

# **PRODUCT DATA SHEET** •

# SYNCHRO<sup>™</sup> 4D

The industry leader in visual planning and 4D modeling

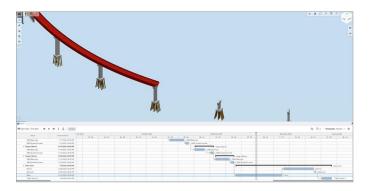
SYNCHRO 4D, an industry-leading 4D modeling solution, enables teams to turn design models into construction models with cutting-edge modelbased QTO, scheduling, and construction simulations. It is designed and tailor-made for construction modeling, planning and scheduling, visualization, and simulation. All construction team members can build digital projects on the screen and extend the value of 3D models by adding time, the fourth dimension. Serving as the real-time source of truth, SYNCHRO 4D can help solve the time-cost conundrum, increase safety, and reduce project risks.

### **EXTEND THE MODEL'S VALUE**

SYNCHRO 4D provides a holistic and purpose-built construction solution, enabling projects to construct, plan, and track projects based on a construction model. Users can easily communicate and present the construction plan and schedule, allowing for trade partner collaboration and commitment with confidence, on-time execution and delivery, and quicker approval for payment. The web and mobile applications extend the value of the 4D construction model by exchanging and managing 2D, 3D, and 4D models with geolocated, rich data in the project context. Teams can efficiently access and author data to make more informed decisions.

### PLAN, CONSTRUCT, AND TRACK FROM MODELS

Slice and dice your design into work areas and construction models with auto-calculated quantities while keeping original design intent. Display both 3D models and the schedule in one environment to perform



Slice design model components into smaller elements based on the requirements of construction planning.

model-based scheduling. Add construction equipment and paths to schedule activities to visualize conflicts and resolve them before construction. Perform "what-if" analysis to reduce risks and delays by reviewing time-lapsed construction sequences. Identify areas that are ahead or behind schedule through a planned-versus-actual visualization.

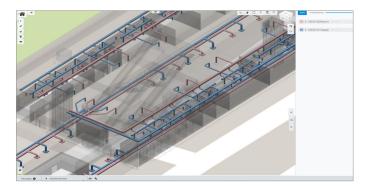
### **CONNECT OFFICE AND FIELD SEAMLESSLY**

Extend the value of the 4D model into field workflows for status checks, work planning, review, and inspections within the SYNCHRO portfolio. With connected applications and workflows, a project team can review, validate, and communicate in one complete digital and interactive visual environment that includes documents, forms, and models.

Integration with Bentley Infrastructure Cloud<sup>™</sup> enables seamless design and construction collaboration with project management capabilities, keeping everyone on the same page with up-to-date information for better decisions.

### **ENABLE DIGITAL TWINS**

SYNCHRO 4D, powered by Bentley's iTwin® technology, enables 4D construction models and reality data models to be accessible by stakeholders as a single source of truth. It empowers users to navigate and author construction models from gathered design models. The application also features best-in-class interoperability with a variety of third-party modeling



Augment projects with data-rich 4D digital information throughout construction planning.

## SYSTEM REQUIREMENTS

**MINIMUM:** Windows 10 64-bit, Windows 11 64-bit, or Windows Server 16, 2.8 GHz Octa Core **RECOMMENDED:** 4 GHz Octa Core or 5 GHz Octa Core enterprise specification

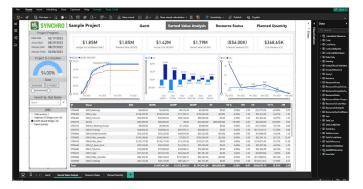
# SYNCHRO 4D At-a-glance

### **KEY FEATURES**

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

### **DELIVER PROJECTS ON TIME**

- Partnering with Microsoft means that you are working with trusted best-in-class cloud technology
- Plan, construct and manage your construction projects in 4D, providing the entire project team with real-time progress updates



SYNCHRO 4D Power BI Connector Project EVA Tab

Advancing Infrastructur

### **ELIMINATE REWORK AND PROTECT YOUR BUDGET**

- Identify schedule problems in advance, saving you and your team both time and money
- Your data will be secure, up-to-date, and accessible from a range of devices based on roles and permissions

### **FOCUS ON SAFETY**

- Understand what you are building before you build it, to avoid all the potential risks involved
- Ensure that the entire team is engaged by inviting the supply chain to participate

### **ENSURE QUALITY**

- Everyone performs at a higher level when they can review, communicate, and cooperate in a digital and interactive visual environment
- Validate and optimize your project plan before you start on site

