

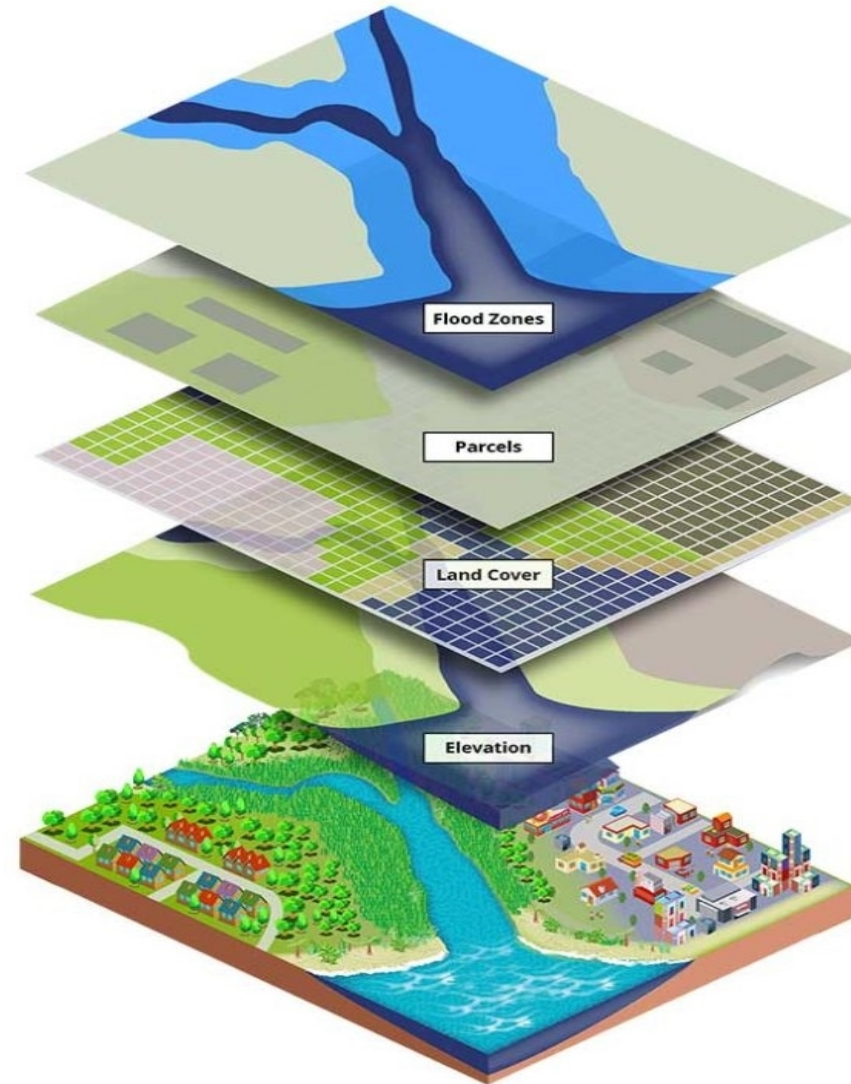
Geographic Information System (GIS) Update

Ryan Ritualo, Information Technology
5/27/2025



GEOGRAPHICAL NETWORK

- Facilitate the sharing and accessibility of geographic information
- Geographical network was used and supported by ArcGIS Desktop
- ArcGIS Desktop will be retired March 1, 2026
 - *Must upgrade to ArcGIS Pro in order to continue updating geospatial display*



ARCGIS UTILITY NETWORK

- Designed for utilities
 - *Water and wastewater*
- Trace resources
 - *Water flow through assets in the network*
- Analyze how the network is affected by real-world events
 - *Storms, outages, or equipment failure*
- Based solely as an analytical tool



ArcGIS Utility Network

A next-generation system for utility management

WHAT DID THE UTILITY NETWORK DO FOR THE DISTRICT?



