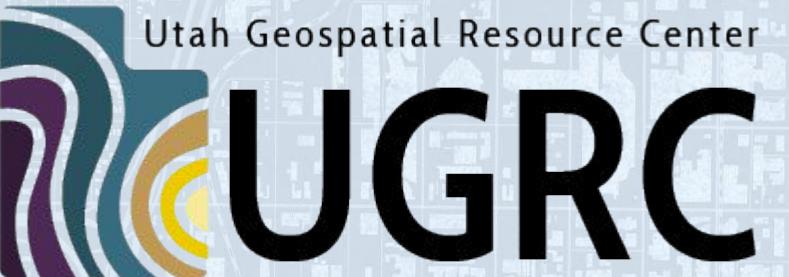


# A Showcase of Utah's Apps, Maps, and Services

A high-level tour of our portfolio



Presented by Greg Bunce

# Wheel of Fortune

[utah.maps.arcgis.com](http://utah.maps.arcgis.com)

**Database**  
PostgreSQL  
+PostGIS

[opensgid.agrc.utah.gov](http://opensgid.agrc.utah.gov)

**AGOL**  
hosted feature services

**UGRC**  
website

data pages  
& index

[gis.utah.gov](http://gis.utah.gov)

[opendata.gis.utah.gov](http://opendata.gis.utah.gov)

**Open  
Data**  
[opendata.gis.utah.gov](http://opendata.gis.utah.gov)

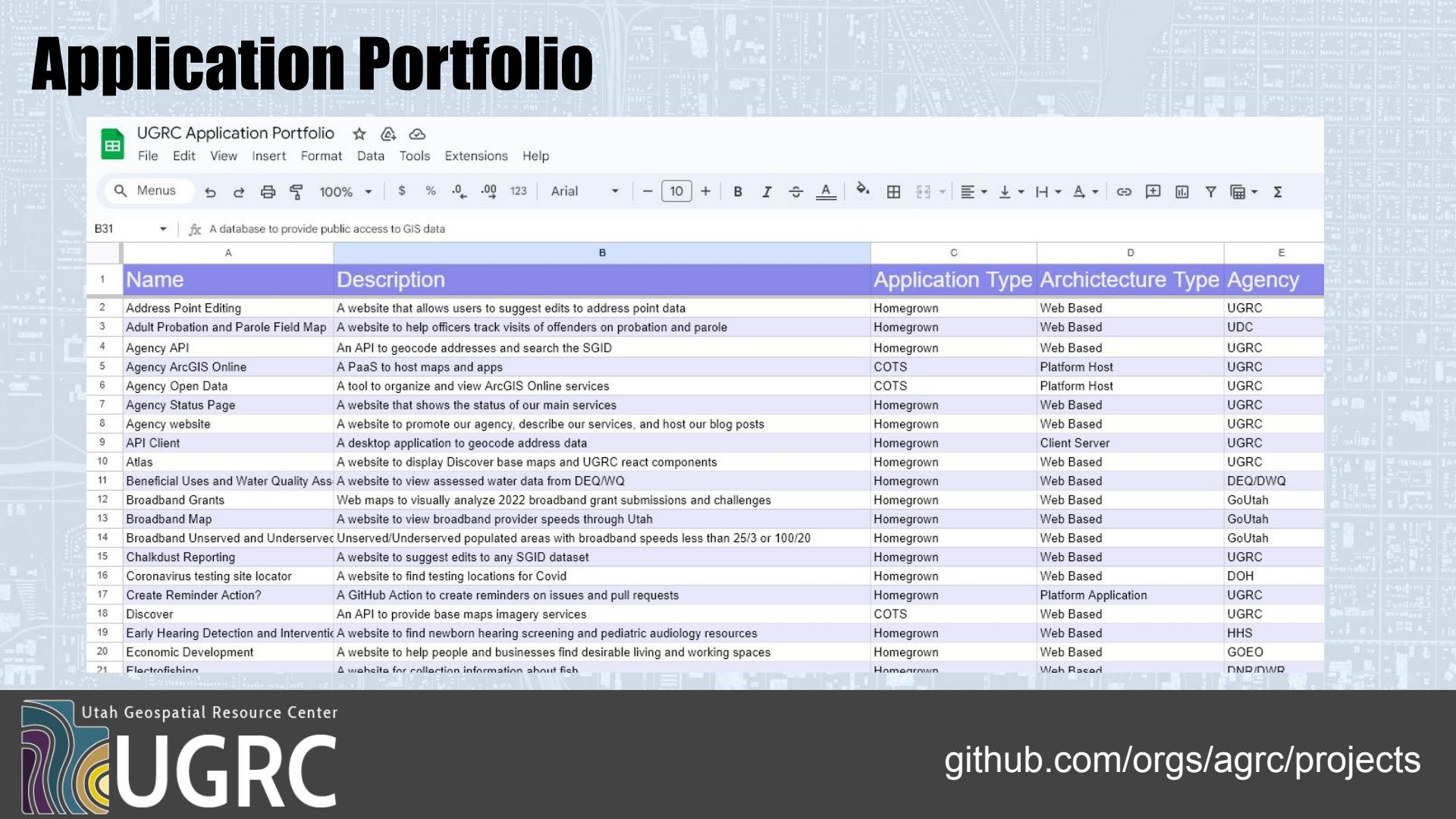
**Web API**  
http service for  
geocoding and  
search

