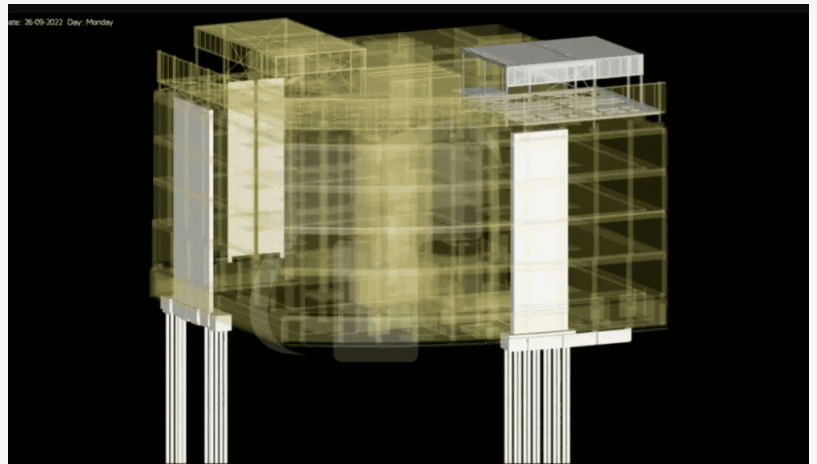


Tesla Outsourcing Services Reimagines Project Controls with 4D and 5D BIM Integration

Tesla Outsourcing Services LLP are linking time and cost data directly to 3D models, giving unprecedented foresight into project schedules & budgets.

FL, UNITED STATES, September 4, 2025 /EINPresswire.com/ -- For decades, construction project management has relied on two disconnected documents: the Gantt chart for scheduling and the spreadsheet for cost estimation. This separation creates a critical information gap, leading to unforeseen delays and cost overruns. Today, this outdated paradigm is being replaced by an integrated approach. Tesla Outsourcing Services LLP, a global leader in digital engineering, is at the forefront of this shift, utilizing 4D (time) and 5D (cost) BIM to create dynamic, data-driven project forecasts that offer unparalleled predictability and control.



A Screenshot Of 4D Sequencing Of Commercial Building

“

We are empowering our clients to see the future of their projects—to watch them being built digitally and to understand the cost of every decision in real-time, long before breaking ground.”

Ketan Poojara, CEO of Tesla Outsourcing Services LLP

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At its core, 4D BIM involves linking a detailed 3D model, derived from comprehensive architectural BIM services and structural designs, with the project construction schedule. The result is a visual simulation that shows the entire construction sequence step-by-step over time. This process moves beyond the limitations of a static schedule, allowing project teams to identify potential logistical bottlenecks, safety hazards, and out-of-sequence work before it happens on-site. As a specialized [BIM Service Provider](#), Tesla Outsourcing Services provides the expertise to meticulously link each model component to its

corresponding schedule activity, creating a powerful tool for planning and communication that makes the project plan clear to all stakeholders.

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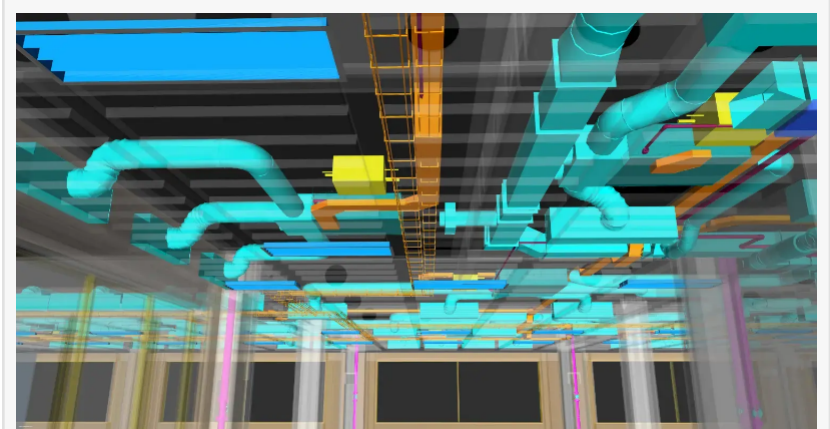
5D BIM takes this integration a step further by linking the 3D model to detailed cost-estimation data. Because every component in the BIM model contains quantitative information (e.g., the volume of concrete, the linear feet of pipe), the model can be used to generate [highly accurate quantity-takeoffs](#) automatically. When this data is tied to cost databases, the result is a living budget that updates in real-time as the design evolves. If an architect changes a specification, a 5D model can instantly calculate the cost impact. This level of dynamic cost feedback, essential for creating accurate construction documentation, is a game-changer for budget management.