GIS AT EAST VALLEY WATER DISTRICT



Engineering



Operations



Customer Service



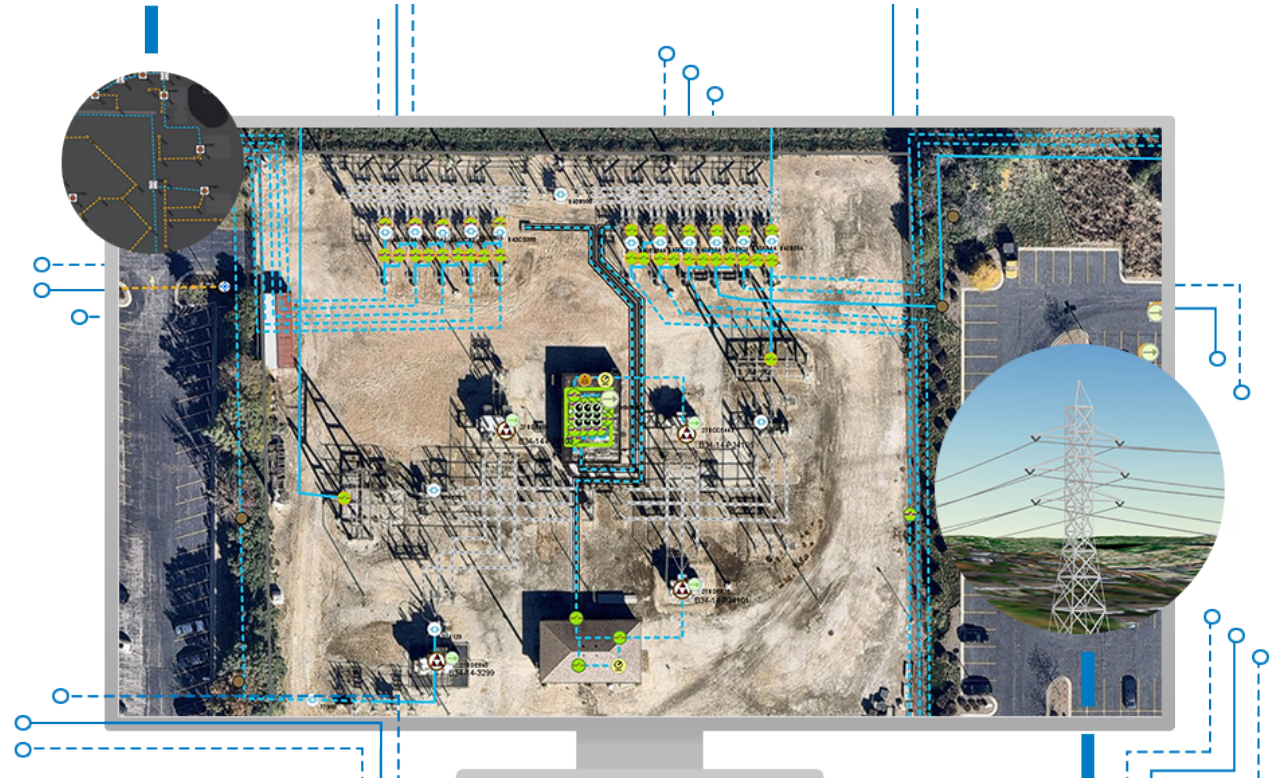