[api.mapserv.utah.gov](http://api.mapserv.utah.gov)

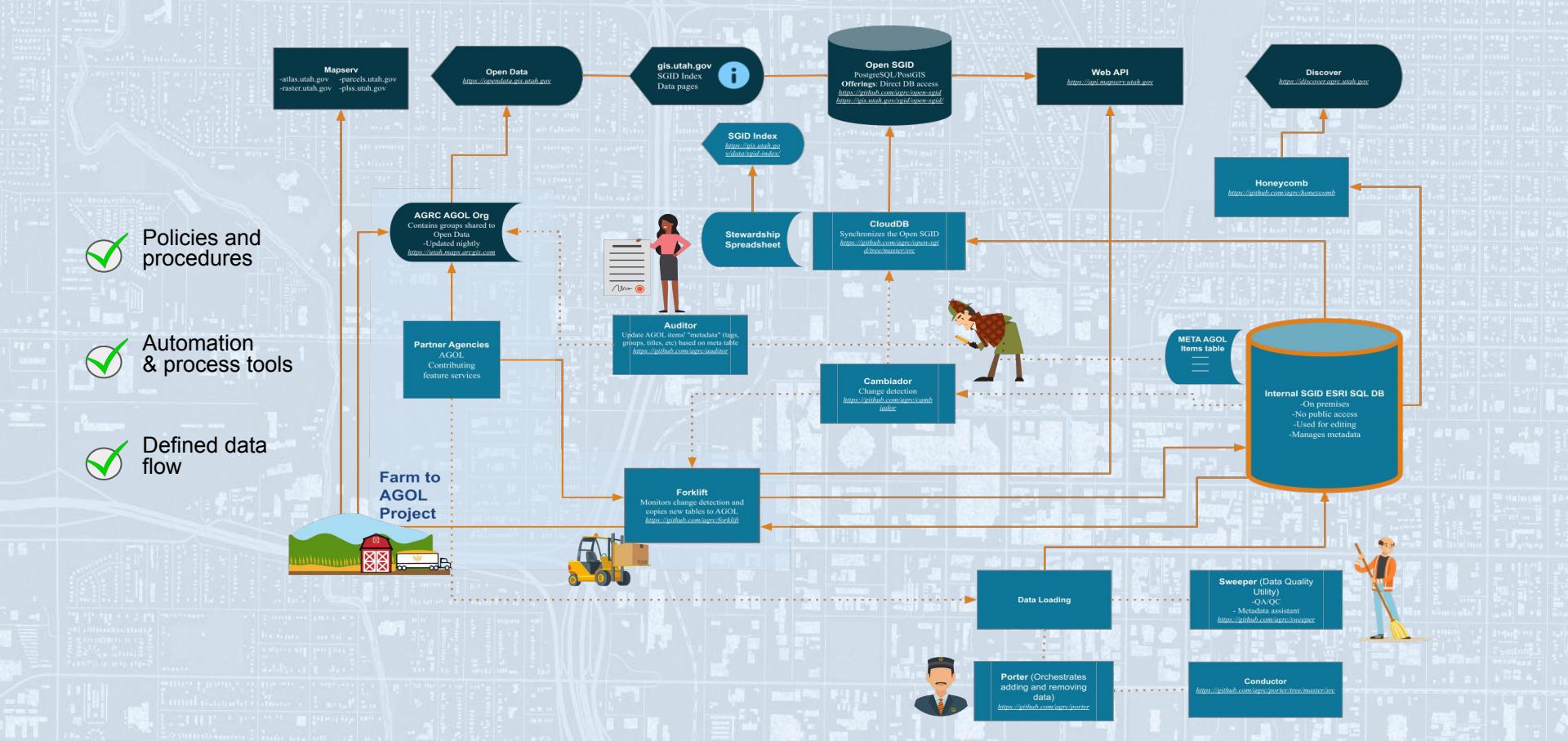
**Discover**  
basemaps, imagery, web  
app

[gis.utah.gov/discover](http://gis.utah.gov/discover)

