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FEDERAL GEOGRAPHIC DATA COMMITTEE

Address Theme and National Address Database Update

FGDC Steering Committee Meeting

Presented by

Steve Lewis, Department of Transportation

Lynda Liptrap, Census Bureau

March 23st, 2017

Topics

- Address Theme Background and Update
- NAD Pilot Update
- NAD Federal User Requirements Workshop

Roles and Responsibilities

- **Executive Champions**
  DOT – Steve Lewis
  Census Bureau – Tim Trainor

- **Address Theme Leads**
  DOT – Steve Lewis
  Census Bureau – Lynda Liptrap

- **Address Theme Subcommittee**
  DOT – Steve Lewis
  Census Bureau – Mark Lange

- **NAD Dataset Manager**
  Census Bureau – Matt Zimolzak

- **NAD Technology Operations Manager**
  DOT – Steve Lewis

Address Theme and NAD Goals

- ☒ Establish Address Subcommittee
- ☒ Develop Theme Definition
- ☒ Gather and Refine NAD User Requirements
- ☒ Establish Theme Community on the GeoPlatform
- ☐ Finalize Subcommittee Charter – in progress
- ☐ Assess the DOT Pilot NAD Database
- ☐ Develop a Theme Strategic Plan

Address Subcommittee

16 Agency Subcommittee Members

Department/Agency	Department/Agency
Census Bureau	Department of Labor
Consumer Financial Protection Bureau	Department of Transportation
Department of Education	Department of Veterans Affairs
Department of Energy	Federal Emergency Management Agency
Department of Homeland Security	National Technical Information Service
Department of Housing and Urban Development	Office of Management and Budget
Department of the Interior	U.S. Postal Service
Department of Justice	Social Security Administration

