

Current Tools for Asset Collection and Inspection

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Mapping throughout Ohio

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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

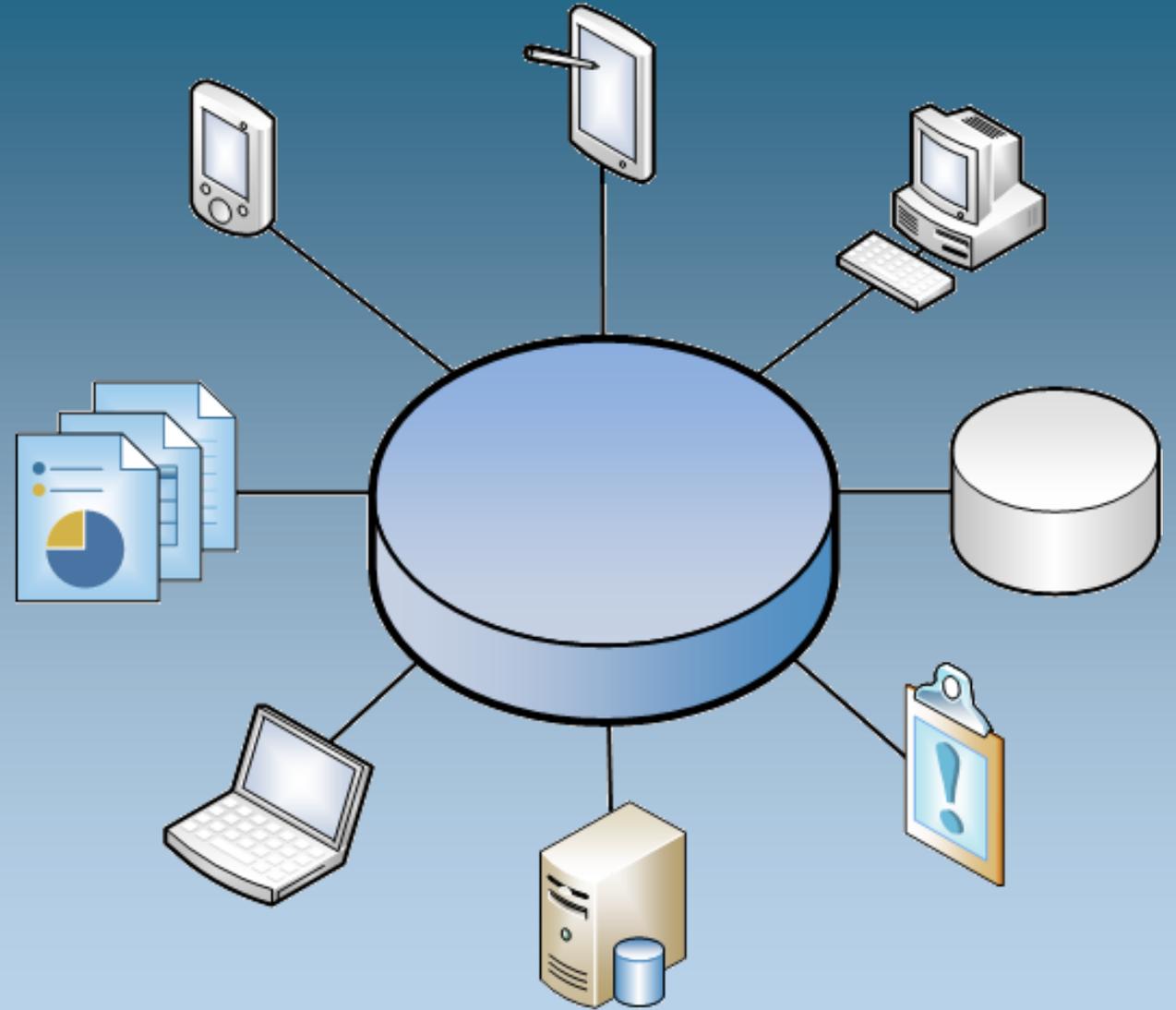
Data Issues

- 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

Trimble Unity

