



Press Release
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Bentley Systems Enhances SYNCHRO Construction Management Solution with New Capabilities and Applications

*Advancements in 4D/5D Models and Addition of Cost and Performance Management Make
Model-based Construction Projects Easier to Deliver*

EXTON, Pa. – Nov. 9, 2022 – Bentley Systems, Incorporated (Nasdaq: BSY), the *infrastructure engineering software* company, today announced advancements to its construction management solution with enhancements to SYNCHRO 4D and the addition of SYNCHRO Cost and SYNCHRO Perform applications. The new advancements and portfolio expansion enable construction firms to transform how they plan, manage, and execute their projects.

“SYNCHRO helps The Lane Construction Corporation have access to all our project-level data. Our field and corporate managers, along with the executives who lead them, now have timely access to critical business information through SYNCHRO,” said Andy Kaiyala, vice president of bid development, The Lane Construction Corporation. “It is access to this information that helps improve forward-looking decision-making. Our industry has been far too reliant on backward-looking reports and analysis. It is time to start looking ahead and planning for success. SYNCHRO helps us make a plan that we can rely on.”

SYNCHRO 4D now offers advanced 4D/5D model authoring with leading-edge model-splitting tools to create constructible components, assignment of construction attributes to the model, mixed reality modeling, construction geometry placement, and web and mobile access to improve team collaboration, status updates, and progress reporting from the field. The addition of SYNCHRO Cost helps project teams control budgets and track financial progress throughout the contract with support for multicontract capture, payment application tracking, and change order management, minimizing financial risk and maximizing project profits.

SYNCHRO Perform enables construction performance management including the ability to capture daily progress quantities, diaries, unplanned events, timesheets, tickets, and estimated field costs to provide the shortest cycle time for project feedback and productivity insights. “SYNCHRO Perform provides real-time information that allowed us to gain critical insight into what is going on in the field and enabled us to make fast and informed decisions,” said Alastair Dalton, commercial manager on the Bruce Highway Upgrade, Caloundra Road to Sunshine Motorway (CR2SM) in Queensland, Australia, delivered by a joint venture Fulton Hogan Seymour White.

Construction firms are striving to deliver more complex projects, address resource gaps and supply chain disruptions, and manage data transparency issues while trying to win more work, manage risk, and deliver profitability. SYNCHRO’s advancements in leveraging 4D/5D models with web access for team collaboration, performance management for progress tracking and reporting, and cost management to minimize risk and maximize profits will transform the way projects are planned and delivered – with digitized workflows to address these challenges.

Leading-edge construction firms are using 4D models to build and optimize schedules and communicate sequencing and staging in a virtual environment. Digital rehearsals are a core part of their planning process to ensure resources are optimized, reducing rework and increasing safety. With the enhancements to SYNCHRO 4D, the accessibility and value of the 4D model is extended to more project stakeholders. The new capabilities improve communication and coordination of optimized plans, enabling real-time collaboration and model-based field-collected data to ensure projects stay on track.

“Construction teams need to ensure that they are in control of both the schedule and costs of their projects,” said Rich Humphrey, vice president of construction at Bentley Systems. “The addition of SYNCHRO Cost and SYNCHRO Perform extends SYNCHRO’s industry leading 4D scheduling and project management solutions to include more capabilities to help contractors manage their costs and effectively connect the planning and tracking of costs and schedule. Time is money and we want project teams to save more of both with SYNCHRO.”

SYNCHRO Cost works with SYNCHRO 4D’s model-based quantity take-off, which includes model splitting to generate constructible components complete with work breakdown structure and cost codes so that estimators can quickly and accurately generate estimates. Moreover, SYNCHRO Cost can control contract changes and simplify payment applications, tracking line items and percentage complete against a schedule of values.