Address Subcommittee

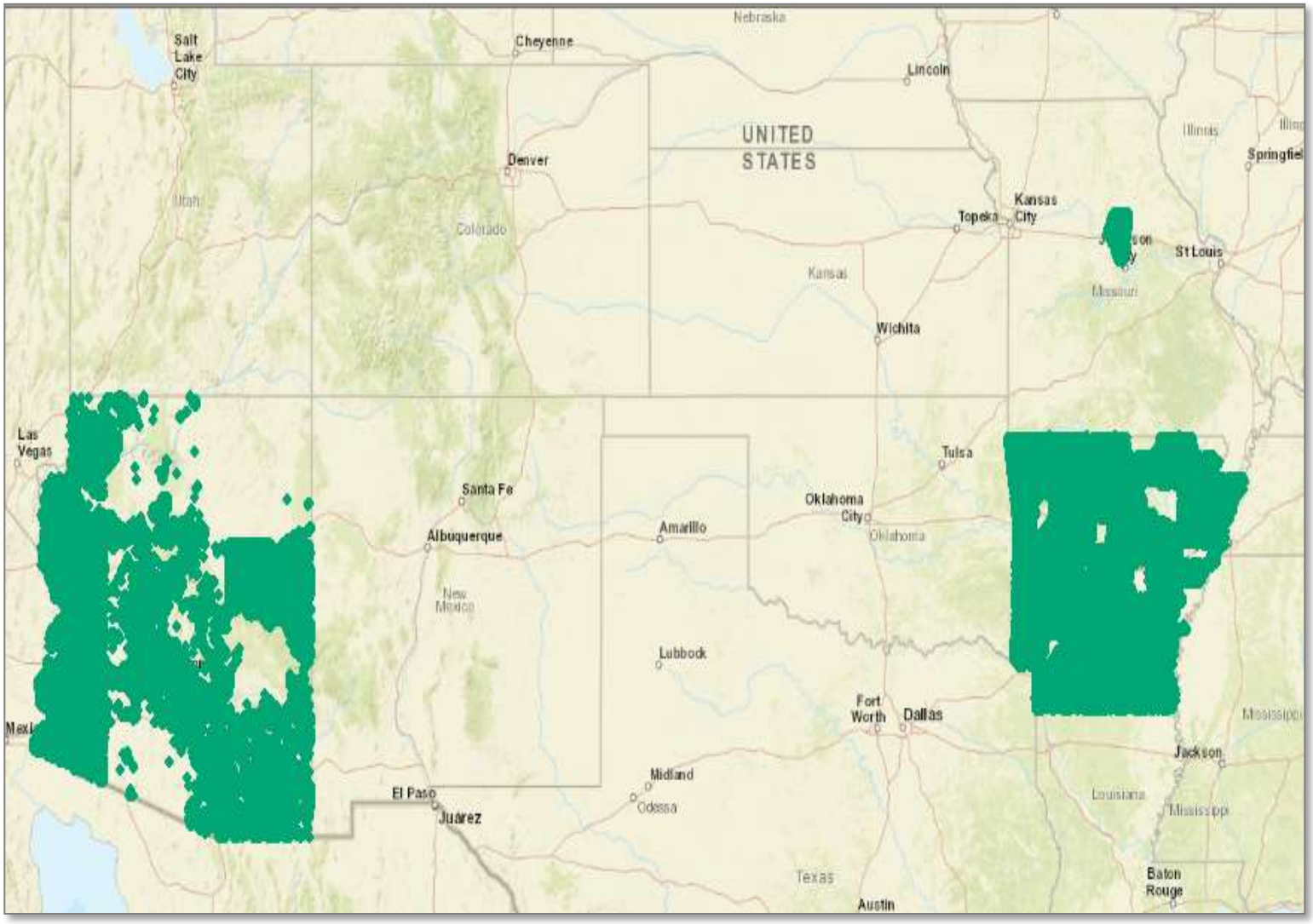
25+ Non-federal Partners

Partner
State of Arkansas
State of California
District of Columbia
Commonwealth of Massachusetts
State of Michigan
State of Minnesota
State of Montana
National Association of State 911 Administrators
State of New Jersey

Partner
State of North Carolina
State of New Hampshire
National States Geographic Information Council
State of Oregon
Oakland County, Michigan
City of Philadelphia
Urban and Regional Information Systems Association
State of Vermont
Washington Metropolitan Area Transit Authority

NAD Update

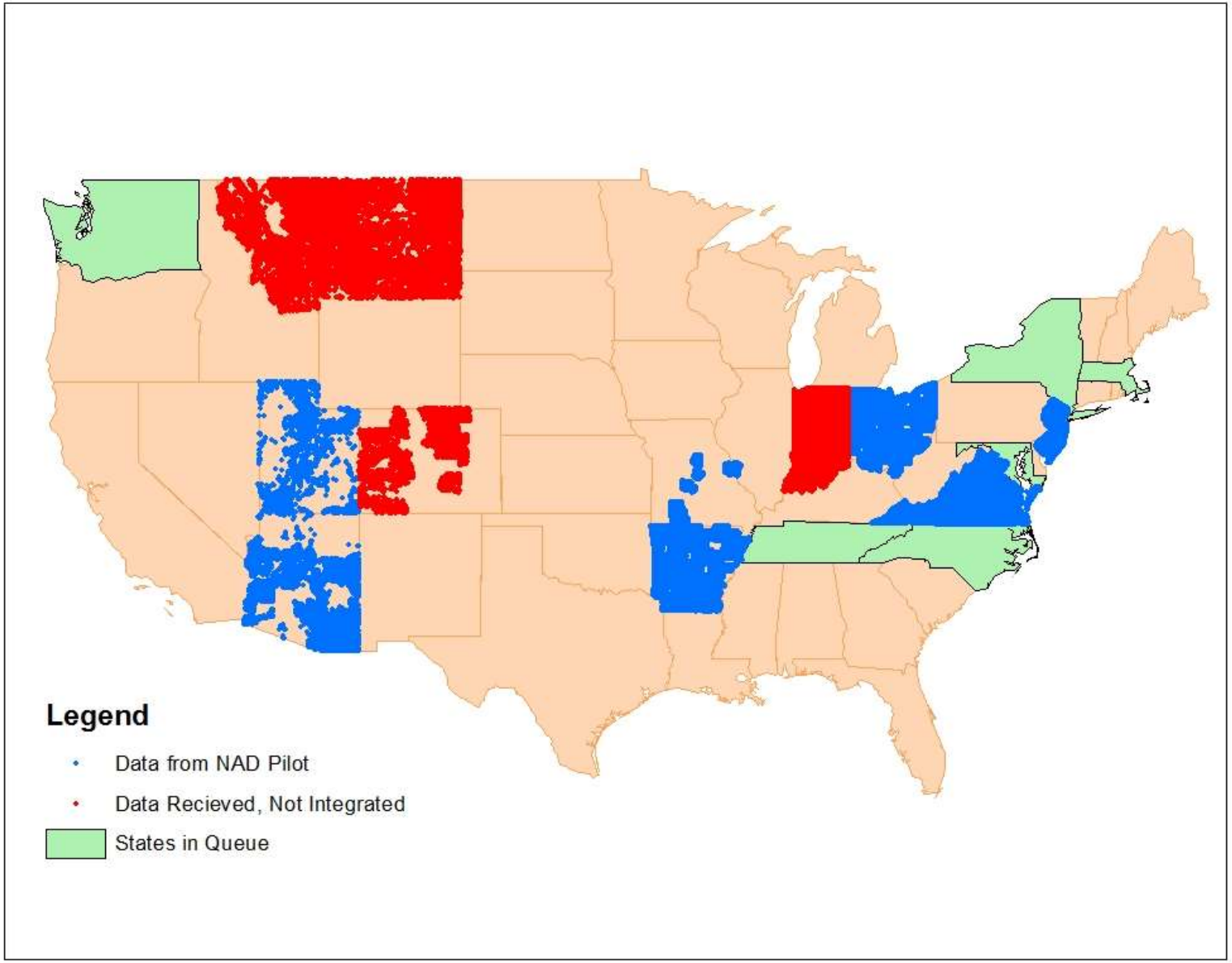
Pilot Participants Compiled Into NAD Schema