# Application Portfolio



UGRC Application Portfolio					
	Name	Description	Application Type	Architecture Type	Agency
2	Address Point Editing	A website that allows users to suggest edits to address point data	Homegrown	Web Based	UGRC
3	Adult Probation and Parole Field Map	A website to help officers track visits of offenders on probation and parole	Homegrown	Web Based	UDC
4	Agency API	An API to geocode addresses and search the SGID	Homegrown	Web Based	UGRC
5	Agency ArcGIS Online	A PaaS to host maps and apps	COTS	Platform Host	UGRC
6	Agency Open Data	A tool to organize and view ArcGIS Online services	COTS	Platform Host	UGRC
7	Agency Status Page	A website that shows the status of our main services	Homegrown	Web Based	UGRC
8	Agency website	A website to promote our agency, describe our services, and host our blog posts	Homegrown	Web Based	UGRC
9	API Client	A desktop application to geocode address data	Homegrown	Client Server	UGRC
10	Atlas	A website to display Discover base maps and UGRC react components	Homegrown	Web Based	UGRC
11	Beneficial Uses and Water Quality Ass	A website to view assessed water data from DEQ/WQ	Homegrown	Web Based	DEQ/DWQ
12	Broadband Grants	Web maps to visually analyze 2022 broadband grant submissions and challenges	Homegrown	Web Based	GoUtah
13	Broadband Map	A website to view broadband provider speeds through Utah	Homegrown	Web Based	GoUtah
14	Broadband Unserved and Underserved	Unserved/Underserved populated areas with broadband speeds less than 25/3 or 100/20	Homegrown	Web Based	GoUtah
15	Chalkdust Reporting	A website to suggest edits to any SGID dataset	Homegrown	Web Based	UGRC
16	Coronavirus testing site locator	A website to find testing locations for Covid	Homegrown	Web Based	DOH
17	Create Reminder Action?	A GitHub Action to create reminders on issues and pull requests	Homegrown	Platform Application	UGRC
18	Discover	An API to provide base maps imagery services	COTS	Web Based	UGRC
19	Early Hearing Detection and Intervention	A website to find newborn hearing screening and pediatric audiology resources	Homegrown	Web Based	HHS
20	Economic Development	A website to help people and businesses find desirable living and working spaces	Homegrown	Web Based	GOEO
21	Electrofishing	A website for collecting information about fish	Homegrown	Web Based	DNR/DWR



# Highlight Reel



# Branding media page

## UGRC Logos and Usage



Utah Geospatial Resource Center

[Download high resolution logos](#)



Utah Geospatial Resource Center

[Download High resolution logos](#)



[Download high resolution logos](#)



[Download high resolution logos](#)



[Download high resolution logos](#)



[Download high resolution logos](#)



[Download high resolution logos](#)



[Download high resolution logos](#)



[Download high resolution logos](#)

### Do's

- Use these logos to advertise that your product (maps, apps, etc) was built with UGRC data and services
- Modify the size to fit your product

### Don'ts

- Modify the shape, colors, dimensions, or text of the logo
- Add your own text or images to the logo

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# Branding media page

## UGRC Logos and Usage



[Download high resolution logos](#)



[Download high resolution logos](#)



[Download high resolution logos](#)



[Download high resolution logos](#)



[Download high resolution logos](#)

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### Don'ts

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- Add your own text or images to the logo



our product (maps, apps, etc) was

### Don'ts

- Modify the shape, colors, dimensions, or text of the logo
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# Branding media page

## UGRC Logos and Usage



Utah Geospatial Resource Center

[Download high resolution logos](#)



Utah Geospatial Resource Center

[Download High resolution logos](#)



[Download high resolution logos](#)



[Download high resolution logos](#)



[Download high resolution logos](#)



Do's

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etc) was



on'ts

dimensions, or text of the logo  
ges to the logo

## GIS Map Data



Established in State law in 1991, Utah's State Geographic Information Database (SGID) provides one-stop download and web service access to hundreds of GIS map data layers developed, aggregated, or acquired by state government.



SGID aerial photography and base map services provide critical map context for GIS and CAD users, as well as web and mobile applications. Many vintages and themes are available, created from Utah GIS data resources.

## Utah Map Applications



UGRC's development team designs, builds, and hosts cutting edge map-based web applications, custom designed to best meet specific agency/program requirements. From [up-to-date Utah reference maps](#) to [custom designed web apps](#) that best put specific agency/program information at your fingertips.

## Geo APIs



Are you designing or coding an app or process that needs "Where is?" or "What's At?" answers? Geocoding and point-in-polygon map queries are available via web APIs, from [api.mapserv.utah.gov](http://api.mapserv.utah.gov). Sign up for your complimentary account today!



The screenshot shows a GitHub repository page for the user 'agrc' with the repository name 'gis.utah.gov'. The page includes navigation links for 'Code', 'Issues' (with 6 notifications), and 'Pull requests' (with 3 notifications). Below the repository name, there is a link to 'gis.utah.gov' with the status 'Public'.

## VRS GPS Network

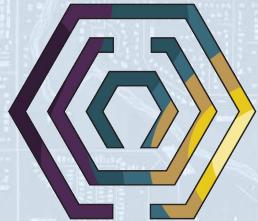


VRS (virtual-reference-station) GPS Network is the foundation for live, up-to-sub-centimeter precision GPS field surveying, mapping, and construction. We currently maintain two networks, TURN GPS, which covers Utah and surrounding areas, and Nevada GPS covering Washoe County Nevada.

## News, Events, & Coordination



Utah is widely recognized as a leader in the GIS field. Coordination, partnering and information sharing — in the form of news, events, tips, and data — fuel our collective success. [Sign up](#) for our newsletter to stay in touch!



# SGID

STATE GEOGRAPHIC  
INFORMATION DATASOURCE

Data clearinghouse

200+ layers

Goal

One-stop-shop  
search catalog

## Find Utah Authoritative Data

SGID - Connecting people with information

What are you looking...

