

Meet **SYNCHRO™**

Heavy Civil's Leading
Digital Construction
Management Platform





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Introduction

As the demand for infrastructure continues to expand, so do industry challenges. Increasing delivery expectations have added multiple degrees of difficulty to projects.

To meet these demands, teams need to leverage the best digital solutions to better manage, connect, and access project data, ensuring that they can make better and faster project decisions.

SYNCHRO was built with those goals in mind - simplifying the everyday challenges of digital construction management.

Project Complexity



Resource Availability



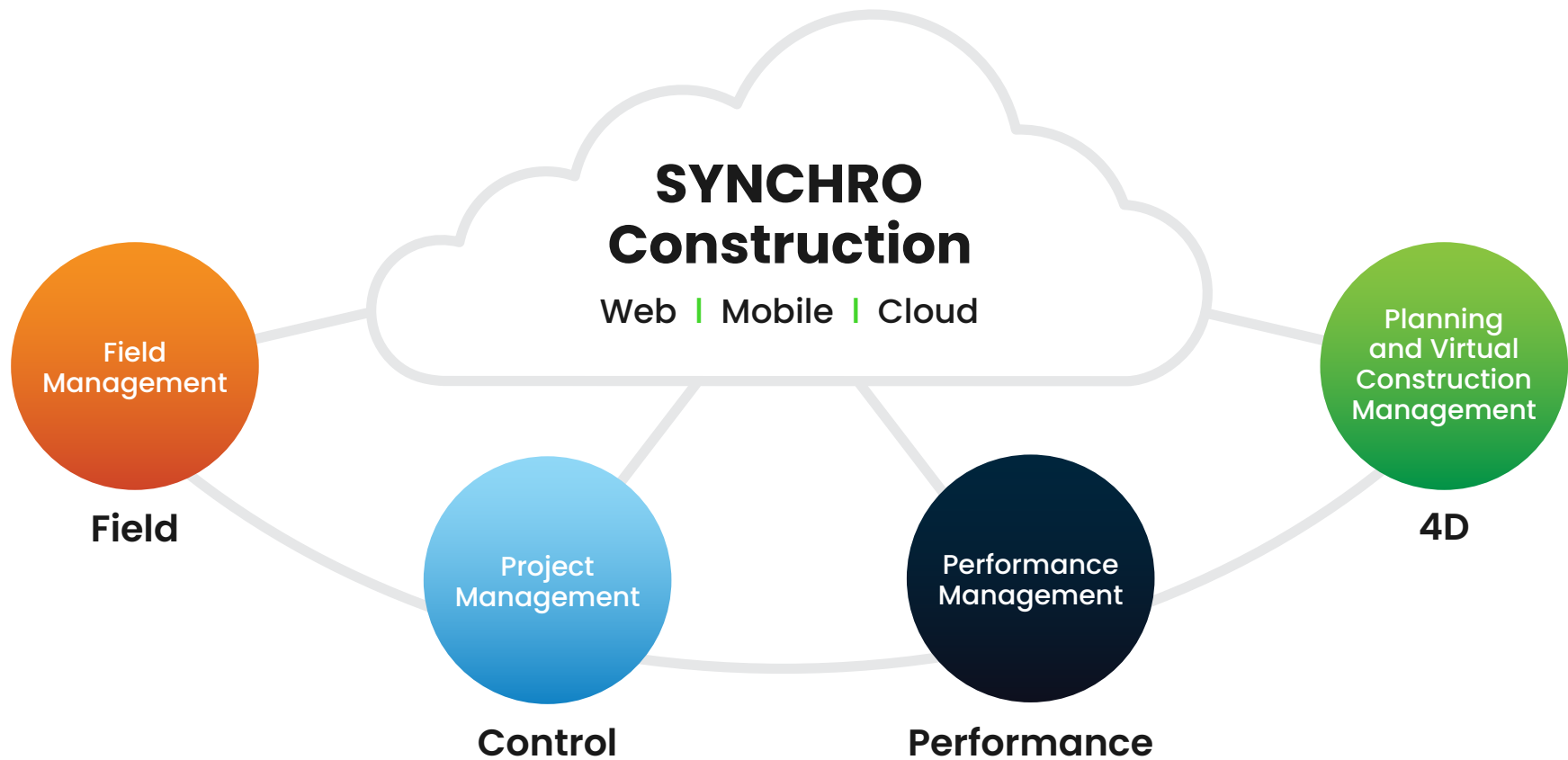
Data Transparency



Meet SYNCHRO

SYNCHRO is the leading heavy civil construction management platform for managing heavy civil design data through to construction handover. Teams can seamlessly capture, access, and analyze their data in full project context while better managing tasks, people, materials, and equipment.

