Address Theme and National Address Database Update

Presented by
Steve Lewis, Department of Transportation
Tim Trainor, Census Bureau

March 22nd, 2017
Topics

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

- **2012**
  - Census Bureau
  - Community Addressing Conference
- **2013**
  - NGAC Report
  - The Need for a National Address Database
- **2014**
  - NGAC Report
  - National Address Database Use Cases
  - NSGIC Issue Brief
  - A National Address Point Database Will Improve Government Services
- **2015**
  - National Address Database Summit
  - GAO Recommendation
  - “…create an address data theme with associated subcommittees and working groups to assist in furthering a national address database”
- **2016**
  - FGDC: Address Theme Established as NGDA
  - DOT Report: National Address Database Pilot Project Findings
  - URISA Memo
  - National Address Database
  - Support and Recommendations for the Proposed National Address Database
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
- Finalize Subcommittee Charter – in progress
- Establish Theme Community on the GeoPlatform – in progress
- Assess the DOT Pilot NAD Database
- Develop a Theme Strategic Plan
### Address Subcommittee

#### 16 Agency Subcommittee Members

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<thead>
<tr>
<th>Department/Agency</th>
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<tbody>
<tr>
<td>Census Bureau</td>
<td>Department of Labor</td>
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<td>Consumer Financial Protection Bureau</td>
<td>Department of Transportation</td>
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<td>Department of Education</td>
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<td>Office of Management and Budget</td>
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## Address Subcommittee

### 25+ Non-federal Partners

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<tr>
<td>State of Arkansas</td>
<td>State of North Carolina</td>
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<td>State of California</td>
<td>State of New Hampshire</td>
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<td>District of Columbia</td>
<td>National States Geographic Information Council</td>
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<td>Commonwealth of Massachusetts</td>
<td>State of Oregon</td>
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<td>State of Michigan</td>
<td>Oakland County, Michigan</td>
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<td>State of Minnesota</td>
<td>City of Philadelphia</td>
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<td>State of Montana</td>
<td>Urban and Regional Information Systems Association</td>
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<td>National Association of State 911 Administrators</td>
<td>State of Vermont</td>
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<td>State of New Jersey</td>
<td>Washington Metropolitan Area Transit Authority</td>
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NAD Update
First Step: The National Address Database Summit

- **Held April 8-9, 2015** at the Maritime Institute in Linthicum, MD
- **Funded** by DOT/Bureau of Transportation Statistics
- **Objective:** To identify and discuss possible options for developing a National Address Database (NAD)
- **Broad stakeholder** representation
  - Government (Federal, State, Local, and Tribal)
  - Private Sector
  - Non-Profits and Trade Organizations
How the NAD Would Work

“Vetted” Crowdsourcing

Data quality and error feedback

Federal

State 1

State 2

Local 1

Local 2

Local 3

Data flow

National geocoder
Pilot Launch October 2015

- Advisory Group Established – Key Stakeholders
- DOT Funded
- Goals
  - Explore workflows
  - Understand best practices for address roll-up
  - Compare Data Schemas
  - Determine minimum content guideline
  - Keep NAD in the public domain
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
Topics for Further Discussion

- 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
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