



# NGA's Homeland Security Infrastructure Program

## *Focus of Homeland Security Infrastructure Program*

- Provide Federal Level Decision-makers with a **'minimum essential data set'** of information necessary to support readiness, response, & recovery efforts in support of planning against or cases of natural or man-made disasters.
  - What is Where
    - Location information on infrastructure & resources
  - Who is There
    - Who to contact for local information about each specific infrastructure or resource

# Homeland Security Infrastructure Program

Consists of an Imagery Base, Elevation, and Vector Data Layers

- Imagery
  - 1 ft or better resolution
  - 2 year currency desirable
- Elevation Data
  - 1 m over urban core
  - 30 m or better data over remainder
- **Nation-Wide Infrastructure Layers**
  - Information & Communications
  - Banking, Finance, & Insurance
  - Water Supply
  - Transportation
  - Emergency Services
  - Energy
  - Emergency/Law Enforcement
  - Public Health
  - Special Functions (DOD/IC)
  - High Value/Symbolic Targets-National Symbols
  - Food Industry
  - Agriculture & Livestock
  - Chemical Manufacturing
  - Commercial & Retail

# NGA Data Acquisition Strategy

## •Acquire Federal Databases

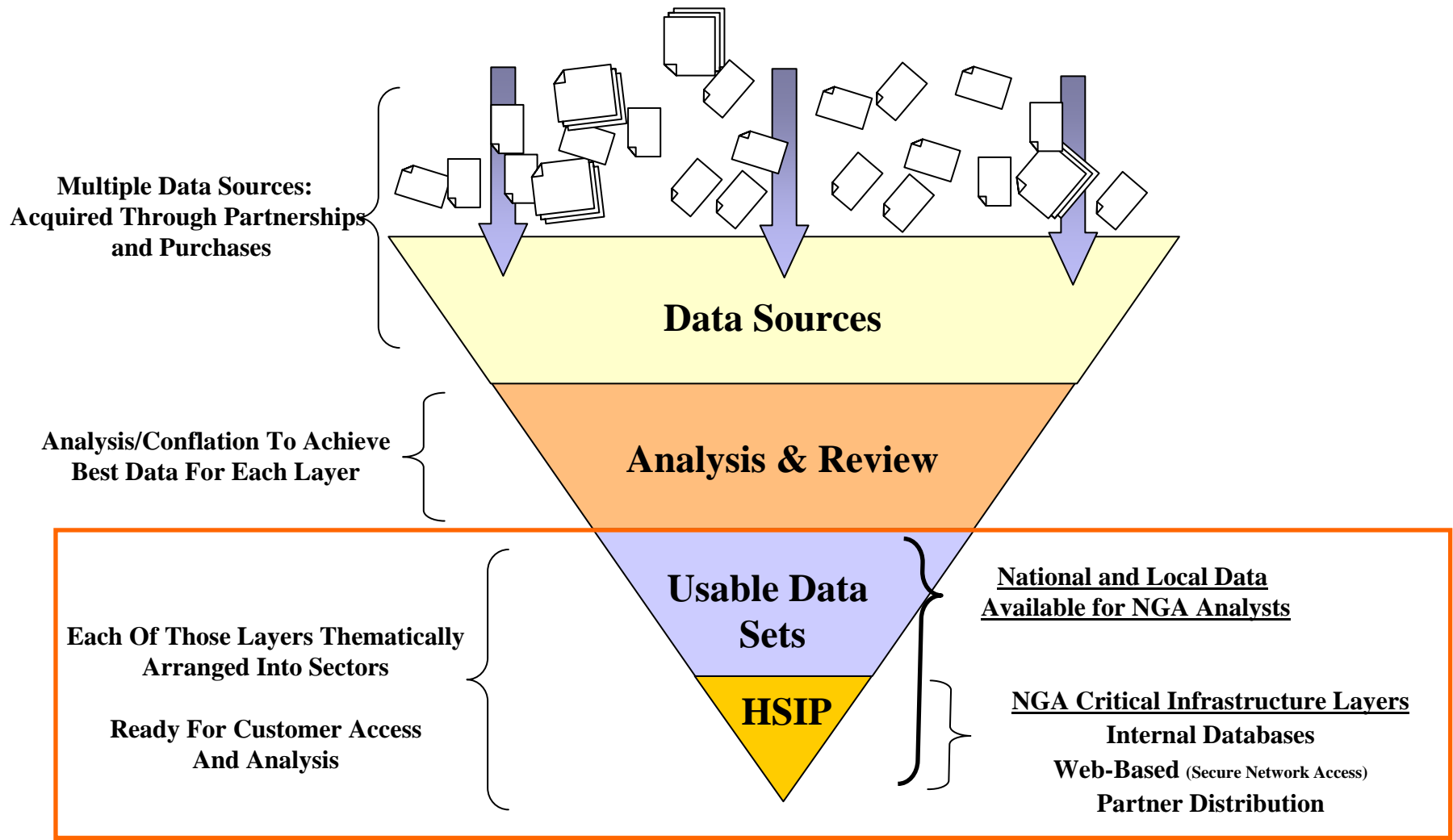
- Available at no cost, but needs evaluation for quality/accuracy
- National level data releasable to State and Local during crisis
  - Several datasets replaced by more accurate commercially available data