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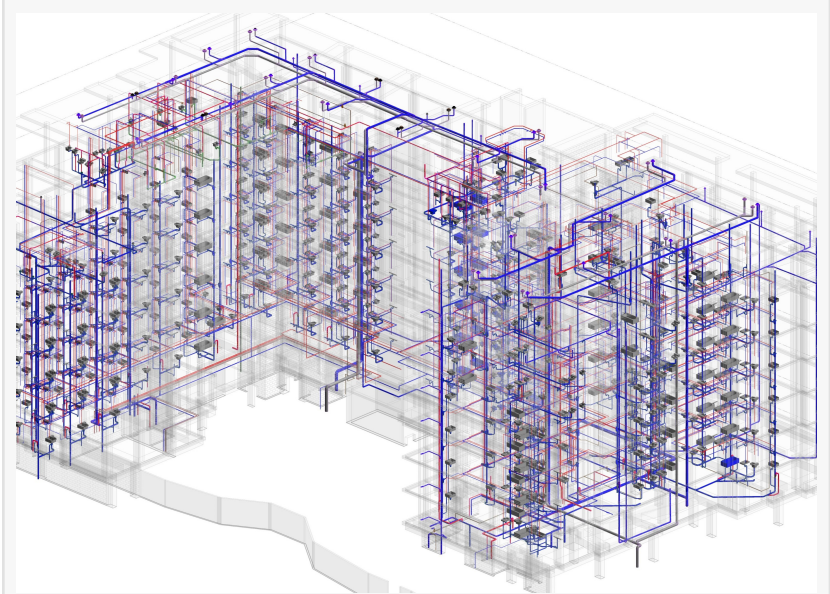
“On a recent mixed-use high-rise project, our 4D simulation was critical,” explains Prex Poojara, V.P. of Tesla Outsourcing Services. “The site was extremely constrained. By simulating the delivery and installation of the façade panels against the structural steel erection schedule, we identified a major clash in crane time that the traditional Gantt chart had missed. Adjusting the sequence digitally saved weeks of potential delays. Simultaneously, our 5D analysis allowed the developer to test the cost-benefit of three different curtain wall systems, giving them the confidence to select a higher-performance option while staying within budget.” This is where comprehensive [Building Information Modeling Services](#) transition from documentation to

