Get Off Your As-Built: Modernize Your Workflow

Allisyn Hudson Dunn, PhD
GIS Project Manager

Ann Myslinski
Senior Technologist
- Provides services to approximately 15 million people in 46 states and Ontario, Canada
- Treats and delivers more than one billion gallons of water daily
- Encompasses 16 regulated states with 12 GIS groups including our corporate T&I team
- ~50,000 miles of mains and collection pipes
- ~50 GIS team members
– Specialize in Engineering, Inspection, GIS, and Software Solutions

– Serve transmission and distribution companies in more than 20 states

– Over 370 employees with diverse expertise
Asset Management -- Business Processes

- Business Processes are a vital part of operations at AW
- Challenge: Different workflows can lead to inconsistency and inaccuracy in data
- Initial Goal: Standardizing Business Processes/Workflows and implementing best practices across the company
- Challenge: One solution may not fit all
Asset Management -- Business Processes

GIS

ASSET CONTROL

ENGINEERING

OPERATIONS

American Water
As-Built

Current and Accurate Information on Facilities

- Promotes Confidence in Planning & Design
- Improves Efficiency
- Ensures Knowledge Transfer
- Establishes Long-Term Data Records
- Improves Emergency Response Time
- Minimizes Damages to Existing Assets

MAGNOLIA RIVER
AMERICAN WATER
As-Built

AS-BUILT

- Engineering
- Internal Staff (Inspection, GPS)
- Operations
- GIS
- Contractors (Engineering, Inspection, GPS, Design, etc.)
- CAD Team Members
As-Built

- History of them at AW
  - Paper As-Builts
  - Map Books
  - Back-logs
  - Resisting Technology
As-Built: Tell Us Your Story

- Who has paper as-builts?
As-Built: Tell Us Your Story

- Who never gets an as-built, or, gets incomplete documentation?

UP TO DATE DOCUMENTATION

NOW THERE IS SOMETHING I HAVEN'T SEEN IN A LONG TIME.
As-Built: Tell Us Your Story

Where do you feel like your current process places you on this scale?

- < 1 month
- 1-3 months
- 3-6 months
- > 6 months
Traditional As-Built

Plan & Design → Construction → Inspection → As-Built
GIS Enters the Picture at step 10
Modernized As-Built

Plan & Design → Construction → Inspection → As-Built

GIS
(Design, Locates, GPS, Asset Management)
GIS Enters the Picture at Step 3
Modernize Your Workflow

- How can we bring it in to the future?

- Use technology and innovation to modernize what has been documented with paper for so many years.

  - Esri Collector and Survey 123
Modernize Your Workflow

- American Water has two excellent examples where Esri applications are helping to modernize not only their as-built process, but other operational workflows as well

- Randy Winston (GIS Project Manager, INAW)

- Mallory Weakland (GIS Analyst, PAAW)