



GMO/HIFLD Program Updates

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Director (*Acting*)
DHS Geospatial Management Office



DHS' Geospatial Management Office

DHS GII
Geospatial Information Infrastructure

Contact Us
About GII Portal
Announcements

GMO Services
Geospatial Management Office: Who we are and how we can help you with your geospatial application and data needs.

Who is the GMO??
Request a Setup
Request Service Access
Make a Map
GII Catalog

Data
Provides enterprise access to mission essential geospatial data.

HIFLD Open
HIFLD Secure
IPAWS
Grids

Applications
GMO application portfolio provides situational awareness, standards based, geospatial concept of operations, secure data, shared and trusted data.

DHS COP
Cyber COP
JTF COP
NBIC

Geospatial Information Infrastructure (GII)

Homeland Infrastructure Foundation-Level Data

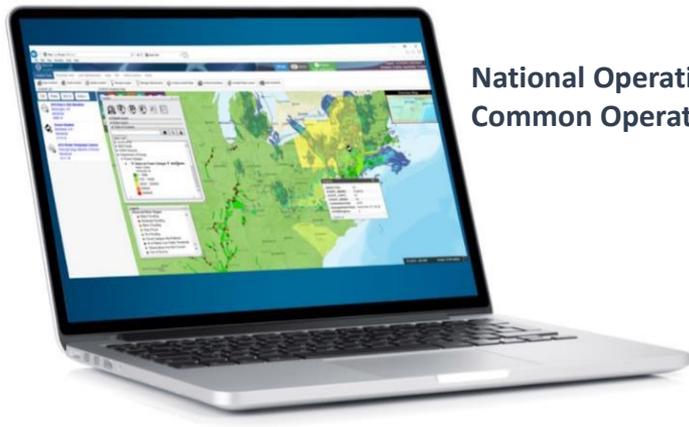
About Us

"The HIFLD Subcommittee is responsible for developing, promoting, and executing a coordinated strategy for acquisition or development of homeland infrastructure geospatial information for Federal agencies while creating and utilizing partnerships with State, local, tribal, territorial, and private organizations."

Identify & Define Mission Requirements
Inventory & Evaluate Available Data
Obtain, Acquire, or Enhance Data
Enable Open & Secure Access to Data
Maintain Data Currency & Completeness
Use & Archive HIFLD Data
Governance & User Feedback