Finance



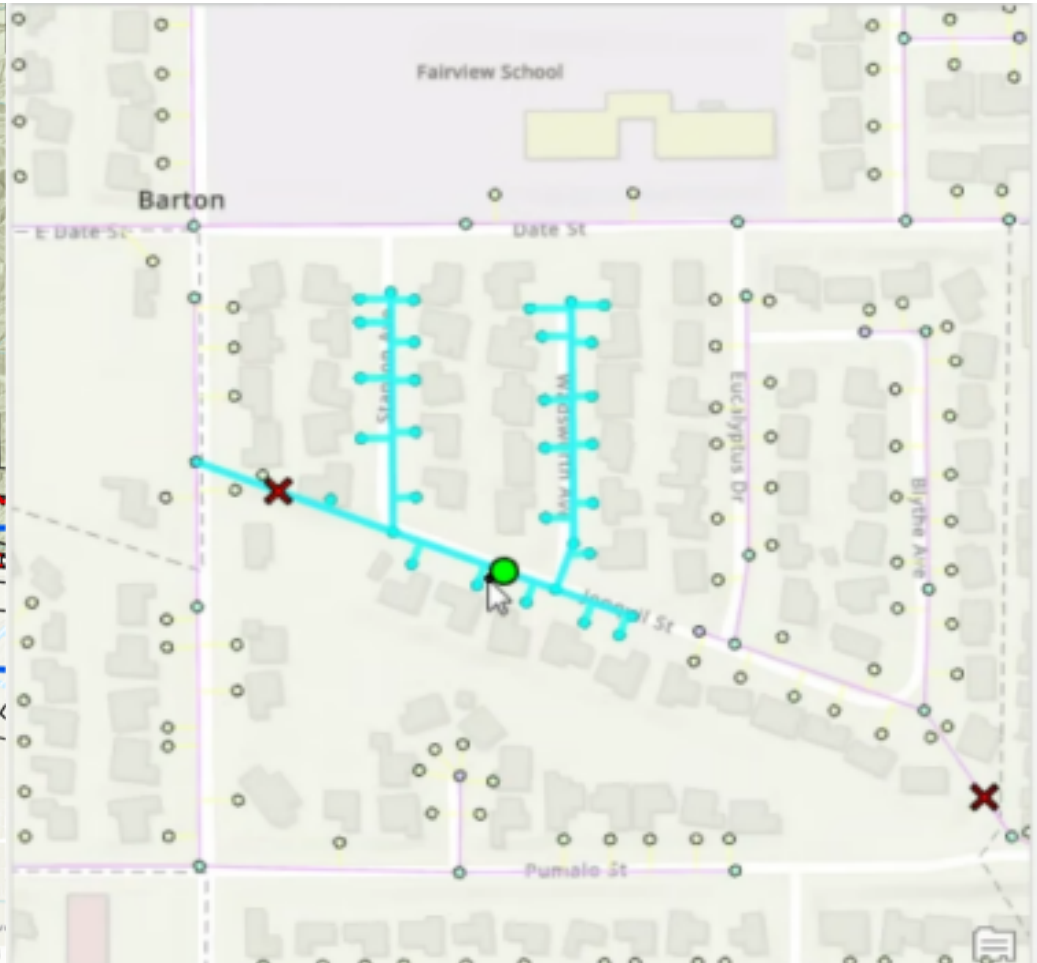
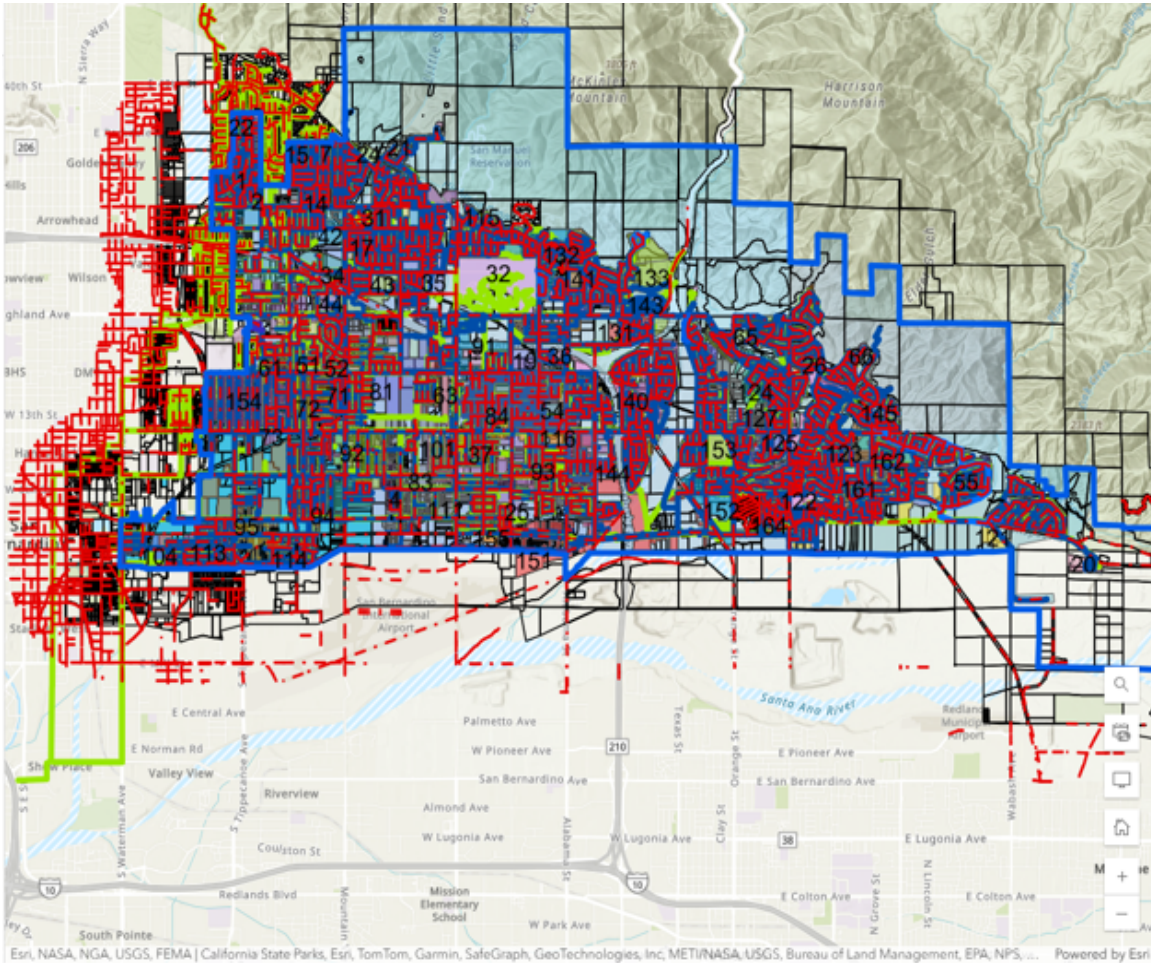
Customers