Explore the SGID through data categories

Ba  
Basemaps

Bi  
Bioscience

Bo  
Boundaries

Ca  
Cadastral

EI

SGID Index

Show Filters

Simple Filter (matches text in individual columns with list.js)

address points

category	name	agency	description	service
basemap	Address Points	UGRC	A muted basemap great for overlaying data.	
location	Address Points	UGRC	Address points	

# Sweeper

The data cleaning service



- Addresses
  - Checks that addresses have minimum required parts and optionally normalizes them
- Duplicates
  - Checks for duplicate features
- Empties
  - Checks for empty geometries
- Metadata
  - Checks to make sure that the metadata meets the Basic SGID Metadata Requirements

# Auditor

- Audits AGOL Feature Service items

- Title
- Group
- Folder
- Metadata
- Shelved/static
- Thumbnail image
- Delete protection
- Export to different formats (Open Data)
- Authoritative



Utah County Boundaries

Overview Data

Edit thumbnail

This data set represents county boundaries.

Bo Boundaries

SGID

Add to Favorites

Edit

Description

This dataset reflects the most current version of Utah county boundaries plus modifications made to correct known issues along the Davis-Weber and Duchesne-Uintah county boundaries. (20111108) and boundary agreement (certified 20120612) between Juab and Millard Counties. And an adjustment between Morgan and Summit Counties (4/3/2013). Minor adjustments were made to align with the Newest PLSS GCDB layers from BLM (CadaNSDiv2), anywhere from 10 to 50 feet all in non-populated areas (7/18/2014). Minor adjustment between Davis and Weber County (20201105)

Data is current through Nov. 15, 2021; Population Figures from 2020 Census. Population Estimates are Null until we get a 2021 update.

Share

Counties

Polygon layer

Bo

Edit

Owner

Utah Automated Geographic Reference Center (AGRC)

Managed by:

UtahAGRC

Change owner

Folder

Boundaries

Move

Tags

SGID, Counties, Boundaries, UGRC

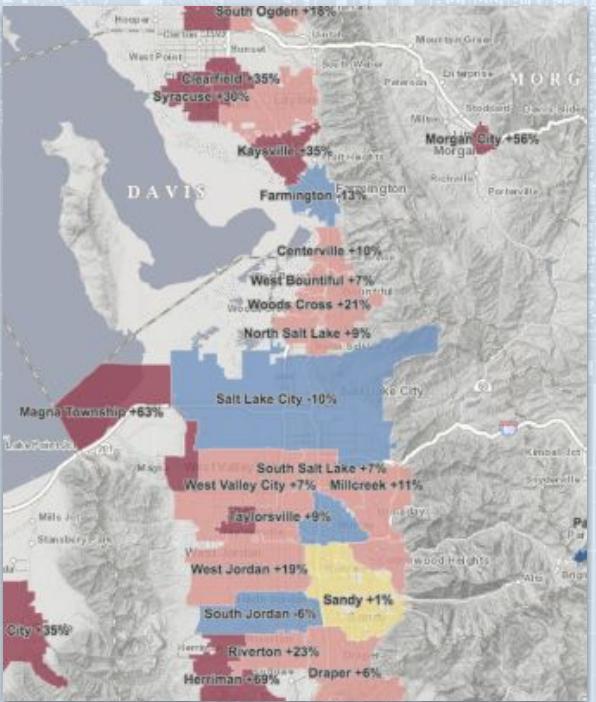
Edit



# Forklift

# Palletjack

Updates AGOL feature services  
with data from several different  
types of external sources.



# API Client

Desktop geocoding application  
No GIS required



## UGRC API

Let data take you places

1	address	zipcode	x	y	score	match_address
2	2987 S 6070 W	84128	-112.0358	40.7058	100	2987 S 6070 W, SALT LAKE CITY
3	223 W 300 N	84302	-112.0197	41.5167	100	223 W 300 N, BRIGHAM CITY
4	136 E SOUTH TEMPLE ST	84111	-111.8871	40.7691	100	136 E SOUTH TEMPLE ST, SALT LAKE CITY
5	618 E 1700 N	84414	-111.9617	41.2891	100	618 E 1700 N, OGDEN
6	2334 MONROE BLVD	84401	-111.959	41.2238	100	2334 MONROE BLVD, OGDEN
7	3439 S BARCELONA DR	84790	-113.5728	37.0506	100	3439 S BARCELONA DR, ST GEORGE
8	655 S 300 W	84720	-113.0663	37.6662	100	655 S 300 W, CEDAR CITY

The UGRC API requires 2 inputs to geocode. The first is a street address in the form of:

301	South	Main	Street
house number	prefix direction	street name	suffix direction

The second required input is a zone. A zone can be a zip code or a city name. If your data has both available, prefer the zip code. This data needs to be structured data in a CSV format with a header row.

