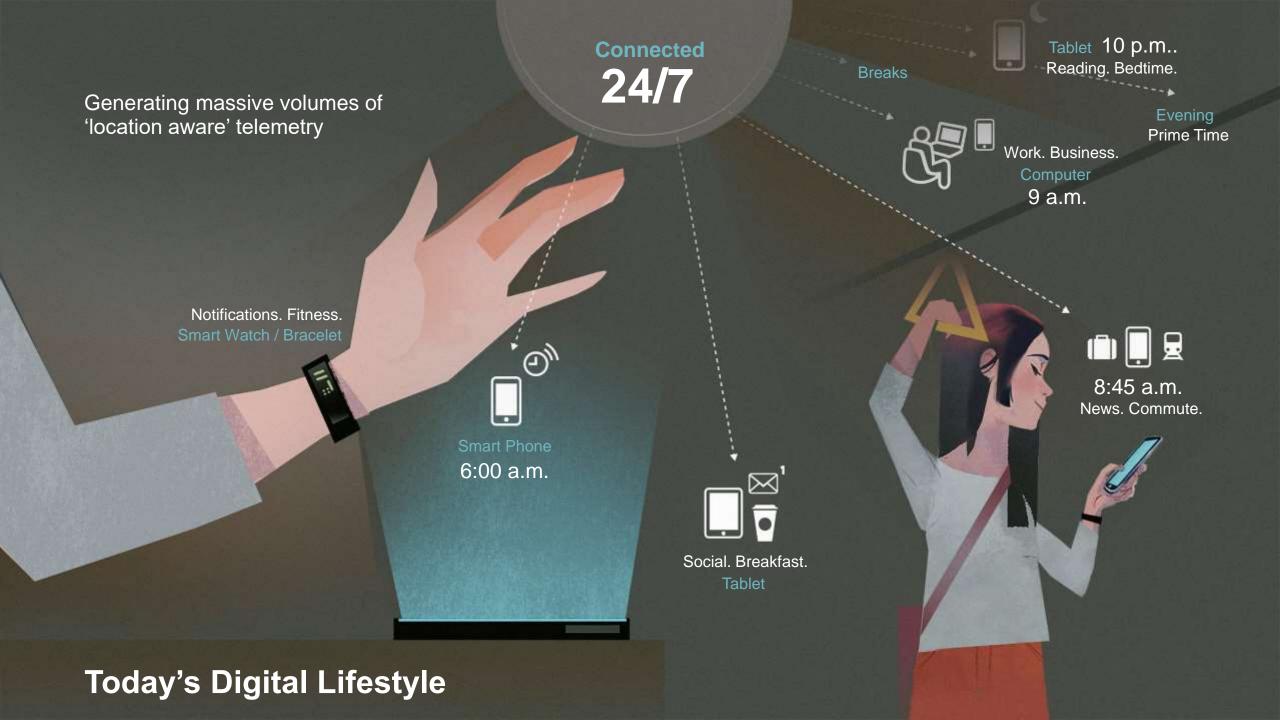
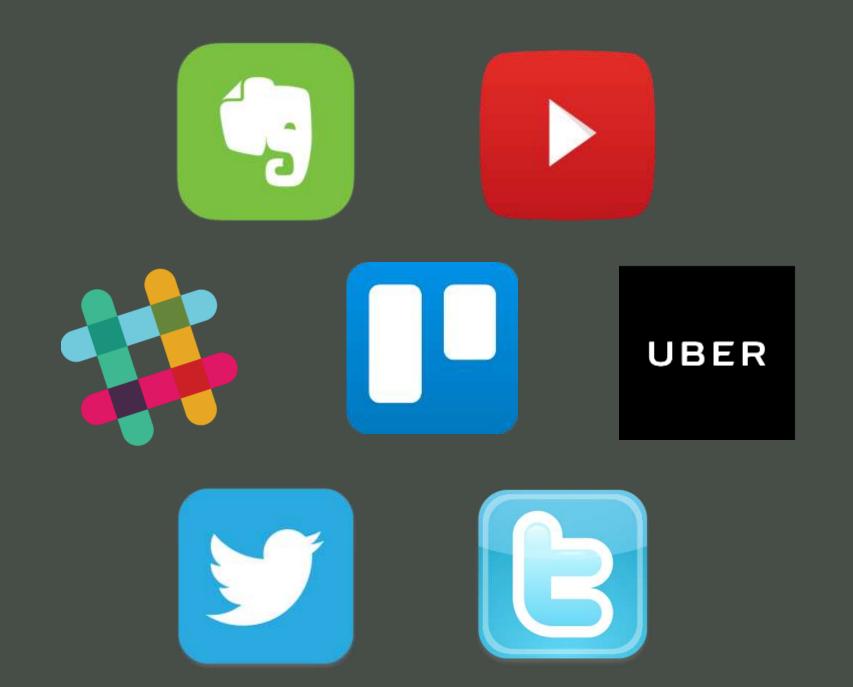
The Age of the Modern Utility

