

BIM WORKFLOW FOR CIVIL PROJECTS

HOW AND WHY TO ADOPT BIM FOR INFRASTRUCTURE PROJECTS

The adoption of BIM for infrastructure projects is driven by time and money. A simple answer to a complex issue, but one supported by data.



The use of BIM in transportation projects rose from 50% in 2015 to nearly 80% in 2017.



Its adoption within water-related projects averaged 69% in 2018 and is projected to rise to nearly 90% by 2020.



BIM provides common benefits to both vertical and horizontal uses, but often has unique applications in infrastructure. In fact, 87% of infrastructure professionals say they find value in BIM.

Owner impetus is one factor driving BIM adoption, with more than one-third of owners requesting it. There is a growing trend in European countries to mandate the use of BIM on government-funded projects. Yet rules and mandates rarely work in the long-term if the economic drivers aren't there to support it.

Broader adoption of BIM is set to unlock 15–25% savings for the global infrastructure market by 2025, and the world BIM market will be a \$11.7 billion (U.S.) industry by 2022.



Infrastructure professionals who say they find value in BIM

OTHER FACTORS AT PLAY

Standards

BIM standards are crucial to ensuring consistency in measurement and analysis.

Scalability

Project size matters on the perceived ROI.

Complexity

Infrastructure professionals consistently rank project complexity as the top factor driving their decision to use BIM.

Training

Continued training on BIM platforms and best practices for integration with other discrete and interoperable software systems are essential to build momentum.

Use Throughout the Project Life Cycle

BIM is most often used during design development and construction, but additional value can be captured by increasing the use of BIM during O&M phases.

→ Learn more about how BIM is transforming infrastructure – call your Autodesk representative today.