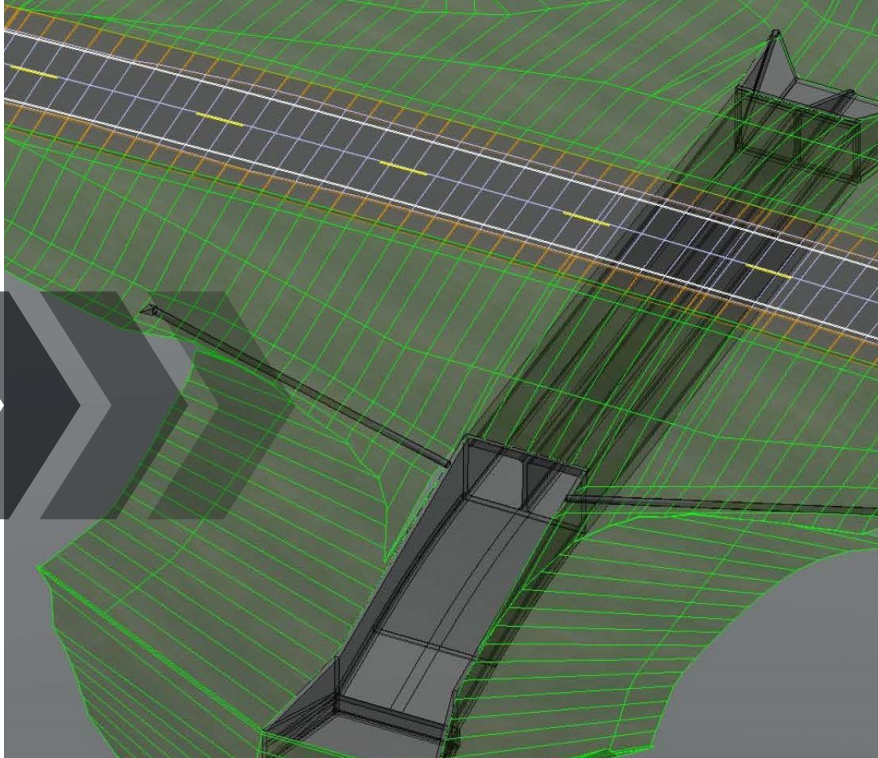


DECEMBER 2023



ABOUT THIS PROJECT

PROJECT NAME: Building Information Modeling (BIM) for Infrastructure

PROJECT NUMBER: TPF-5(480)

PROJECT FUNDING PROGRAM: Building Information Modeling (BIM) for Infrastructure, a 21-state collaborative research effort

PROJECTED END DATE: December 2027

PROJECT CHAMPION:

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PRINCIPAL INVESTIGATOR:

BIM Launch Alliance JV

RESEARCH IN PROGRESS

Improving asset management with Building Information Modeling

Transportation agencies generate volumes of data for designing, building, and maintaining transportation infrastructure. Multiple programs and disciplines are engaged in numerous aspects of asset management, and data sets often reside in different platforms, systems, work areas, and even agencies.

Building off Federal Highway Administration efforts to integrate information platforms across highway assets and business processes, Iowa DOT leads the Building Information Modeling (BIM) for Infrastructure pooled fund (TPF-5(480)), which includes 20 other state departments of transportation (DOTs), as well as a related pooled fund for bridges and structures (TPF-5(372)).

“There are many foundational

issues in BIM for Infrastructure to coordinate, including data classifications, capacity-building, and stakeholder engagement,” explained Michael Kennerly, director of Iowa DOT’s Design Bureau. “Validation, certification, and implementation of data requirements are some topics to work out before moving to applications.”

The multiyear effort will develop recommended standards and processes for data exchange and digital workflows, geographic information systems applications, and asset inventories. Researchers will establish suggested project selection criteria, a workforce training curriculum, and data management tools and techniques.

This comprehensive project is a concerted effort to enable

collaboration for creating, storing, processing, analyzing, and exchanging data across DOT functions—from planning to asset management. The results could save time and resources, and lead to better-quality information to support decision-making. “BIM is about leveraging and integrating data from multiple sources—freeing it from traditional silos inherent in our agencies,” Kennerly said.

The research is expected to conclude in December 2027.

To learn more about this project and subscribe to updates, visit [Idea #3169](#).

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