Current Tools for Asset Collection and Inspection

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Current Tools for Asset Collection and Inspection

- Data Collection and Inspections
- Accessing Collected Data
- Monitoring
Asset Management Issues:

Many Different Tasks
- Data Collection, Inspections, Compliance, Reporting

Separate Systems
- GIS, CAD, Design Drawings, Paper Records
- Data could be maintained by separate business areas

Data Issues
- Mix of digital and paper records
- Unknown data history – when was it collected? Who collected it?
Solutions

- Common Data
- Common Interfaces
- Common Tools
Data Collection: Trimble Unity

- Apps for data collection and inspection
- Supports high accuracy data collection
- Hosted solution – access anywhere
- Uses Esri’s Local Government Information Model
Demo: Data Collection with Trimble Unity
Review: Data Collection with Trimble Unity

- Dispatch data collection work order from web
- Synchronize work orders to Trimble GPS devices
- Collect data and synchronize changes
- Review new features from web
Infrastructure Inspections: Trimble Unity

- Assess the health and condition of assets and infrastructure
- Proactive vs reactive activities --> discover potential issues before a failure occurs
- Maintain on-going history of asset condition
Demo: Asset Inspections with Trimble Unity
Review: Data Collection and Inspection

- Work order-driven workflows to create, assign, and complete work
- High accuracy data collection with Trimble GPS, lower accuracy with consumer devices
- Common interface between field and office devices
Activity Monitoring

- Allow managers and supervisors to monitor activities and progress
- View progress and receive alerts when certain conditions are met
ArcGIS Online and Operations Dashboard

• ArcGIS Online – a collaborative, cloud-based platform for creating, sharing, and using data, maps, and applications

• Operations Dashboard – application included with ArcGIS Online that provides a common operating picture for monitoring, tracking, and reporting events
Trimble Unity and ArcGIS Online
Working Together
Demo: ArcGIS Online and Operations Dashboard
Review: ArcGIS Online and Operations Dashboard

- Access data from Trimble Unity within ArcGIS Online
- Use Unity data to create web maps
- Use ArcGIS Online functionality to customize web maps – scale range, visibility, pop-up configuration, etc.
- Create operational views with Operations Dashboard for ArcGIS
- Use widgets in Operations Dashboard to view data attributes, metrics, etc.
Summary

Board of Directors
Operations Managers
ArcGIS Online
Operations Dashboard for ArcGIS

Department Supervisors
Field Personnel
Trimble Unity

Information Technology
GIS Analysts & Managers
ArcGIS for Desktop
ArcGIS Online Administration
Summary

• Common Tools
  • Trimble Unity
  • ArcGIS Online

• Common Data
  • Data from data collection and inspection activities stored in single database

• Advanced Functionality
  • High accuracy data collection
  • Field-to-Office data synchronization
  • Dashboards and monitoring
Questions?

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