Coalition of the Willing

- Since the release of the minimum content guidelines and schema, 15 additional address programs volunteered to develop their own ETLs
  - District of Columbia
  - New Jersey
  - Ohio
  - Utah
  - Virginia
  - 9 additional counties and 1 city from Missouri (Locals Helping Locals)
- Recently received data from Colorado, Indiana and Montana (not yet loaded into NAD)
- Maryland, Massachusetts, New York, North Carolina, Tennessee, and Washington are in the queue
- Seeking other volunteers through NSGIC

22.3 Million Addresses



What's Next

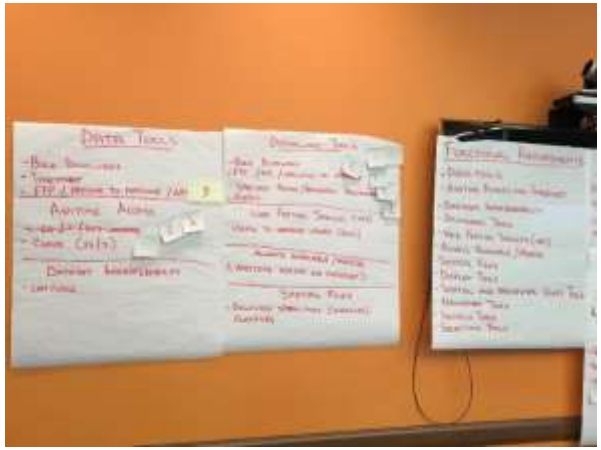
- Continue the Coalition of the Willing
- Choose platforms for development and production
- Identify funding for continued development
- Make the data available!

NAD Federal User Requirements Workshop

Workshop Process

- Pre-workshop questionnaire
  - Content
  - Metadata
  - Functional

- Presentations
  - Address theme management and NAD background
  - Results from the questionnaire
- Breakout sessions
  - Review questionnaire results
  - Add requirements if necessary
  - Prioritize requirements
- Summary of breakout sessions



Content Requirements

- Key take-away points
  - Federal agencies identified additional requirements
  - NAD Pilot minimum content met the needs of many Federal agencies
- Top five additional content requirements
  - Alternate street names
  - Unit type
  - Postal City/State abbreviation
  - Multi-unit structure flag
  - Geocode confidence and accuracy

Metadata Requirements

- Key take-away
  - Top three needs are essential, remaining are desirable
- Top five metadata requirements
  - Address coordinate reference system
  - Coordinate reference system authority
  - Indicator of quality
  - Unique IDs
  - Address lifecycle

Functional Requirements

- Key take-away points
  - Bulk download serves 90% of agencies needs
  - Functionality beyond tools on Geospatial Platform would be useful
- Top five functional requirements
  - Feedback mechanisms
    - Error correction
    - Functionality development
  - Download tools such as subset download, queuing
  - Anytime access via cloud
  - Batch geocoding service
  - Ability to feed updates to classified systems

Additional Workshop Topics

- Overall workflow
  - Maintenance
- Quality
- Unique IDs
- Linkages to other datasets
  - Infrastructure points (manholes, fire hydrants)
  - Building footprints, parcels, etc.

