Architecture Engineering and Construction
for Microsoft Dynamics 365 for Finance and Operations

Projects in the architecture, engineering, and construction (AEC) industry are increasing in size and complexity. In addition, customers become more demanding while competition and the pressure to reduce margins increase. You need a business application that helps you manage projects, use resources efficiently and calculate margins, costs, and risks quickly and accurately. You also need the agility to respond quickly to new developments and maintain your competitive edge, without being limited by system constraints.

The To-Increase AEC Solution for Microsoft Dynamics 365 for Finance and Operations offers a wealth of proven capabilities that meet highly specific industry needs and which can help you resolve your pressing business issues. The solution helps your company provide improved service quality with fast responses to customers, streamline processes, and implement internal procedures that create a truly lean environment.

Microsoft Dynamics 365 for Finance and Operations, a robust, powerful foundation that delivers enterprise resource management (ERP) functions, is fully integrated with the industry-specific functionality of the To-Increase solution in a single cloud-based environment. Companies can access many other valuable apps on the same Microsoft Dynamics 365 platform, with an option for on-premise deployment.

Business Development	Mobilization	Execution	Close-out and handover	Asset management
• Business development and marketing (CRM)	• Project and WBS management	• Project and WBS management	• Project cost breakdown (CBS) and budget & cost control	• Asset management
• Quantity take-off and estimation	• Project cost breakdown (CBS) and budget management	• Project cost breakdown (CBS) and budget & cost control	• (Physical) progress management and punchlist	• Corrective, preventive and condition-based maintenance
• Bid calculation and margin simulation	• Resource, equipment, and subcontractor management	• Resource, equipment and subcontractor management	• Payment management	• Service Contract management
• RFQ and subcontracting	• RFQ and procurement	• (Intercompany) project scheduling and Critical Path Management CPM)	• Billing	• Service request and work order scheduling
• Capacity management	• Project planning (visual/Gantt)	• Procurement, MRP and project inventory management	• Earned value management	• Warranty management
• Bid management and approval	• Permit management and regulatory compliance	• Project change management	• Permit management and regulatory compliance	• Timesheets and materials consumption
• Document management		• Timesheets and physical progress management		• Spare parts management
		• Earned value management		• Budget and cost management
				• Analytics and KPI's
				• Online and offline mobility

Benefits

→ **Increase your quote conversion rate.**
Use project-specific pricing, estimating functionality, project quotes, and margin simulation to win more project bids.

→ **Execute with full project visibility.**
Manage your WBS from different aspects. Monitor progress, earned value, and subcontractors, and control all financial and logistic details. Use time, material, fee, expense and equipment to manage any project transaction.

→ **Optimize resource usage.**
Assign workers and equipment to project tasks and use Gantt scheduling to staff your project and resources.

→ **Realtime view of project progress.**
Track the physical progress of projects either directly or based on the hours booked by employees for their activities.

→ **Avoid project overruns.**
WBS cost controlling, cost breakdown structures (CBS), earned value are tools we provide to monitor projects and avoid overruns. Use change orders, scheduling, or subcontracting to anticipate changes.

→ **Keep your assets running**
Perform corrective, preventive or condition-based maintenance for facilities and equipment.

Architecture Engineering and Construction

for Microsoft Dynamics 365 for Finance and Operations

Features

Project and Asset Lifecycle Support	Manage the entire project lifecycle—from bid to final invoice—including teams, subcontracts, and documentation in a user-friendly way. Then convert the project deliverable to an asset structure and manage the asset lifecycle. Manage changes through workflow-based change order management.
Work Breakdown Structure (WBS)	Available on both project quotation and projects is a multi-level WBS which supports multi-user editing and different views per subject. Supported functionality includes summary and details, quantities and units, progress and earned value, budget and budget allocation, subcontracting, progress billing, equipment transactions, cost breakdown structure (CBS), estimating, formulas, and alternatives.
Estimates and Bids	Create or import WBS structures to estimate bids, including hours, materials, equipment, and additional costs using project-specific pricing and formulas. Run bid margin simulation to create the best project quote and win more project bids.
Procurement, Subcontracting, and Project Inventory	Streamline procurement with an end-to-end process that includes all requisitions, vendor comparison and selection, and an integrated purchase process. Create subcontracts from bidding through project execution, and manage subcontractors on specific jobs and track progress, including invoice matching. Items and inventory can be managed for specific projects and sub-projects from planning and availability through pricing and costing.
Visual Project, Resource, and Equipment Scheduling and Critical Path Management	Plan activities and resource usage effectively on an individual or group level, and allow project managers to quickly analyze and solve capacity problems using real-time insight into resource availability. Link MRP to visualize item availability and avoid purchase delays. Track the project progress based on the hours booked by employees, which are displayed in a clear and visual manner. Use and visualize Critical Path Management to avoid project delays.
Cost Control	Set detailed cost structures using cost codes and cost breakdown structures (CBS) to ensure that your projections are as close to actuals as possible. Monitor projects using earned value management and S-curves to avoid overruns, and use change orders to anticipate changes.
Time Registration, HSE, and Physical Progress Tracking	Easily track the job on a day-by-day basis. Intuitive entry forms support registration of time, equipment usage, incident reporting, weather conditions, and more. Record physical progress and use it as input to create accurate invoices by using statement-of-values or measuring-value concepts.
Billing, Payments, and Retention	Bill clients by claimed physical progress, using any unit of measure across the WBS. Have direct insight into to date totals, retentions, and amount to bill for each level of the WBS. Use retention functionality to monitor contracts and subcontracts, and use pay-when-paid functionality to pay subcontractors.
Asset Management	Structure assets to model all types of equipment, facilities, vehicles, and other assets. An asset can be built as a hierarchical structure, where preventive, corrective, and condition-based maintenance can be rendered on some or all levels of the structure.
Contract Management	Manage customer contracts regarding their assets, and accommodate special requirements relating to coverage, payment terms, termination, and identification of items not covered by the contract.

Empowering Innovation