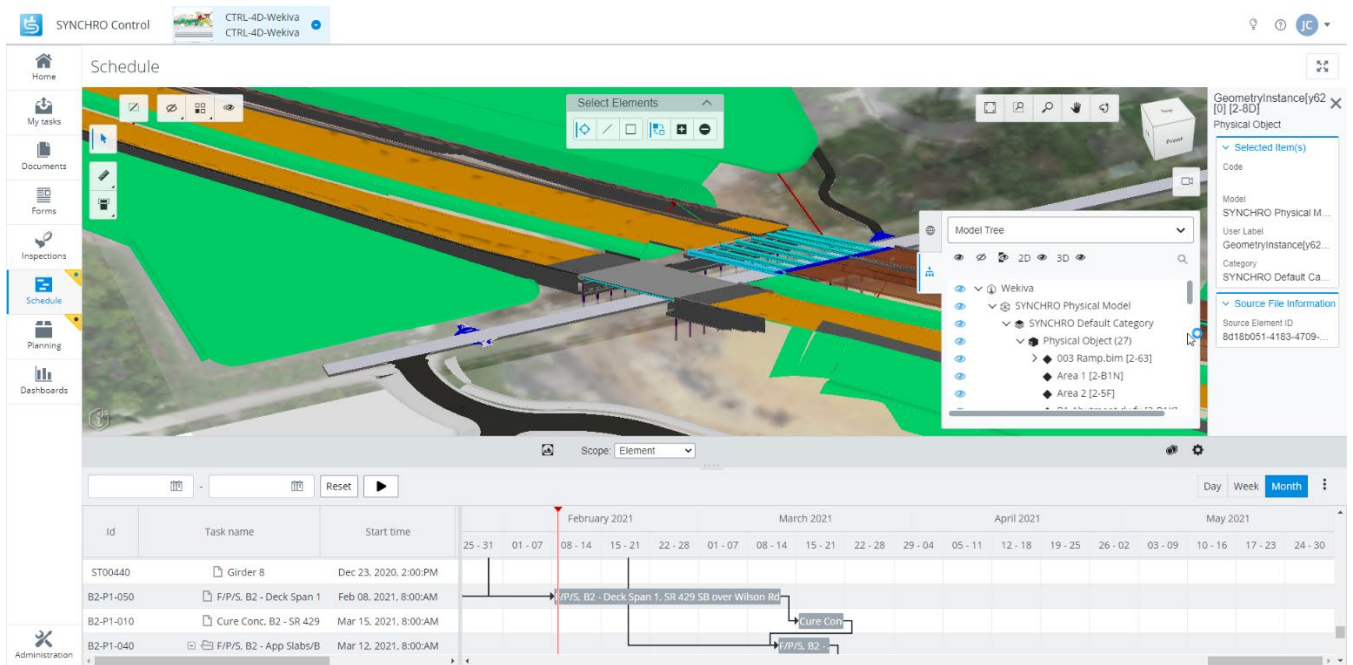
SYNCHRO Cost leverages the performance data in SYNCHRO Perform so project teams can manage and leverage field performance data to gain an accurate picture of actual costs from the field to compare to planned costs and schedule, delivering a complete view of the project’s performance. These digital workflows better connect the office and job site with real-time

information. Supplementing contracts and change orders with evidentiary documents and images can prove invaluable in avoiding contract disputes.

With daily, clear line-of-sight into the management of all site resources from staff, sub-contractors, and equipment, SYNCHRO Perform fills the gaps between end-of-month financial reporting cycles. And, with project leadership potentially at a disadvantage when it comes to decision-making due to delays in progress capture and errors in data entry, SYNCHRO Perform provides a timely source of truth for all performance management data and metrics, so that project leadership knows the health of every project. Construction-specific features capture daily progress quantities, diaries, unplanned events, timesheets, tickets, and estimated costs from field personnel, providing leadership with the timely data they need to make informed decisions.

SYNCHRO supports the entire heavy civil construction project lifecycle, empowering firms going digital with real-time insight into the performance, productivity, and financial health of their projects to make more-informed, data-driven decisions. Project teams stay connected and become collaborative with simple mobile and web interfaces for office-to-field workflows.

Image 1:



Caption: Virtual construction, planning and model-based workflows from field to office. Image courtesy of Bentley Systems.

Image 2:

SYNCHRO Control 42 Interstate 5 Improvement Project

PA-00001: September 2021 Payment Application

This is an older version of this Payment Application. [Click here to see the newer version - PA-00001.1](#)

Payment Application details

Contract: CON-00001: (Prime) Interstate 5 Improvement
 Status: Externally rejected
 Payment period from: Sep 1, 2021
 Payment period to: Sep 30, 2021
 Description: Sept. Pay App

Payment Application Summary

PA-00001 subtotal:	\$64,700.00
Retainage held (5%):	\$3,235.00
Retainage released:	\$0.00
PA-00001 total:	\$61,465.00

Contract adjustments as of Sep 13, 2021, 4:36:05 PM

	Amount	Duration
Original contract	\$10,000,000.00	365 Calendar days
Approved changes	\$9,980.00	5 Calendar days
Contract thru last	\$10,009,980.00	370 Calendar days

Payment progress as of Sep 13, 2021, 4:36:05 PM

	Amount	%
Paid thru last	\$0.00	0.00%
Retainage held thru last	\$0.00	0.00%
Retainage released thru last	\$0.00	0.00%