Optimize

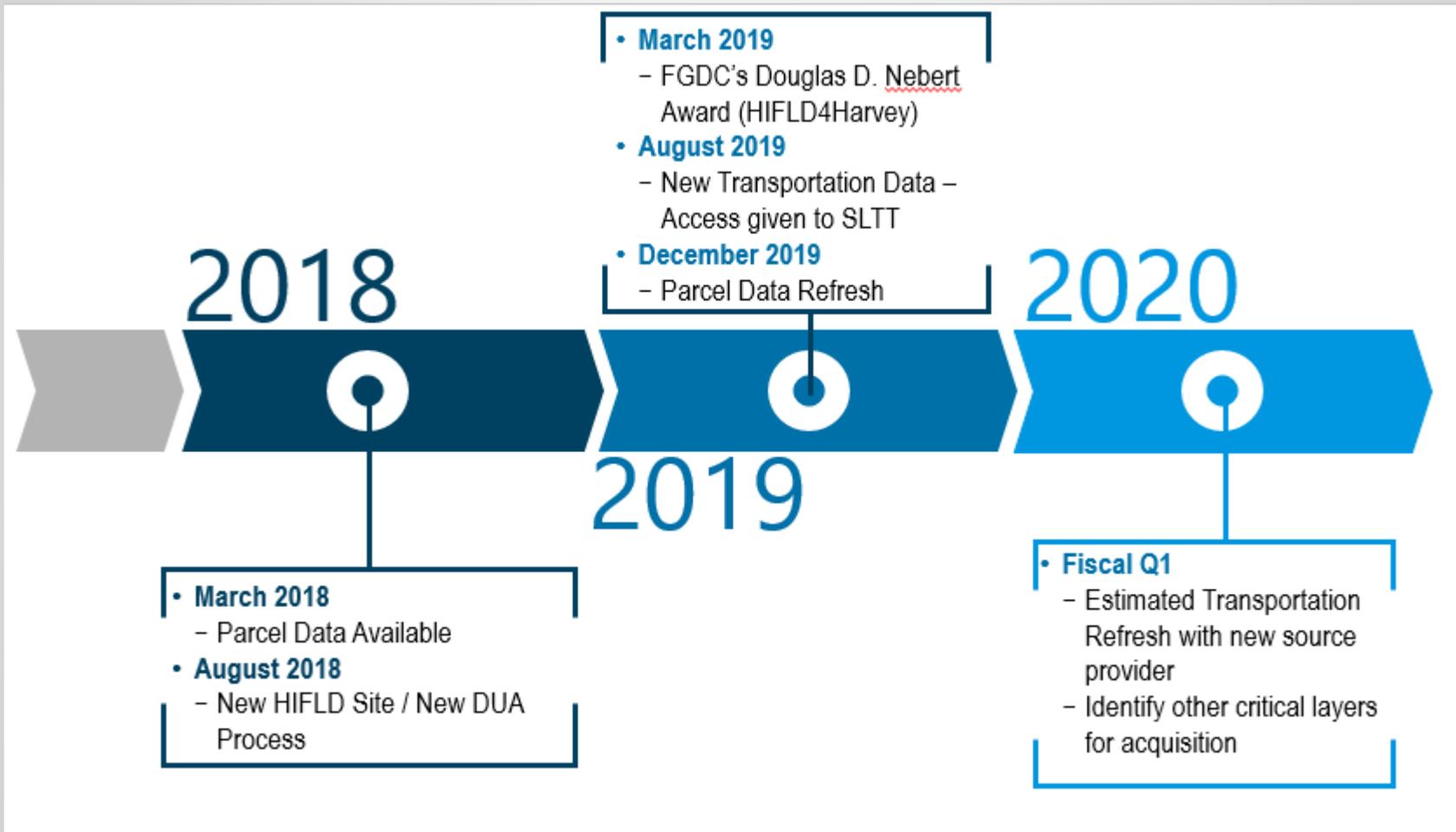
HIFLD



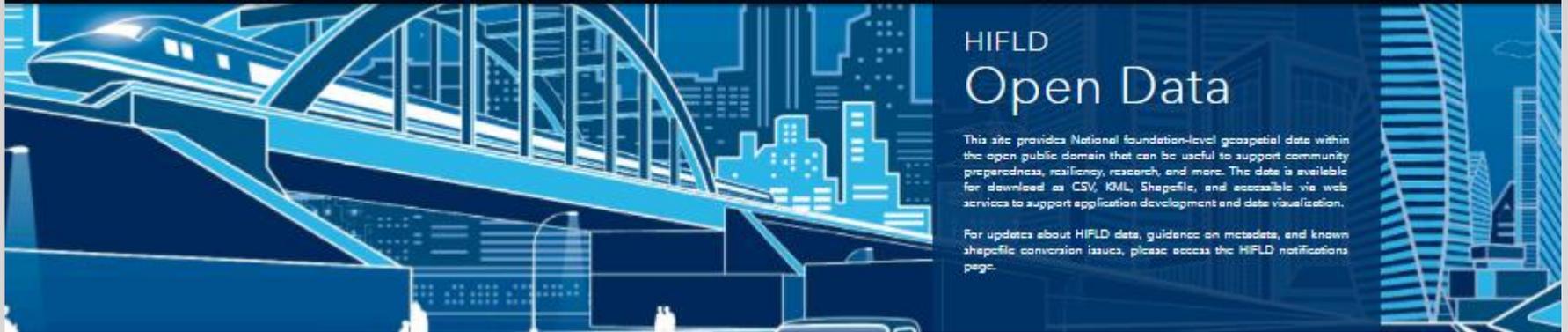
National Operations Center
Common Operating Picture



2019 HIFLD Data & Tech Updates



HIFLD Open Data Metrics



Total Site Page view: 718,231
Total Layer Views: 348,091

*** June 1, 2017 – 10/21/2019**
(Date of inception HIFLD Open on the GeoPlatform)

Total Downloads: 78,820

Top Layers: Electric Power Transmission Lines, Hospitals, Electric Retail Service Territories, National Bridge Inventory Bridges, Colleges and Universities, Electric Substations