DROP THE CSV FILE HERE

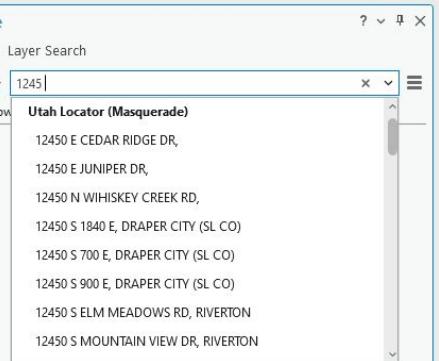
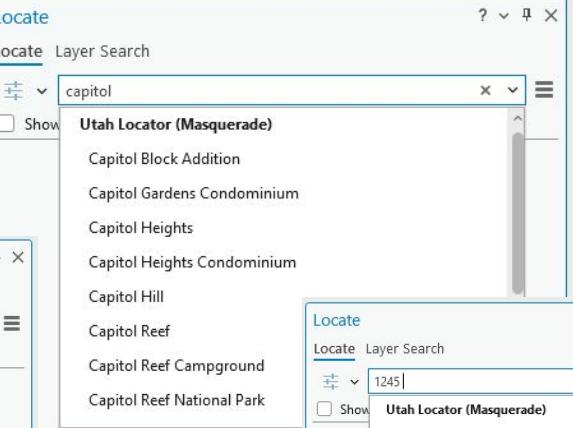
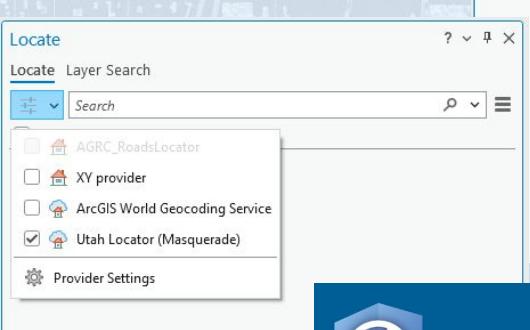
Choose your spatial reference

The way the coordinates are returned from the API can vary based on the spatial reference. They can be returned as meters, feet, or decimal degrees. Below are the three most used spatial references. If you require something different, please add the wkid.

- 26912**  
(42460211-43134916)  
UTM Zone 12 North  
(state standard)
- 4326**  
(-111.88, 40.78)  
WGS 84 (lat/lon)
- 3857**  
(-10454197.27, 497833.39)  
Web Mercator (web mapping)

# Masquerade

A proxy service that impersonates an Esri locator using UGRC data and web services.



# Atlas

## Atlas Utah

What's here?

Approximate Street Address  
9899 S Homestake Rd  
[Google Street View](#)

City

Alta

Zip Code

84092

County

SALT LAKE

UTM 12 NAD83 Coordinates  
448071.67, 4491387.97 meters

WGS84 Coordinates  
-111.6135, 40.57165

Elevation Meters  
2947.41

Elevation Feet  
9670

Land Administration Category  
Private



## Atlas Utah

5.4.8

Data and services provided by [UGRC](#).

Click a location on the map for more information

### Find Address

Street address

City or Zip code

Find

### Find Point of Interest

place name ...



### Find City

city name ...