SYNCHRO	Sample Project		Gan	ıtt	Earned Value Analysis		Resource Stat	us Pl	s Planned Quantity			< < Data < ≸ Q Sourt
Project Progress	Task L										She	C Statch
	106		0	0			3			(Blank)	×	> B car
Ictual Start 08/29/2022	Gent	Total Talk Cou	M Due today	Due this y	neek Plann	of all tells	In Progress Tasks	Finished Tasks		Oritical Tasks		CodeValue
Nanned Start 08/29/2022										and a remove fibers (2)		> B Contrake
Nanned Finish 02/08/2023	12 Name			Parced Finish Pl	h Planned Actual Start, Actual Finish		Actual Status	PercentComplete Finish Progress Orbical				> El Contcodes
Project % Complete		Narra	Planeed Start	Planed from Pl	lanned Actual Start unation (d)	Actual Pend	Duration (d)	PercentLongeste	Feren Prog	pen trace		> El Data Date
	1200440	CBM, Bearings	11.03.0322	11/06/0022	5.00 15/23/0022	12/07/0002	11.00 RN/5+ED	100.00	1.44	Tel la		> El Denfey
94.00%	5130450	CBM.Caps	10/18/2022	10/21/2022	300 10/20/2022	30/25/0322	300 EN/5+ED	2000		Table		> C Extentions
	\$735460	CRM Columns	10/06/2022	10/18/2022	10.00 10/06/2022	10107/0022	ADD RINSHED	120.00		N/se		> Complete
	\$739470	Ratier	01/06/2023	02/08/2023	10.00 01/06/2022	62/21/2022	DITRATE OLDE	20.00	1379	False		> El Gueryt
	\$730510	CBM D Bearing Group	11/16/2022	11/22/2022	500 11/16/2022	11/23/0002	400 RNSHED	100.00	Carly	False		> D Resource
Cate	\$708579	CBM. Fectings	09/23/2022	10/04/2022	10.00 05/21/2522	10/16/082	2030 FINSHED	100.00	Late	False		> El fermiori
8/25/2022 8/9/2023	\$730560	CBM, GinderConcrete	11/30/2022	12/01/2022	2.00 11/90/2022	12/05/0022	400 RNS+ED	105.00	Late	Fulse		) El financia
	\$730600	CBM_Nies_concrete	05/14/0022	05/00/0022	5.00 05/14/2022	06/23/0022	5-00 RNSHED	100.00		Talse		> El fermenti
	\$730510	CBM. Piles.steel	96/25/2022	09/09/2022	10.00 08/29/2622	96/33/2002	5-00 MNSHED	105.00	tely	Table		> C Reserved
Search by Task Name	\$130640	CBM D Ream End	09/12/2022	09/18/2022	2.00 08/12/2022	06/13/0022	2.00 RNSHED	105.00	On-Time	False		> Si tenenti
eenh 0 #	\$130660	CBM_Columns	10/18/2022	11/01/2022	10.00 10/19/2022	11/28/0022	2930 RNSHED	100.00	Late	False		) C Incerto
V.G -	\$100670	CBM_Caps	10/24/0022	16/06/0022	3.00 10/24/2022	10/25/0022	3.00 RNSHED	\$35.00		False		2 C Respects
WBS	\$100680	CBM, Piles, concrete	09/23/2022	09/27/2022	5.00 09/21/2022	10/03/0002	930 RNSHED	100.00	Lafe	False		> El Resorch
Child articity 1	\$130680	CBM,/loctings	10/05/2022	10/18/2022	10.00 10/05/2022	10/18/0022	10.00 FINSHED	100.00	On Time	False		
Highway 97 Bridge over 1-85	\$100700	CBM_Columns	11/02/2022	11/15/2022	10.00 11/02/2022	12/02/2022	25:00 RNSHED	500.00	Late	False		
North Bound Bridge I-95	\$100710	CBM, Caps	10/27/2022	10/31/2022	3.00 10/27/2022	11/07/0022	8.00 RNSHED	335.00	Lafe	False		> 🕀 TaskCost
Peret advity South Bound Bridge I-95	\$700720	CBM_Piles_concrete	09/28/2022	10/04/2022	5.00 05/28/2022	10/18/0002	15-D0 FINSHED	100.00	Lafe	False		> El TalCally
	\$930730	CBM_Footings	10/18/2022	11,01/2022	10.00 10/19/2022	10/25/0022	5.00 RINSHED	\$20.00		False		> El Tekhons
	\$100740	CBM, Pilet, shed	09/14/2022	05(27/2022	10.00 08/14/2022	10/13/0002	22.00 RNSHED	100.00		False		> D Tekforrer
	\$100750	C6M_D_Beam_End	09/28/2022	05/03/2022	2.00 05/05/2022	10/05/0002	600 RNSHED	300.00	Life	Talse		> @ textuCod
	\$106770	CBM, D, Searing, Oroup	12/02/2022	12/08/2022	5-00 12/02/2022	12/19/2022	12.00 MNSHED	105.00		Table		> D Tellifest
	\$100190	CBM_Bearings	12,0%/2022	12/15/2022	5-00 12/06/2022	12/06/0022	12.00 PINSHED	\$25.00	Late	False		> E Tekhofi
	\$100790	CBM_GinderConcrete	12/16/2022	12/19/2022	2/00 12/16/2022	12/16/2022	1.00 RNSHED	100.00		False		> C Teanton
	\$730800	OBM_D_Bearing_Group	12,05/0022	13/36/0022	5.00 12/00/2822	12/23/0022	400 RNSHED	\$30.00		False		> C Unifield
	\$700010	CBM_Bearings	12/27/0022	01/02/2023	5:00 12/27/2022	01/13/0023	1400 RNSHED	100.00		False		
	5730820	CBM_GirderConcrete	01,03,0023	01.04/2023	2.00 01/08/2023	01/10/2023	600 RNSHED			False		
	\$130830	Deck	01.05/2023	01/05/2023	15.00 01/05/2023	01/23/0023	13:00 RNSHED	100.00		Talse 2		

SYNCHRO 4D Power BI Connector Project Gantt Tab

Bentley<sup>•</sup> FIND OUT MORE AT BENTLEY.COM

1.800.BENTLEY (1.800.236.8539) | Outside the US +1.610.458.5000 | GLOBAL OFFICE LISTINGS bentley.com/contact

© 2025 Bentley Systems, Incorporated. Bentley, the Bentley logo, Bentley Infrastructure Cloud, SYNCRHO, and SYNCHRO 4D are either registered or unregistered trademarks or service marks of Bentley Systems, Incorporated or one of its direct or indirect wholly owned subsidiaries. Other brands and product names are trademarks of their respective owners. 886305-25