

Going Digital: Increase Performance and Productivity Using A Common Data Environment

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Abstract

Interoperable design, modeling and analysis are keys to the success of today's bridge projects. The next generation of bridge modeling software requires that it be purpose-built for bridge designers and contractors who need to create, construct, maintain, and document a wide variety of bridge information throughout the lifecycle of the asset.

Building and exchanging information in a common data environment using information-rich 3D model increases data quality, collaboration, constructability and operational aspects including asset management. Reduction in the project's overall costs for the entire ecosystem are important for all stakeholders and the availability of intelligent 3D models are a key component in providing accelerated project delivery and information mobility.

How much is too much information and to what is our goal? Can we shorten the construction schedule? Are we designing for construction and can we meet the expectations of the travelling public during construction with the proposed design? A true data model addresses these questions and progresses the integrity of our engineering profession. This is when vision meets reality.

The purpose of this presentation will be to provide an overview of how technology can provide cost savings with the ability to interoperate with all stakeholders during design, construction and beyond on bridge projects of all sizes.