With SYNCHRO's full project management cloud collaboration, teams can connect all project teams and stakeholders, from field to office.



The SYNCHRO Difference

SYNCHRO is a digital solution portfolio that connects a broad set of workflows and data, enabling heavy civil construction firms to win projects, deliver them efficiently, and get paid by:

Advancing
Infrastructure
Construction

Digitizing Field
and Construction
Operations

Leading the
Industry to
4D Digital Twins

Get to Know SYNCHRO

Discover a few of SYNCHRO's capabilities that drive value for construction...

10 SYNCHRO Capabilities You May Not Know

- 1. Drive winning projects** with a complete heavy civil construction management solution that is powered by iTwin®
- 2. Leverage the powerful CPM scheduling engine,** equipped with Gantt views and bi-directional connections with P6, Microsoft Project, and other scheduling applications
- 3. Slice and dice models** into constructible components for quantity take-off and scheduling
- 4. Manage your tasks and data in real time** in 2D, 3D and 4D context, using web browsers and mobile applications
- 5. Expedite operations** in the field, including inspections, time tracking, and resource optimization
- 6. Access all 3D/4D models,** PDFs, documents, and heavy civil project capabilities directly in the field on mobile devices
- 7. Manage all project costs,** including contracts, change orders, and payment applications
- 8. Exploit the power of AI** to search and find photos, videos, and other content in seconds
- 9. Integrate directly with ProjectWise® Design Integration** to extend design content into construction delivery
- 10. Geolocate everything,** including PDFs, issues, inspections, photos, weather, and workflows

SYNCHRO Field

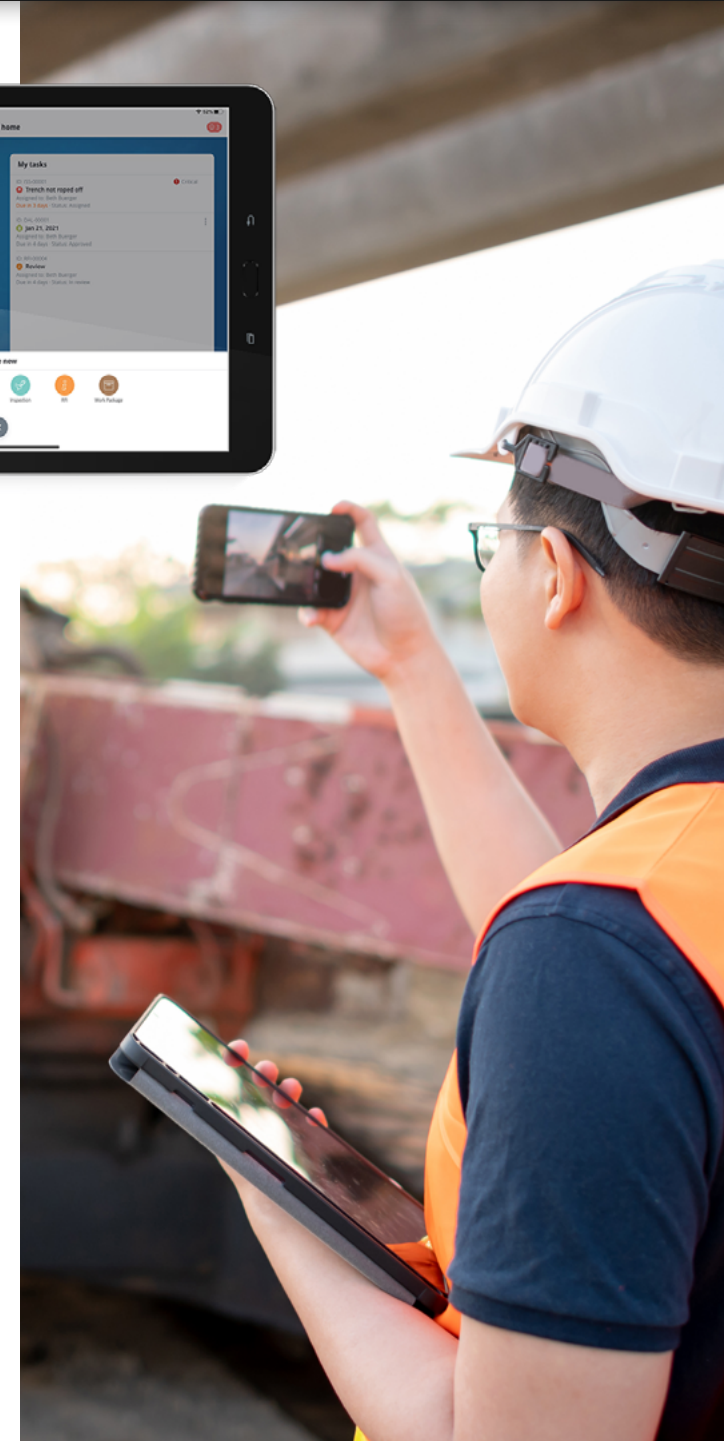
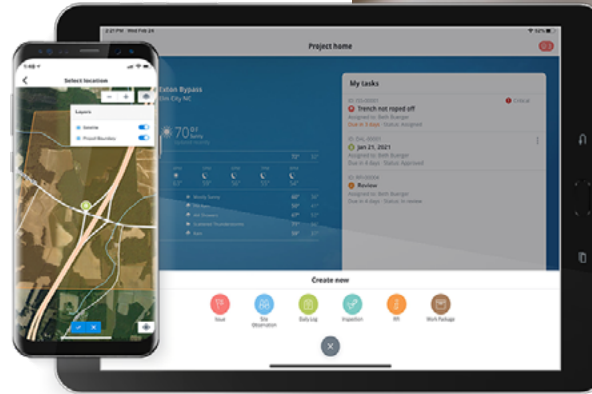
Solution for:
Field Management