Export Map

# Basemaps



Discover  
Utah's imagery and base map service



# Basemaps



Discover

Utah's imagery and base map service

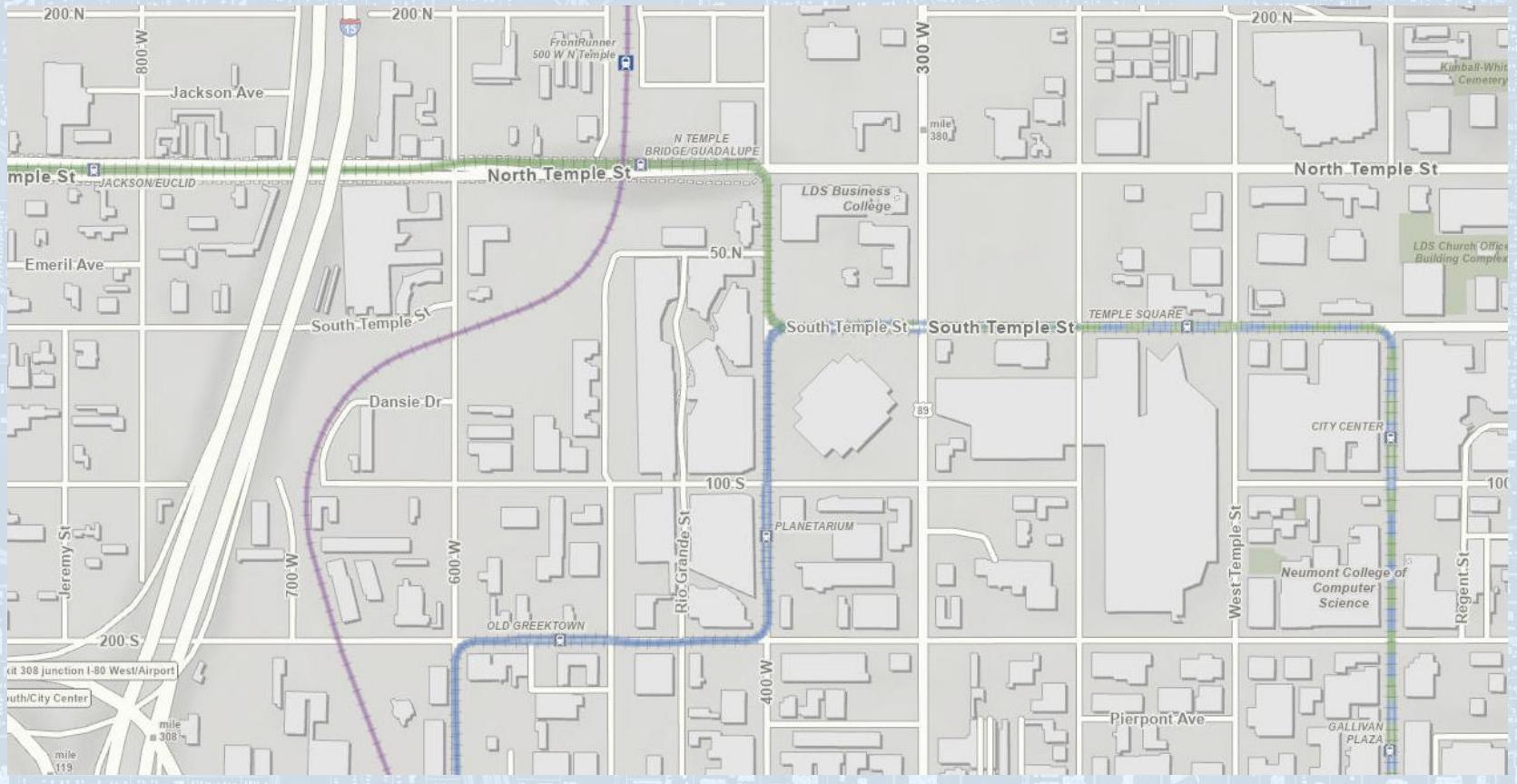


# Basemaps



Discover

Utah's imagery and base map service





#### Step 2 - Define Area of Interest

Find an address

Address

Zip or City

Find

Or draw on the map



You may use the tools above to draw interest on the map.



# UGRC Raster Data Discovery 2.3.5

#### Step 1 - Select Products

Please select the type of product(s) that you are looking for...

- Aerial Photography
- LiDAR DEMs
- USGS DEMs
- Auto-Correlated DEMs
- Contours
- USGS Topo Maps

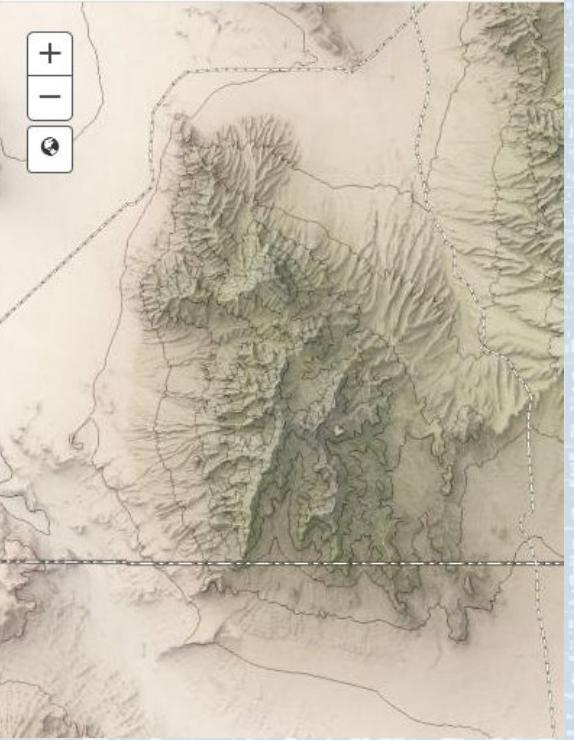
...then proceed to Step 2 below.

#### Step 2 - Define Area of Interest

#### Step 3 - Results

#### Step 4 - Download Data

[Help | UGRC Imagery Services Info](#)



# Locate Utah

## UTAH ECONOMIC DEVELOPMENT MAP

ABOUT

CONTACT US

Click on the map and Summary Report for detailed info about the current location.

Find Address

Econ Development

Utilities

Broadband

Transportation

Lifestyle



Governor's Office of Economic Opportunity

Utah.gov

## UTAH ECONOMIC DEVELOPMENT MAP

ABOUT

CONTACT US

Click on the map and Summary Report for detailed info about the current location.