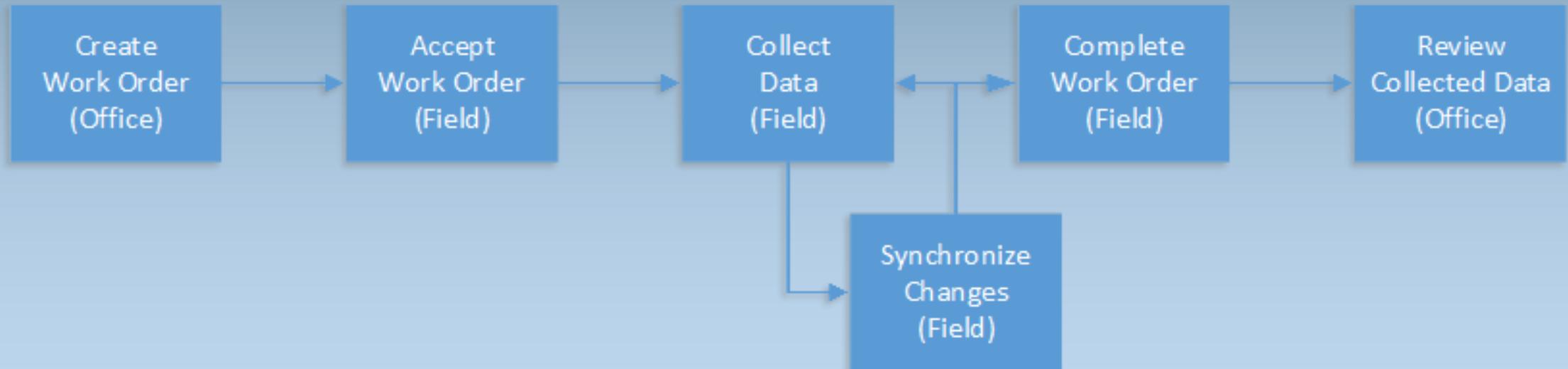


Demo: Data Collection with Trimble Unity

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

Trimble Unity 

Review: Data Collection and Inspection

- Work order-driven workflows to create, assign, and complete work
- High accuracy data collection with Trimble GPS, low(er) accuracy with consumer devices
- Common interface between field and office devices