Next Steps

- Produce report of workshop findings with recommendations

- Continue discussions on NAD and address topics at monthly Address Subcommittee meetings

NAD Challenges

- Resources needed to host the Pilot NAD
- Currently no funding for NAD development and support
- Need funding strategies for NAD development and support beginning in FY19

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Address Theme and NAD Team Contacts

Steve Lewis
steve.lewis@dot.gov
202-366-9223

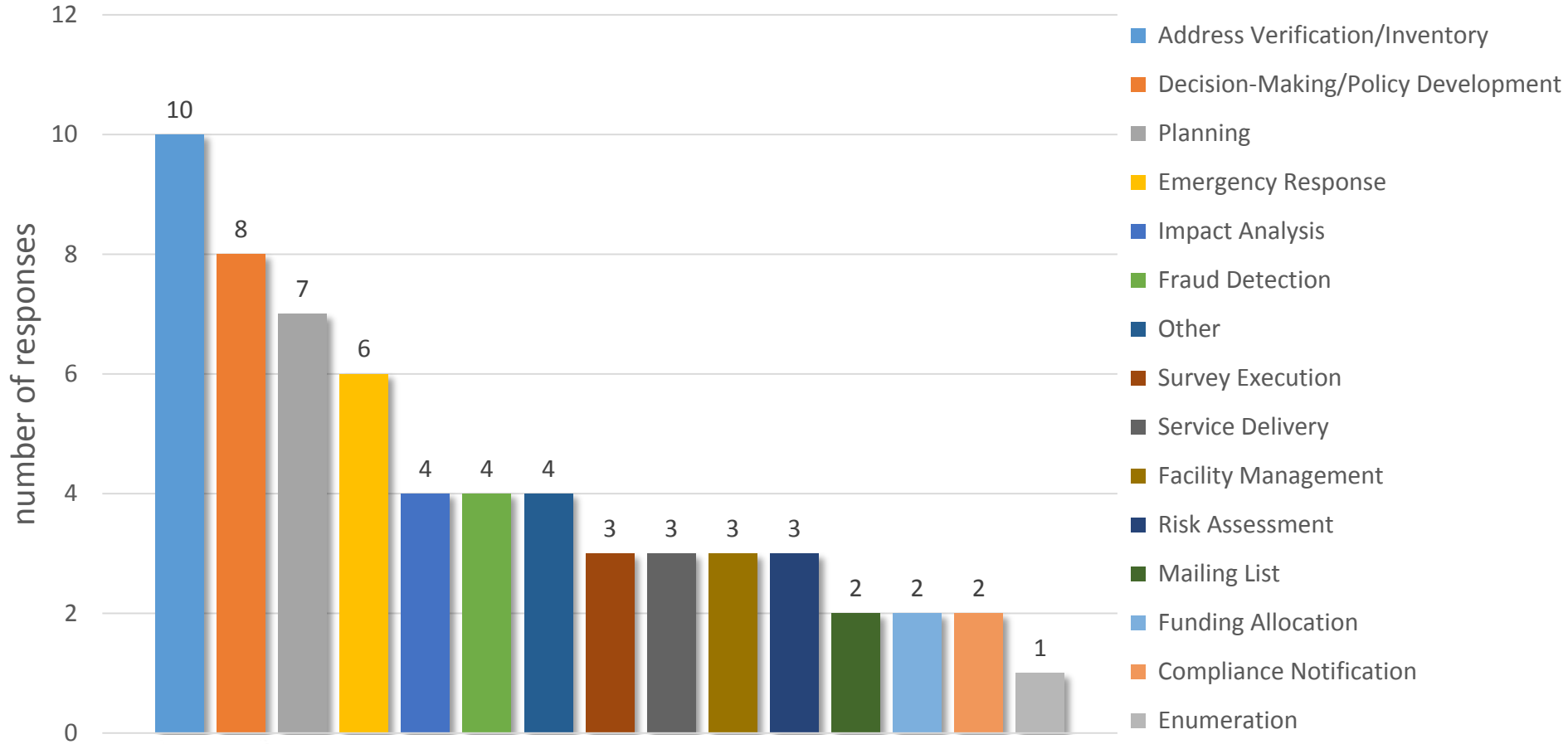
Lynda Liptrap
lynda.a.liptrap@census.gov
301-763-1058