Built for:
Superintendents, Foremen, Inspectors,
Field Engineers, and Project Managers

- ◆ SYNCHRO Field is a mobile solution built to solve field execution challenges.
- ◆ SYNCHRO Field makes it easy to access and capture data in context through maps, geo-PDFs, 2D CAD, and 3D/4D models. Teams can easily capture project updates, handle inspections and RFIs, create custom forms, flag issues, and view model progress. This real-time project visibility drives quicker decisions, improving overall productivity, quality, and safety.

Key Features

1. Know where you are on large projects (full geo-location services)
2. Simplify day-to-day tasks, including RFIs, inspections, daily logs, and issue resolution
3. Track project models in the field, even when offline
4. Capture real-time data at any moment
5. Access all project documents and media



SYNCHRO Control

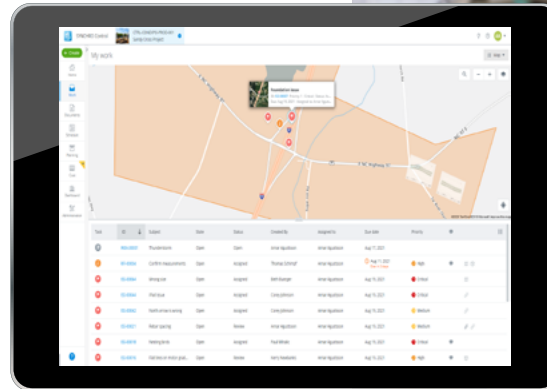
Solution for:
Project Management

Built for:
Project Managers, Project Directors,
Safety Managers, and Operations Managers

- ◆ SYNCHRO Control is a web solution for document, data, model, and task management.
- ◆ Teams stay connected around one central hub of project information. SYNCHRO Control's intuitive project tracking and analysis ensures real-time visibility into project progress for better team collaboration at every project phase.