Activity Monitoring

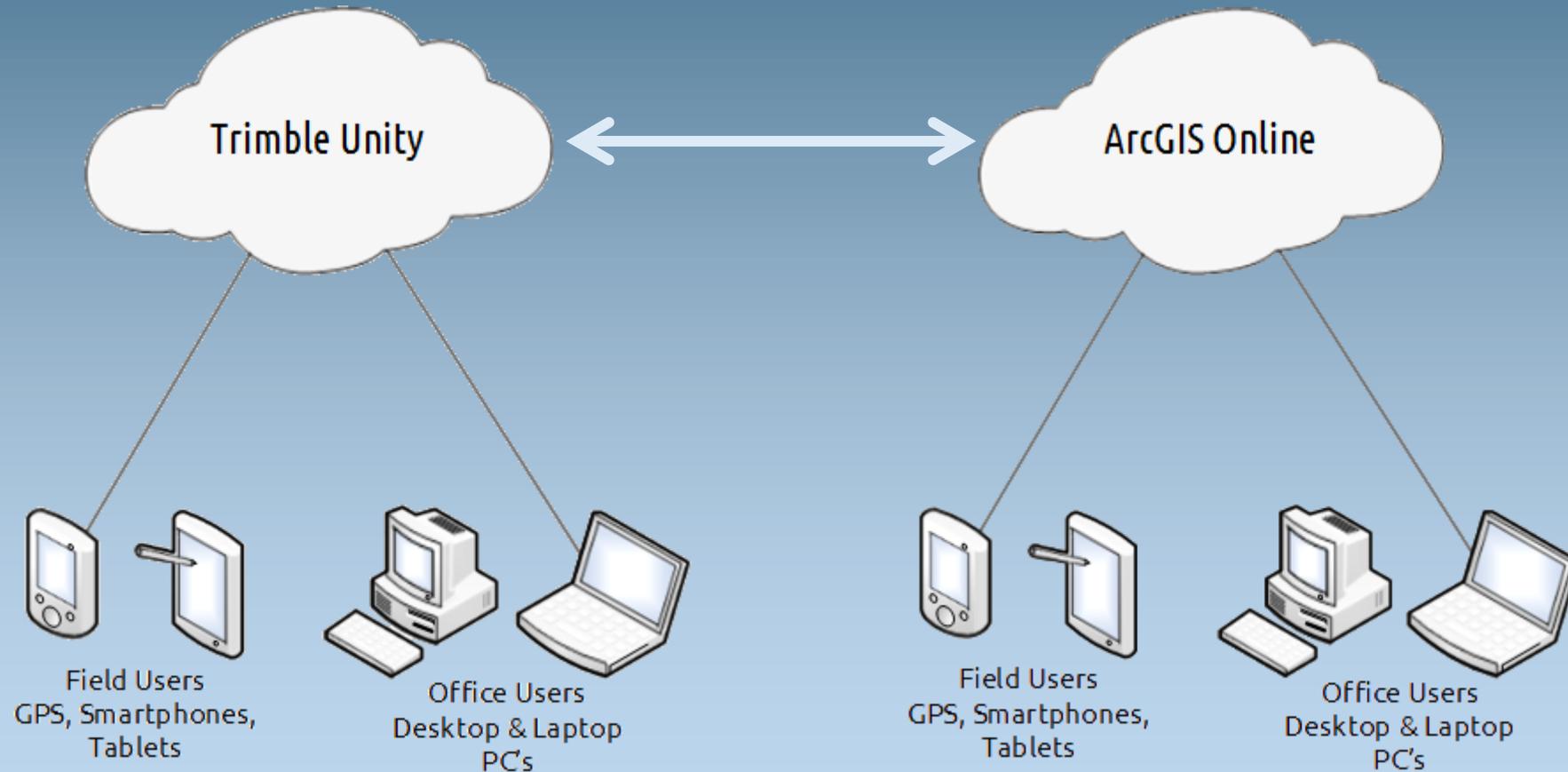
- Allow managers and supervisors to monitor activities and progress
- View progress and receive alerts when certain conditions are met

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

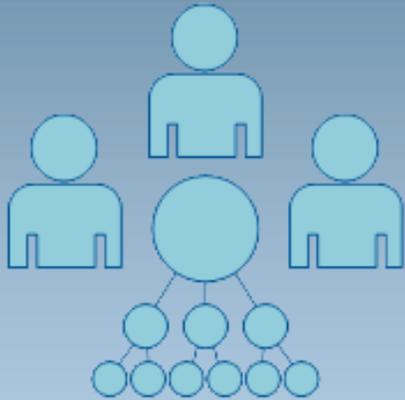


Demo: ArcGIS Online and Operations Dashboard

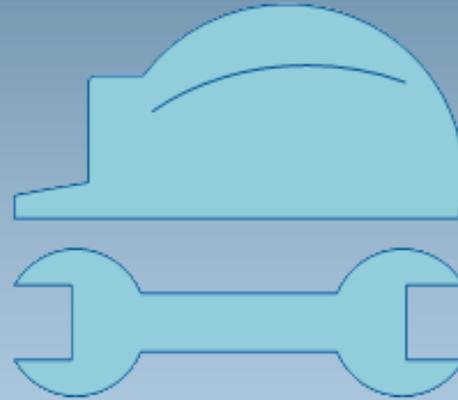
Review: ArcGIS Online and Operations Dashboard

- 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.

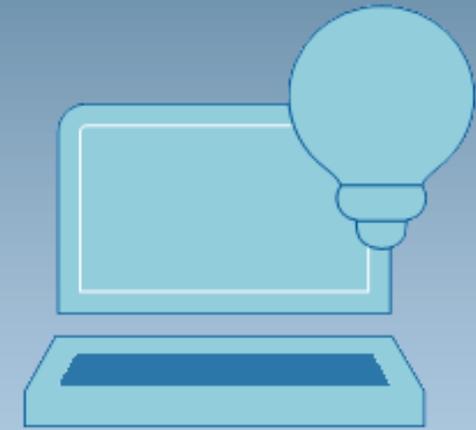
Summary



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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