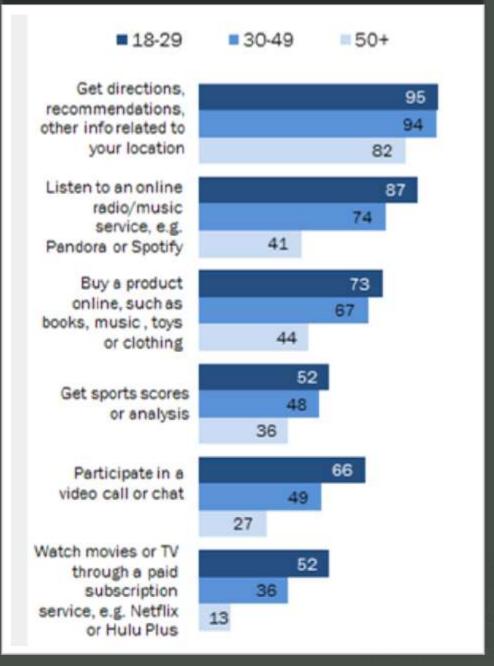
Gordon Sumerling | Esri Australia





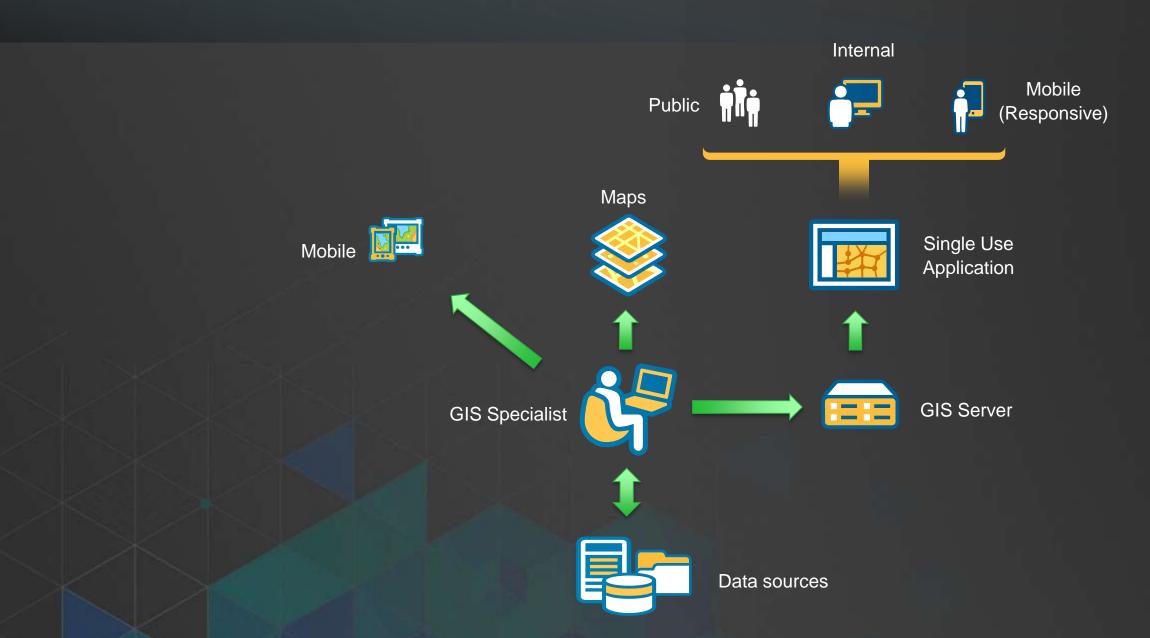
Unlike other mobile activities, location-based services appeal to smartphone owners of all ages





is your organisation prepared?

