We are in the Middle of a Technology Explosion

- Hardware and Software Evolving Rapidly.
- The Cloud lets us collaborate and share data with greater ease.
- It’s a Mobile World. People want information NOW!!
- The “explosion” has made it’s way to GIS.
The Tools Are There to Do Great Things

• Data Collection Using Almost Any Device, over the Cloud

• Real-Time Data Access by All Staff in any Location

• Spatially Enabling Business Systems

• Enhanced Business Analytics
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Track Progress Towards Goals, like with a stormwater MS4 program.
How Does All This Relate to Asset Management and System Operations?

From the AM Side... The Foundation of an AM Program is Knowing:

- Where are the Assets?
- What is their Condition?
- How Critical are they?
- What is the Associated Risk?

From the Systems Operations Side...

- Easy Access to Data
- Using Data to Support Business Decisions
- Collaborating More Effectively

... about great new tools that can support asset management and system operations?
Key to an Effective Asset Management Program is Building that Asset Inventory

New Technologies Can Help You Build and Sustain an AM Program

• Asset Inventory
• Condition Assessment
• Data Visualization
• Data Analytics
Plenty of Solid Options for Collecting Data in the Field
Option #1 – ArcGIS Online

Esri’s Cloud-Based Offering

• Easily Publish Data to the Cloud
• Consume via Desktop, Web, and Mobile Apps
• Use “Free” Tools for Data Access, Collection, Visualization, and Reporting
ArcGIS Online Is Flexible

- **ArcGIS.com**
  Author Web Maps and Create Web Apps

- **Explorer**
  iOS and Android App to View Web Maps

- **Collector**
  iOS and Android App to Support Data Collection

- **Dashboard**
  App to Support Data Visualization and Track Progress
ArcGIS Online has Limitations

- Commercial Software Can Only Do So Much
- There are Instances Where You Will “Hit the Wall”
- In These Instances, You May Have to Customize
Option #2
Custom Data Collection Tool Leveraging Esri

• When ArcGIS Online Tools “Don’t Cut It”, You Can Customize.

• Use Esri Technologies as the Base and Extend Them

• Examples:
  – Need to Visit Same Site Multiple Times
  – Require an “Inspection” Database
  – Require Custom Dashboard and Reporting
Option #3
Sometimes You Have To “Throw Out the Playbook”

- US Navy World-Wide Asset Management Program
- Asset Inventory at Bases Across the Globe
- 150+ Data Collection Units
- No Cell Coverage, Security Concerns, H&V Assets
- CMMS (Maximo) & GIS Integration in the Field
- Massive Aggregation of Data Back in Office
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Lastly.... Now That You Have Data, Use Your Data To Support Operations

- Provide Data Anywhere, Anytime, Using Any Device.
- Visualize Real-Time System Conditions via Systems Integration
- Make More Informed Financial Decisions and Track Your Projects

With ArcGIS Online, You Can
Push Data to Field Crews in a Matter of Minutes.
Integrate with Financials To Track Project or Asset Status Through Your GIS.
Visualize Your Data One Stop Shopping
Comments and Opinions

• This is not rocket science!
• You may have the licenses and not even know it.
• ArcGIS Online, Collector, and Dashboard are Great for Simple Data Collection.
• Customization can bring Data Collection and Visualization to the “Next Level”.
• Leverage your investment in systems and data to support more effective utility management.

Questions
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Questions and Contact

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