



In an experience economy, **engineering, construction, and operations** companies transform into intelligent enterprises by industrializing their processes with:

- Adaptation of intelligent technologies, real-time data sharing and feedback, and industry best practices to achieve operational excellence
- Real-time forecasting, monitoring, and optimization of complex projects

Digitally reimagine your business models through new business capabilities along a value map.

Digitalization of expertise and knowledge

Connected construction

Digitalization of intercompany collaboration

Digitalization of commissioning and handover

Digital supply chain

Preconstruction	Construction supply chain	Project delivery	Asset management	Digital asset management	Human resources	Finance	Sourcing and procurement
<ul style="list-style-type: none"> Attract, retain, and train skilled labor Support workforce planning 	<ul style="list-style-type: none"> Foster demand-driven, collaborative supply networks Enable on-time delivery and advanced availability-to-promise capabilities 	<ul style="list-style-type: none"> Increase visibility into resource demand, supply, and performance with simple search capabilities based on skill sets 	<ul style="list-style-type: none"> Gain full visibility and optimization of operations and the maintenance workforce 	<ul style="list-style-type: none"> Streamline operations using conditional checklists that update master data during operations Improve the user experience through new UI controls and workflows 	<ul style="list-style-type: none"> Extend total workforce management across the internal and contingent workforces to extend access to skilled labor staff 	<ul style="list-style-type: none"> Support real-time revenue recognition, profitability analysis, cash allocation, and working capital analysis 	<ul style="list-style-type: none"> Meet demand by adequately communicating material and product requirements over time
<ul style="list-style-type: none"> Improve win rate and manage risk with a single view of historical data for superior bidding Use collaborative, model-based engineering 	<ul style="list-style-type: none"> Support responsive material requirement planning Promote efficient and flexible internal and external logistics and supplier collaboration 	<ul style="list-style-type: none"> Track project progress, cost, and margin with greater accuracy, in real time, and on any device Optimize the change process with visualization Create a digital twin to share drawings and model information between shareholders 	<ul style="list-style-type: none"> Deliver a digital twin of as-built assets to allow employees to access visual maintenance guides on their mobile devices 	<ul style="list-style-type: none"> Increase wrench time through additional offline client-side features Reduce the time cycle for master data creation 	<ul style="list-style-type: none"> Collect accurate time information from the field Track safety and certifications accurately Attract, train, and retain current and new workforce 	<ul style="list-style-type: none"> Help ensure overall project and company profitability and mitigate risk with real-time project financial performance and forecasting 	<ul style="list-style-type: none"> Increase the efficiency of central procurement organizations and manage purchasing spend globally Optimize goods movement for more-efficient warehouse operations
<ul style="list-style-type: none"> Increase win rates and mitigate risk with simplified processes for bidding and estimation Provide a collaborative network of design information that includes the owner, contractors, and suppliers 	<ul style="list-style-type: none"> Track digital components Actualize efficient replenishment strategies Enable 3D printing for spare parts Use digital twin throughout entire supply chain and suppliers 	<ul style="list-style-type: none"> Provide a single, trusted view of all project-related information to the project team Use a digital twin to share structured and unstructured data with owners, contractors, and suppliers 	<ul style="list-style-type: none"> Transition information smoothly from construction systems to the owner's operational landscape 	<ul style="list-style-type: none"> Improve speed and accuracy of finding parts by text-based search in 3D viewer Improve asset collaboration and tracking due to collaborative machine fingerprint 	<ul style="list-style-type: none"> Standardize labor contracts Empower employees to make decisions in real time 	<ul style="list-style-type: none"> Tune scalable quote-to-cash processes to digital acquisition and consumption requirements 	<ul style="list-style-type: none"> Find and collaborate with suppliers on opportunities and transactions, and strengthen relationships Reduce costs and increase savings opportunities and sourcing efficiency using a global business network
<ul style="list-style-type: none"> Harmonize design-authoring models into a complete as-built framework Enable accurate, model-based quantity takeoffs 	<ul style="list-style-type: none"> Plan sales and operations with flexibility Achieve real-time, end-to-end visibility into supply chain management 	<ul style="list-style-type: none"> Use a digital twin of assets for owners, contractors, and suppliers to understand and collaborate 	<ul style="list-style-type: none"> Commission facilities more quickly with accurate construction and equipment information 	<ul style="list-style-type: none"> Enable equipment benchmarking through comparison of sensor data in 2D charts 	<ul style="list-style-type: none"> Empower back- and front-office personnel to access and interact with your logistics network through tools such as mobility, virtual reality (VR) applications, and sensor-based alerts 	<ul style="list-style-type: none"> Digitally transition asset information from project to operational systems to improve information accuracy, lower costs, and expedite retention payments from customers 	<ul style="list-style-type: none"> Optimize goods movement for more-efficient warehouse operations Streamline how to find, source, and manage flexible workers with external workforce management
<ul style="list-style-type: none"> Harmonize production with demand in combination with project schedules 	<ul style="list-style-type: none"> Plan demand and supply flexibly Integrate material management – from shop floor to warehouse 	<ul style="list-style-type: none"> Harmonize concrete deliveries with other trades such as scaffoldings and formwork 	<ul style="list-style-type: none"> Use Internet of Things (IoT) components such as sensors and machine learning to optimize the operation 	<ul style="list-style-type: none"> Provide IoT-enabled digital supply chain – predictive maintenance and service with time-series monitoring and analysis 	<ul style="list-style-type: none"> Drive labor efficiency by automated processes 	<ul style="list-style-type: none"> Strengthen financial results through automated shipping notes 	<ul style="list-style-type: none"> Improve operational efficiency and source determination for indirect materials