Traditional centralised GIS



Modern Enterprise Web GIS







Design apps











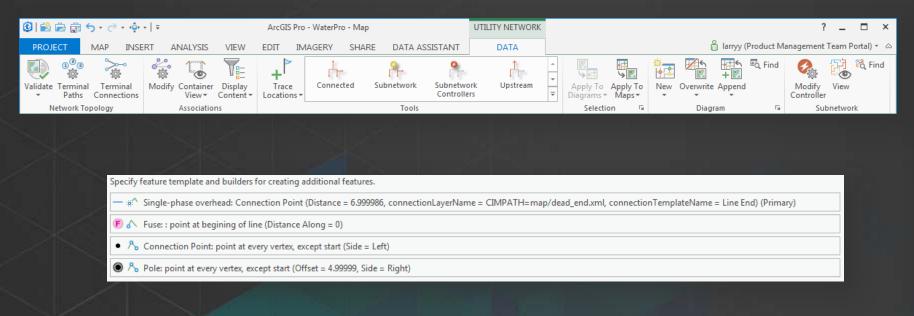


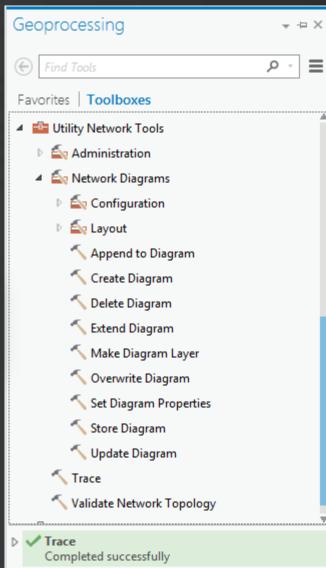
Data sources

The New Utility Network

Network Management Project

- New *Utility Network* for the next 10-15 years
 - Electric, gas, water, storm water, sewer, telco, etc.



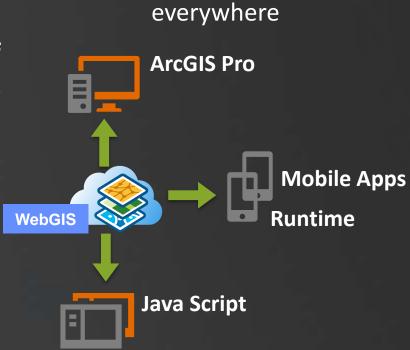


Network Management Project

Vision statement

- Provide utility customers the ability to model, edit, and analyse complex networks leveraging the entire Esri platform
- Enable modeling concepts to better support <u>true</u> representations of what is on the ground, while fostering an easy exchange of network information with other mission critical systems
- Provide a highly responsive editing and analysis environment





