ArcGIS for Water Utilities: An Introduction

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Agenda

• Introduction
• ArcGIS for Water Utilities Overview
• Demonstrations
• What’s Next
• Your Feedback
Our Mission

Increase value of ArcGIS for water utilities

• Making it easier to deploy ArcGIS
  - Deliver applications quickly throughout your organization
  - Create a geospatial platform that can be leveraged by everyone
  - Stay current with future releases / avoid legacy technology

• Addressing common constraints in water utilities
  - Size and skills of staff
  - Budget and time available to implement

• Empowering the user community to contribute
  - A community sourced & Esri supported solution
Our Strategy is Focused on Configurations
Reducing your cost, risk & time to deploy

- Implement quickly
- Easy to add new features
- Simple to maintain
- Easy to extend
ArcGIS for Water Utilities

Industry specific configuration of ArcGIS for water, wastewater & stormwater

• A series of useful maps and apps focused on water utility work
  – Extensible, configurable
  – A foundation for Partner solutions
  – Fully supported by Esri

• An online community
  – Best Practices / Implementation Support

• A network of Esri Services & Partner offerings
  – Help users implement, sustain and enhance
The ArcGIS for Water Utilities Approach

Extends the ArcGIS platform for water utility GIS

Your Needs

- Organizational Needs
- Industry Specific Needs
- General GIS Platform Needs

ArcGIS for Water Utilities

Your Efforts

- DIY
- 3rd Party Apps
- Consulting

Focused Maps & Apps
Harmonized information model

COTS ArcGIS Platform
(Desktop, Mobile, Server, Online)

...Key is to embrace industry commonalities
GIS is a Commonly Used technology at Water Utilities

Supporting core business patterns

- **Asset Management**: Store, manage & maintain accurate asset records
- **Planning & Analysis**: Transform data into actionable intelligence
- **Field Mobility**: Get information into and out of the field
- **Operational Awareness**: Disseminate knowledge where & when it’s needed
- **Stakeholder Engagement**: Share information with stakeholders

ArcGIS for Water Utilities is built around these patterns
ArcGIS for Water Utilities Components

COTS ArcGIS Platform

Information Model

Map, App & Information Product Configurations

Workflows
The COTS ArcGIS Platform

A system that makes GIS pervasively available at water utilities
The Information Model

- Designed to be easily adopted and extended
- Encompasses industry best practices
- Includes
  - Schema for storing data in GIS
  - Maps
  - Services
  - Configurations to organize, share and collaborate
Configurations For Applications
Deployed on the COTS ArcGIS platform

Operations Dashboard
Operational Awareness

Network Editing
Data Reviewer
Asset Information Management

Customer Interaction
Stakeholder Engagement

Capital Improvement Planning
Planning & Analysis

Mobile Map
Field Mobility

ArcGIS For Water Utilities
Configurations for Intelligent Web Maps

Creating information products that can be deployed to any device

- Hydrant Flushing
- Valve Exercising
- Manhole Inspection
- Fat, Oil & Grease Inspection
- Meter Swap Out
- Service Turn on & Turn offs
- Backflow inspection
- Boil Water Advisory

...Unlimited ability to make your own mashups
Workflows

- ArcGIS for Water Utilities includes typical workflows
  - Asset lifecycle
  - Cross department
  - Office and field
  - Coordinate decision making
  - Operational awareness
  - Coordination with external entities
  - Sharing information with stakeholders
  - Quality control/quality assurance
ArcGIS for Water Utilities
Demonstration
Configuration Patterns

- Influential factors
  - COTS and configurable solutions strategy
  - Deployment time
  - Technical expertise

- Three configuration patterns
  - Complete system adoption
  - Publish and adopt
  - Sample code and customize

- Where do you start?
  - With your business requirements (NOT the GDB!)
  - Align them with maps and apps
  - Review system configuration patterns
What’s Next

Solution Offering

• Model Online Implementation
  - Roles, Groups, Information Products, etc.
• Quarterly Release Schedule
• Online Help Documentation
• Complimentary Partner offerings
  - ArcGIS for Local Government Partner Specialty
Summary

• Our Goals
  - Deliver a “a water utility GIS” that enables your success
  - Evolve and grow the collection of apps
  - Provide a platform for partners to deploy their solutions

• We want your participation and involvement
  - Download the maps and apps
  - Provide feedback on existing content
  - Identify opportunities for new content
Questions


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