Becky Hjelm, UDOT GIS Manager

Open Data for Transparency
UDOT Statistics

- Year Formed: 1909
- FTE: ~1,730
- Centerline Miles of Road: 5,875
- Bridges: 1,892
- Transit trips per year: 42.9 million
- Projects Under Construction: 135
- Project Budget: 760 million
MISSION: Innovating transportation solutions that strengthen Utah’s economy and enhance quality of life.

Zero Crashes, Injuries, Fatalities

Optimize Mobility

Preserve Infrastructure
How GIS supports strategic goals

1. Provide easy access to and visualization of relevant data for improved decision making and efficient use of taxpayer funds

2. Facilitate stakeholder communication

3. Support government transparency
Why Open Data?

- **Need:**
  - Transparency
  - Internal access to consistent data
  - ~90 public layers are managed by UDOT GIS

- **Past:**
  - UGATE Data Portal Catalog
    - Custom application maintained in-house
    - Unfiltered data in shapefile and KML formats only

- **Present:**
  - Esri’s Open Data Platform
Connecting Citizens and Businesses to Your Authoritative Data

Set up a public-facing website within minutes to share your open data. ArcGIS Open Data is an Esri hosted and managed solution that is included with ArcGIS Online.
Reason’s for Change

- Its free(-ish)!
  - Included with ArcGIS Online

- Its easy!
  - Connects to existing UPlan services

- It does more!
  - Greater out-of-the-box functionality
Benefits

- User friendly interface
- More download options
  - Shapefile, Spreadsheet, KML, and API
  - Tabular format supports ADA requirements
- Less development
- Supports transparency
- Widgets for site customization
- Data visibility through Esri’s Open Data site
Old Platform

Internal Data

For non-public, UDOT-only data please continue to use this page to search. Internal data is available for download in KML and Shapefile formats available through Open Data at this time.

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Download Layer Files

Layer: Bridges - X,Y Location

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<th>All Available Files</th>
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<tr>
<td>Type</td>
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data.udot.utah.gov
Logistics

- Configuring services
  - Group layer issues
  - Workflow changes
- How ArcGIS Online and Open Data relate
  - Single versus compiled services
    - Increased search returns for ArcGIS Online
- Site design and functional limitations
  - Widget versus custom design
Our Experience

- Relatively easy to set up, 6 months
- Typical new product growing pains
  - Occasionally does not work as advertised
    - Local architecture changes (upgrades, etc.) disrupt function
    - Frequent backend changes out of our control
  - Shapefile downloads are not in the service projection
  - Occasional data requests are filled manually
- Must maintain internal data portal for non-public layers
Positive Feedback

- User interface
  - Simple and intuitive
  - Filtering is convenient
- Tabular downloads are popular
- Flexible to the needs of UDOT, without development hours
- Increased transparency
- Esri has been supportive & responsive
The Future of Open Data

- UGATE 2.0 Data Warehouse
  - Non-spatial data for download
  - One access point for UDOT data
- Statewide Open Data effort
  - Interagency data sharing
- UMIP
  - Utah Mapping and Information Partnership
- Connect ArcGIS Online to Open Data
  - Data links within pop-ups
- Using the API’s
  - Custom application development
Thank You!

Questions

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