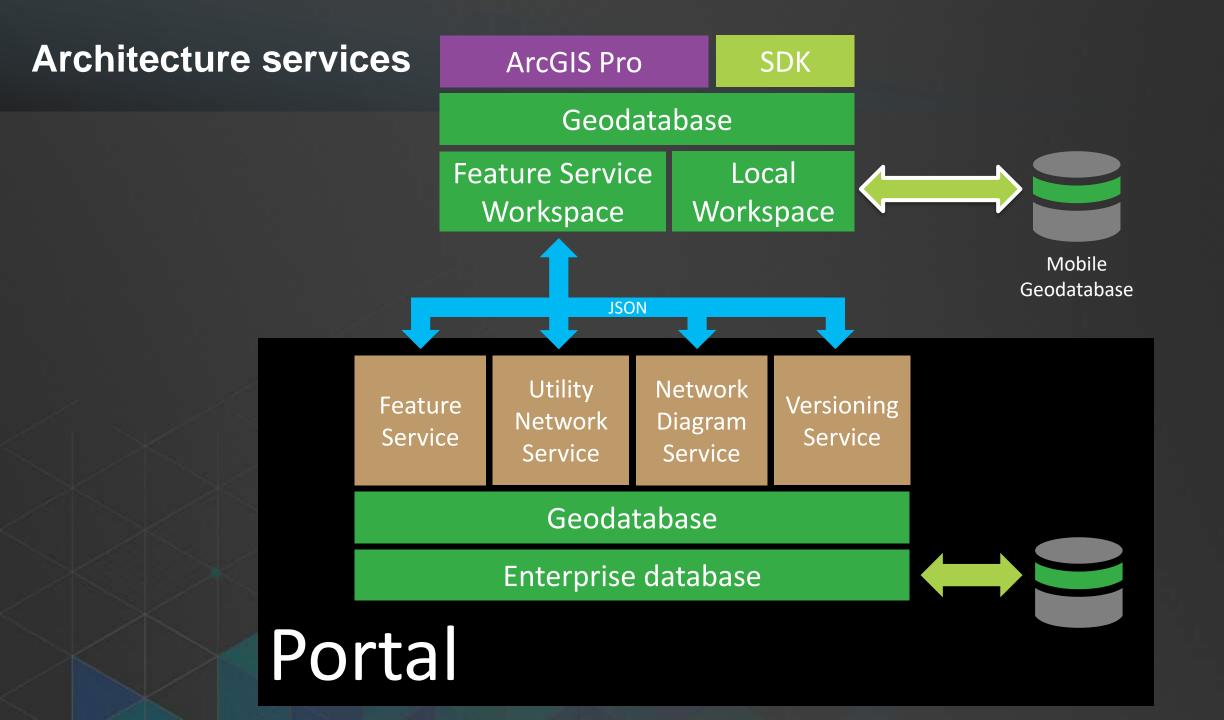
Utility Network capabilities

Increasing your ROI

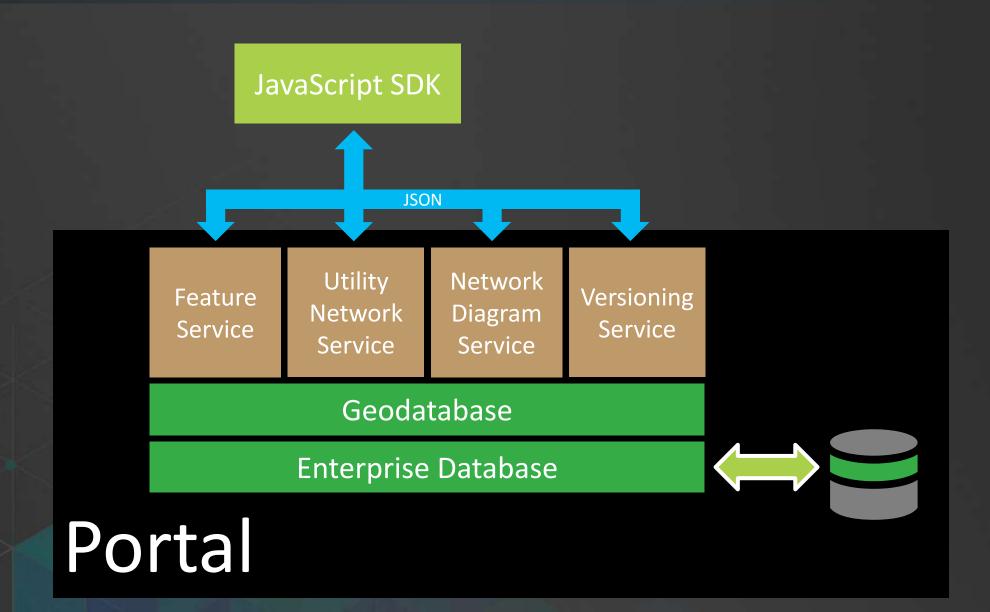
- Services based architecture for enabling the platform
- Ensuring data quality and correctness
- Real world representation of what is on the ground
- Sophisticated analysis
- Subnetwork management
- Improved mapping and visualisation techniques
- Expanded data exchange capabilities
- Increased performance
- A strong foundation for *customers* and *partners* to leverage

- Services based architecture for enabling the platform
 - Desktop capabilities
 - Visualise and query mapping both geographic space and diagram
 - Editing Advanced tools and templates
 - Analysis complex processing with geoprocessing with reporting





