



Get Time on Your Side

Learn how key roles in a construction firm use SYNCHRO to solve everyday challenges and save time at each project stage.



SYNCHRO[™]

Vice President of Operations

The Challenges

- ◆ The average construction project sees an 80% budget overspend.
- ◆ Using Excel sheets and take-offs from 2D plans is time-intensive and error-prone, making it easy to either lose a bid or win projects that will not make money.
- ◆ Your team uses multiple disparate systems and processes riddled with errors that often result in surprises at the end of month, as well as schedule and cost risks.
- ◆ Inconsistent project management tools that result in damaged and lost client relationships.

The construction productivity imperative, McKinsey & Company, 2015

The Solution

1 SYNCHRO enables a vice president of operations to expose, manage, and reduce risk; ensure construction operations are profitable; build and maintain great client relationships; and win more work by delivering:

- ◆ 3D models that can be split up into constructible pieces that represent how the project will be built.
- ◆ A single collaborative platform to empower teams, increase project transparency, and improve decision-making.
- ◆ Unified digital workflows ensuring that issues are resolved before they affect the project schedule and budget.
- ◆ Predictable project outcomes without any surprises.



Project Director

The Challenges

- ◆ The average construction project runs 20% over schedule.
- ◆ Multiple processes and systems make it difficult to ensure that the entire team is always on the same page, resulting in field errors, nonproductive use of resources, increased waste, and cost and schedule overruns.
- ◆ Data is captured in an inconsistent manner through disconnected systems, leading to time-consuming reviews and inaccurate reports.
- ◆ Outdated design data is nearly impossible to track down, increasing the risk of construction errors.

The construction productivity imperative, McKinsey & Company, 2015.

The Solution

2 SYNCHRO enables project directors to create scalable processes and workflows to deliver projects on time and within budget, ultimately improving project outcomes by delivering:

- ◆ 4D models to validate how the project will be built.
- ◆ Business analysis with reports and dashboards based on real-time project data.
- ◆ Up-to-the-minute reports with accurate tracking.
- ◆ Complete, real-time insight into what is transpiring in the field.



Vice President of Project Controls

The Challenges

The average project has over 2 million documents and 6 million tasks to manage. This leads to uncoordinated tasks, teams that are frustrated, and project delays.

- ◆ Data is often unstructured and in disparate systems. As a result, teams only use about 4% of available data and spend half a day looking for it, causing inaccurate and delayed reports.
- ◆ The lack of real-time field data and site situational awareness leads to increased project risk and schedule and cost overruns, as well as an inability to make smart and timely decisions about productivity, quality, and safety.

The construction productivity imperative, McKinsey & Company, 2015.

The Solution

SYNCHRO enables a vice president of project controls to have one place to access, capture, manage, analyze, and collaborate on data and workflows, ensuring that projects stay in control, on budget, and on schedule by delivering:

- ◆ A task management solution, including issues, RFIs, and submittals.
- ◆ Managed and organized data and documents in project context.
- ◆ Controlled data access and creation based on the role and organization.
- ◆ The ability to communicate job tasks efficiently and immediately to complete tasks on time or ahead of schedule.
- ◆ Unified digital workflows so teams can access timely information and quickly detect and mitigate any potential issues.

3



Digital Leader

The Challenges

- ◆ The barriers associated with going digital make it difficult to promote, implement, and manage technological changes within an organization.
- ◆ Current disparate systems and processes and information silos are riddled with errors and inconsistencies, creating unnecessary operational inefficiencies.
- ◆ There are many manual, ad-hoc processes making simple tasks very time-consuming.

The Solution

4 SYNCHRO empowers digital leaders to implement their going digital strategy and optimize business practices and develop differentiation to win work and attract and retain talent by delivering:

- ◆ A digital line of sight between the field and project and organizational executives.
- ◆ Best in class, standardized construction-specific workflows.
- ◆ Guided implementation by experienced industry experts.



