## Network Management with ArcGIS

Foundational Technologies for Modern Network and Asset Management



## **ESTI** SERVING OUR USERS

. Working Together to Make a Difference

Advancing GIS & The Science of Where

Engineering and Science Focused

Strong and Growing

Promoting Geographic Thinking



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## Network Management with ArcGIS

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More than just where assets are

System of record
Trusted information
Available anywhere
Enables analysis



## ArcGIS supports modern water and wastewater utility workflows

A Comprehensive Location-Based System

#### Data Management



Asset condition assessment, planning and reporting



#### Field Operations



**ArcGIS** 

Tracking and Reporting on the progress of field activities

#### Customer Engagement



Tracking customer issues and identifying customer patterns



External **Customer Information** Systems



## Challenges

#### Obsolete Technology

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Outdated Workflows

#### Embracing Change

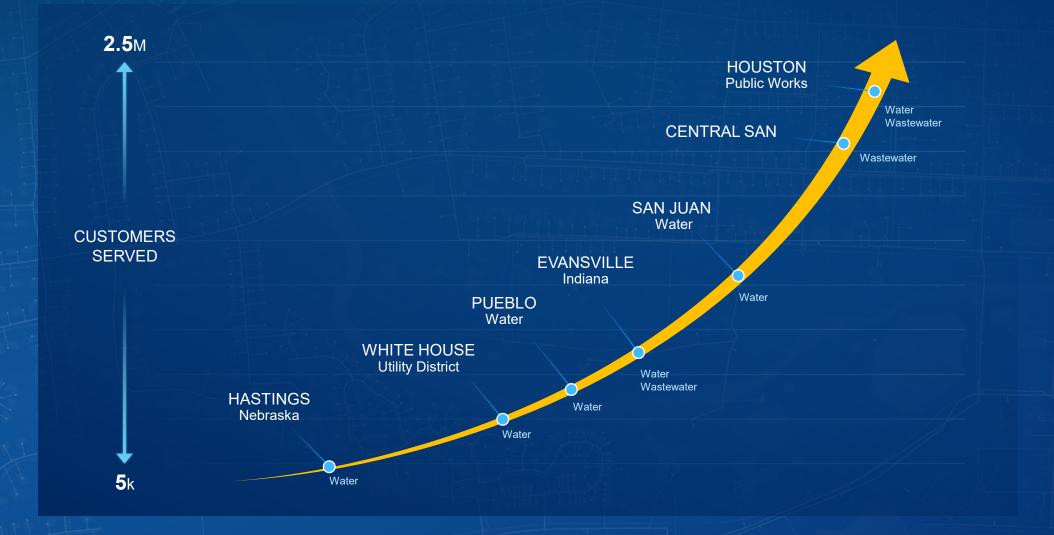


#### Modernization affects technology and people

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## Water Utilities Leading the Way

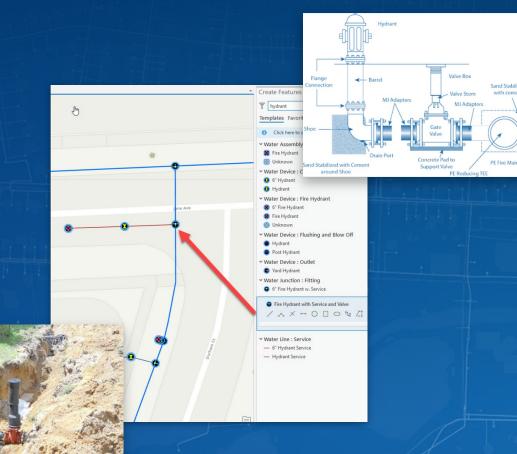
Standout utilities that have modernized their network management



- Data integrity
- Asset modeling capabilities
- Emergency response and communication
- System analysis and reporting
- Configuration instead of customization

## Data Integrity

- Less prone to errors
- Efficient editing
- Understand how assets are connected





#### Asset Modeling Capabilities

- Detailed industry standard data models
- Configurable
- Model complex asset configurations
- Enables detailed analysis

**Treatment Plants** 



**Meter Vaults** 

#### Emergency Response and Communication

- Outage isolation tracing identifies:
  - valves to turn during main breaks and planned outages
  - customers out of service
  - hydrants out of service
- Contamination tracing
- Office and field staff perform traces with a few clicks

Customers, hydrants, and valves impacted by outage



#### System Analysis and Reporting

Understand the state of the entire system

- Automated asset reporting
- Water loss
- Sewer overflow

#### **Pressure Zone Asset Reporting**



Gain deeper understanding of the system...

## Configuration Instead of Customization

Does more out of the box

- Meet needs of business as they change
- Reduce needs for 3<sup>rd</sup> party applications
- Deploy configurable apps quickly









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## **ArcGIS Solutions**

Solutions support network modernization

- Industry standard data models
- Scale to utilities of any size
- Expedite modernization

Combined Sewer Utility Network Foundation

Sewer Utility Network Foundation





Water Distribution Utility Network Foundation



Stormwater Utility Network Foundation

## Implementation Support

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**Resources and Services** 

#### Esri Consulting

- Data Readiness Assessment
- Implementation Planning
- Pilot/Proof of Concept
- Data Migration
- Implementation
- Workflow and application development

#### Esri Training

- Instructor Led Training
- Self Paced Web Courses
- Learn Lessons

#### Esri Community

- Esri Blogs
- Esri Community
- Technical Papers
- Help Documentation
- Webinars
- Conferences

#### Esri Partners

- Implementations
- Cloud Hosting Services
- Network Management Specialty





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