Find Address

Econ Development

Tax Increment Areas

Enterprise Zones 2022

Qualified Opportunity Zones

Higher Education Schools

Workforce Services Centers

Business Resource Centers

Procurement Technical Assistance Centers

Utilities

Natural Gas Service Areas

Electric Utility Territory

Local Exchange Areas

Culinary Water

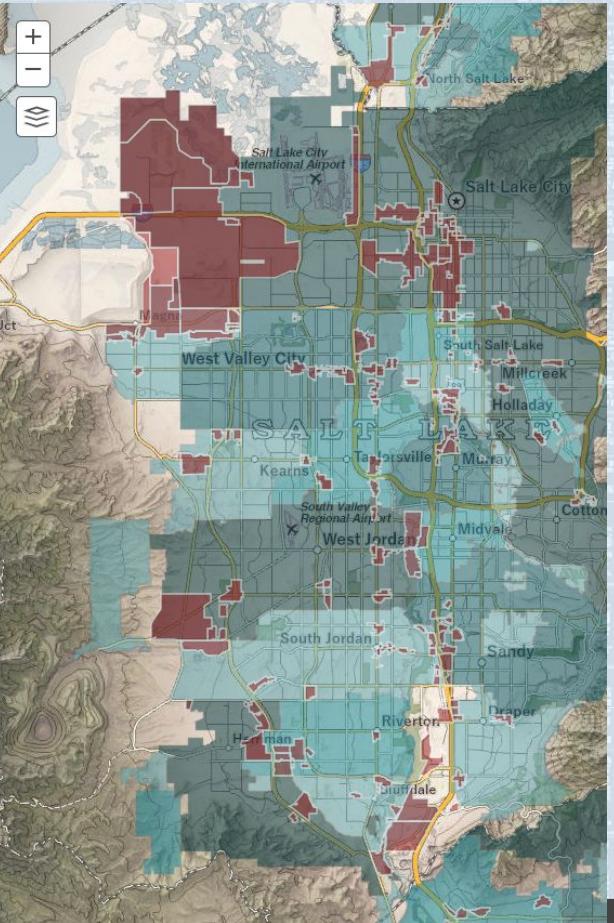
None

Broadband

Transportation

Freight Rail

Commuter Rail



locate.utah.gov

# Roadkill

The **Utah Roadkill Reporter** app is now available in the Google Play store and in Apple's App Store. With this free app, anyone can identify and submit locations where animals have been hit by vehicles on Utah's roads.



## App Store Preview



### Utah Roadkill Reporter 4+

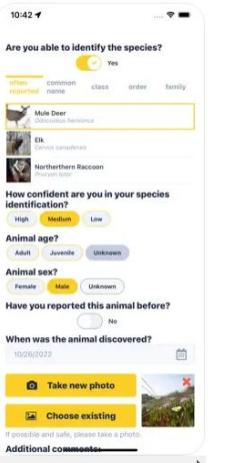
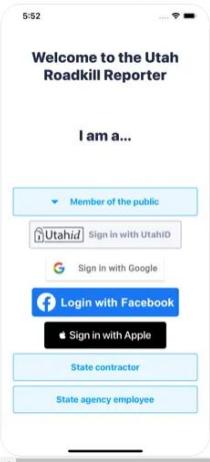
Report animal carcasses

State of Utah Department of Technology Services

★★★★★ 3.8 • 6 Ratings

Free

## Screenshots iPhone iPad



# StoryMap



ArcGIS StoryMaps

## The Utah Geospatial Resource Center (UGRC)

Encouraging and facilitating the effective use of geospatial information and technology for Utah since 1984.

UGRC

May 4, 2022

# PLSS



## PLSS Points Legend

What do the colors mean? Click on the question mark to learn more.