## •Federally-Licensed Commercial Data (National Level)

- Thorough Review of selected Infrastructure databases
  - Identify 'Best Available' for purchase and distribution

## •Partnerships with State and Local Authorities

- MOU with the USGS to acquire local GIS Datasets
- HSIP Freedom
  - Goal to create data from state & local sources without license restrictions and fees



**Critical Sectors**

- Agriculture
- Food
- Water
- Public Health
- Emergency Services
- Government
- Defense Industrial Base
- Information Telecom
- Energy
- Transportation
- Banking Finance
- Chemical HazMat
- Postal Shipping

*Know the Earth...Show the Way*

# NGA Data Acquisition Strategy

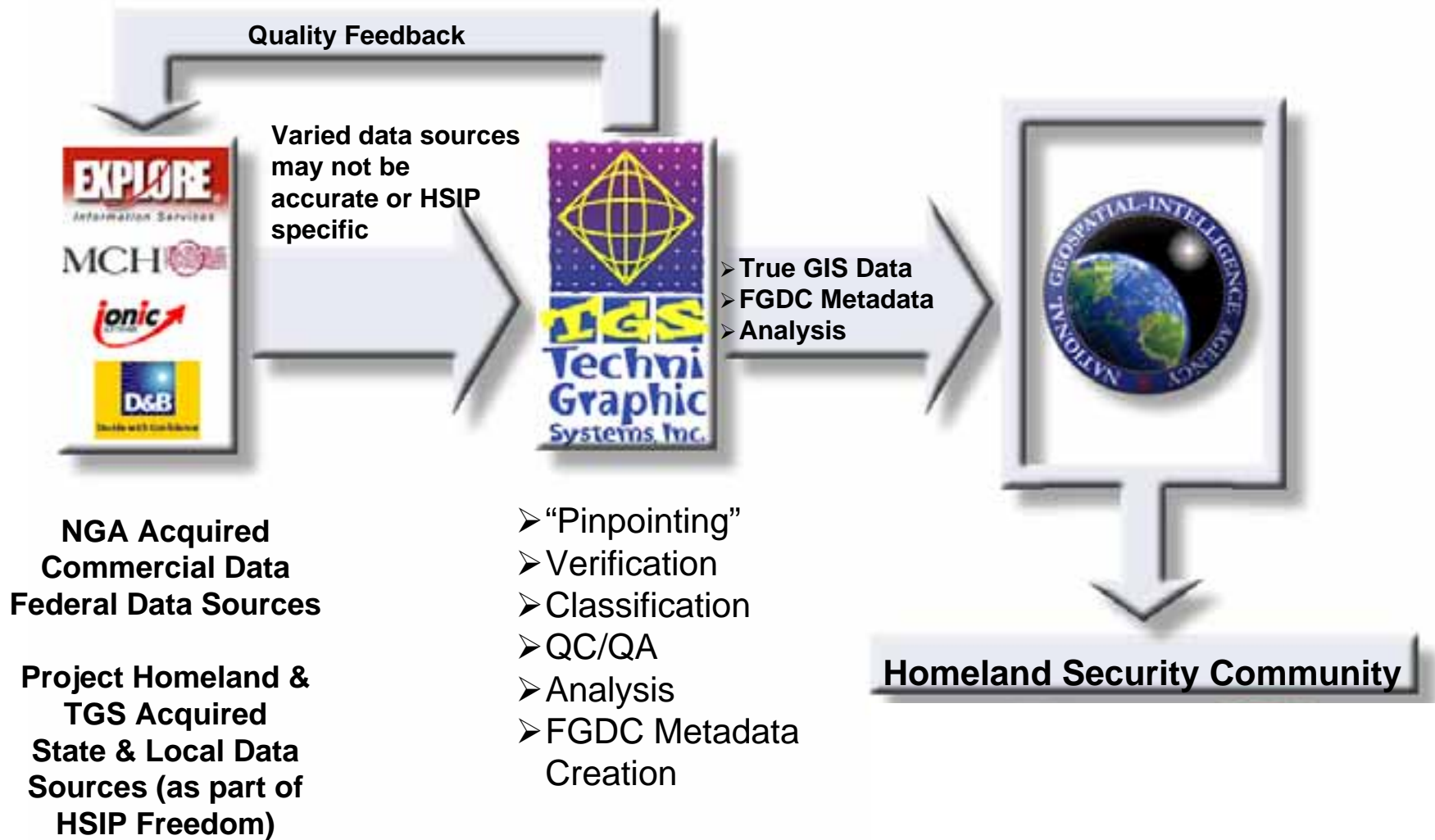
