BIM for supply chain planning and execution

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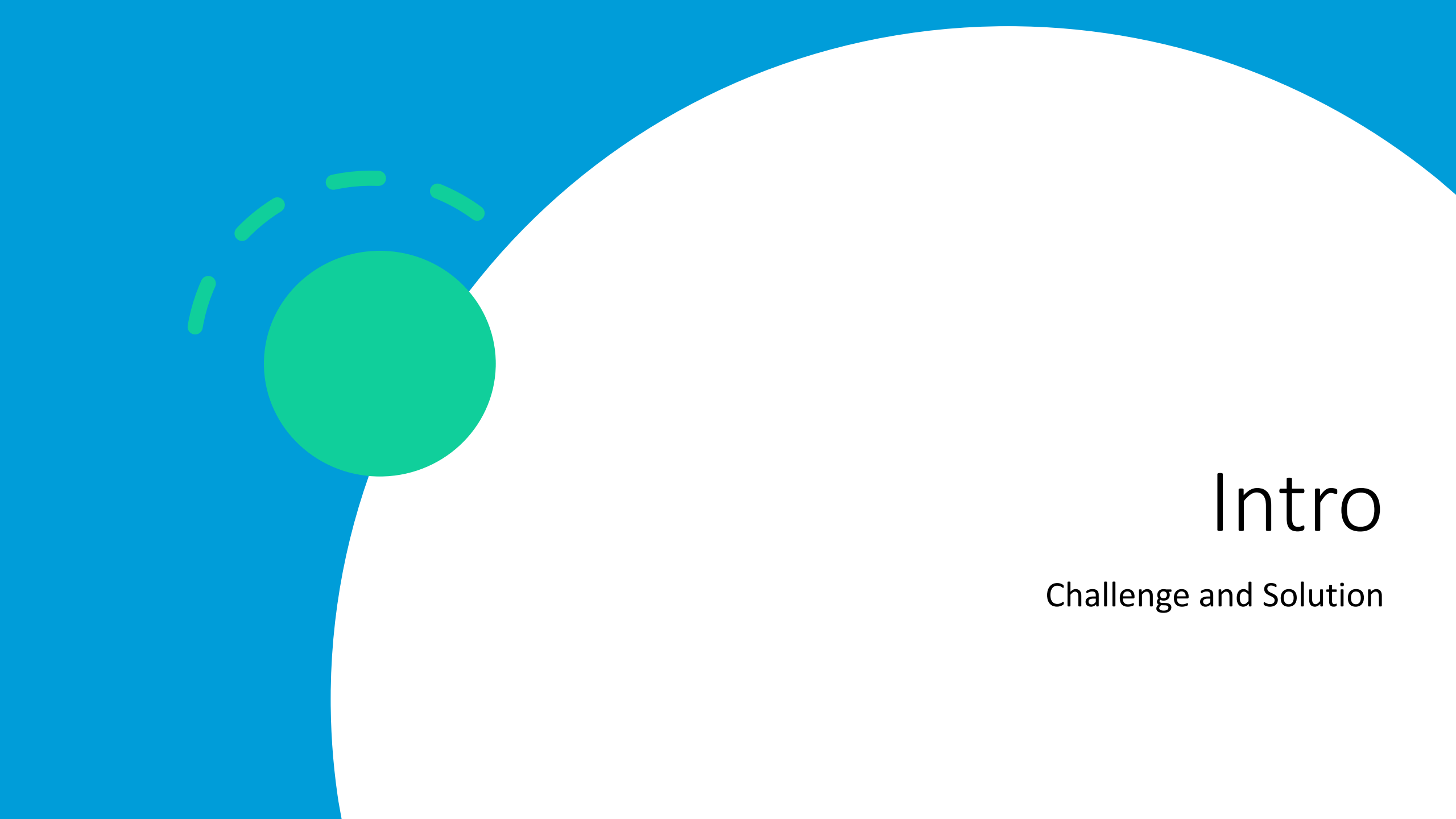
Agenda

Intro

Features

Business Benefits

About Us



Intro

Challenge and Solution

How to bridge the gap between design and supply chain execution?

