infrastructure Data Gathering, Sharing and Protection, Visualization, and Spatial Knowledge Management for Homeland Defense, Homeland Security and Emergency Preparedness, Response and Recovery Communities

- **Everyone Wants Situational Awareness**
- **Everyone Wants a Common Operational Picture**

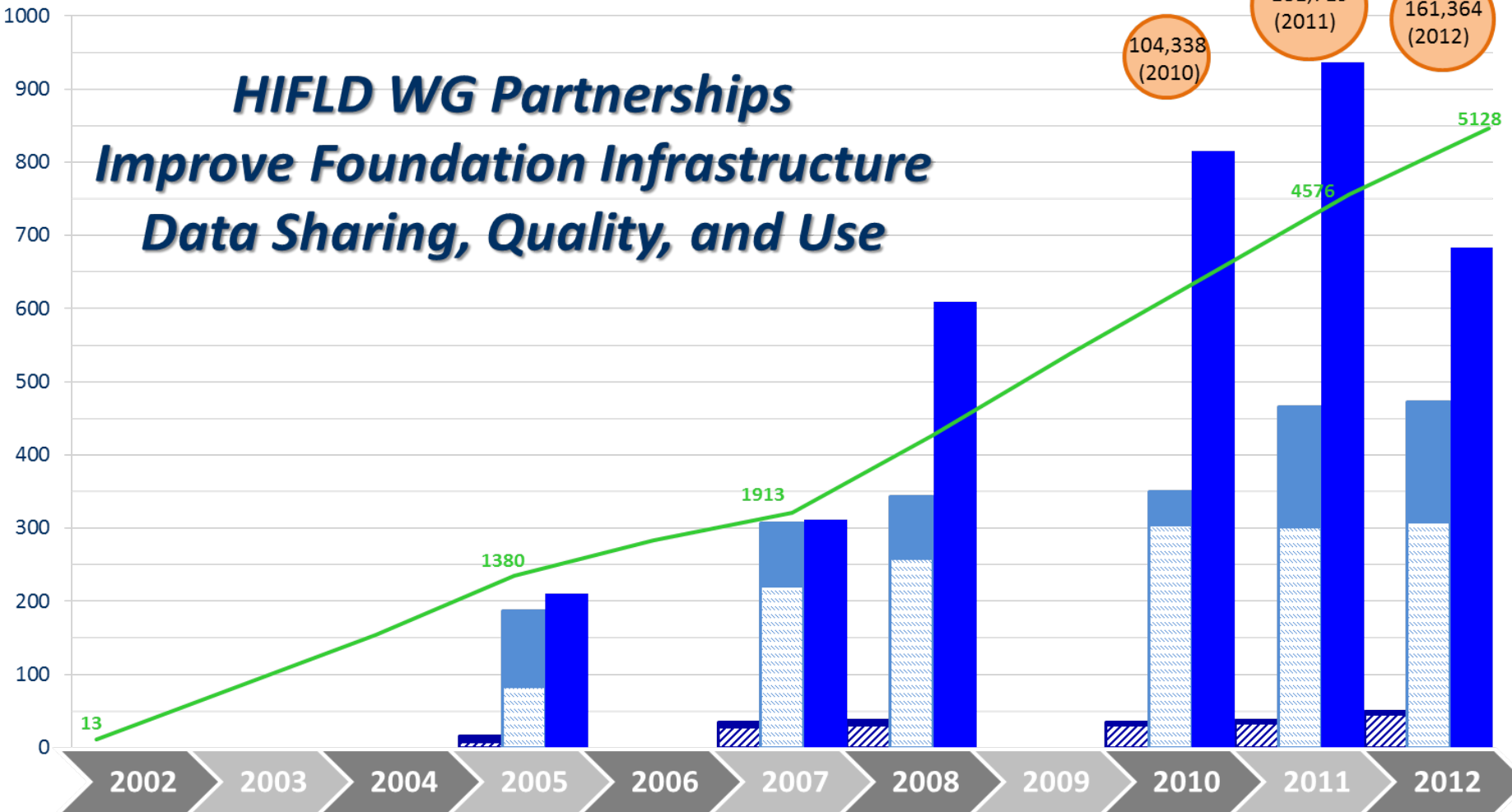
Both Require Common Foundation Data from Authoritative Sources
(everything has location)



