The Importance of Combining Inspection and Maintenance Data

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Inspection Data Collection Methods
Inspection Data **Collection** Methods
Inspection & Maintenance - Data Storage Methods
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Inspection & Maintenance Teams
What can this mean to the organization?

A decrease in:
- Overall efficiency
- Field production
- Transparency
- Collaboration
Systems today can help connect the dots
Life of the Asset

Inventory → Plan

Inspect → Plan → Maintain

Plan → Replace
Systems today help with the following:

- Built to track the entire life of the asset
- Built for the enterprise
- Built for a mobile workforce
- Built to work on multiple platforms
- Built for the user
Visualization - Maps
Visualization - Dashboard
Visualization - Reporting
Alerting and Scheduling
Device Independent
Additional Benefits

- Integration with current and legacy systems
- Secure cloud hosting
- Systems can be customized and highly configured
- Create an eco-system for true asset lifecycle
Be mindful about the data!

- Collect meaningful data
- Coordinate data collection with other departments
- Don’t collect data just to collect data
- Too much data can slow productivity
- Too much data over complicates just about everything
Civil Integrated Management (CIM)

Technology enabled collection, organization, managed accessibility, and the use of accurate data and information throughout the lifecycle of a transportation asset (FHWA)
Work Order Generation

Reliability Centered Maintenance
• Condition-based maintenance
• Interval-based maintenance
• Reactive maintenance
Condition-Based Maintenance

- Inspection driven
- Includes predictive maintenance
- Can incorporate real-time monitoring
Interval-Based Maintenance

- Asset condition not considered
- Lower risk with well defined life spans
- Regularly scheduled maintenance or replacement
Reactive Maintenance

- Asset condition not considered
- Maintained or replaced as needed
- Lower risk and slower deterioration
Benefits of Connecting the Dots

- Increased productivity
- Increased efficiency
- More timely maintenance
- More cost effective maintenance
Benefits of Connecting the Dots (cont’d)

- Increased transparency to stakeholders
- Increased collaboration throughout agency
- Full asset information from cradle to grave
Thank you!

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