Schedule of Values Thru last load date: Sep 13, 2021, 4:36:05 PM

SOV Item #	Description	QTY	Unit	Unit price	Total	Amount this period	QTY this period	% this period	Amount thru last	QTY thru last
1	Excavation & Trenching	20	CY	\$3,000.00	\$60,000.00	\$60,000.00	20	100 %	\$0.00	0
2	Asphalt Paving	20	TN	\$1,000.00	\$20,000.00	\$600.00	0.6	3 %	\$0.00	0
3	Striping	60	LS	\$30.00	\$1,800.00	\$700.00	23.33	38.8...	\$0.00	0
PCO-00001....	Remove existing sidewalk	400	SF	\$6.00	\$2,400.00	\$3,000.00	500	125 %	\$0.00	0
PCO-00001....	Rebar and formwork	400	SF	\$1.00	\$400.00	\$400.00	400	100 %	\$0.00	0

Caption: Manage construction contracts, budgets and change orders. Image courtesy of Bentley Systems.

Image 3:

SYNCHRO Perform Admin User Standard Road and Rail Update - 20 May 2021 +61 7 3369 0038 Settings Help Sign Out

Home Dashboards Project Groups Project Tags Leaderboards Site Boards Tasks Activities Events Progress Resources Attendance Time & Usage Dockets Rosters Reports Mobile

Period [Planned - Labour] Period [Earned - Labour] Period [Actual - Labour] Cumulative [Planned - Labour] Cumulative [Earned - Labour] Cumulative [Actual - Labour]

251,864 Revised Budget Labour At Complete
 251,864 Revised Planned Labour
 182,450 Revised Earned Labour
 198,356 Actual Labour
 72.4% % Complete

Schedule Performance Index: 0.72
 Labour Performance Index: 0.99

Discipline	Revised Budget Labour At Complete	Revised Planned Labour	Revised Earned Labour	Actual Labour	% Complete	SPI	LPI	Earliest Revised Planned Start	Earliest Revised Planned Finish	Earliest Actual Start	Latest Current Planned Finish
010 Siteworks	24,487.00		24,487.00	24,575.8	100.0%	1.00	1.00	01-Oct-2019	15-Oct-2019	01-Oct-2019	24-Apr-2020
020 Foundations	16,707.00		16,707.00	13,518.3	100.0%	1.00	1.24	13-Feb-2020	09-Mar-2020	06-Mar-2020	06-Aug-2020
030 Structural Steel	1,504.00	1,504.00	1,119.1	4,715.5	74.4%	0.74	0.24	09-Mar-2020	12-Mar-2020	07-Aug-2020	07-Aug-2020
040 Equipment Install	95,785.00	95,785.00	92,736.3	93,792.0	96.8%	0.97	0.96	12-Mar-2020	11-Apr-2020	11-Apr-2020	23-Sep-2020
050 Piping Fabrication & Installation	6,575.00	6,575.00	5,702.4	11,063.4	86.7%	0.87	0.55	11-Apr-2020	27-Apr-2020	27-Apr-2020	22-Sep-2020
060 Buildings	4,660.00	4,660.00	2,446.1	3,923.4	52.5%	0.52	0.62	03-Jun-2020	16-Jun-2020	06-Jun-2020	06-Oct-2020
080 Electrical and Instrumentation	102,146.00	102,146.00	39,251.9	46,767.7	38.4%	0.38	1.15	27-Apr-2020	05-May-2020	15-May-2020	15-Jan-2021
Total	251,864.00	251,864.00	182,449.7	198,356.2	72.4%	0.72	0.99	01-Oct-2019	15-Oct-2019	01-Oct-2019	15-Jan-2021

iOS App Android App Windows App E7 Website Contact Support

Caption: Manage construction project performance, progress and resources. Image courtesy of Bentley Systems.

Get to know SYNCHRO

Video:

https://players.brightcove.net/5209582030001/t50zJOIZh_default/index.html?videoId=6309547476112

Caption: Digital Construction Management for Heavy Civil Infrastructure Projects

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About Bentley Systems

Bentley Systems (Nasdaq: BSY) is the *infrastructure engineering software* company. We provide innovative software to advance the world's infrastructure – sustaining both the global economy and environment. Our industry-leading software solutions are used by professionals, and organizations of every size, for the design, construction, and operations of roads and bridges, rail and transit, water and wastewater, public works and utilities, buildings and campuses, mining, and industrial facilities. Our offerings include *MicroStation*-based applications for modeling and simulation, *ProjectWise* for project delivery, *AssetWise* for asset and network performance, Seequent's leading geoprofessional software portfolio, and the *iTwin* platform for infrastructure digital twins. Bentley Systems employs more than 4,500 colleagues and generates annual revenues of approximately \$1 billion in 186 countries.

www.bentley.com

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