Architecture services – web apps



Network Management Project

- Services based architecture for enabling the platform
 - Runtime and Offline capabilities
 - Visualize and query mapping both geographic space and diagrams
 - Edit perform edits in the field from inspections to simple design
 - Analyze determine upstream device or valves to turn for an isolation while in the field



Network Management Project

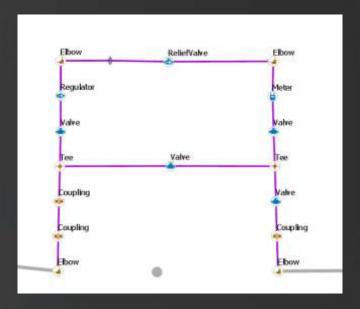
- Services based architecture for enabling the platform
 - Web capabilities
 - Dashboard capabilities for executives
 - Thin client applications on the desk of everyone in the organization
 - Provide simple outage maps to consumers
 - Online capabilities
 - Reducing administration and cost of ownership, etc.



- Real world representation of what is on the ground
 - Accurately representing assets for enhancing analysis and modeling and for simplifying data export for other systems
 - Device Assembly A container for multiple devices...



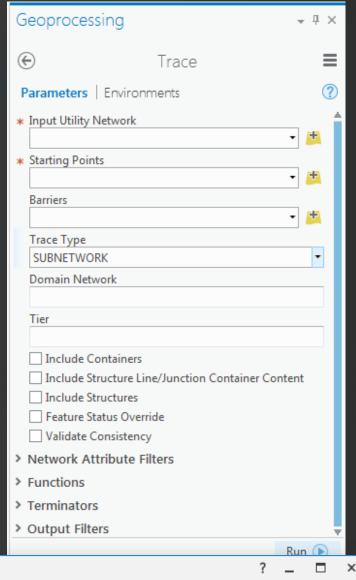
Multiple Devices

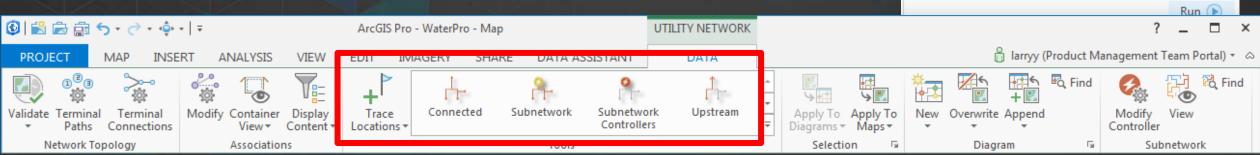


Single Device Assembly on the map

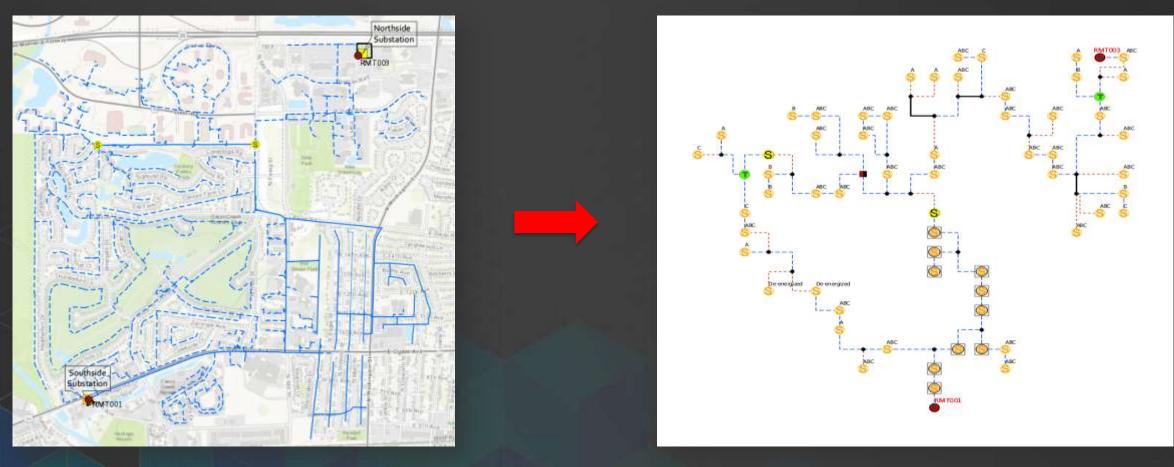
Device Assembly containing devices

- Sophisticated analysis
 - ArcGIS Pro provides basic pre-configured tools in the gallery
 - Connected
 - Subnetwork, Subnetwork Sources
 - Upstream, Downstream
 - Loops
 - Partners and users can modify the gallery
 - Adding and removing pre-configured tools