Construction Manager

The Challenges

- ◆ Making sure everyone is working safely.
- ◆ The inability to seamlessly communicate between the field and the office often results in delays and poor decision-making.
- ◆ Manual workflows, duplicative data entry, and inconsistent documentation create inaccurate information and a lack of trust among teams and systems.
- ◆ A lack of remote access to project plans makes it hard to ensure the team is working off the latest designs, leading to costly rework.

The Solution

5 SYNCHRO enables construction managers to seamlessly communicate between the office and the field and access reliable, real-time project data, ultimately ensuring safe and productive operations at the job site by delivering:

- ◆ 4D project simulations to better communicate to project teams.
- ◆ Consistent data capture through configurable construction forms.
- ◆ A document management system to easily record issues and increase safety.



Chief Financial Officer

The Challenges

- ◆ Many redundant systems create inefficiencies and unnecessary extra costs.
- ◆ Inaccurate and siloed data leads to incorrect monthly accruals and forecasts, as well as inaccurate cost and profit position reports.
- ◆ Lack of access to accurate, timely data can cause extra pressure to create reports with confidence and certainty by the deadline.
- ◆ There is difficulty maintaining compliance for things such as invoice validation and timecards for labor and plant to ensure people get paid.

The Solution

6 SYNCHRO enables CFOs to increase profits and maximize cash flow, maintain financial compliance, and manage contractual client relationships by delivering:

- ◆ Accurate and timely accruals.
- ◆ Reliable and accurate time and cost allocation of project resources.
- ◆ More accurate cost forecasts by understanding the remaining work and forecast productivity.
- ◆ More certainty about justification and approval of variations.



Chief Information Officer

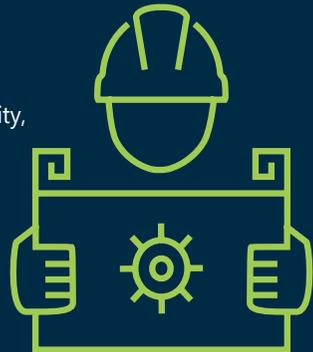
The Challenges

- ◆ Many redundant systems create inefficiencies and unnecessary extra costs.
- ◆ Manual processes and workflows that increase the probability of single points of failures can cause errors and inaccurate forecasting and reporting.

The Solution

7 SYNCHRO enables CIOs to optimize business processes, reduce system costs, and maintain system security, data compliance, and control by delivering:

- ◆ A single, integrated construction management platform.
- ◆ Off-the-shelf software with built-in security, support, and continuous updates.
- ◆ Quick and easy implementation with minimal in-house resources required.





SYNCHRO™

Get Time on Your Side

*A complete portfolio of integrated software and services
for digital construction management*



4D

Cloud and Desktop
Planning and
Virtual Construction

Use real-time digital construction environments for model-based planning and controls.

- ◆ Constructible model objects
- ◆ 5D construction models
- ◆ Visualize, analyze, and track
- ◆ Logistics and temporary works
- ◆ All team members involved in a transparent process



CONTROL

Web-based Project
Management and
Document Controls

View, access, capture, manage, analyze, and collaborate in one place.

- ◆ Location based and in context
- ◆ Construction document management
- ◆ Task management
- ◆ Issue management and RFIs
- ◆ Data reporting and dashboards



COST

Web-based Cost
Management
Solution

Control your budget and manage all changes, minimizing financial risk and maximizing project profits.

- ◆ Contract capture capability
- ◆ Schedule of values (SOV)
- ◆ Collaborate on change orders
- ◆ See and track your potential change orders
- ◆ Payment application (pay apps)



FIELD

Mobile
Field
Management

Speed field data access and capture, improve data quality, and enable real-time reporting.

- ◆ Easy to use, and in context
- ◆ Documents to the field
- ◆ Issues and inspections
- ◆ Completions and check-lists
- ◆ Progress tracking
- ◆ Daily logs



PERFORM

Field-based
Construction
Delivery Solution

Drive project performance with real-time field progress and cost data, project reports, and insights.

- ◆ Project performance management
- ◆ Resource management
- ◆ Field-based progress capture
- ◆ Early warning of unplanned events

[Visit www.bentley.com/synchro to learn more
about SYNCHRO today.](http://www.bentley.com/synchro)