Homeland Infrastructure Foundation
Level Data (HIFLD) Working Group

HIFLD WG Partnerships

Improve Foundation Infrastructure Data Sharing, Quality, and Use



- HIFLD WG formed
- HSIP Tiger Team Report
- Coalition of the willing
- Theme-focused sessions
- First HSIP Gold release
- HSIP Gold feedback
- HSIP Gold 2007
- HIFLD Chartered
- HSIP Gold 2008
- First HSIP Freedom Release
- HSIP Gold and Freedom 2010
- HSIP Gold, Freedom and NAVTEQ-State 2011
- HSIP Gold and Freedom 2012

As of 07/01/2012



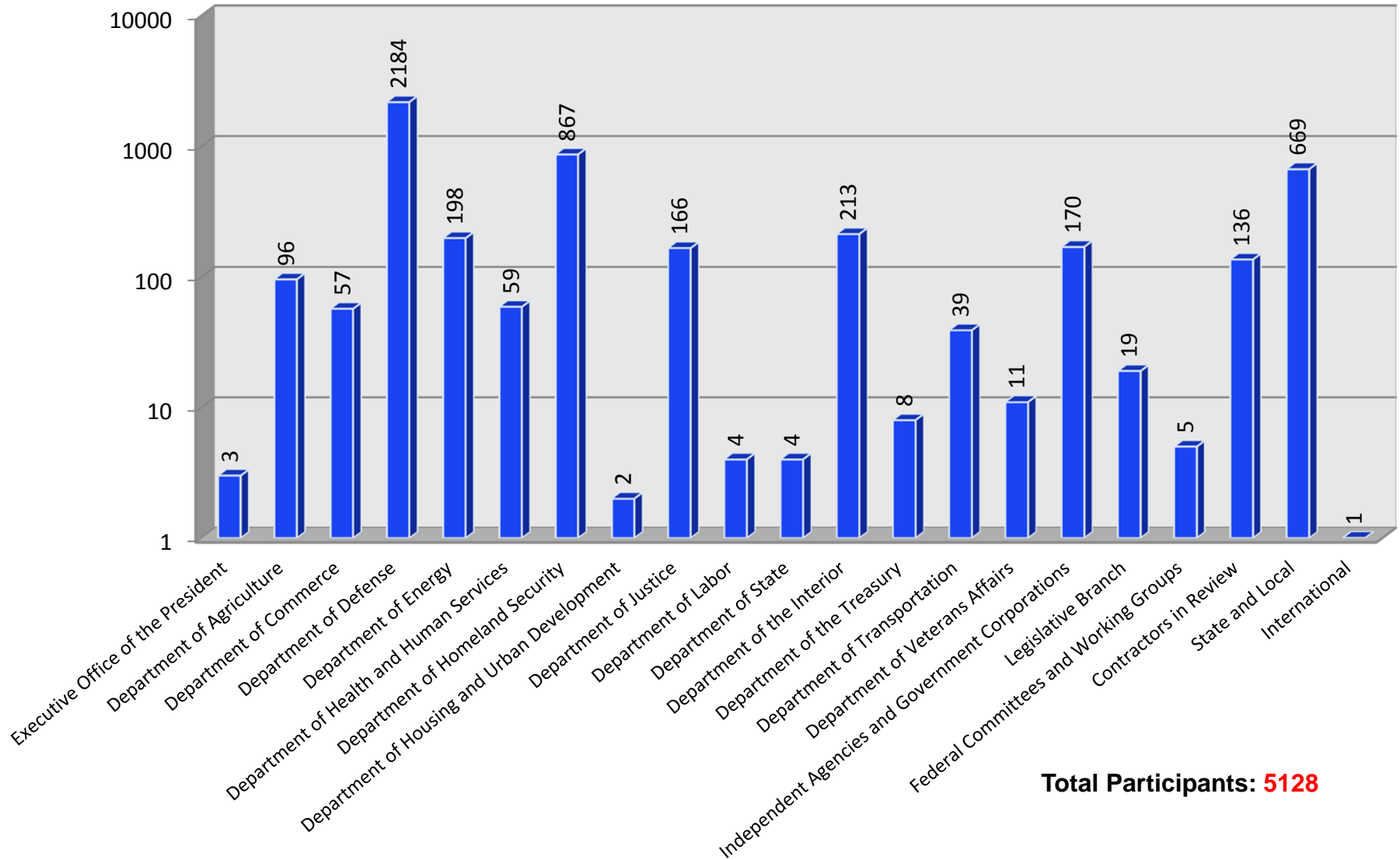