HIFLD Secure & Licensed Data Metrics

11,400 Views*
6,500 Downloads*
(August 2018– 10/1/2019)



46,818 Downloads
(July 2019 – 10/1/2019)



2,396 Downloads (new delivery)
(August 2019– 10/1/2019)





**NGA Homeland Security Infrastructure Program (HSIP)
Homeland Infrastructure Foundation Level Data (HIFLD)**

Program Activity Updates

Jimmy Nerantzis

HSIP Program Manager

NGA Source | Office of Geography





HIFLD Data Update

Annual HIFLD Workshop and Feedback Session, 2019

Enabling Effective Data Management

USGS, Reston, VA

Jimmy Nerantzis,
HSIP Program Manager,
NGA, Source | Office of Geography

&

Tom Springsteen
HIFLD Support Team (HST)
NGA Contractor

28 Oct. 2019

NATIONAL GEOSPATIAL **NGA** INTELLIGENCE AGENCY

Discussion Points

Data Updates: New; Enhanced; Updated

1. Commodity/ Commercial Data
2. Supplemental Data; NGA & National Laboratories
3. Federal Partner Data – Tom Springsteen/ HIFLD Support Team

Data Updates: New; Enhanced; Updated

1. Commercial Data Acquisitions:

1.1. Roads and Routing Data (Transportation)

1.1.1 Current data: 2018-2019: Altamira/ HERE Technologies

- Currency of data: Jan 2019
- Published on HIFLD Secure, August 27, 2019

License agreement with expanded access; Download and use for **all federal, state, local, territorial, and tribal agencies and supporting contractors***

1.1.2. *Coming update for 2019-2020*: Altamira/ HERE Technologies;

- 1st of 3 deliverables available on HIFLD Secure, early 2020 (Est.)

License agreement; *Download and use for **all federal and state agencies and supporting contractors only*** (no license for Local, Territorial or Tribal agencies)*

*U.S. Homeland Security/Homeland Defense; Emergency Preparedness, Response & Recovery Missions

Data Updates: New; Enhanced; Updated

1. Commercial Data Acquisitions:

1.2. Parcel Content

1.2.1 Current data: 2018-2019: CoreLogic

- Available on HIFLD Secure; posted July 2019
- Data current to Feb. 2019

License agreement with expanded access; Download and use for all federal, state, local, territorial, and tribal agencies and supporting contractors*

