What we are working on.

Bert Granberg
March 2015 NGAC Meeting

The State of Utah’s Map Technology Office
- Since 1984 -
Utah’s State Geographic Information Database

Supporting NextGen 9.1.1: Statewide GIS Map Layers

Mapping Apps, Analysis & Web Services

News & Coordination Across Organizations

TURN GPS Network for High Precision Measurement
Defining/Formalizing Logical Roles/Responsibilities...

- gData Integration & QC & Feedback
- Platform
- Coordination
- Mentoring
- Large Area
  - Data Collection: Imagery Elevation, Wx
  - Services, Apps
- Other Contracting

State Local

- Local and Frequent gData Collection
  - Parcels, Roads, Addresses, Boundaries
- Support to Local Govt & Services
Defining/Formalizing Logical Roles/Responsibilities...

- gData Integration & QC & Feedback
- Platform
- Coordination
- Mentoring
- Large Area
  - Data Collection: Imagery Elevation, Wx
  - Services, Apps
- Other Contracting

STATE

- Local and Frequent gData Collection
  - Parcels, Roads, Addresses, Boundaries
- Support to Local Govt & Services

LOCAL
Defining/Formalizing Logical Roles/Responsibilities...

- gData Integration & QC & Feedback
- Platform
- Coordination
- Mentoring
- Large Area
  - Data Collection: Imagery Elevation, Wx
  - Services, Apps
- Other Contracting

STATE

LOCAL

- Local and Frequent gData Collection
  - Parcels, Roads, Addresses, Boundaries
- Support to Local Govt & Services
In-/Out- Reach...

for each

Layer Theme:

Current

Goal

Supporting NextGen 9-1-1: Statewide GIS Map Layers

Coordinated state and local government GIS efforts are positioning Utah as a lead state in implementing Next Generation (NG) 9-1-1 services. The NG platform replaces legacy telephone-address tables with modern GIS-based location resources.

In NG 9-1-1, GIS data will determine and verify the location of all calls, route calls to the correct Center (PSAP), and provide call-takers and dispatchers with robust map views. Data quality, completeness, and updates, will become even more critical to public safety.

Road Centerlines with Street Addresses Aliases
Highway System: Mileposting and Exits
High Resolution Aerial Photography
Address Points & Assignment Areas
Cell Tower Antenna Sectors
Railroad Centerlines & Mileposts
Lakes and Streams
Common place points (official & other)
Municipal and County Boundaries
Unincorporated Areas
Neighborhoods/Subdivisions
Parks and Campuses
Composite Base Maps
Other: Schools, retail, gov offices, recreation sites
9-1-1 PSAP Boundaries
Emergency Response Service Boundaries
Non-Emergency Service Boundaries
GIS Data Maintenance Responsibilities

prepared for the by UTAH 911 COMMITTEE UTAH AGRC

Feb 2015 Status
NG911 Goal
Maps on the Hill 2015

Dec 5, 2014

Maps on the Hill, supported by the Utah Geographic Information Council (UGIC) and AGRC, will be held on January 28, 2015. This event, in its fourth year, is a good opportunity for students and professionals to share maps, mapping tools, and mapping projects with elected officials, fellow practitioners, and the public.

Who should participate:
Individuals: Anybody who makes a map through their work or education.
Organizations: An organization that has worked on multiple mapping projects.

Maps on the Hill Event:
The map display event will be held the first Wednesday of the 2015 Legislative session, in the Capitol Rotunda from 10:30 am - 1:30 pm, with set-up time beginning at 9:30am. We request that at least one participant is present to discuss each map entry throughout the display event.

Display Types:
You can present hardcopy maps, interactive digital maps (you’ll need to provide a means to show it on a computer), or both.
The focus of the event is interesting maps or map technology projects that are applicable to a wide audience. While displays can be on any appropriate topic, presentations that may be of interest to decision makers are strongly encouraged. Marketing of specific product and services is discouraged.
80 Pages Map Gallery Book
- User Submitted Directly to GDoc (Slides)
- Most of Exhibitors Submitted 1 or 2 Page Printed Copies to Legislators, Key Staffers

Understanding Water Use

Geographic water data help us understand who, what, where, when, why, and how public datasets can help us recognize trends, patterns, and behaviors in water use, especially when coupled with geography.