HIFLD WG OFFICIAL MEMBERS

- HSIP Gold Data Providers (Federal)
- HSIP Gold Data Providers (Commercial)
- HSIP Gold Data Layers (Federal)
- HSIP Gold Data Layers (Commercial)
- HSIP Gold Data Requests
- HIFLD WG Participants *
- HSIP Gold Supported Users *

* Not on same scale as providers, layers and requests

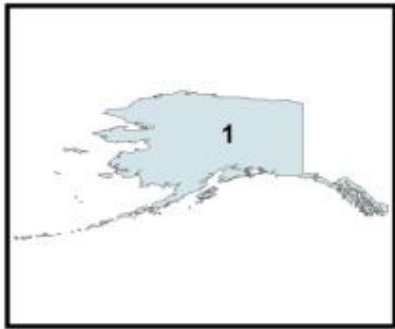
HIFLD WG Participants

07/01/2012

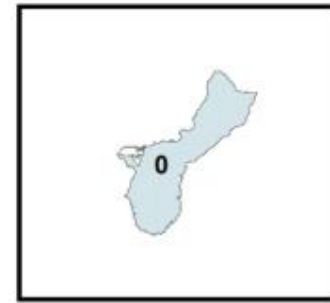


Total Participants: 5128

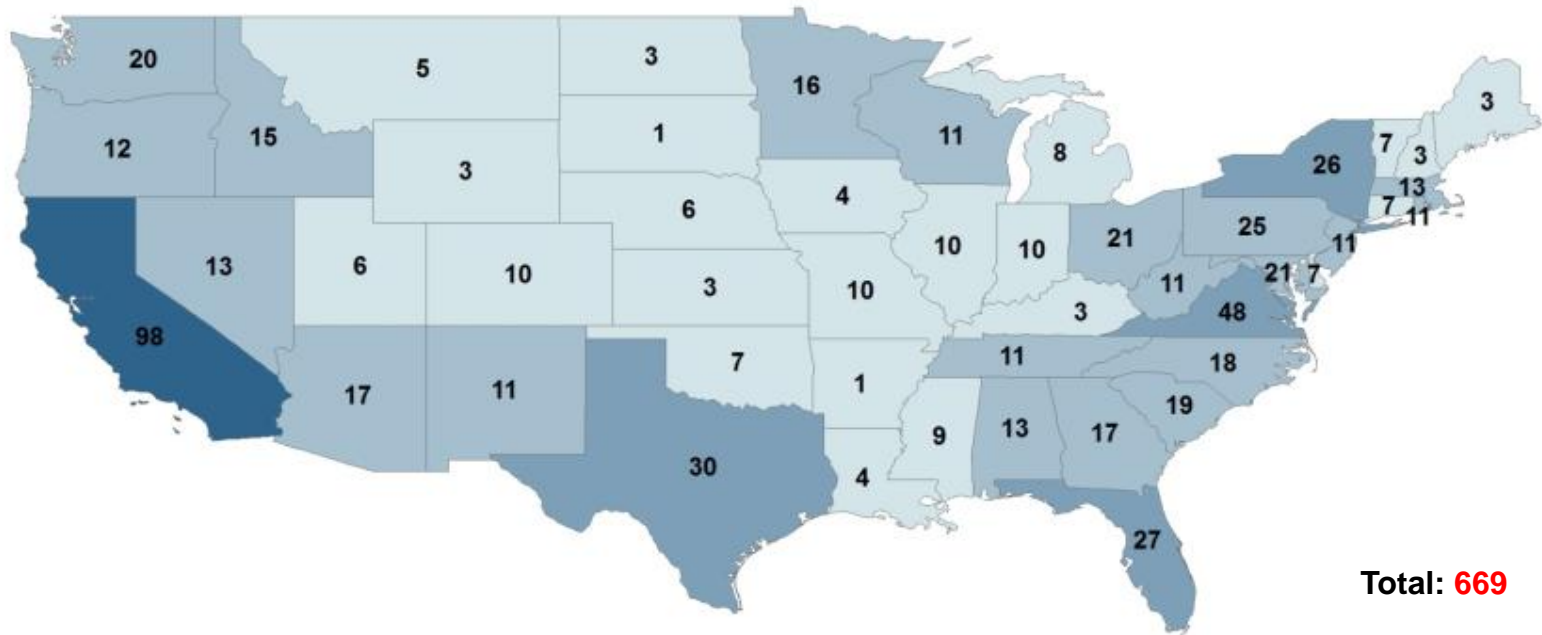
State/Local Government HIFLD WG Participants 07/01/2012