Mark Lange
mark.lange@census.gov
301-763-2660

Matt Zimolzak
matthew.a.zimolzak@census.gov
301-763-9419

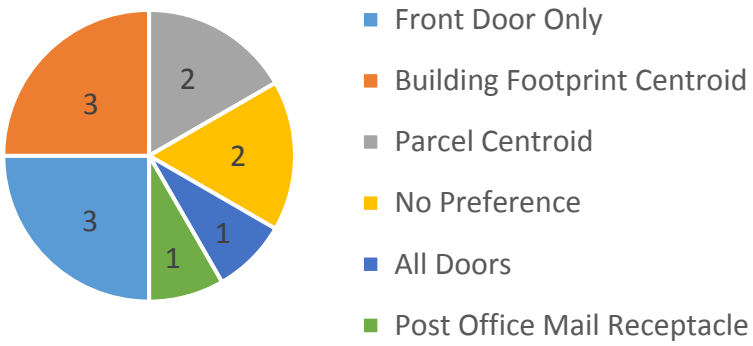
Pre-Workshop Questionnaire Preliminary Results

Federal Agency Uses for NAD

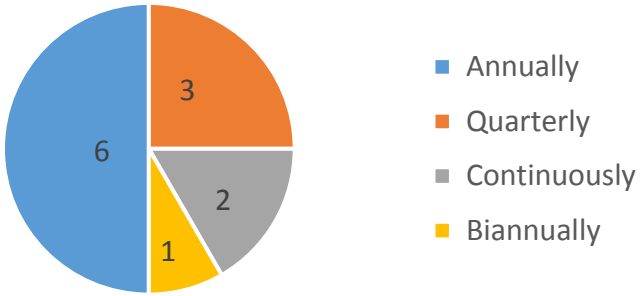


Examples of Pre-Workshop Responses

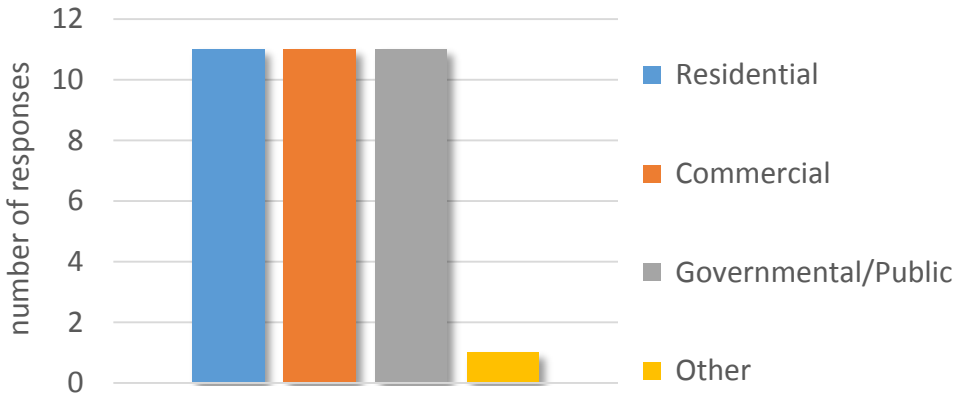
Address Point Location



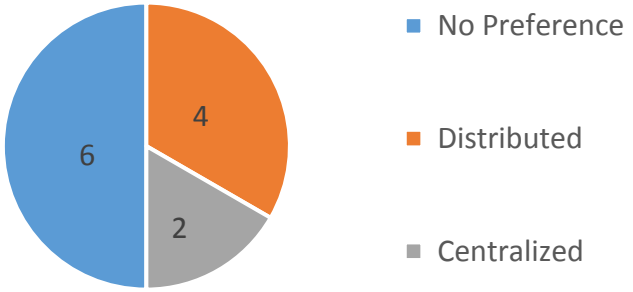
Update Frequency



Address Type



Data Management Model



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