

Stantec

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Adoption of 3D Model-Based Design, Digital Delivery, and BIM

Adoption of 3D Model-Based **Design, Digital Delivery, and BIM**

What is Digital Delivery?

Digital Delivery status at State DOTs

Benefits and challenges of Digital Delivery

The future of Digital Delivery









Why is Digital Delivery Happening? BETTER PUBLIC INVOLVEMENT DIGITAL TWIN REDUCED CONTRACT CHANGE ORDERS PROJECT RISK MITIGATION ASSET MANAGEMENT DATA CONSTRUCTABILITY INTEGRATE BUSIESS PROFESSIONS IMPROVED ROJECT CONSTRUCTION COST IMPROVED CONSTRUCTION SAFETY FINISH ON SCHEDULE CONNECTED LIVE DATA IMPROVED DESIGN QUALITY PROJECT COLLABORATION

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BIG Civil Infrastructure Project BIM Problem

- Lack of interoperability: The existing technology stack used by OWNER for their infrastructure model management may not be compatible with other platforms and systems, leading to silos of data and a lack of collaboration between stakeholders.
- Inefficient workflow: Without a standardized workflow, the management of infrastructure models can be time-consuming and error-prone. This project aims to streamline the process by identifying workflow needs for each stage and assembling an appropriate technology stack for each stage.
- Ensuring accurate and up-to-date models: By using IFC as a model of record and maintaining IFC element permanence, this project aims to ensure that models are always accurate and up-to-date throughout the project lifecycle, which can help avoid delays and cost overruns and improve project efficiency.







In Summary:

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