Specification

- Is a deliverable in my scope of work?
- What's the bill of quantities?
- What are the specifications for building systems?

Resources

- Do I buy, produce or build?
- What resources (products, labor, services and equipment) are needed?

Time

- When do I purchase, produce or build?
- Do I have free capacity to fulfil an order?

Budget

- How much does it cost?
- Is the project profitable?
- How to increase profitability?

Status

- What's the status of project?
- What's the level of inventory?
- What's the status of procurement?
- How to manage changes?

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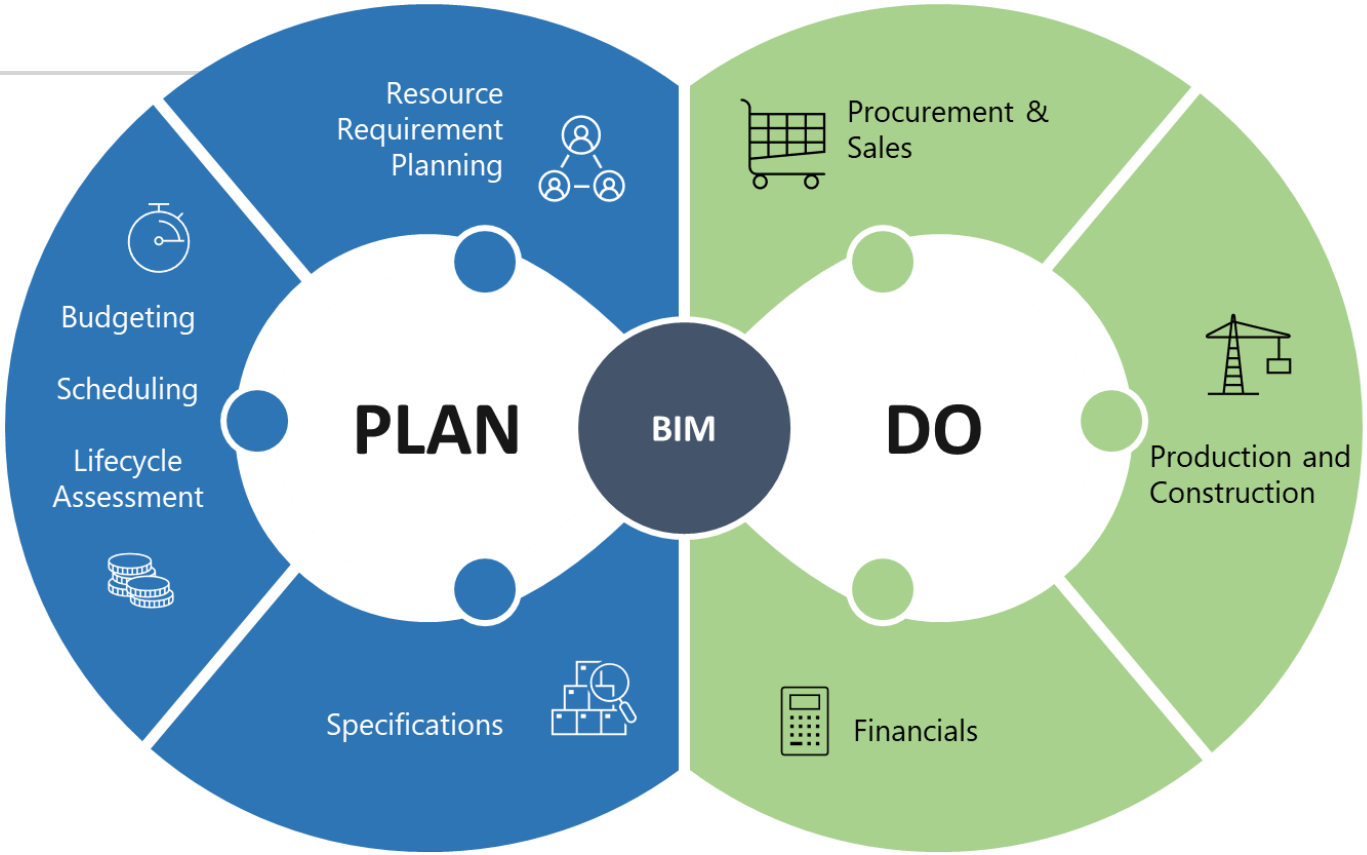
Cloud suite of integrated apps for BIM-based supply chain planning and execution