Quick Facts:
- U.S. average flow since 1846
- Utah withdraws 5 billion gallons per day
- Utah ranks 2nd in highest domestic use (interior and outdoor)
- Utah's largest use: agricultural irrigation (75-80%)
- Next largest: public supply (15-20%)

Utah's Sage Grouse Management Areas (SGMA's)
Protecting and Improving High Quality Habitat

The State of Utah is working to eliminate threats facing sage-grouse populations while balancing the economic and social needs of the residents of Utah. These actions are necessary to help negate the need for the listing of the species under the provisions of the federal Endangered Species Act (ESA). The U.S. Fish and Wildlife Service (FWS) is bound by a court decree to make a final decision by the end of 2015.
UMIP. Steering Committee Identified Priorities

Align with Governor’s SUCCESS Initiative (25%)
DEQ, DNR, UDOT, State Lands, AG, SHPO…
  ● and then….DPS, EcDev, Workforce, MPO’s, Counties, etc

1. High Resolution Aerial Photography
2. Live Data Sharing via Map Services
3. State Stewardship of the PLSS
   a. Integration with Public Lands Boundaries
4. Mobile Field Platform Collaboration
PURPOSE
The Utah Mapping & Information Partnership (UMIP) is a collaborative project between 14 state agencies, local governments, and other public-sector partners to provide:
- High-resolution statewide mapping imagery
- Information sharing where data from UMIP partners can be viewed as layers in a single, map-based system to support improved management, communication, and decision making

BENEFITS
Quality of mapping imagery
- Imagery will have 43 times greater resolution of what is currently available through State applications and will match quality of private sector applications (e.g. Google Earth)
- High-resolution imagery and improvements to the Public Lands Survey System will greatly improve the foundation on which other public-sector mapping applications are built

Public data in a single portal
- Public data currently held by multiple agencies will be viewed as layers in a single, map-based application facilitating better and faster decision-making processes for business, local government, and state government
- UMIP will improve the flow of data to ensure information gets where it is needed

EXAMPLE
To drill a new oil or gas well in Utah, a business must consider a number of important public issues managed by various agencies:
- Dept. of Environmental Quality -> Air quality, water quality, hazardous waste, environmental remediation
- Dept. of Natural Resources -> Division of Oil, Gas & Mining permitting, endangered species, water resources
- Trust Lands Administration (SITLA) -> State land holdings, split-estate leases
- Dept. of Transportation -> Rights-of-way, transportation corridors and infrastructure
- Dept. of Agriculture & Food -> Farming/grazing impacts, conservation of agricultural lands
- Dept. of Heritage & Arts -> Cultural resource protection, State Historic Preservation Office
- Local Government -> Private property, taxes, zoning

High-resolution imagery and data sharing from UMIP partners will help businesses efficiently identify location-based risks, facilitating decision making and allowing for decreased time in moving from planning, to permitting, to production

UMIP will also greatly enhance the tools available to state agencies, local governments, and other public-sector partners to provide quality service and oversight, facilitating private investment while protecting the environment and quality of life for Utah's citizens

STATEWIDE HIGH RESOLUTION MAP IMAGERY
39 INCH LOW RESOLUTION VS 6 INCH HIGH RESOLUTION
INFRASSTRUCTURE
TRANSPORTATION
WATER DELIVERY SYSTEMS
BUILDINGS AND VEGETATION
7 Executive Branch Departments
2 Independent State Agencies
2 Regional Government Agencies
3 Counties
NAIP 2009, 100 cm (39”), Statewide
electrical service upgraded
new tanks
new tanks
tank or stack?
new tanks
new tanks
electrical service upgraded
Google 2013/4, 15 cm (6”), Statewide Coverage
Utah Lt. Governor announces details of Mapping and Information Partnership
Utah Mapping Partnership Aims to Build Live Data-Sharing Framework

The Mapping and Information Partnership also is working to focus the state’s GIS solutions in important areas such as air-quality, transportation, and water supply and resources, to name a few.

BY JESSICA HUGHES / FEBRUARY 10, 2015

Evaporative ponds outside of Canyonlands National Park, Utah, pulled from the state’s new high-resolution aerial photography, which is more than 40 times more detailed than previous imagery programs, will help the state make better, faster decisions.

A new partnership in Utah is looking to take geospatial understanding to the next level.

With new high-resolution imagery, the 43-unity Utah Mapping and Information Partnership -- which consists of state, regional and local government organizations -- plans to share its digital maps throughout government and with the public. Last year, the partnership was formed to use geospatial data to improve the flow of data and decision-making in the state, and to save government time and money.