UTILITY NETWORK AND DISTRICT DATA

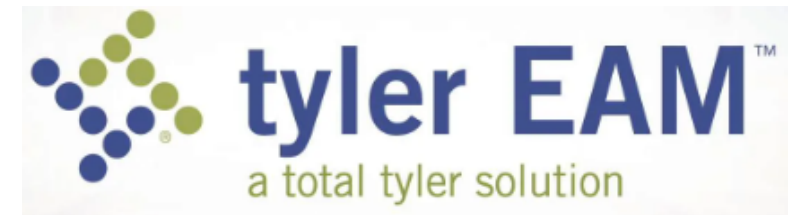
- Data clean up
- Understanding water loss in the service area
- Included water, wastewater pipeline, tract, and redline updates from the past four years
- Provide analytics of our water flow to identify possible issues within the water network in Real-Time



GEOSPATIAL VS UTILITY NETWORK



GIS ENABLED BUSINESS SYSTEMS



GIS ASSET INFORMATION

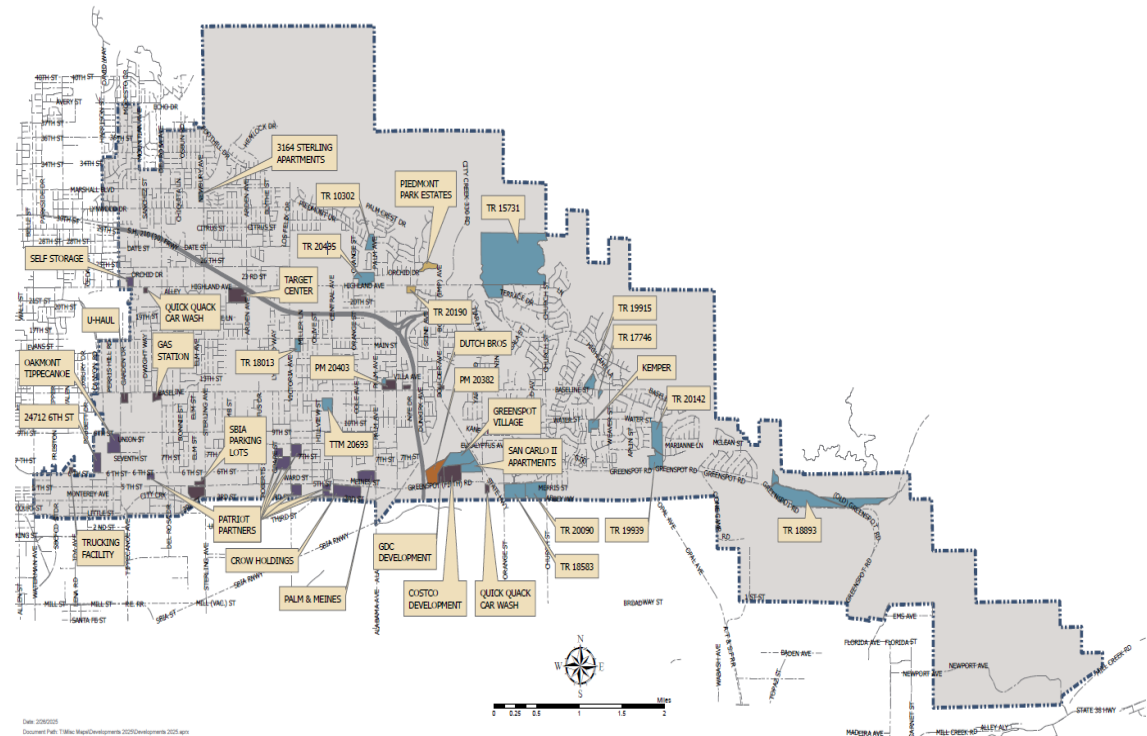
- GIS allows staff to generate pertinent information
- Strategic planning
 - *Water main replacements*
 - *Newly adopted update and redline workflow*
- Historical information
 - *Sewer CCTV footage for Fats, Oils, and Grease*
 - *District initiatives with inspections and clean-outs*