WBS	Group3	Group4	Item	Count
E.10.1.1.1	Mechanical Equipment (1)	Gas 210 Eco Pro 160	Boiler	4.000
E.10.1.2.1	Mechanical Equipment (1)	House Keeping Base	House Keeping Base	5.000
E.10.1.3.1	Mechanical Equipment (1)	CW Storage Tank	CW Storage Tank	1.000
E.10.1.4.1	Mechanical Equipment (1)	Booster set	Booster set	1.000
E.10.1.5.1	Mechanical Equipment (1)	HWS Storage Cyinderr	HWS Storage Cylinder	2.000
E.10.1.6.1	Mechanical Equipment (1)	AHU 4A	AHU 4	1.000
E.10.1.7.1	Mechanical Equipment (1)	500L Vessel	Exp Vessel	2.000
E.10.1.8.1	Mechanical Equipment (1)	Pressurisation Unit - Grundfos Impress	IMpress CH2-30	1.000
E.10.1.9.1	Mechanical Equipment (1)	Cat 5 Booster Set	Cat 5 Booster Set	1.000
E.10.1.10.1	Mechanical Equipment (1)	Low Loss Header	150mm Low Loss Header	1.000
E.10.1.11.1	Mechanical Equipment (1)	HWS Pump	HWS Pump	1.000
E.10.1.12.1	Mechanical Equipment (1)	Dosing Pot	Chemical	1.000
E.10.1.13.1	Mechanical Equipment (1)	LTHW Pump P1	LTHW Pump P1	1.000
E.10.1.14.1	Mechanical Equipment (1)	TOMI-Range_15-50mm	Gas Meter 2"	3.000
E.10.1.14.2	Mechanical Equipment (1)	TOMI-Range_15-50mm	Energy Meter	1.000
E.10.2.1.1	Mechanical Equipment (2)	Step over1	Step over	1.000
E.10.2.2.1	Mechanical Equipment (2)	Step over2	Step over	1.000
E.10.3.1.1	Mechanical Equipment (3)	LTHW Pri Pump	LTHW Pri Pump	4.000
E.10.3.2.1	Mechanical Equipment (3)	HWS Pump	HWS Pump	1.000
E.10.3.3.1	Mechanical Equipment (3)	Mag Water Conditioner	Mag Water Conditioner	1.000
E.10.3.4.1	Mechanical Equipment (3)	300L Vessel	300L Vessel	2.000
E.10.3.5.1	Mechanical Equipment (3)	TOMI-Range_15-50mm	Water Meter 5"	1.000
E.10.3.6.1	Mechanical Equipment (3)	House Keeping Base	House Keeping Base	1.000
E.10.4.1.1	Mechanical Equipment (4)	Kitchen Supply AHU	Ktchen Supply AHU 5	1.000
E.10.4.2.1	Mechanical Equipment (4)	1st Fir Music Room AHU	1st Fir Music Room AHU	1.000
E.10.4.3.1	Mechanical Equipment (4)	AHU 2A	Gas Meter 2"	1.000
E.10.4.4.1	Mechanical Equipment (4)	AHU 1A	AHU 1A	1.000
E.10.4.5.1	Mechanical Equipment (4)	WC Extract AVT6-X	WC Extract AVT6-X	1.000
E.10.4.6.1	Mechanical Equipment (4)	Main Hall Fan	Main Hall Extrat Fan EF3	1.000
E.10.4.7.1	Mechanical Equipment (4)	WC Extract AVT2-X	WC Extract EF4	1.000
E.10.4.8.1	Mechanical Equipment (4)	RAIN CATCHER	RAIN CATCHER	1.000
E.10.4.9.1	Mechanical Equipment (4)	Kitchen Extract ~nit	Kitchen Extract Unit	1.000

5D Quantity Take Off



BIM 3D MEP System



Clash Detection and Coordination

to

strategic project control.

“The true power lies in combining 4D and 5D,” adds Bhagwati Pathak, COO of Tesla Outsourcing Services. “It allows us to run what-if scenarios that were previously impossible. What happens to our budget and completion date if we use precast concrete instead of

poured-in-place? The model can give us a data-backed answer in hours, not weeks. This moves project management from a reactive, problem-solving discipline to one of proactive, strategic optimization.” This integrated approach, rooted in meticulous building information management, is providing a new level of financial and schedule certainty in an industry long plagued by unpredictability.



Tesla Outsourcing Services - Global BIM Service Provider

Founded in 2007, Tesla Outsourcing Services is a leading global provider of BIM and CAD solutions for the Architecture, Engineering, and Construction (AEC) industry. With a team of over 150 skilled professionals and a portfolio of more than 5,000 completed projects across 25 countries, the company is committed to delivering accuracy, efficiency, and value. Adhering to international standards like ISO 19650, Tesla Outsourcing Services empowers clients to enhance collaboration, minimize risk, and achieve project excellence through cutting-edge BIM technologies.

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