Key Features

1. View PDFs on a map
2. Filter your project photos and videos by geo-location, date/time, context, and content
3. Set guest access permissions to help decide who on the project can view what information
4. Integrate with 4D models for schedule and sequencing views
5. Configure forms to your team's needs and export them to your own PDFs

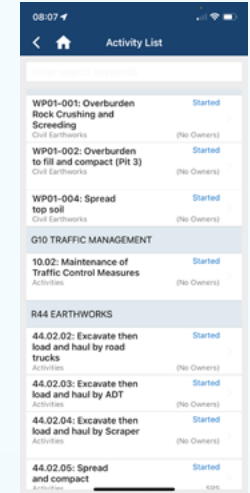
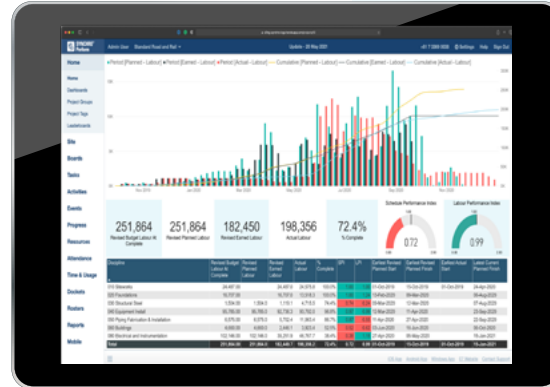


SYNCHRO Perform

Solution for:
Performance Management

Built for:
Superintendents, Foremen, Project Managers,
Safety Managers, and Quality Managers

- ◆ SYNCHRO Perform is a web and mobile solution that provides deep, real-time insights into project performance.
- ◆ Operations teams can more effectively manage time tracking, monitor daily costs, and optimize resources. With rich project insights, teams make better and quicker decisions to minimize project errors and maximize team productivity.



Key Features

1. Optimize resource management
2. Monitor and perform action on daily cost reporting and analytics
3. Understand the impacts of events on schedule and budget
4. Capture project progress in field in real time on your mobile device for true project health
5. Create site records, such as daily diaries, unplanned events, and progress



SYNCHRO 4D

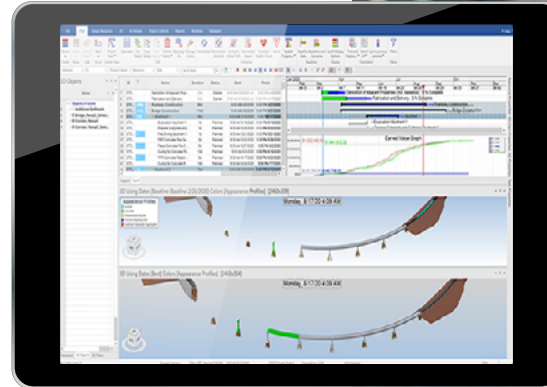
Solution for:

Virtual Construction Management

Built for:

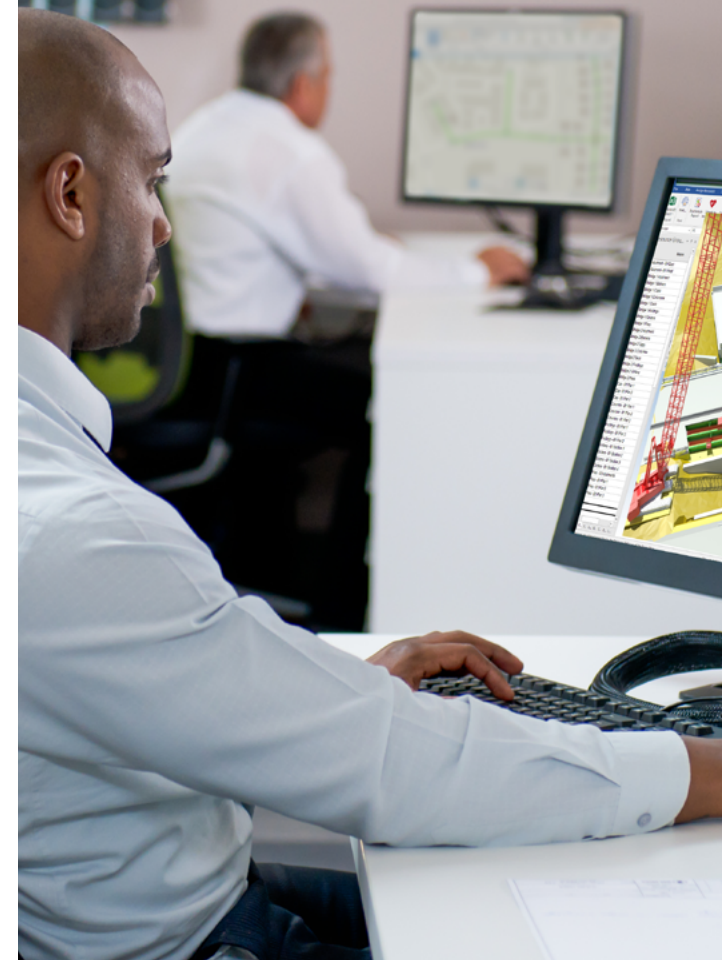
Planners, Schedulers, Estimators, Virtual Designers and Construction Engineers, and BIM Managers