"The Utah Mapping and Information Partnership represents proactive government," said Wade Klos, GIS director for the Department of Natural Resources. Klos added that the partnership is also working to
Utah agencies partner to share high-resolution map information

By Katie McKellar
Deseret News
Published: Sunday, Feb. 1 2015 3:25 p.m. MST
Updated: Sunday, Feb. 1 2015 3:25 p.m. MST

New technology is available to Utah information that will facilitate decision-making and improve management across the state.

Matt Gade, Deseret News

Enlarge photo
Who Am I?
New Statewide 6” Aerial Photography On Its Way

Last month AGRC purchased a state, tribal, and local government license to Google’s statewide high resolution aerial photography (6” pixels) on behalf of a broad partnership of organizations. The Google high resolution aerial photography will provide a valuable and detailed view of Utah. AGRC staff are currently working to accept delivery of the imagery and web services from Google and expect to make the new service available in February.

To learn more about the acquisition in detail, and see frequently asked questions, click here.

‘Legacy’ SGID Image Server and ArcGIS Desktop 10.3

ArcGIS Desktop 10.3 users will no longer be able to connect to the legacy SGID Image Server. AGRC Recommends that all ArcGIS Desktop users access the aerial photography and scanned map data layers via a GIS server connection to AGRC’s mapserv.utah.gov server. For more information and instructions to connect via mapserv, click here.

Maps on the Hill 2015

The 4th annual UGIC Maps on the Hill event, held January 28th, and accompanying mapbook were unqualified successes. The event had over 40 displays with over 100 participants. Utah’s Lt. Governor Spencer J. Cox and Rep. Mike Mickell both spoke at a press event held during Maps on the Hill to highlight the new Utah Mapping and Information Partnership (UMIP) Read KSL’s story on UMIP and check out pictures from Maps on the Hill.

UGIC Conference Abstracts & Pre-Conference Training

The deadline to submit an abstract for UGIC 2015 is February 22, 2015. Also, pre-conference training is filling fast, so be sure to register for the conference early. For conference information, click here.

Utah Broadband Atlas

The Utah Broadband Project, a partnership since 2010 between the Public Service Commission, GOED, and AGRC as part of the NTIA State Broadband Initiative, just released its Utah Broadband Atlas. The atlas gives an detailed overview of the many facets of Utah’s broadband landscape. The atlas also summarizes the mapping and data resources compiled by the Utah Broadband Project, that are publicly available. Click here to learn more and view the atlas.

Mobile Drive Test Results

The Utah Broadband Project recently released maps and GIS data summarizing the 2011 and 2013 mobile drive test data collection points to road segments of near uniform size (0.5 miles). To see the maps and learn more about the unique approach to summarizing observations by road segments, click here.

GIS Around the Web

Google Street View Python Add-in for ArcMap: This add-in allows ArcMap users to click on a road and the Google Street View imagery for that location will appear in your default browser.

If you have a map or other item you'd like spotlighted in our newsletter, contact Jessie at pechmann@utah.gov

SGID Data Updates

Transportation: Roads, bus routes/stops
Recreation: Trails, Location: Address, System Quadrants

Boundaries: Zipcodes, County Parcels, Salt Lake, Utah, Washington, Davis

Bioscience: Watershed, Restoration, Society: Schools

UDOT: mileposts, routes, and reference points updated monthly, Land Ownership & DOGM Oil and Gas Resources are an updated weekly.

Calendar of Events

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<th>Feb 11</th>
<th>May 11-15</th>
<th>July 20-24</th>
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<tbody>
<tr>
<td>Salt Lake Users Group Meeting</td>
<td>UGIC/GeCo West Conference</td>
<td>ESRI User Conference</td>
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AGRC Newsletter January 2015

Overview  Activity  Links  Social  eCommerce360  Conversations  Analytics360

556 Recipients
List: gis.utah.gov Updates
Subject: AGRC Newsletter January 2015

Delivered: Mon, Feb 02, 2015 05:29
View Email · Download · Print · Share

51.8%  Click rate  23.2%
Open rate

List average  44.5%
Industry average (Government)  20.8%
List average  15.0%
Industry average (Government)  3.2%

279 Opened
125 Clicked
17 Bounced
1 Unsubscribed
**Location Summary Report**

1146 N 1300 W  
Provo, UT 84604  
Utah County

### BROADBAND

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### UTILITIES

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Natural gas service: Questar Gas ([https://www.questargas.com](https://www.questargas.com))

### TRANSPORTATION

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<td>&lt; 5 hours(s)</td>
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<td>Western Governors University</td>
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<td>Ogden Weber Arc</td>
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