ID	0
PRESS_ZONE	Highland Upper
pzrank	
Shape.STArea()	20,169,116.70
Shape.STLength()	36,400.82
victor	
EVWDDDB.GIS.ServiceArea_Boundary.AREA	0.00
LineLength	226,570.01
PolyArea	838,579,657.97
Shape.STArea()	838,579,658.25
Shape.STLength()	226,570.01
AIM_Name	
Asbuilt	D-7-053
Comments	
CreationUser	NOBEL
DateCreated	10/28/2010, 5:00 PM
DateModified	9/22/2015, 5:20 AM
DownManhole	J8-151

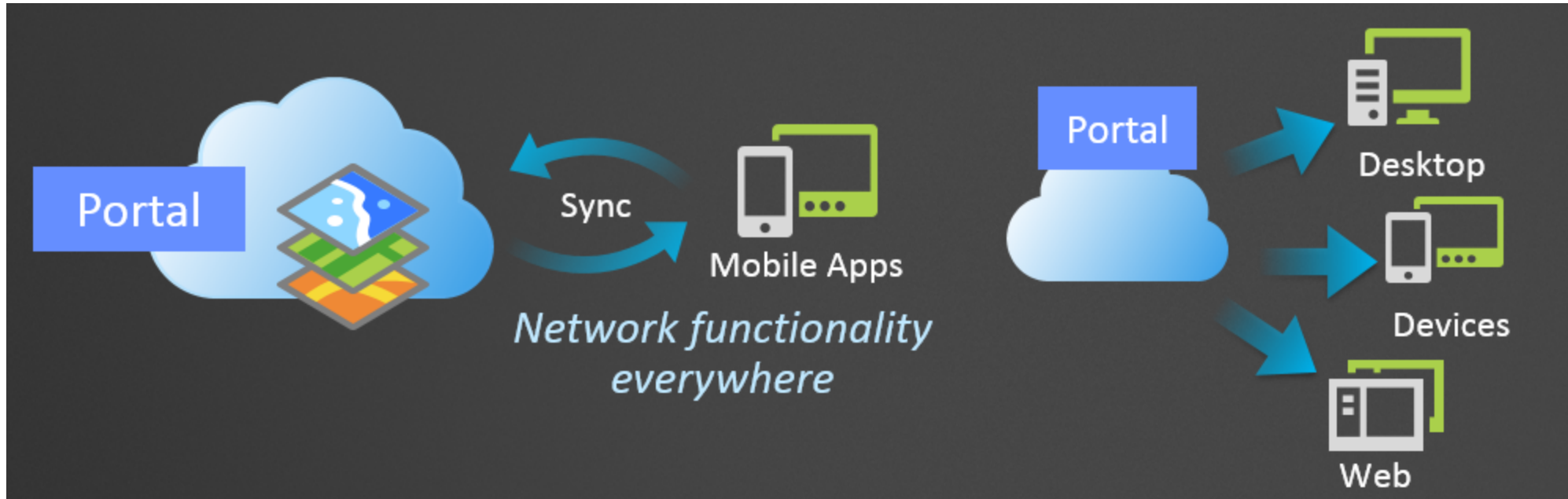
MAPBOOKS FOR FIELD OPERATIONS

- Collection of dataset pages
- Pages contain
 - *Maps, tabular information, tables of contents, title pages, and other content*
- MapBooks are used for sharing complex geospatial information with both technical and non-technical audiences