- Improved mapping and visualization techniques
 - Diagram capabilities integrated directly with the *Utility Network*

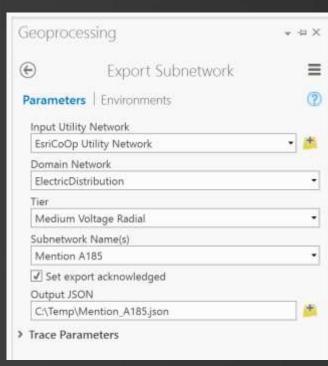


- Expanded data exchange capabilities
 - Expanded core capabilities mean more opportunities to do modeling and high end analysis inside the GIS.

- Many workflows will still require moving data outside the GIS to other mission

critical systems.

- Esri will support these options for exporting data...
 - Export to Well Known Text
 - Export to CIM format (connectivity information only)
 - Export to connectivity table
 - Export to Geodatabase feature classes
 - Export to Json



- A strong foundation for our *Customers* and *Partners*
 - Better core framework means better starting point for partner solutions

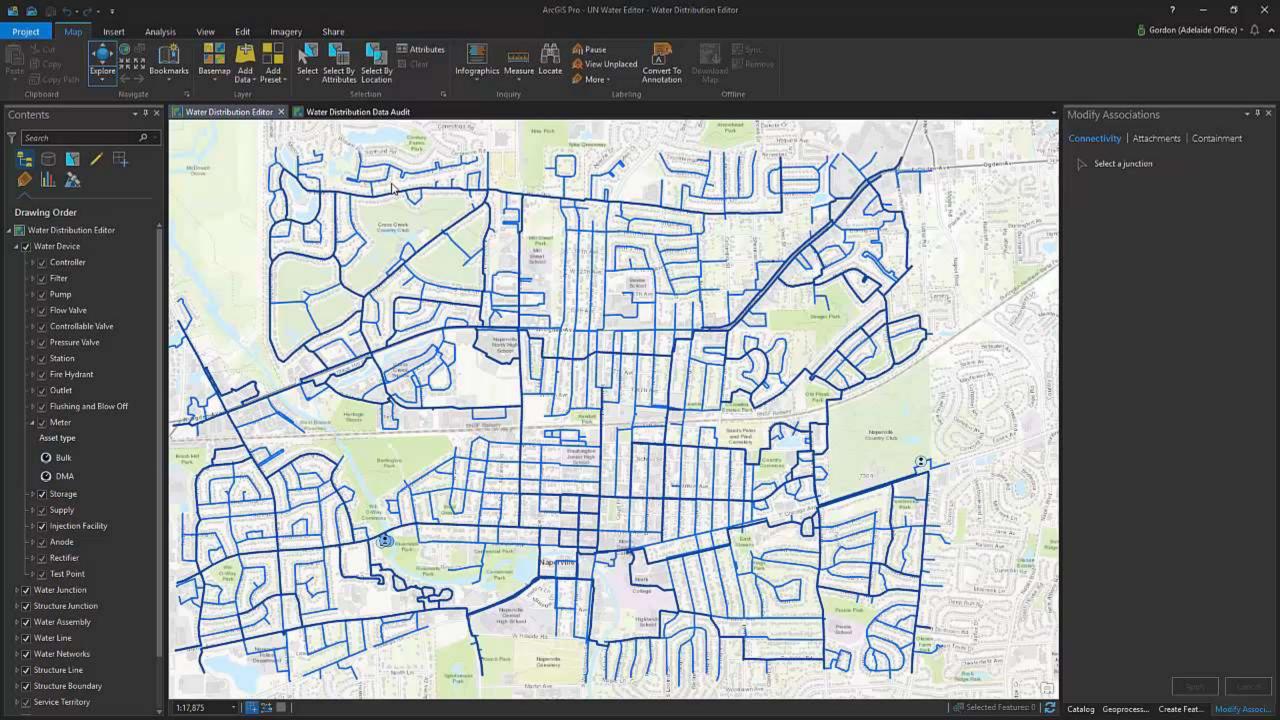
Utility and Telco Solutions

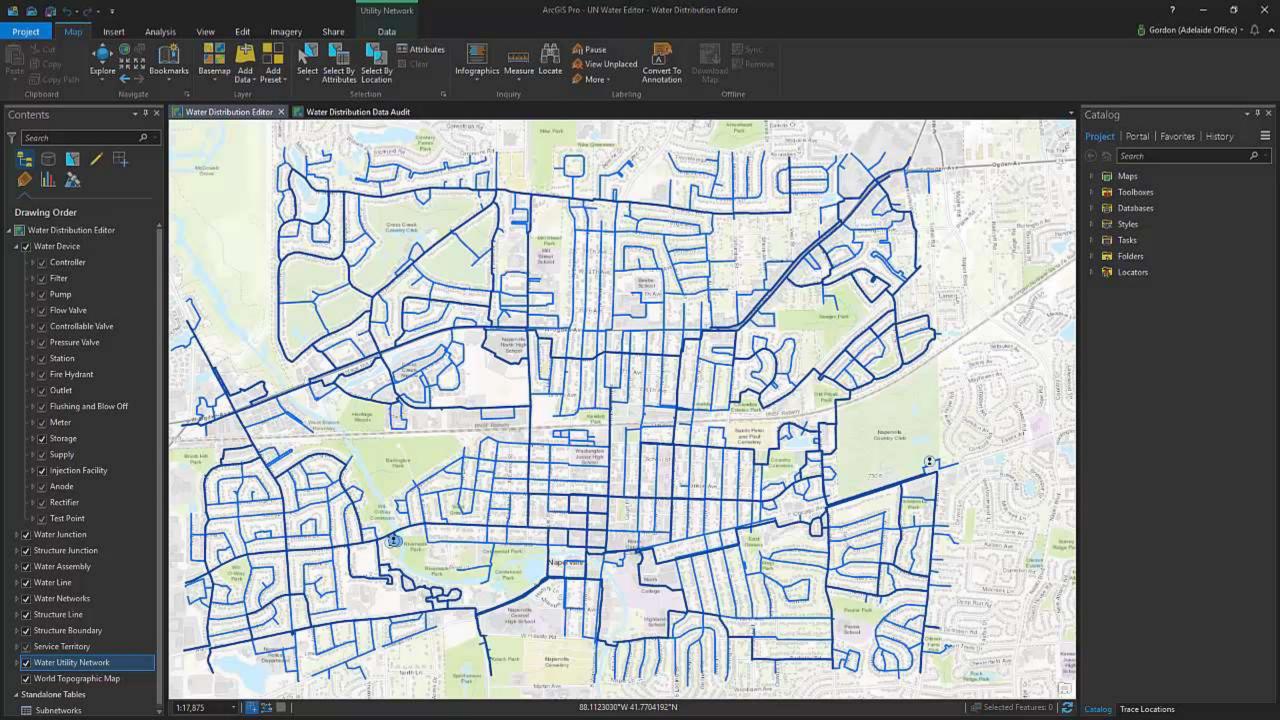
Partner Solutions

Esri Solution Templates (starter capabilities)