1.2.2. New/ Updated data for 2019-2020: Altamira/ Lightbox (Digital Map Products (DMP))

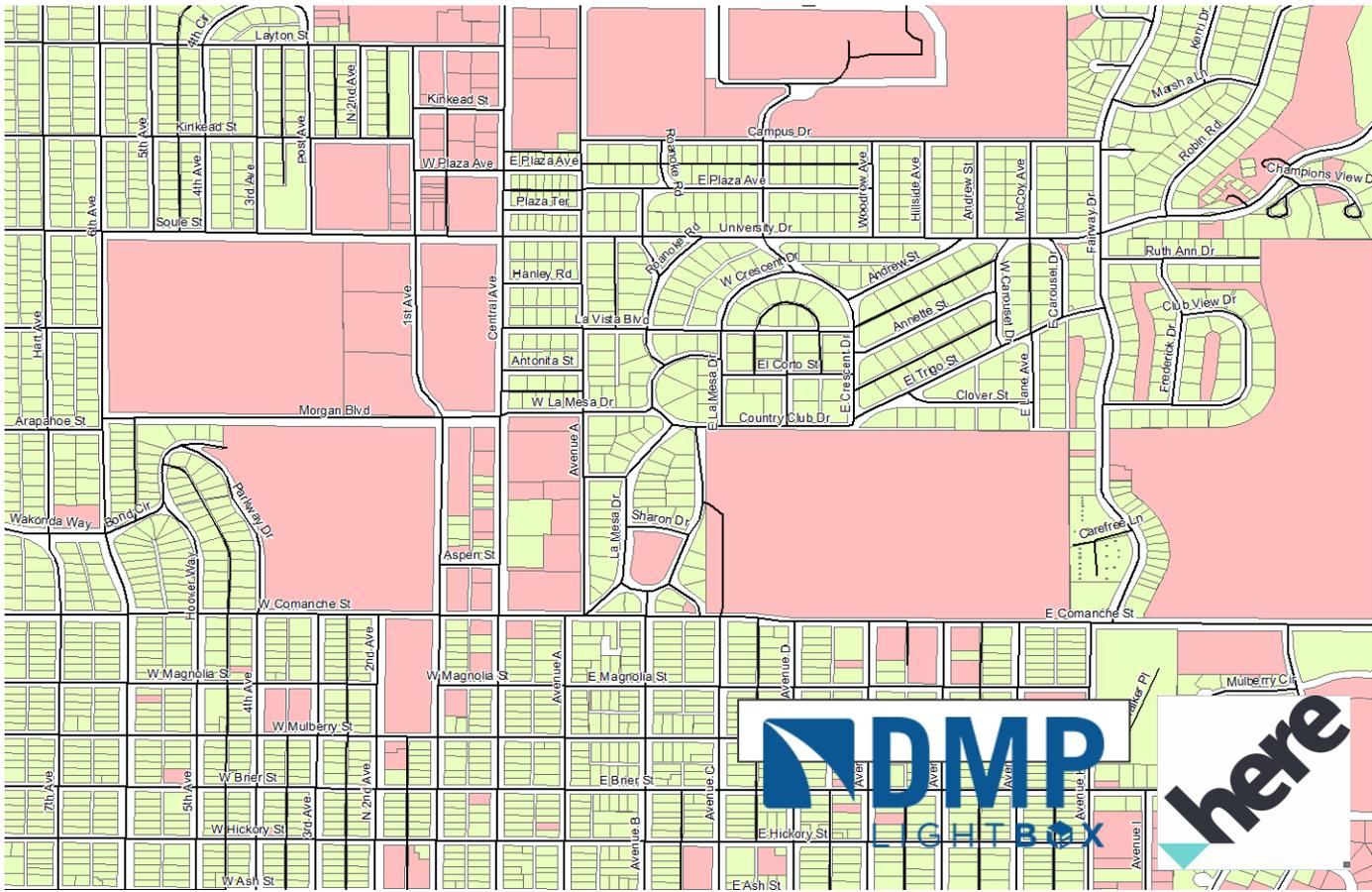
- First delivery of (4) for NGA review: Nov. 2019
- Available on HIFLD Secure early 2020 (Est.)

License agreement same as above, but includes expanded usage for derivative products.
(next slide for details)

*U.S. Homeland Security/Homeland Defense; Emergency Preparedness, Response & Recovery Missions



Parcel Data and Roads & Routing



Data Updates: New; Enhanced; Updated

1.2.2. *New data for 2019-2020: Altamira/ Lightbox (Digital Map Products (DMP));*

Download and use for **all federal, state, local, territorial and tribal agencies and supporting contractors***, and expanded usage for derivative products.

NGA and NGA's Mission Partners with a license to use the data, will have the right to support Homeland Security and Homeland Defense Missions by publically sharing or publishing derivative works with Mission Partners.

Under the conditions that:

- a) derivative works cannot be reverse-engineered to recreate the parcel data in its original form and entirety and,*
- b) derivative works would not be used, (have the same extent of utility) as a replacement for the original parcel data in its entirety.*
- c) a subset of parcel data will not be combined with other data subject to an open database license unless permission is granted by the vendor.*
- d) the vendor will be given written credit for any parcel data included in a derived product (either in the metadata of a derived dataset or in the margin of a static product.*

Data Updates: New; Enhanced; Updated

1. Commercial Data Acquisitions:

1.3. Business Points

- No Business Points data update due to funding limitations
- No update since 2016
- NGA plans to pursue RFP for Business Points FY20

Data Updates: New; Enhanced; Updated

2. Supplemental Data; NGA & National Laboratories:

- NGA collaboration with Oak Ridge National Laboratory (ORNL)
- Associated collaboration with Argonne, Idaho and Los Alamos National Laboratories

Updates for 2018-2019; Published June & Sep 2019

1. College Polygons; **NEW**
2. Colleges and Universities;
3. Convention Centers **NEW**
4. Hospitals; (with related table Trauma_Levels)
5. Major Sport Venues; (with related table 'Usage')
6. Nursing Homes
7. Public Schools
8. Supplemental Colleges
9. Child Care Centers; (formerly called Day Care)
10. Law Enforcement; State and Local **New**