Alaska

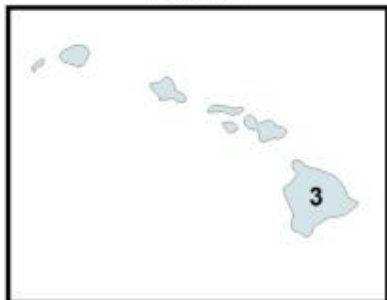


Guam

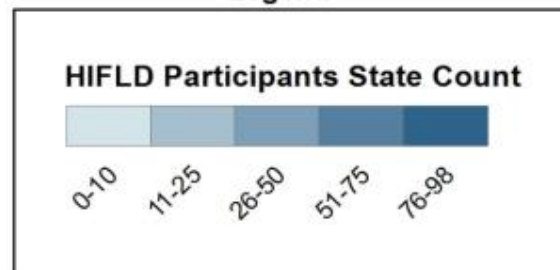


Total: 669

Hawaii



Legend

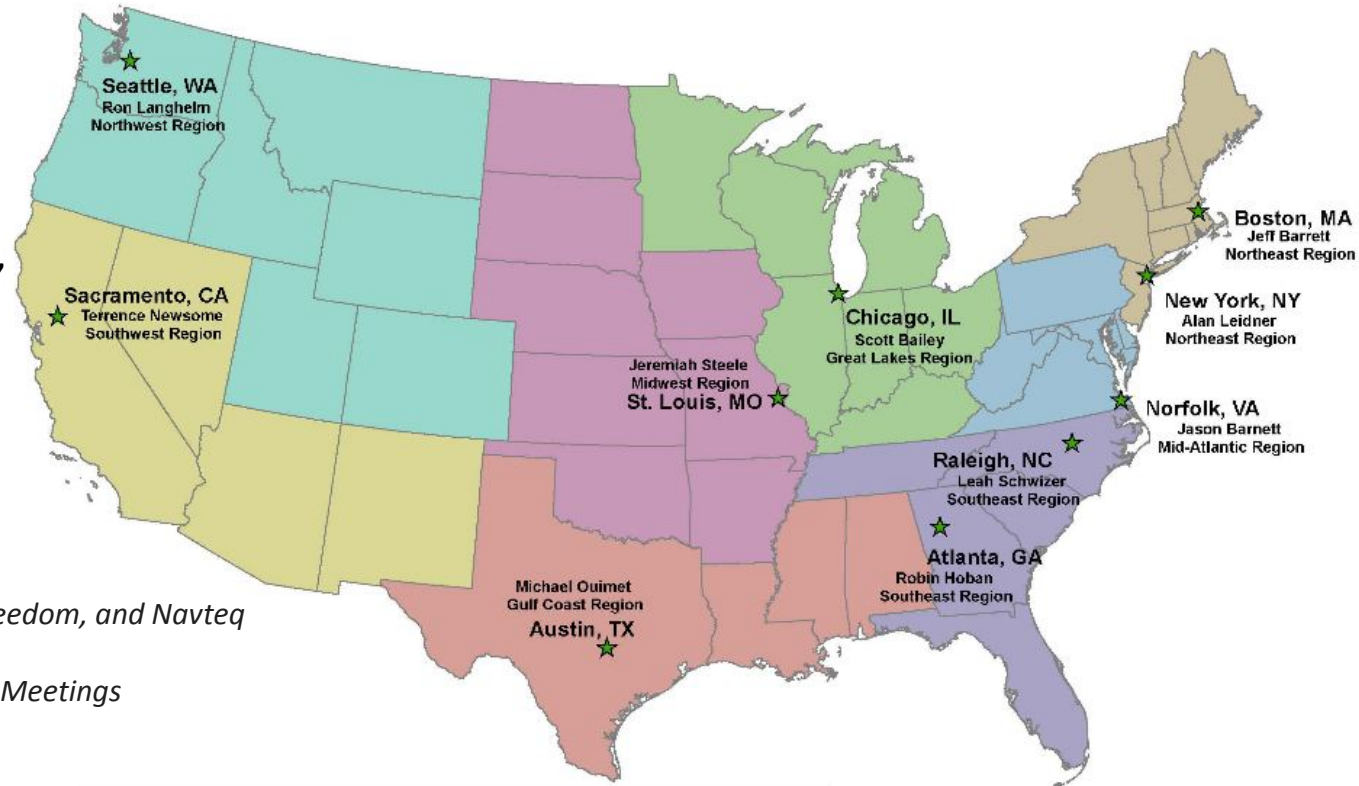


Puerto Rico and Virgin Islands



HIFLD to the Regions (HTTR)

Purpose: To focus HIFLD support on assisting State priorities, get the HSIP data to all levels of government and build/strengthen federal, state, local government and private sector partnerships to enhance regional preparedness and response



Recent Events Supported:

- *Dissemination of HSIP Gold, Freedom, and Navteq State Release*
- *Regional HTTR Working Group Meetings*
- *NSGIC Mid-Year Conference*
- *FEMA RISC Meetings*
- *State Fusion Center Conference*
- *VA, ND, WV, DE, CA, FL, GA, and other State GIS Confs*
- *Super Bowls 2010, 2011 and 2012*
- *APEC Summit, NATO Summit*
- *2012 Hurricane season preparation conferences*

Ongoing and Upcoming Events:

- *Feedback on HSIP Gold, Freedom, and Navteq State Release*
- *National Guard - HSIP Gold Dissemination*
- *NSGIC Annual Conference*
- *2012 Democratic and Republican National Conventions*
- *Infrastructure Data Coordination for Winter Storms, Spring Flooding, Summer Fires, Fall Hurricanes, etc.*



**Homeland Infrastructure Foundation
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Homeland Security Infrastructure Program (HSIP)

To aggressively capture, integrate and provide the Homeland Security, Homeland Defense and Emergency Preparedness, Response and Recovery community with **common operational geospatially enabled baseline data** - create a user defined operational picture to analyze threat, support critical infrastructure protection and expedite readiness, response and recovery in the event of a man-made or natural disaster.

UNCLASSIFIED//FOUO

National Geospatial-Intelligence Agency

HSIP GOLD 2012

DVD 1 OF 5
Infrastructure Data

Total # of Requests: **576**
Total # of Supported Users: **152,589**

UNCLASSIFIED//FOUO

UNCLASSIFIED//FOUO

HSIP FREEDOM 2012



via HSIN

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HSIP Gold 2012

- Compilation of ~450 Vector layers comprised of Commercial, Federal and State level Acquisitions.
- Delivers Common Operational Data to the GEOINT Analyst.

