2022 ESRI USER CONFERENCE

Partner Use Case: Infotech

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Infotech + GIS

Infotech provides e-Construction solutions to the civil construction industry.

Working with GIS partners Esri and Cultivate to support the asset lifecycle through integrated solutions for connected construction.

- Access near-time project progress data
- Integrate construction and GIS data to support connected construction
- Display construction progress information on intuitive GIS dashboards
- Transparency

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cultivate
BUSINESS PARTNER

Current State

Infotech has a current integration between the Appia® service and Esri ArcGIS online and Enterprise.

- Serve local municipalities or State-level organizations
- Multi-project overview information with funding details
- Executive level overview of regional or district portfolio

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Future State: Visualizing Construction Data

Infotech and Esri Integrations

Increase transparency and visibility by tracking project activity in one hub, including funding usage, field data collection, project progress, payments, and more.

CONNECT

- Infotech and the Owner's Esri Account
- Aggregation and display capabilities

COLLECT & RECORD

- Manage the project progress
- Capture precise geometry and spatial information using a rover
- Field data captured is translated to quantity placed and location data in inspector's daily report

VISUALIZE

- Construction project data is displayed in Esri dashboards
- Scalable for both single municipalities and state DOTs
- Executive level overviews of portfolios

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ENTERPRISE DATA LIFE-CYCLE MANAGEMENT & GIS

Shawn Blaesing, GISP
Maintenance GIS Coordinator
Maintenance Bureau
IOWADOT
SMARTER I SIMPLER I CUSTOMER DRIVEN

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"It's important that the data doesn't stop in construction and we can have benefits and use it through the whole life cycle"

In summary…

Enterprise Data Life-Cycle enhanced with GIS Data provides extensive value

- Decision Making, Data Quality and Process Improvement
- Accuracy, Constancy-Data Entry and Sustainability
- Cost Savings, Safety and Accountability

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ISSUES LIMITING TRANSPORTATION AGENCIES FROM SUCCESSFULLY MANAGING EDLM

Shawn Blaesing, GISP
Maintenance GIS Coordinator
Maintenance Bureau

IOWA DOT
SMARTER I SIMPLER I CUSTOMER DRIVEN

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"The biggest issue is resources"

In summary…

Issues limiting transportation agencies from successfully managing EDLM

- Communication Lack of Coordination
- Unclear Roles
- Training
- Lacking Resources
- Lack of Structured Framework

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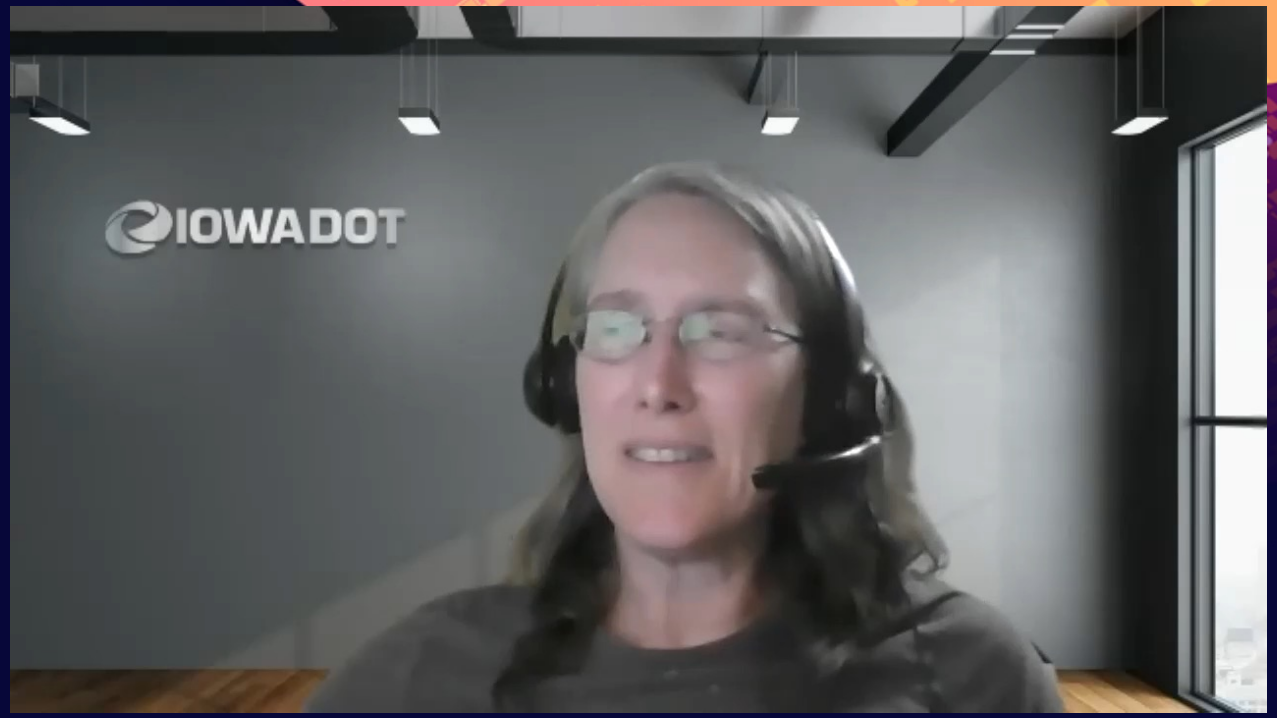

ALIGN STANDARDS, PROCESSES AND PROCEDURES ACROSS DESIGN, CONSTRUCTION, GIS, ASSET MANAGEMENT DEPARTMENTS AND PEOPLE

Shawn Blaesing, GISP
Maintenance GIS Coordinator
Maintenance B

IOWA DOT
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"You have to make data management part of everyone's job"