Typical business benefits*

<ul style="list-style-type: none"> Planning and forecasting: -35% Sourcing costs: -3%–9% Customer satisfaction: +10%–20% 	<ul style="list-style-type: none"> Cost due to stock-outs: -20%–25% Days in inventory: -10%–12% Total logistics cost: -10%–12% 	<ul style="list-style-type: none"> Total project costs: -2%–3% Project delivered on or below budget: +1.9x Rework costs: -10% Dispute or claims incidents: -10% 	<ul style="list-style-type: none"> Speed of commissioning: 25%–50% Unplanned maintenance of equipment: -18% 	<ul style="list-style-type: none"> Project team productivity and end-to-end process efficiency: +10% 	<ul style="list-style-type: none"> Rework time: -10%–21% Accident frequency: -53% Revenue per professional employee: +20% 	<ul style="list-style-type: none"> Audit cost: -5%–10% Rate of compliance with regulatory reporting requirements: 100% Costs of compliance and risk management: -48% 	<ul style="list-style-type: none"> Service levels through supplier integration: 10%–15% higher
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SAP Unified Business Networks

SAP Project Intelligence Network

SAP Logistics Business Network

SAP Asset Intelligence Network

SAP Concur® solutions

SAP® Fieldglass® solutions

SAP Ariba® solutions

Industry Cloud

SAP	<ul style="list-style-type: none"> Project intelligence network 	<ul style="list-style-type: none"> Project intelligence network 	<ul style="list-style-type: none"> Project intelligence network 	<ul style="list-style-type: none"> Tenant acquisition management by WIPRO Forge real estate operations by Honeywell 	<ul style="list-style-type: none"> Employee health, safety and environment management software by Sodales 		
Ecosystem			<ul style="list-style-type: none"> Project paychain by LTI EC&O Activity Progress Update by LTI EC&O Issue Management by LTI EC&O Project execution workbench by LTI ETM.next - Equipment & Tools management by BearingPoint 				

Intelligent Suite

SAP S/4HANA®	<ul style="list-style-type: none"> Order and contract management Supplier management Project approval and accounting 	<ul style="list-style-type: none"> Basic inventory, warehousing, and transportation Production planning Real-time inventory management Multilevel goods receipt 	<ul style="list-style-type: none"> Invoice and payables management Project analytics Project and job costing Transportation management 	<ul style="list-style-type: none"> Asset strategy and performance Asset maintenance management 	<ul style="list-style-type: none"> Intelligent asset management 	<ul style="list-style-type: none"> Time recording 	<ul style="list-style-type: none"> Time recording Employee central solution connectivity 	<ul style="list-style-type: none"> Accounting and financial close Financial operations Cost management and profitability analysis 	
Business areas	<ul style="list-style-type: none"> Enterprise project connection Project financial planning 	<ul style="list-style-type: none"> Extended production scheduling and delivery planning Advanced inventory, warehousing, and transportation 	<ul style="list-style-type: none"> Project controlling and forecasting Project change and issue management Incident management 	<ul style="list-style-type: none"> Real estate management Mobile asset management Equipment and tools management Asset operations and maintenance Environment, health, and safety 	<ul style="list-style-type: none"> Asset strategy and performance Asset network and collaboration Asset prediction and optimization Mobile asset management 	<ul style="list-style-type: none"> Multi resource management 	<ul style="list-style-type: none"> Travel management Talent and learning management Time and attendance management Human capital analytics Core human resources and payroll 	<ul style="list-style-type: none"> Core human resources and payroll Talent acquisition Talent management Payroll and time and attendance management People analytics 	<ul style="list-style-type: none"> Advanced accounting and financial close Treasury and risk management Enterprise risk and compliance Advanced financial operations Commodity management



Business Technology Platform

Analytics (Augmented BI | Predictive Analytics | Data Warehousing) - Intelligent Technologies (Data-driven Insights | Intelligent Robotic Process Automation | Conversational AI | Internet of Things) - Database and Data Management (Pipelining | Virtualization | Governance | Orchestration) - Application Development and Integration (Intelligent Business Process Management | Enterprise Extensions)

FEEDBACK