LiDAR

- Acquire unclassified high-resolution 1 meter elevation data over HSIP 133 major urban core areas of the U.S. – 5 year refresh schedule

Imagery

- Acquire unclassified high-resolution ortho-imagery (**12 inch GSD or better**) over HSIP 133 major urban areas of the U.S. – 2 year refresh schedule



Government Data Providers

U.S. Department of Agriculture (USDA)

Forest Service

U.S. Department of Commerce (DOC)

U.S. Census Bureau

National Oceanic and Atmospheric Administration

(NOAA)

U.S. Department of Defense (DoD)

National Geospatial-Intelligence Agency (NGA)

Defense Installation Spatial Data Infrastructure

(DISDI)

Defense Contract Management Agency (DCMA)

U.S. Army

U.S. Army Corps of Engineers (USACE)

National Guard Bureau (NGB)

Air National Guard (ANG)

Army National Guard (ARNG)

U.S. Department of Energy (DOE)

Office of Energy Efficiency & Renewable Energy

National Renewable Energy Lab (NREL)

Office of Science

Oak Ridge National Laboratory (ORNL)

U.S. Department of Health & Human Services (HHS)

State/Local

U.S. Department of Homeland Security (DHS)

Federal Emergency Management Agency (FEMA)

U.S. Coast Guard (USCG)

U.S. Customs and Border Protection (CBP)

Office of the Border Patrol

U.S. Department of the Interior (DOI)

Bureau of Indian Affairs (BIA)

Minerals Management Service (MMS)

U.S. Fish and Wildlife Service

U.S. Geological Survey (USGS)

National Park Service

U.S. Department of Transportation (DOT)

Federal Aviation Administration (FAA)

Federal Railroad Administration (FRA)

Bureau of Transportation Statistics

U.S. Department of Veterans Affairs (VA)

U.S. Environmental Protection Agency (EPA)

U.S. General Services Administration (GSA)

U.S. Nuclear Regulatory Commission (NRC)

U.S. Postal Service (USPS)

Federal Communications Commission (FCC)

Federal Deposit Insurance Corporation (FDIC)

National Credit Union Administration (NCUA)

Non-Governmental Organizations

American Red Cross (ARC)

Geospatial Multi-Agency Coordination





HSIP Gold 2012 Data Licensing

- **HSIP Gold Base Licensing (NGA Funded)**

- *United States Federal Government License*
- *Canadian Government Partnership License*
- *Non-Federal Emergency Data Release License*
 - *The designated lead federal agency shall determine which non-Federal agencies receive access to the licensed data under a presidentially declared national emergencies or crisis.*
- *Derivative products created from the dataset will be releasable to mission partners. Homeland Security is defined as the protection of people, property, and/or resources within the United States and its territories against natural disasters and/or man-made threats and attacks.*

- **HSIP Gold Data Disclosure Non-Emergency (NGA Funded)**

- *Non-Federal government disaster/emergency response agencies and/or personnel supporting the Homeland Security mission to “view” the data via a Federal Government owned, secure (i.e., password protected) system – restricted from downloading the data*

HSIP Freedom 2012

- Available to State and local governments
- 260 layers
- A subset of HSIP Gold; comprised of license-free data
- Access through the DHS Homeland Security Information Network (HSIN) GIS Portal



HSIP Freedom

State and Local

Download HSIP Freedom

WARNING: This data is FOR OFFICIAL USE ONLY (FOUO). It contains information that may be exempt from public release under the Freedom of Information Act (5 U.S.C. 552). It is to be controlled, stored, handled, transmitted, distributed, and disposed of in accordance with DHS policy relating to FOUO information and is not to be released to the public or other personnel who do not have a valid need-to-know without prior approval of an authorized DHS official.

CIKR SECTOR	DOWNLOAD (.ZIP)*
AGRICULTURE & FOOD	Download
BANKING & FINANCE	Download
CHEMICAL & HAZARDOUS MATERIALS INDUSTRY	Download
COMMERCIAL FACILITIES	Download
COMMUNICATIONS	Download

<https://government.hsin.gov/sites/gis/default.aspx>





HSIP Gold 2012 Update

Highlighted Improvements:

- 5 DVD Set – Primarily ArcGIS 9.3 File Geodatabases
- Relative Paths for all ArcGIS Layer Files (.lyr)
- Metadata configured for use in ArcGIS 9.3 and 10
- Continue to strive for more complete FGDC compliant Metadata for all data provided in HSIP Gold 2012.

