National Address Database

Finding the RIGHT Location

NSGIC’s Perspective
National States Geographic Information Council
Keep it Simple
Because It’s Really Important!

• Address Point = “Physical Address + XY”
• Touches All Primary Government Responsibilities:
  • Public Safety Response & Planning
  • Elections Management
  • Revenue Collection, Fair Taxation
  • Delivery and Optimization of Services
    • Efficiency, Fraud Prevention, Funding Formulas (Census), etc.
Address Points: What does success look like?
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Consensus Views

• **2012** NGAC Vision:
  • “The National Address Database is an authoritative and publicly available resource that provides accurate address location information to save lives, reduce costs, and improve service provision for public and private interest”

• **Summits: Broad Agreement from Stakeholders:**
  • Rollup the data from Local Authorities → States*/Tribal → National (*/also DC & territories)
  • Federal leadership and support is needed for there to be a sustainable national approach.
Addresses as an NGDA Theme!

• How was this ‘Off the Radar’?
  • Big Data & Geolytics are Newly Vogue
  • Only Matters at Local Level?
  • Developmental Focus of GIS on Land, Natural Resources applications
• Other Themes Satisfy Need?
  • Road Centerlines (address ranges)
  • Parcels (static physical + where to send the tax bill)
Addresses as a NGDA Theme!

• How was this ‘Off the Radar’? *(part 2)*

- Failure to Isolate, Open & Share Addresses
  - Often Unnecessarily Associated w/ Personal Information (Census MAF)
  - Bureaucratic Turf/Budgeting/Control
  - Undesirable Data Quality ??? (Ewwwwhhh!)

- Competition for Attention:
  - Parsing Standards for Addresses
  - Metadata Difficulties
  - The (Undercapitalized) National Map
  - Landsat, IFTN, etc.
  - Legacy Systems (911’s MSAG & ALI), etc

National Geospatial Advisory Committee (NGAC) Meeting – April 6-7, 2016
FGDC Steering Committee Agenda (*this week*)

- Draft Minimum NAD Content Standards (v.8)
- USDOT Report of NAD Pilot Projects, Call for Identification of a Theme Lead
  - Census Bureau: Decennial Census
  - DHS- FEMA: Disaster Response/Remediation
  - USDOT: National 911 Program Office
- Census Self- Recommends To Be Theme Lead
A True Enterprise Asset

• Addresses are relevant to each of the existing data themes

• The benefit of establishing a new theme will be to:
  • eliminate duplication of effort,
  • facilitate production and use of address data,
  • reduce operating costs, and
  • improve services and enable decision-making

• Addresses are used or produced by most agencies and organizations and form a critical base for the NSDI
Who is NSGIC Anyway?

• Nonprofit Association of State GIS Coordination Offices, and State GIS Councils
• GIS Technical and Policy Exchange
• Advocate for Enterprise-wide Geospatial Policy
  • “Collect it once, use it a bunch”
  • Across levels of public sector
  • *To include* authoritative data sourcing and wise utilization of commercial sector expertise & resources
  • *For The Nation* (*FTN*) Advocacy Initiatives: Imagery, Transportation, Cadastral, and Address Data
• States creating Spatial Data Infrastructure
The RIGHT Location for the NAD - Theme Lead(s)

- NSGIC: Job Description for the Ideal Candidate
  - Not Agency Specific
  - Requirements and Recommendations:
    - Responsibilities, Positioning Factors
    - NAD Data Content: Key Factors

- The NAD Should Aim for Expedient Success By…
  - Defining and Crossing a Finish Line
  - Maximizing Participation
  - Realizing a Compelling ROI
  - Run Don’t Walk
NSGIC Recommendations for Theme Lead(s) – (detailed in paper)

• Project Plans Required
• *Addresses Locations are Public Info*
• Accessible – Data & Shared Web Services
• Sustainable, At Least Annual Updates
• Outreach and Coordination
• Flexible Options for Contracting and Funding
• *Focus on Physical Addresses – Mailing Addresses Later*
• Synergy with Other Efforts like ARNOLD Road Centerlines
• ALL Addresses – Residential, Commercial, Campus, Landmarks
• Engage ALL STAKEHOLDERS
Mailing Addresses: A Future Phase?

• The relationship between non-mailable physical addresses and their corresponding mailable addresses is complex.

• Where different, mailing addresses are more often dynamically linked to people & organizations, not to static physical locations. And, often, any the link is based on preferences indicated by the intended recipient (property owner, voter, client, etc.).

• The relationship between physical and mailing addresses, where different, is best understood by mail and parcel delivery services, but this is proprietary and not known to be comprehensive.
NSGIC Recommendations
Data Content and Functionality – (detailed in paper)

• Minimum Content
• Submission Flexibility
• Data Content for Implementation
  • Submission Options
  • Unique IDs
  • Full Revision History
  • Point Placement Options
  • Phase in Locational Precision (z, subunits)
  • Record Level Metainfo on Data Sourcing
  • Feedback Loop to Connect Stewards & Users
  • Progress Metrics
NSGIC **Recommendations:**

- Make the Decision NOW - add Addresses as an NGDA Theme.
- Select an Agency Theme Lead(s) by evaluating the factors that are most likely to lead to **quick, lasting success:**
  - Alignment with Public Safety (Highest Order Use Case)
  - Find away to Harness Expertise & Programmatic Connection
  - Funding, Executive Support, & Sustainability
  - Organizational Agility
    - Navigate Real and Perceived Constraints
- Give Consideration to Census, DHS and USDOT as potential Lead(s)
- But, Be Creative:
  - Also consider a Partnership, a Neutral Party, the larger Open Data space, etc.