- **Design & Engineering**
  - Takeoff
  - Assign Products
  - Assign Activities
  - BoM
- **Project Planning**
  - Budgeting
  - Capacity Planning
  - Scheduling
  - Production Planning
  - Project Demand (MRP)
- **Project Execution**
  - Shop-floor execution
  - On-site construction
  - Purchasing
  - Inventory management
- **Master data management**
- **Setup and customization**
- **Integrations to ERP solutions**



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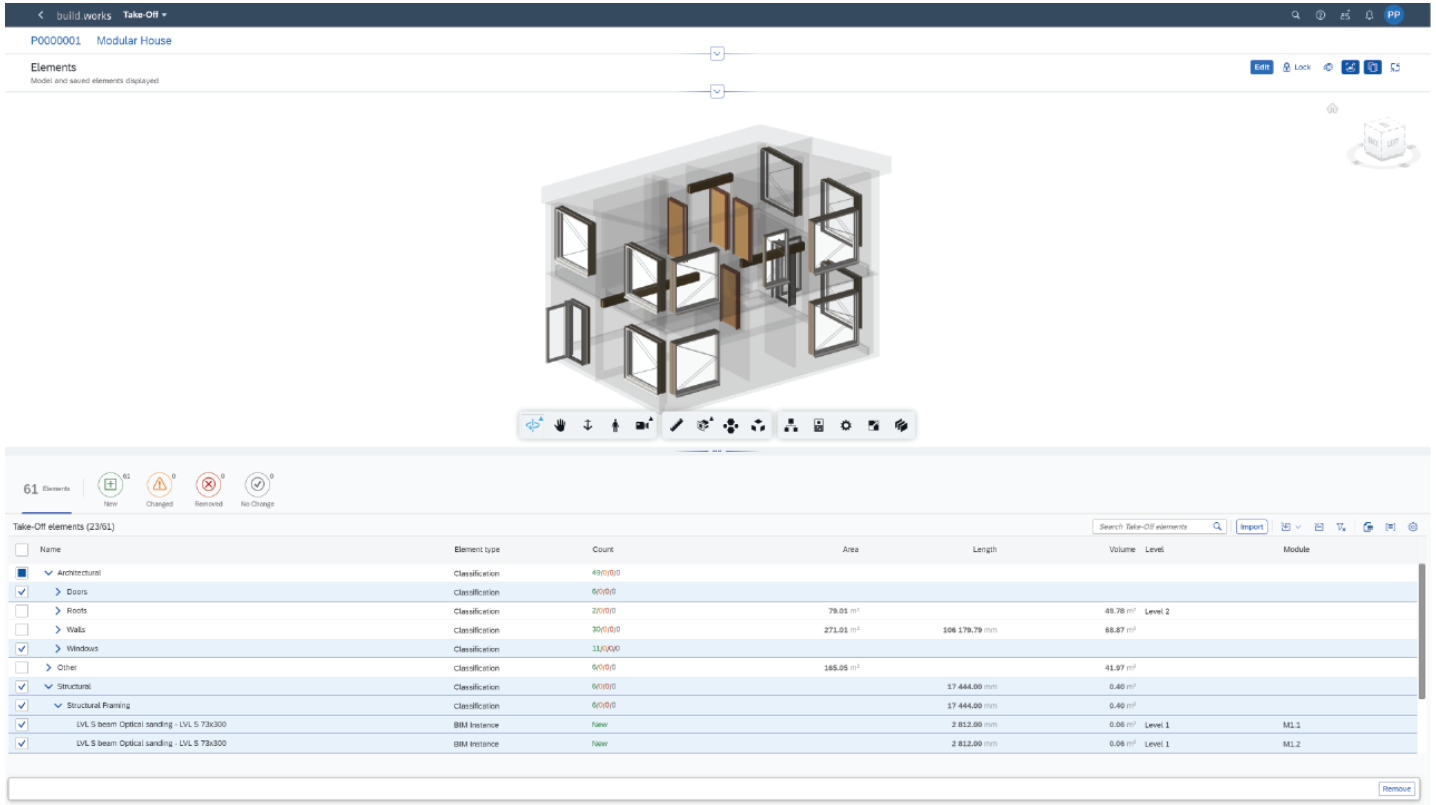
Features

