



3 Industry Trends

That Every Project Leader Should Know

*and How You Can Adapt
and Succeed*

Bentley[®]
Advancing Infrastructure

The world is changing. Projects have become more complex, new standards of work have been introduced, and firms face increasing expectations to drive better project outcomes.

As digital transformation has swept the engineering, architecture, and construction (AEC) industry, it has become more imperative than ever for design project managers to ensure that they deliver projects faster while minimizing cost and risk.

In this e-book, we outline how the industry is changing and provide insights on how to stay ahead of the curve to continue delivering your best results.



Trend 1: Increasing Project Complexity

THE DISTRIBUTED PROJECT TEAM

In today's globalized world, project teams are larger, more geographically distributed, and span multiple organizations. To avoid hindered productivity, your manual and outdated collaboration methods need to be replaced by more effective methods that can scale across your project data.

NAVIGATING BIG DATA

The growing complexity of projects has created an unprecedented amount of project data, most of which remains "dark data." To save time and reduce contractual risk, it is critical to ensure that this data is properly stored and managed, accessible by all team members, and can be readily analyzed into actionable insights.

MEGAPROJECTS ON THE RISE

While megaprojects are becoming increasingly commonplace, research shows that many are not performing to expectations as firms struggle to find ways to handle the magnitude and risks involved. Your firm must improve their ability to effectively manage complexity to avoid delays and costly rework.



Trend 2: New Models of Delivering Projects

BIM AS THE NEW STANDARD

Building information modeling (BIM) practices have become the expected standard of work and are proven enablers of effective project delivery. Design project managers need to demonstrate competency on these proven BIM best practices to reduce risk, improve quality, and increase profit margin.

COLLABORATIVE CONTRACTING MODELS

There is a shift toward collaborative contracting models, which impart shared risk across owners and consultants. To more effectively track performance and mitigate issues early, you need more transparency across your team and access to on-demand project analytics.

PERFORMANCE-BASED DESIGN

Increasing project complexity has caused a shift from prescriptive to performance-based design. Instead of merely checking off compliant items, your focus has moved to meeting the specific needs of the projects, necessitating more effective collaboration and transparency between owners and clients throughout the project lifecycle.



Trend 3: Increasing Performance Expectations

AN INCREASINGLY COMPETITIVE LANDSCAPE

With globalization and industry consolidation on the rise, there is increased competition in the AEC landscape. To remain successful, you need to establish competitive advantages, leveraging new digital solutions to deliver project within tighter margins while maintaining quality.

PUBLIC-PRIVATE PARTNERSHIPS

The infrastructure investment gap has led to a rise of public-private partnerships. To attract funding, owner-operators need to demonstrate that they are implementing proven strategies to reduce inefficiencies and risk. These imperatives then carry through to the design team, which needs to operate as efficiently and transparently as possible.

THE RISE OF DIGITAL INNOVATIONS

Increased digital collaboration and mobility, automated workflows, and access to on-demand project analytics are enabling firms to substantially improve their project delivery practices. Project leaders must act now to transform their work processes or risk being at a costly and difficult to overcome disadvantage.



What Does This Mean for You?

As the industry quickly advances forward, relying on the same methods of work will only make it more difficult to deliver projects on schedule, within budget, and according to specifications. Changing how you work can seem daunting – but sticking with legacy work processes prevents you from embracing new solutions that can make it simple for you to consistently deliver your best results.

There are 3 key ways you can change how you execute your projects to successfully adapt to these industry trends:

- *Facilitate greater digital collaboration throughout the project lifecycle*
- *Advance how project information is accessed and managed*
- *Enable more proactive, data-driven project management decisions*

Facilitating Greater Digital Collaboration

CHALLENGE

MANUAL WORKFLOWS AND COLLABORATION BARRIERS IMPEDE PRODUCTIVITY

Collaboration in your design teams often relies heavily on manual and inconsistent workflows for critical information exchanges, design reviews, and approvals. As your teams increasingly span geographic distances, disciplines, and organizational lines, your productivity falls far below what is possible, and carries avoidable quality, schedule, and margin risk.



SOLUTION

ENABLE AUTOMATED, STANDARDIZED, AND SCALABLE WORKFLOWS

Digital workflows streamline and automate key process, making it simple to bring your team together and have them readily collaborate on design work. These practices also reduce risk by ensuring your information remains tracked and managed throughout collaborative workflows, leading to complete and accurate records throughout the project lifecycle.

Streamlining Project Information Processes

CHALLENGE

INFORMATION IS SCATTERED, OUTDATED, AND DIFFICULT TO MANAGE

Your projects routinely store design information in multiple silos and use manual workflows to exchange it and coordinate design changes. This situation often results in your team wasting time working against outdated information, which creates risk due to lost or incorrect information with a lack of traceability and transparency.



SOLUTION

ESTABLISH A SINGLE SOURCE OF TRUTH FOR ENGINEERING INFORMATION

By creating and maintaining a single source of truth readily accessible to users across your project, engineering information can be found quickly and reused confidently. Not only can you improve productivity, you can also do it knowing that the information being used is accurate, up-to-date, and managed, avoiding rework.

Enabling More Proactive Project Management

CHALLENGE

INADEQUATE REPORTING ON DESIGN PROJECT PERFORMANCE

Extracting and analyzing data on the status of work-in-progress is difficult and time-consuming. Your reports are completed infrequently, with limited scope, and are often outdated as soon as they are published. With this limited insight, you struggle to manage risks and meet the increasing stakeholder reporting requirements.



SOLUTION

ENABLE ON-DEMAND PROJECT ANALYTICS

On-demand analytics on the status of design work-in-progress enable you to leverage project information for timelier and more informed decision-making. This creates an opportunity for you and your team to more proactively manage projects, improving design project performance and transparency.

Adapt Today with ProjectWise®!

Efficiently deliver quality design projects

ProjectWise – our collaboration and information management solution, developed for the specific needs of infrastructure projects – enables design project leaders to consistently deliver projects on schedule, within budget, and according to specifications by seamlessly connecting teams, information, and workflows throughout the design project lifecycle.

With ProjectWise, you can:

Increase the Speed and Quality of Collaboration

- Keep your entire team on schedule through a common set of standards and workflows.

Streamline Access to Project Information

- Coordinate design work among stakeholders with instant access to up-to-date information

Drive Better Project Outcomes

- Make timely data-driven decisions based on on-demand project insights

Learn more about ProjectWise today.

