State of the Industry

Derricke Gray, Product Manager, Bentley Civil
PARADIGM SHIFT
Drawing-Driven

Model-Driven

Data-Driven

Today
WHY
AMG
Control Costs
Lower Risks
Improve Quality
Increased Productivity
Lays a Foundation for the Future
Etc.
“The calculated net benefit for MDOT’s implementation of RID 3D models for years 2012-2016 was over $18 million. These savings translated into a 32 percent ROI, meaning that for every dollar invested in 3D models, MDOT received a return of 32 cents.”
Decrease in productivity

The Construction Production Imperative, McKinsey Productivity Sciences Center, June 2015; USDA Economic Research Services
Technology
Deliverables
What’s the problem?

“Specialists in the various disciplines have been able to optimize their own in-house operations … most failures are caused by poor handoffs between disciplines.”
- Tommelein and Gill (1999)
Modeling Evolution

1985 – 1992
1992 – 2004
2004 – 2014
2014 - ...

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Inefficient Data Flow
What’s the solution?

Better data flow across applications and disciplines through the use of an intelligent model.
Software: One Piece of the Puzzle

- Software
- Workflows and Business Practices
- Funding
- Equipment
- Standards and Regulations
- Hardware
- Manpower & Expertise
- Politics
Integrated Modeling Environment
Context Capture Connect Edition
Companion Capabilities and Products

- ContextCapture
- ConceptStation
- OpenRoads Designer
- gINT Civil Tools

MicroStation Connect Edition
Companion Capabilities and Products

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- OpenBridge Modeler
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- **OpenBridge Modeler**
- **Point Tools**

(Bentley Systems, Incorporated)
Companion Capabilities and Products

MicroStation Connect Edition

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Point Tools

Drainage & Utilities
OpenRoads Construction Integration
also FHWA, USACE

FunctionalWorkspace migration to ORD (Completed or In Progress) also FHWA, USACE

Active ORD Migration

Not Started

Non Bentley Civil

Non Started

Non Bentley Civil
Thank You!

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