Highlighted Updated Data Layers:

- State EOCs – Coordinated with NGA PMHR and HTTR IEB's to:
 - Update dynamic links to the Emergency Operations Center or State Emergency Management website
 - Add dynamic links to traffic information via State 511 Intelligent Traffic System (ITS) website
- EPA FRS – Addition of ArcGIS Layer Files for each Program of Interest
- NGA Updated Key public venue layers (i.e. NFL arena's, MLB stadiums, State Capitols, etc... with updated attribution)



HSIP Gold 2012 Update

Highlighted Updated Data Layers continued:

- National Rail Network (Rails, Tunnels, and Yards)
- Daycare Facilities (completed)
- Education Layers

Highlighted New Data Layers:

- US National Grid
- Defense Installation Spatial Data Infrastructure (DISDI) Common Installation Picture Buildings and Roads
- Armed Forces Recruiting Centers
- NOAA Coastal Services Center – Shipping, Outer Continental Shelf Lease Blocks, Submarine Cables
- FEMA National Flood Hazard Layer



HSIP Gold 2012 Update

NAVTEQ SDC Product:

- 40+ data layers for each of 3 separate area coverages: North American continent, Bahamas/Cayman Islands, LeadDog (subcontractor) islands/territories coverage
- Mexico now integrated into North American coverage
- 8 additional islands in 2012 LeadDog coverage
- Associated .mxd file, routing services, street level geocoding locators

LandScan USA Population Data:

- Utilizes 2010 Census data for the first time
- Total of 9 daytime/nighttime raster data files, covering continental United States, Alaska, Hawaii, & Puerto Rico
- 3 arc-second resolution

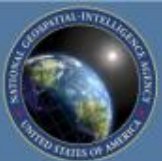
LandScan Global Population Data (subset)

- Coverage over North American continent (U.S., Canada, & Mexico)
- Extends out to Hawaii & Caribbean regions
- 30 arc-second resolution



HSIP Gold NAVTEQ Data Licensing

- **HSIP Gold Data Release & Disclosure Non-Emergency (NGA Funded for NAVTEQ Data Release – renewed for 2012)**
 - *In support of State Fusion Centers, EOCs, State GIS Coordinators, State National Guard Joint Operation Centers, and State Emergency Management Coordination*
 - Note: DoD Directive 5105.83 dated 05January 2011 - State National Guard Joint Operation Centers considered federal support*
- **Release NAVTEQ Data to States for use in steady daily operations (non-emergency)**
 - *Make HSIP data more readily accessible to State Governments*
 - *Reduce restrictions on HSIP data to use/share geospatial data*
 - *Increase use of common operational data supporting the mission*
 - *Response to HIFLD WG HSIP Gold/Freedom Feedback Session*
- **NAVTEQ Data Distribution**
 - *DVD Distribution – Request from HIFLD web site or HTTR Reps*



HSIP Gold 2012 Request Process

www.hifldwg.org

HIFLD
Homeland Infrastructure Foundation-Level Data Working Group

Contact Us

The Homeland Infrastructure Foundation-Level Data (HIFLD) Working Group

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User Login

E-mail: *

Password: *

Log in

- Create new account
- Request new password

Disclaimer: The information contained herein is marked UNCLASSIFIED and is prohibited from posting an unclassified web site or other information system.

HIFLD
Homeland Infrastructure Foundation-Level Data Working Group

Home | HIFLD | Interagency Coordination Teams | HIFLD to the Regions | Infrastructure Viewers Assessment | **HSIP** | Roster | Contact Us

Steven Ales

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The HIFLD Working Group of Defense for Homeland Security, Department of Homeland Security, Office of Infrastructure Protection Agency (OISA) Office of American States Geological Survey (ASGS)...

HIFLD Working Group meets on different national level of authoritative homeland and other structural/geospatial schemes, information and...

HIFLD Working Group seeks order to encourage activities conducted as necessary.