## Data Reality

- Inconsistent Availability, Quantity, Quality & Currency

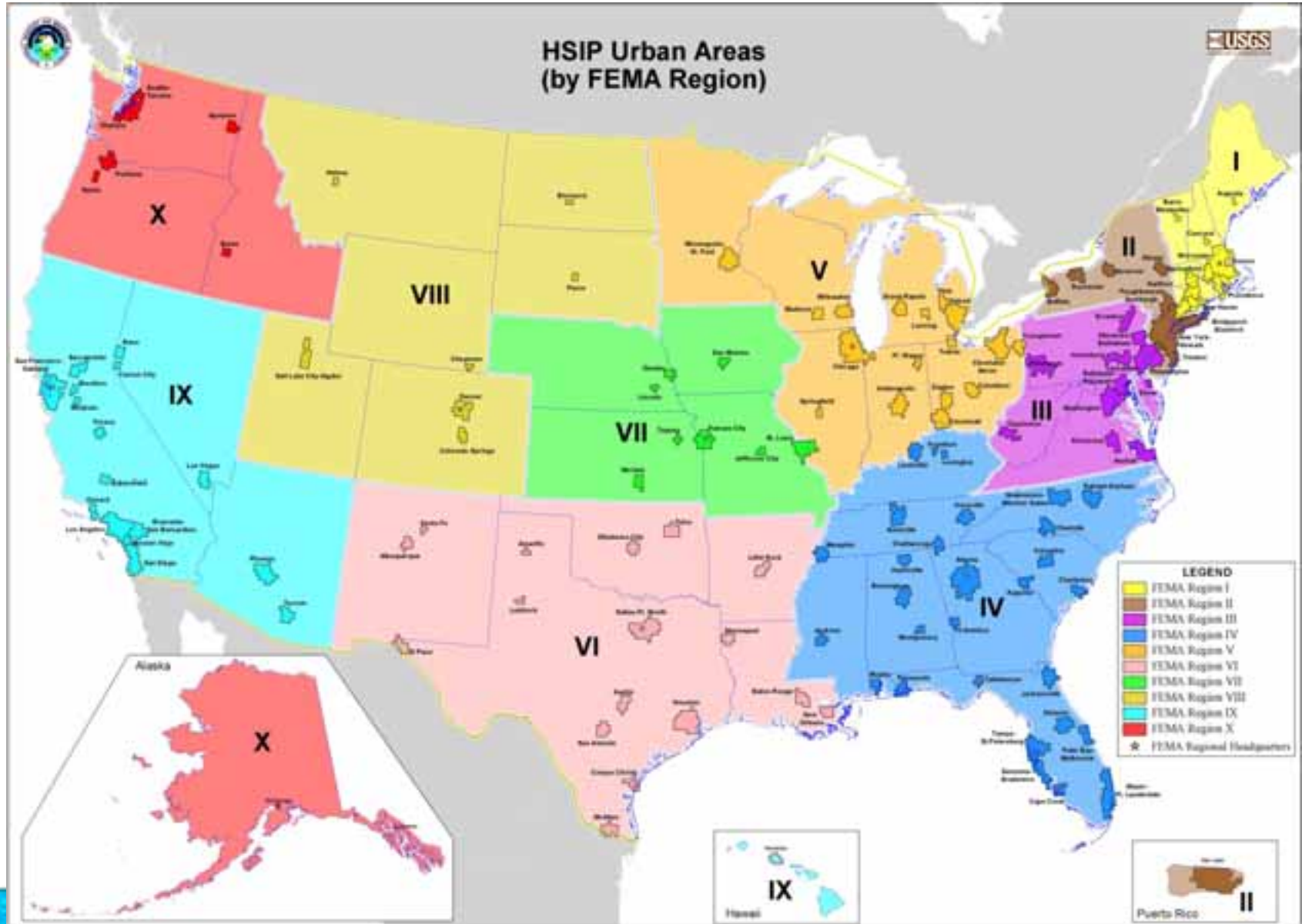
Therefore –

**NGA partnered with TGS to provide Quality Assurance improvements (accuracy and Data content) to selected critical infrastructure sector datasets.**

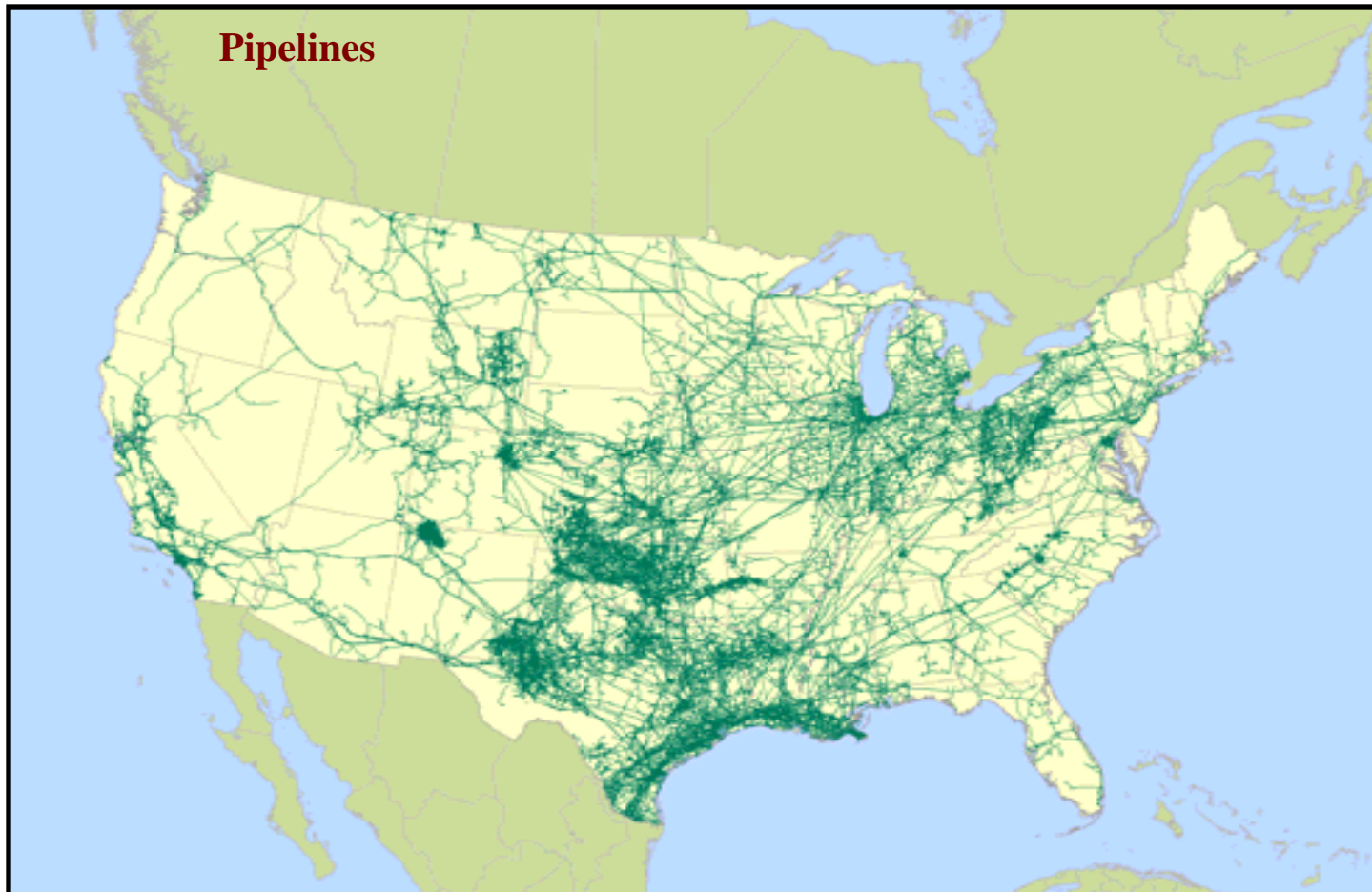
# Data Validation and Accuracy Improvement



