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Maximizing Productivity in a Resource-Constrained Industry

How connected technologies can help contractors navigate rising costs, labor shortages, and increasing project complexity.

Construction organizations face mounting pressure to deliver increasingly complex projects while managing rising material costs, skilled labor shortages, and demanding schedules.

Meeting these challenges requires more than adding resources. Contractors need ways to improve productivity, reduce administrative effort, and make better use of existing teams.

Modern technologies, including connected planning applications, project collaboration platforms, automated payment management, and artificial intelligence (AI), can help contractors streamline operations, improve decision-making, and increase their capacity to manage complex projects.

88%

of construction firms expect skilled labor shortages to continue or worsen.

Associated Builders and Contractors, Construction Workforce Shortage Survey, 2024.

Four Connected Capabilities for Greater Construction Productivity



1. Schedule and Resource Planning - Improve predictability, better utilize available resources.

Connected planning and scheduling technology helps contractors coordinate project activities, resources, and timelines across increasingly complex construction programs.

Greater visibility into schedules, dependencies, and resource requirements can help teams anticipate potential conflicts, improve resource allocation, and identify opportunities to reduce schedule risk.



2. Collaboration and Rework Prevention - Align teams with consistent, accessible information.

Construction projects require close coordination among owners, contractors, designers, subcontractors, and suppliers. When information is fragmented across disconnected systems, communication gaps and outdated documentation can contribute to delays and rework.

Cloud-based collaboration platforms provide a shared environment for managing documents, communications, approvals, and project decisions. Better access to current information can help teams coordinate more effectively, support faster decision-making, and reduce the potential for costly rework.

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3. Invoice and Payment Automation - Reduce administrative effort, improve financial control.

Construction payment management requires coordination of invoices, approvals, lien waivers, required project and payment documentation, and payments across multiple projects and organizations.

Automated payment workflows can help standardize these activities, reduce repetitive administrative tasks, and support more consistent processes. Integration with ERP and accounting systems can help reduce duplicate data entry and improve the exchange of financial information.

Greater visibility into payment obligations, approvals, and outstanding requirements can support cash-flow risk management. Optional early payment programs may also provide participating subcontractors with additional cash-flow flexibility, helping contractors support important trade partner relationships.

4. AI-Assisted Productivity - Help employees accomplish more with the same resources.

AI can complement the experience and judgment of construction professionals by assisting with routine tasks, making information easier to access, and identifying insights that may require attention.

AI assistants can help users navigate applications, answer process-related questions, and support document workflows. AI-enabled analytics can also help teams identify patterns, assess potential risks, and make more informed decisions.

By helping reduce time spent on repetitive administrative activities, AI can help employees devote more attention to work that requires their expertise.



Schedule and Resource Planning

Connect schedule, resources, and project execution data for better predictability and help identify opportunities to reduce schedule risk.



Project Collaboration and Rework Prevention

Give teams a single, consistent source of project information to improve coordination, support faster decision-making and help reduce the potential for rework



Invoice and Payment Automation

Streamline invoicing, approvals, and payments with ERP integration, available early payment programs and visibility into payment obligations.



AI-Assisted Productivity

Use AI to help automate routine tasks, surface insights, and support more informed decisions.

The Business Opportunity: Greater Capacity Without Proportional Overhead

As construction companies grow, the volume of project documentation, financial transactions, approvals, and coordination activities typically grows with them. Without connected systems and standardized processes, managing that additional workload can require more administrative resources.

Together, project planning, collaboration, payment automation, and AI assistance can help contractors build a more scalable operating model. Such an approach can support increased project activity while helping teams manage additional administrative workloads more efficiently.

About Oracle Construction and Engineering

Oracle technologies are used by contractors of various sizes on projects of varying complexity, helping teams manage risk, improve visibility, automate processes, streamline payment workflows, support subcontractor and supplier relationships, and manage payment administration as project activity grows.

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