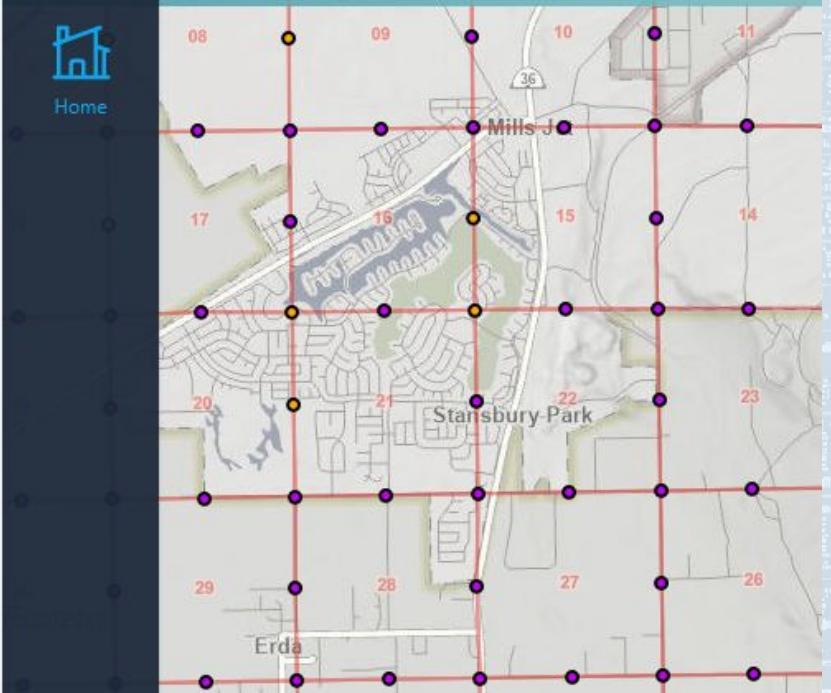
County Managed

Monument Record

Control

Calculated

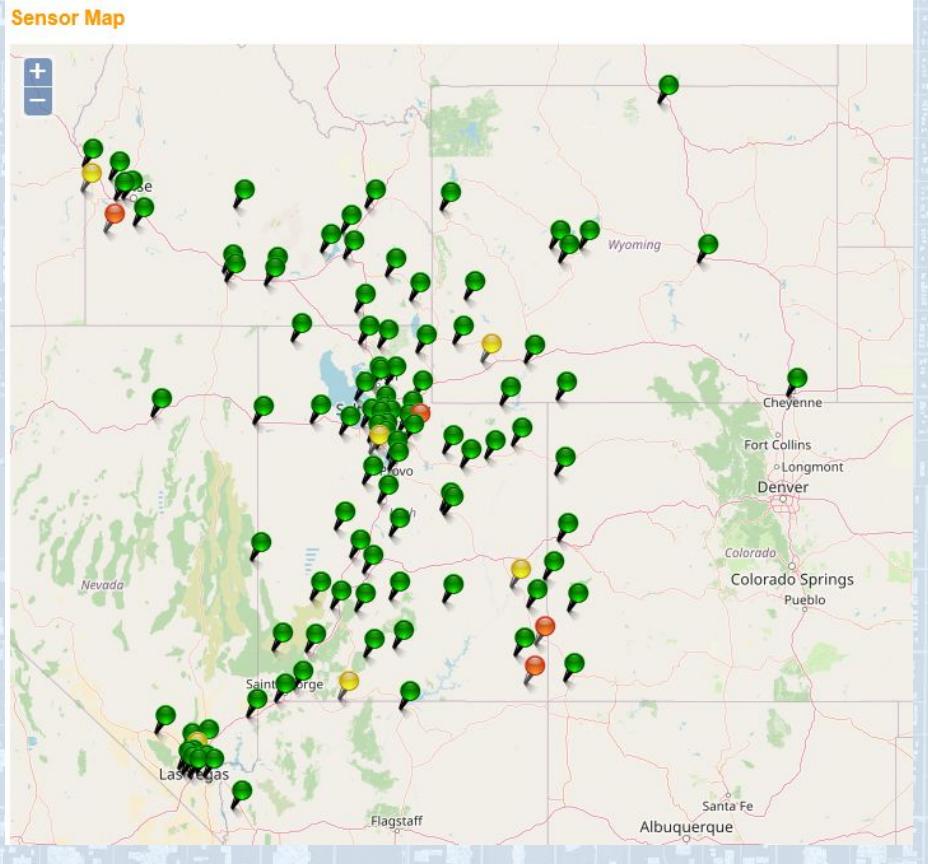
MRRC Monument Record



# GPS



**TURN GPS**  
real-time precision  
[turngps.utah.gov](http://turngps.utah.gov)



# Podcast



# Utah Geospatial Podcast

where location matters

# Project Planning

- SAFe
- Github Projects
  - Jira (executive view)
- Quarterly planning
  - sprints

The screenshot shows a project management interface for the UGRC PI Planning Objectives. At the top, there's a navigation bar with icons for three-dot menu, logo, and 'agrc / Projects / UGRC PI Planning Objectives'. Below the header is a title 'UGRC PI Planning Objectives' with a gear icon. Underneath are tabs: 'Plan' (selected), 'Roadmap - Sprints', 'UGRC Project Dashboard', and '+ New View'. A search bar says 'Filter by keyword or by field'. The main area has columns for 'Title', 'Program Inc...', and 'Q1 Active Sprint'. A section for '2024-Q1' contains 8 items:

Title	Program Inc...	Q1 Active Sprint
1 UGRC Windows Servers 2012 Upgrades #129	2024-Q1	Sprint 5
2 GPS Server Migration grwgps4 #153	2024-Q1	Sprint 5
3 TURN GPS Station Hardware Upgrades #107	2024-Q1	Sprint 5
4 Vector Tile Base Map Hosting and Caching Planning #51	2024-Q1	Sprint 5
5 Web API Endpoint Feature and Response Parity #43	2024-Q1	Sprint 5
6 UGRC MATT - DB Schema and Data links #76	2024-Q1	Sprint 5
7 Install ArcGIS Enterprise Portal in GCP #22	2024-Q1	Sprint 5
8 ArcGIS API for JS 3x Migration Phase 1 #63	2024-Q1	Sprint 5

# Project Planning

- SAFe
- Github Projects
  - Jira (executive view)
- Quarterly planning
  - Sprints
- Road map

agrc / Projects / UGRC PI Planning Objectives

## UGRC PI Planning Objectives

Plan Roadmap - Sprints UGRC Project Dashboard + New View

Filter by keyword or by field

August 2023 September 2023

25 26 27 28 29 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

**Sprint 4** Aug 22 - Sep 04

Tue, Aug 22 - Mon, Sep 4

17 HB 433: Public Assets data and mapping #131

18 Address point monthly update (2 of 3) #144

19 Basic Parcel updates (2 of 3) #156

20 Q1 - Porter issues #92

21 WFRC app support and tech assistance #36

**Sprint 5** Sep 05 - Sep 18 **Current**

Tue, Sep 5 - Mon, Sep 18

22 UGRC Windows Servers 2012 Upgrades #129

23 GPS Server Migration grwgps4 #153

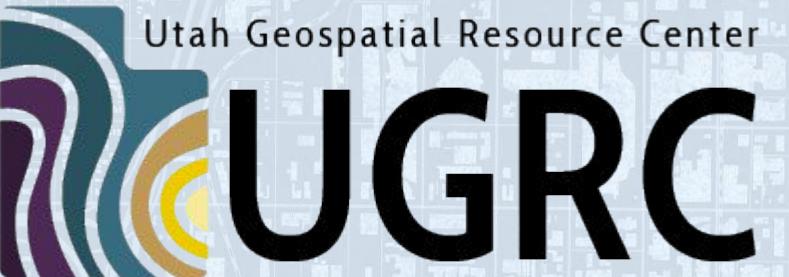
24 TURN GPS Station Hardware Upgrades #107

25 Vector Tile Base Map Hosting and Caching P... #51

26 Web API Endpoint Feature and Response Par... #43

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