Utah’s State Geographic Information Database:

Address Point Activities

Bert Granberg
NGAC Meeting, September 19, 2012
About AGRC

• Mission:
  – “Encouraging and facilitating the effective use of geospatial information and technology for Utah”

• Activities:
  – Geographic Data
    – State Geographic Information Database (SGID)
  – Infrastructure for:
    • Data and Imagery Acquisition, Sharing, Distribution
    • Map-based web applications and services
    • GPS base station network
  – Coordination of geospatial activities/resources among local government, state & federal agencies geospatial for enhanced ROI
Local Data Stewards → SGID → Broader Data Users
Utah's Enterprise GIS Approach

- Serve many users
- Create once, used by many

State Users of SGID Road Centerline and Address data/services:

- Public Safety
- UDOT
- Tax Commission
- Elections Office
- Environmental Quality
- Natural Resources
- Commerce
- Public Service Commission
Address Points

Building Statewide Address Points

500000 + points
- 11 (of 29) complete counties
- 3 partial counties

Statewide Geocoding Services

- Address Pts used by Statewide and PSAP based geocoding services. Also,
  - 811
  - Mobile Phone Sales Tax
  - Voter Registration DB
  - One Stop Business Registration
  - Accidents & Citations

Maintaining Statewide Address Points

PSAPs, Cnty GIS

Feedback Loops:
- Clerks
- Integrated Map & Web Services
- Web Service Δ Reports
- Report a Problem

Address Point Standards

- Addressing Stnrd → Data Model
- Address Ref Sys
- Tiered
- Keep it Simple
Address Points Are Multi-Dimensional

- Street or streetside service (accidents, trash pickup, etc)
- Entrances (building entrances, rural driveways)
- Site Address (structure, named facility points)
- Postal Address (mail, database integration)
- Sub Addresses
- Elevation/Floor/Room (urban structures)

Be strategic. But not to point of excessive delay...the approaches above all improve on range-based centerlines....80/20 rule as starting place?
NextGen 9-1-1 concepts

“Networked”

“GIS”

& “Networked GIS”

- Regional Call-Taking/Dispatch
- Mutual Assistance
- Shared Hosting
- Mobile Command
- Collaborative GIS Editing
County Address Point Grants

- NTIA State Broadband Initiative funding
- ~ $15K per county

Deliverables:
- County-designated contact
- Web-based Master Address List
  - To world
  - To 9-1-1
  - Down the Hall
    - Google Spreadsheet
    - FTP Shapefile, GDB, CSV
    - Web Service

- House Number
- Prefix Direction
- Street Name
- Street Type or Suffix Dir
- SubUnit (optional)
- Address System Name
- X Coordinate
- Y Coordinate
- UpdateDate
Google SS: Low tech barrier

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```
Paradigm Shift?
Paradigm Shift?

Less Data Containers –

Same Local Expertise, But More Connected, More Standard, More Current Large Area Data Resource
• Who should be able to view address point data and suggest improvements?
• How many 'trusted' editors should be allowed to actively make changes?
Feedback: App-Embedded Maps
County Clerks improve voter address points

4155 S Cecil

GIS Issues:

```
{  
gis_issues_id: 203084923  
type: "Coordinate Change"  
whn: "/Date(1314199422000)/"  
X: -1  
Y: -1  
reporter: "Wendy Hurd"  
address: "3863 N 3800 W"  
city: "Benson"  
zip: "84335"  
residence_id: 21528804  
status: "Open"  
county_id: 3  
resolved_by: null  
received_date: "/Date(-621355716000000)/"  
to_X: 422972.35  
to_Y: 4628294.61  
description: null
}
```
More detailed info & examples:

- [http://goo.gl/jKakl](http://goo.gl/jKakl)

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