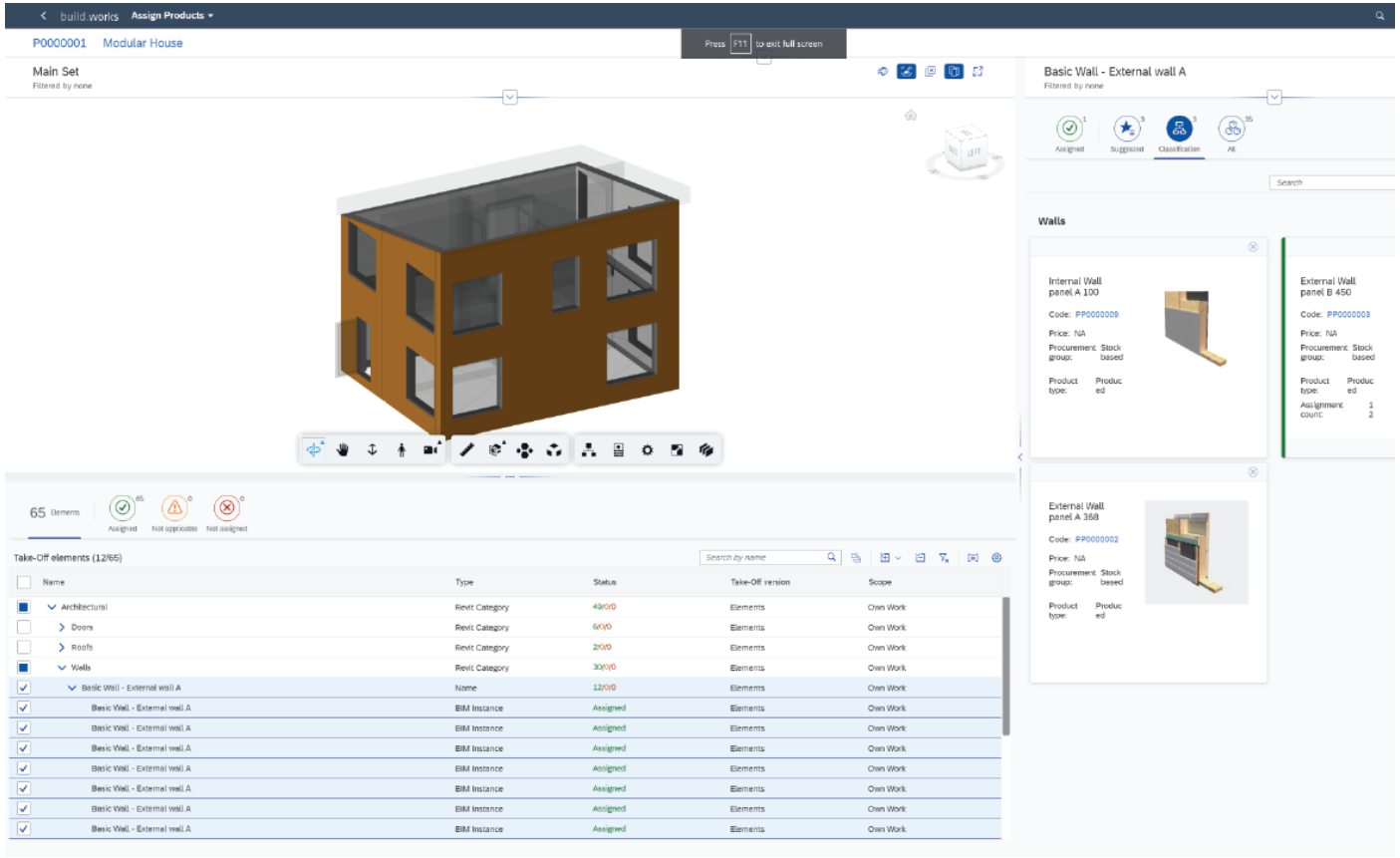
Selected features of more than 70 apps.