DEVELOPMENT ACTIVITY MAP - MARCH 2025

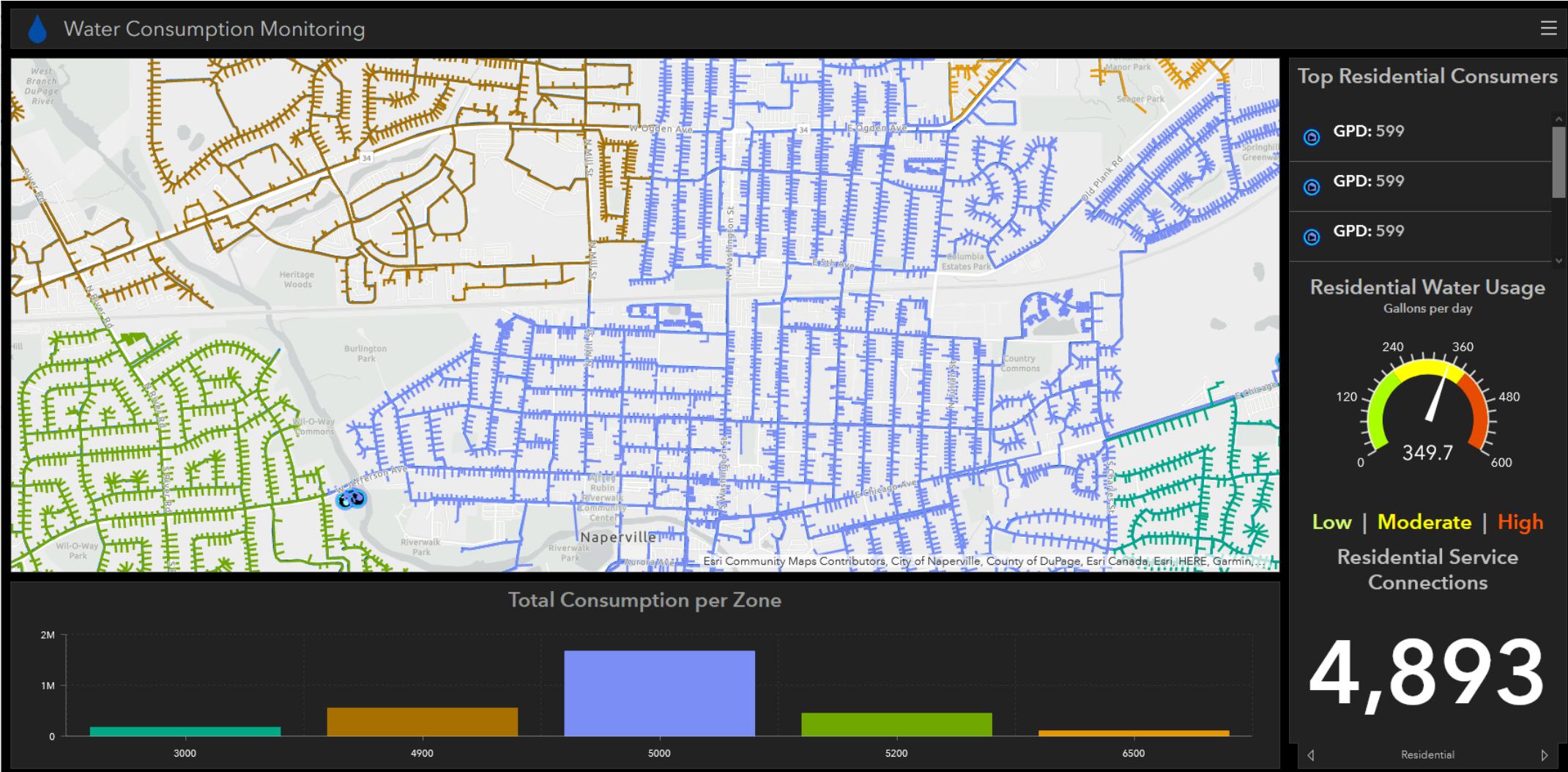


ONLINE PORTAL: UTILITY NETWORK



ArcGIS public portal provides a way to make GIS data available through multiple sources

ANALYTICS DASHBOARD



QUESTIONS?