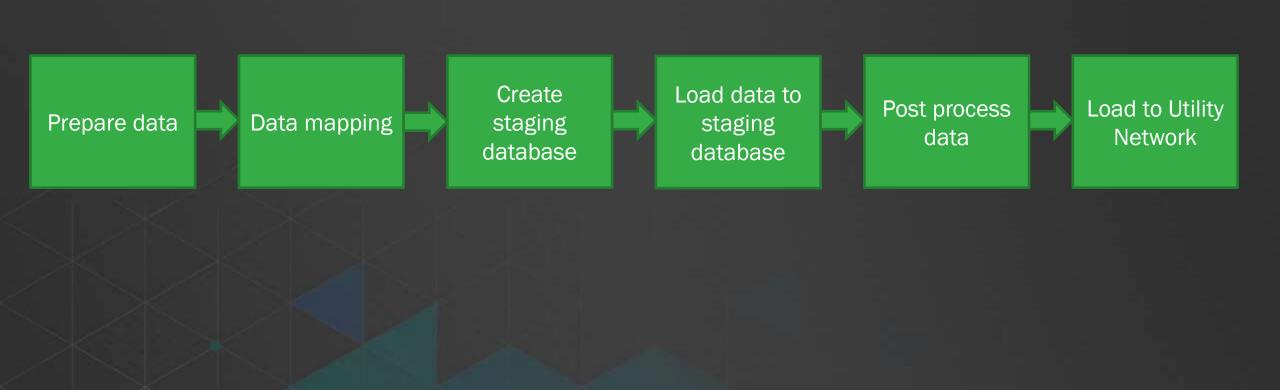
Network Management Framework

ArcGIS Platform



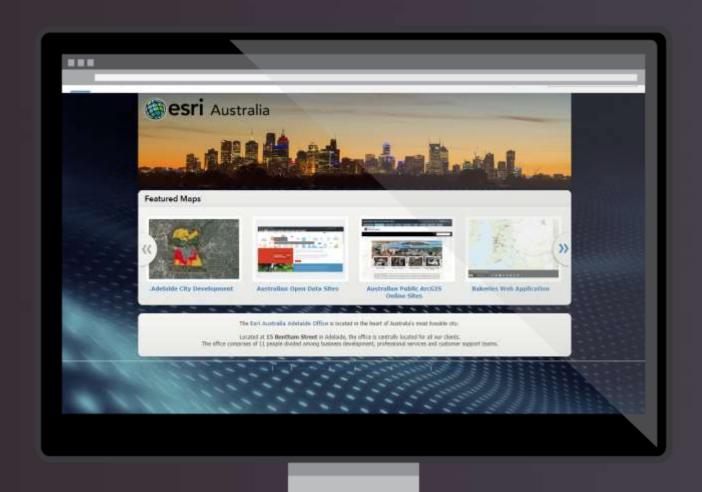


Migrating to the Utility Network



Create the Destination and Provision Your Users

Configure your Web GIS portal – using Online or your own ArcGIS Server



Use Maps to Tell Relevant Stories

Illustrating the mission and key performance indicators of your organization

Performance

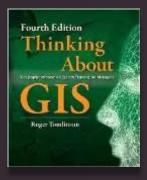
Forecasts

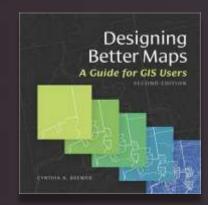
Status

Exceptions

Change

Alternatives

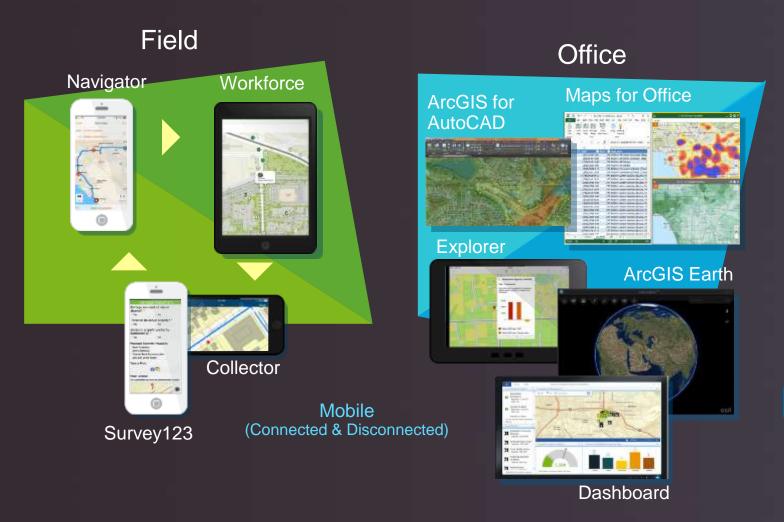






Empower People With Apps

Use and Share the ArcGIS Apps with Your Users



Public Open Data Story Maps Photo Survey Crowdsourcing

Empower Your Organisation

Put authoritative maps and geographic insight into the hands of everyone

Thank you

Questions?