- ◆ SYNCHRO 4D is the industry-leading modeling solution that enables teams to turn design models into construction models with cutting-edge model-based QTO, scheduling, and construction simulations.
- ◆ Teams can plan, optimize and track projects in a single visual, as well as identify issues and “what-if” scenarios early. The immersive 4D environment enables teams to reduce project risks and delays, and avoid costly rework.



Key Features

1. Take control of time by adding scheduling to your models
2. Leverage model-based QTO and create visual representations of your estimates
3. Optimize construction tasks by reviewing with stakeholders in an immersive environment
4. Plan and collaborate virtually to anticipate “what-if” scenarios and avoid mistakes in the field
5. Tackle the spatial challenges of linear projects and share real-time progress updates on the fly



SYNCHRO Capabilities Chart

	Guest	Field	Control	Perform	4D
Extended Team Data Access and Review					
Task access, review, and comment (web)	◆	◆	◆	◆	◆
Document/data access	◆	◆	◆	◆	◆
Field data capture only (t.b.d. = i.e. SYNCHRO Notes!)	◆	◆	◆	◆	◆
4D model review and comment (web)		◆	◆	◆	◆
Field management and mobility					
Documents to the field		◆	◆	◆	◆
4D model to the field and 4D model web collaboration		◆	◆	◆	◆
Tasks in the field - issues, RFIs, photos, daily logs		◆	◆	◆	◆
Model-based progress tracking		◆	◆	◆	◆
Quality inspections		◆	◆	◆	◆
Work plans to the field		◆	◆	◆	◆
Check/punch lists		◆	◆	◆	◆
Project Management					
Document management			◆	◆	◆
Issue and RFI management			◆	◆	◆
Notifications			◆	◆	◆
Map and location services			◆	◆	◆
4D model and schedule collaboration			◆	◆	◆
Inspections and completions			◆	◆	◆
Project insights and dashboards			◆	◆	◆
Cost Management					
Contract capture				◆	◆
Payment applications				◆	◆
Schedule of values management				◆	◆
Change orders and potential change order management				◆	◆

	Guest	Field	Control	Perform	4D
Project Performance and Field Capture					
Detail project reporting, dashboards, and data analysis				◆	◆
Aggregate performance data				◆	◆
Budget and change management				◆	◆
Resource management, equipment tracking, and inspection				◆	◆
Material management				◆	◆
Commissioning and handover				◆	◆
Time cards and HR active directory				◆	◆
ERP integration for progress and time				◆	◆
CPM scheduling, CPM analysis, and resource leveling				◆	◆
Daily work packages				◆	◆
4D/5D Planning and Virtual Construction					
Manage and view models			◆		◆
4D model-based schedules and simulations			◆		◆
Constructible model splitting					◆
Model-based quantity take off					◆
Model-based work planning					◆
Model-based project insights			◆		◆
Model cloud/CDE collaboration			◆		◆
Links to third-party applications			◆		◆
ISO processing					
Model aggregation			◆		◆
AWP and lean construction workflow support					◆

SYNCHRO | Get Time On Your Side

To deliver successful projects, heavy civil teams should be empowered with the right digital solutions to simplify tasks and meet deadlines and budgets — all while keeping everyone connected and on the same page.

SYNCHRO enables construction project teams to work faster, better, and safer.

Curious to learn more? Speak to one of our SYNCHRO experts to better understand how we can meet your project needs.