# Homeland Security – “133 Cities”



## Selected Critical Infrastructure Sectors



**NGA holds geospatial datasets over the US**

**... Hundreds of data layers within 13 Infrastructure Sectors**

# HSIP GOLD Operational Users

- 118 – Department of Defense
- 70 – Department of Justice
  - 67 – FBI
    - 56 for FBI HQ
    - 11 for FBI Field Offices
      - (includes 6 for Law Enforcement Offices)
  - 2 – DEA
  - 1 – ATF
- 51 – Department of Homeland Security
  - 18 – Department of Interior
  - 12 – USGS
- 2 – DOI HQ
- 2 – Fish & Wildlife Service
- 1 – Bureau of Land Management
- 1 – National Park Service
- 16 – Environmental Protection Agency
- 12 – Department of Energy
  - 9 – National Labs
  - 2 – DOE HQ
  - 1 – Western Area Power Administration
- 8 – Department of Agriculture
  - (includes 1 for Forest Service)
- 3 – Department of Transportation
  - (Includes 1 for Federal Aviation Administration)
- 3 – Department of Health & Human Services
  - (Includes 1 for Centers for Disease Control)
- 2 – Department of Commerce – NOAA
- 2 – US Postal Service
  - (Includes 1 for US Postal Inspection Service)
- 1 – Department of Housing & Urban Development
- 1 – Department of Treasury - IRS
- 1 – Department of Veterans Affairs
- 1 – Federal Communications Commission
- 1 – General Services Administration
- 1 – Nuclear Regulatory Commission
- 1 – Tennessee Valley Authority
- 1 – Library of Congress

# Take Aways

- **NGA's partnerships with other Federal Agencies and with Industry facilitate effective and efficient information acquisition and sharing**
  - Close coordination with USGS (includes State & Locals)
  - Flexible contracting vehicles for imagery, elevation and infrastructure
  - Commercial based tools and solutions, data-centric focus
- **NGA is uniquely suited to provide GEOINT to support all HLS Mission areas**
  - Coordination among all levels of government, to include local, and with industry is providing responsive and cost-effective GEOINT
- **HSIP directly supports DoD planning & operations**
  - **38% of HSIP GOLD customers**

# Take Aways

- **HSIP is the primary geospatial database to satisfy the Homeland Security Presidential Directive 7 (HSPD-7) to “...geospatially image, map, and sort the Nation’s critical infrastructure and key resources...”**
  - **DHS officially adopted HSIP as the foundation Common Operational Data (COD)**
  - **DHS has integrated HSIP into the DHS Common Analytic Viewer (iCAV), which provides the COP within the DHS National Operations Center (NOC) – March 16, 2007**
- **Impact and implication of the National Applications Office still to be determined.**
  - **Leadership role in the HLS community expected, but not in place yet to understand its impact to NGA’s HLS support mission**

NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY ▼



➤ *Know the Earth...Show the Way*    ➤➤    ➤