Coming for 2019-2020: Pub. June/Sep 2020

1. Schools (all);
 2. Convention Centers/ State Fairs;
 3. Hospitals;
 4. Nursing Homes;
 5. Child Care Centers;
 6. Solid Waste;
 7. Prison Boundaries;
 8. Energy Data; Electric System;
 9. Energy Data; *POL/NG;
- *Petroleum, Oil, Lubricants/ Natural Gas*
10. LandScanUSA;

Data Updates: New; Enhanced; Updated

3. Federal Partner Data; Tom Springsteen

❖ *Updated as of the October 2019 quarterly data push*

○ **HIFLD OPEN: New Layers and Updates**

- Hydrocarbon Gas Liquid Pipelines - **NEW**
- Emergency Medical Service (EMS) Stations
- Runways
- Road Tunnels
- State Capitol Buildings
- Fire Stations (2019 Partial Data Set) - **NEW**
- Natural Gas Pipelines
- U.S. Mint - Bureau of Engraving and Printing (BEP) Facilities
- Trails - **NEW**
- Courthouses - **NEW**
- Major State Government Buildings - **In Progress**
- National Inventory of Dams (NID) - **In Progress**
- Urgent Care Facilities - **In Progress**
- Geographic Names Information System (GNIS) Updates - **In Progress**

○ **HIFLD SECURE: New Layers and Updates**

- Air Medical Communication or Dispatch Centers
- Air Medical Service Providers
- Airport, Hospital and Stand-alone Helipad Base Locations
- Receiving Hospitals
- Rotor Wing 10 Minute Fly Circles
- Rotor Wing 20 Minute Fly Circles
- Rotor Wing 30 Minute Fly Circles
- Fixed Wing Aircraft - **NEW**
- Rotor Wing Aircraft - **NEW**
- Defense Industrial Base (DIB Facilities) - **In Progress**
- National Counter-IED Capabilities Analysis Database (NCCAD) - **In Progress**
- National Disaster Medical System (NDMS) Federal Coordinating Centers - **In Progress**

Data Updates: New; Enhanced; Updated

3. Federal Partner Data; Data Access Updates

- More data is becoming public, HIFLD data providers working to do so as well
 - Data moving to Open; data opening up to SLTT partners
- Data layers made publicly available and published on HIFLD Open over the last year:
 - FEMA Recovery Offices
 - National Inventory of Dams (NID) – in progress for update on HIFLD
 - Non-Gasoline Alternative Fueling Stations
- Data layers opened to State, local, tribal and territorial partners over the past year:
 - Atlas & Database of Air Medical Services (ADAMS) database (9 layers)
 - Defense Industrial Base (DIB) Facilities – in progress for update on HIFLD
- Working others; will update community when available

Data Updates: New; Enhanced; Updated

3. Federal Partner Data; Static to Services

- Emphasis to provide services for publicly-available layers
 - Streamlines ease of use
 - Understanding future of data delivery
 - Updates to community “real-time”
 - Different formats, REST preferred for HIFLD Open
 - Map services not always a perfect replacement, feature services can be
- HIFLD has coordinated with data providers to create services:
 - United States Army Corps of Engineers (USACE) Inland Electronic Navigational Charts (IENC):
 - Master geodatabase still available, but now also available as feature services
 - 98 layers
- Informational guides available with more information at:
<https://gii.dhs.gov/hifld/content/instruction-guides>

Data Updates: New; Enhanced; Updated

3. Federal Partner Data; Standardization Tools Coming

- Data Enhancement driven
 - Standardization a large part of recommended edits for data providers
 - Process created – tools built from this process
 - Reduce identification and update load
- Covers multiple facets
 - City name standardizer
 - Address standardizer
 - Phone standardizer
 - Adding missing information (county, state, ZIP, etc.)
- Intended to empower data providers/user community
 - Tools will be available on HIFLD website
 - “How-To” documents as well
 - Can work with data providers to help update/customize
- Open to community feedback/scripts

HIFLD Community Input & Feedback

- We want your input & feedback!
- Available means:
 - HIFLD Email; hifld@hq.dhs.gov
 - HIFLD Outreach Events; In-Person & Webinar
 - HIFLD Feedback Session
 - HIFLD Data Provider Discussions



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Commercial Data Panel

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