In summary…

To align standards, processes and procedures across design, construction, GIS, asset management departments and people

- Address diverse groups, needs, and competing priorities
- Cross functional coordination – learn the why for the different work groups
- Organizational change management
- Standards across teams

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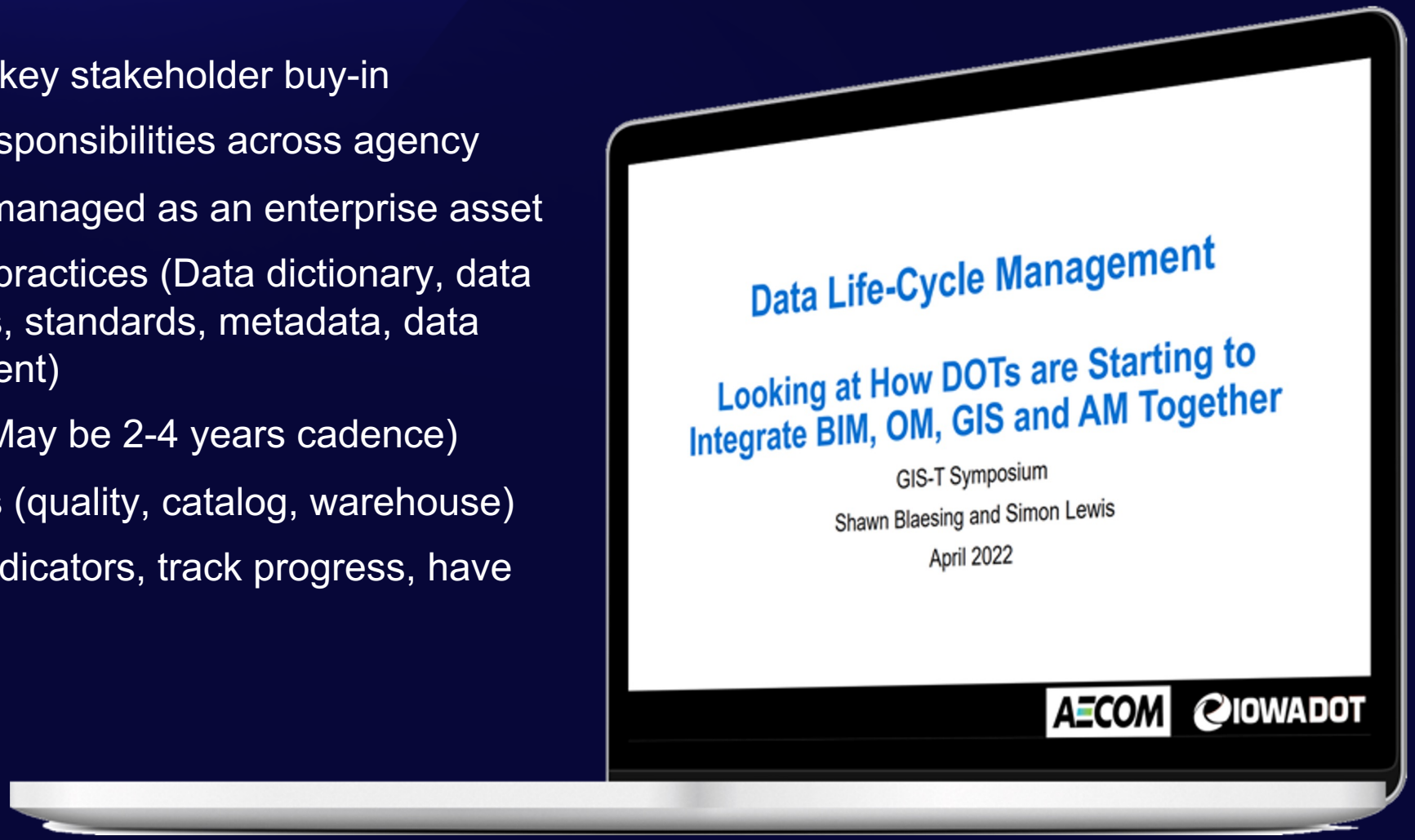
"We have a come a long way in digital delivery, but there is much more to do. We need to work together to understand what information we need to attach to our object-based models. We can set up our design model data to carry information that is useful to others, things like proper geolocation and a couple of attributes seem like small things, but they are not. These small steps will enable us to exchange information between people and systems. **We need to work together as an industry, owners, designers, contractors and software developers to find ways to connect model-based information to construction management system and GIS-based asset inventories**."

HDR

Alexa Mitchell, P.E.
Transportation BIM Program Manager

Steps for Agency Success

- Get executive champion / key stakeholder buy-in
- Define policy, roles and responsibilities across agency
- Define what data is to be managed as an enterprise asset
- Define data management practices (Data dictionary, data governance, specifications, standards, metadata, data quality, records management)
- Revisit/Iterate Steps 2-5 (May be 2-4 years cadence)
- Implement enterprise tools (quality, catalog, warehouse)
- Define key performance indicators, track progress, have accountability



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Steps for Success with Infotech

Infotech is taking part in these industry shifts by geo enabling our e-Construction solutions

- Integrations with ArcGIS
- Partnerships with esri and Cultivate Geospatial
- Pilot Projects (Ask to Join our Pilot Program)
- Defining data management practices (Data dictionary, data governance, specifications, standards, metadata, data quality, records management)
- Define key performance indicators, track progress, have accountability

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Smart partnerships create the best possible solutions. What can we build **together?**

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