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Home > HSIP > HSIP Gold 2012

HSIP Gold 2012

HSIP Gold is a unified homeland infrastructure geospatial data inventory assembled by NGA in partnership with the Department of Homeland Security for common use by the Federal Homeland Security and Homeland Defense (HLS/HD) Community. It is a compilation of over 450 geospatial datasets, characterizing domestic infrastructure and base map features, which have been assembled from a variety of Federal agencies and commercial sources.

Due to licensing restrictions, NGA can only disseminate HSIP Gold to those requestors who are validated as Federal Interagency members of the HLS/HD Community (or their supporting National Guard Forces, contractors, and consultants). If you would like to request the HSIP Gold data, please follow the link below to initiate the request process.

- HSIP Gold 2011 Data List
- HSIP Gold 2011 Data Use Agreement
- HSIP Gold 2011 FAQ
- HSIP Gold 2011 Request Process

Submit Request for Data

- Click on link above
- Fill out HSIP Gold 2011 Online Request Form
- You will receive an email with the Data Use Agreement Attached
- You please print the signatory pages of the agreement (last 3 pages), sign, scan, and email to the NGA Reachback Team at hsp_team@nga.mil. Your request cannot be processed until this form is received by NGA.

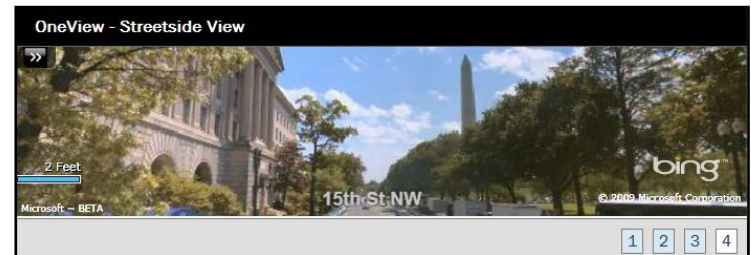
HSIP Gold Feedback

Since the initial release of HSIP Gold (2005), NGA Office of the Americas and the Homeland Infrastructure Foundation-Level Data (HIFLD) Working

DHS Geospatial Information Infrastructure (GII)

GII Overview

- DHS geospatial tools are available to **all HSIN users** at: <https://gii.dhs.gov>
- Highlights include:
 - **GII Services** – Homeland Security critical infrastructure data services (KML, GeoRSS, REST, SOAP), incident imagery and data, Landscan population
 - **DHS OneView** – Web based viewer access to Homeland Security data, spatial query tools, user added data (KML, GeoRSS), Bing Maps StreetView and Bird's Eye
 - **DHS Earth** – KML network link leverages the GII to visualize data bundles in a Google-ready format to support operation planning, incident response, ect.
 - **Geocoding Services**

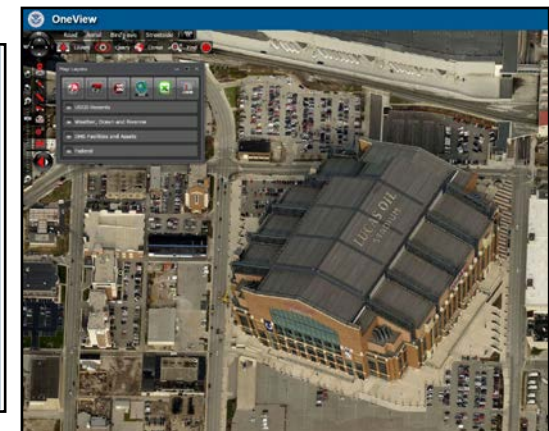


Support

- [Contact](#)
- [FAQ](#)

Quick Launch

- [OneView](#)
- [GII Services](#)
- [Geocode Services](#)
- [DHS Earth](#)



Resources

- Homeland Infrastructure Foundation Level Data (**HIFLD**) Working Group and HSIP Gold
 - www.hifldwg.org
- Homeland Security Information Network (**HSIN**) - DHS Tools and Services
 - Hsin.helpdesk@dhs.gov
 - <https://gii.dhs.gov>





Thanks For Your Time and Discussion

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