

# It Starts in the Field:

4 Ways Successful  
Heavy Civil Projects  
Leverage Field Data

SYNCHRO™ | get time on your side



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# Introduction

Over the years, many sectors around the world have moved rapidly towards technological innovation. The construction industry, however, has historically lagged in technological adoption.

## But that is changing.

As projects continue to grow larger and more complex, contractors must implement digital solutions to stay ahead of the curve.

In this e-book, we will break down the benefits digital field solutions bring to heavy civil contractors. From simplifying data collection on the job site, to increasing project transparency and collaboration... leveraging technology to digitalize and automate processes has now become crucial to ensure successful project outcomes.



# Unique Challenges *in Heavy Civil Projects*

The heavy civil sector has unique challenges that teams need to anticipate.

- ◆ Environmental conditions and public requirements
- ◆ Inability to disrupt surrounding infrastructure
- ◆ Large-scale linear and spatial logistics

Connecting teams in a digital environment is crucial to staying efficient and keeping everyone aligned. Digital applications enable field teams to capture project information in real-time and communicate issues immediately to teams in office.



# Leverage Project Data *Efficiently*

Data analysis is the key to gaining deeper insights into project performance and driving efficient operations.

**Mobile field applications automate processes, so that you can easily generate:**

- ◆ Reports
- ◆ Dashboards
- ◆ Business Analysis

**61%**

Of horizontal contractors report seeing a high to very high difference in project data value when using field management applications.\*

\*Statistics obtained from [Dodge Data Survey 2021](#)



# Drive Stronger Decision Making *with Deeper Data*

Putting the right data in the hands of the right people at the right time so they deliver the best results is imperative.

Having access to specific data when you need it gives your team the insight to coordinate efforts and make quick decisions crucial for successful outcomes.

## Instant data access in field drives:

- ◆ Greater team transparency and collaboration
- ◆ Better decision-making in a time-sensitive environment
- ◆ Optimized processes by identifying project weaknesses

76%

Of horizontal contractors report using applications to increase team coordination.\*

\*Statistics obtained from [Dodge Data Survey 2021](#)



# Optimize Resource Allocation *to Minimize Cost Overruns*

Heavy civil projects require logistics and resources to be carefully managed for success.

Without the right scheduling methods, idle resources could be improperly allocated away from critical path activities, resulting in missed project deadlines and budget overruns.

**Digital applications ensure that you stay on top of schedules and:**

- ◆ Have full visibility into resource statuses
- ◆ Save money by avoiding improper resource allocation
- ◆ Manage project logistics more effectively

**65%**

**Of respondents said that construction cost overruns are the biggest risk that field management and project management applications are reducing.\***

**98%**

**Virtually all horizontal contractors perceive that the use of field management and project management applications results in a decrease in schedule delays.\***



\*Statistics obtained from [Dodge Data Survey 2021](#)



# Mitigate Risks and Issues *with Instant Real-time Data*

Lack of project transparency and team coordination could very well break your project.

## Real-time data ensures:

- ◆ Team alignment on project standing to avoid conflicts
- ◆ More time to respond to unforeseen issues
- ◆ Connected processes for greater team collaboration

61%

Of civil contractors report using field and project management applications that support project team coordination.\*

\*Statistics obtained from [Dodge Data Survey 2021](#)





# Did You Know?

Ensuring your team has the right digital applications – in the field and office – to capture and analyze rich project data can drive more successful project outcomes.

**The key is finding a digital solution that simplifies your team's daily tasks and data collection.**

**Check out SYNCHRO** – a complete portfolio of integrated applications from field to office for digital construction management.

**SYNCHRO Field** – a mobile solution that enables field teams to access and capture the field data they need when they need it. It is a team's digital clipboard to easily capture issues, photos, inspections, and progress.

**SYNCHRO Control** – a web-based project management solution for all project data, documents, analysis, and insights in one place that enables project goals to be reached faster.

Learn how SYNCHRO can benefit you!

Visit [www.bentley.com/SYNCHRO](http://www.bentley.com/SYNCHRO) or call **1.800.BENTLEY**.

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