Prepare quantity take-off



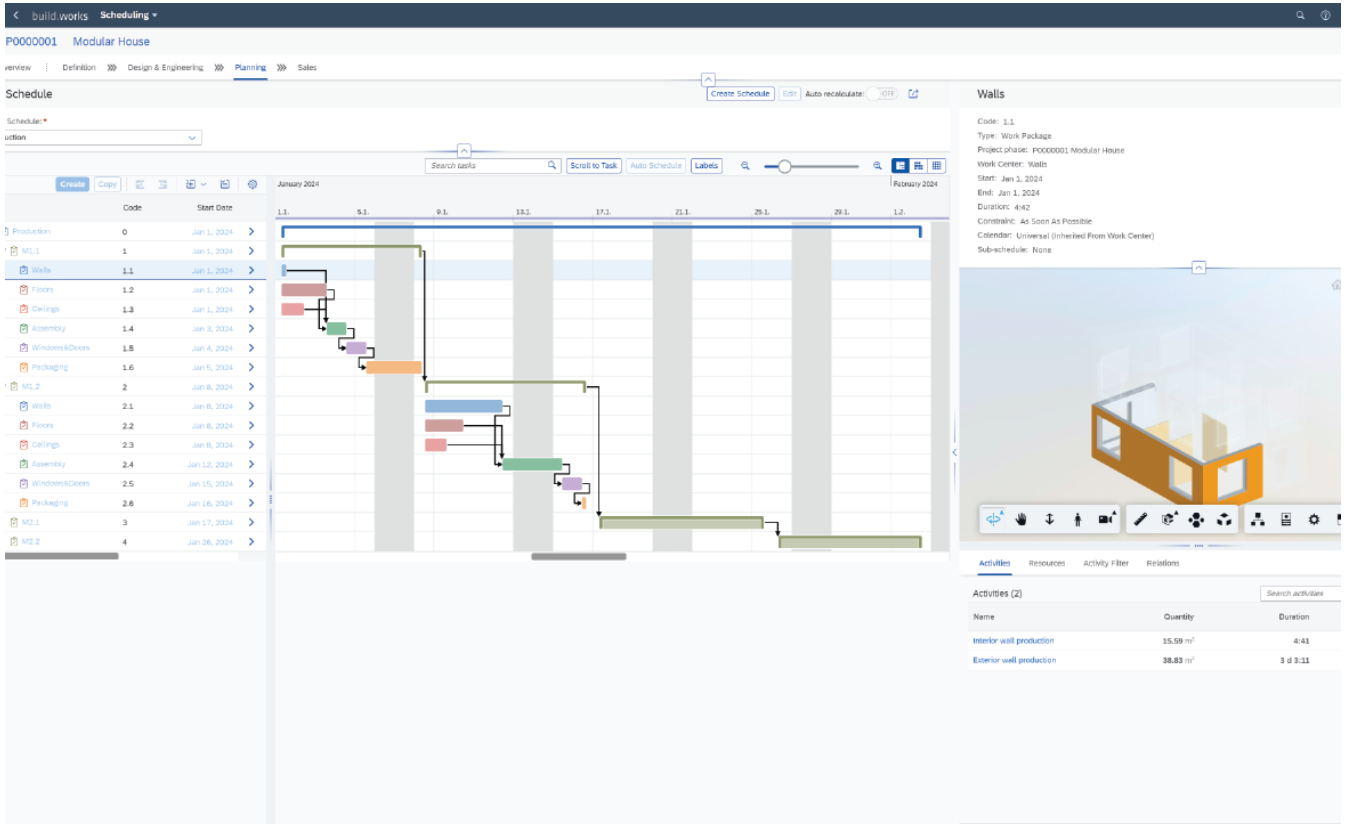
- BIM-based quantity take-off and metadata (parameter values of BIM elements) is used in project specifications and supply chain planning/execution. Connecting business processes with BIM enables smooth transition from design and engineering to project execution.

Assign products and complete specification



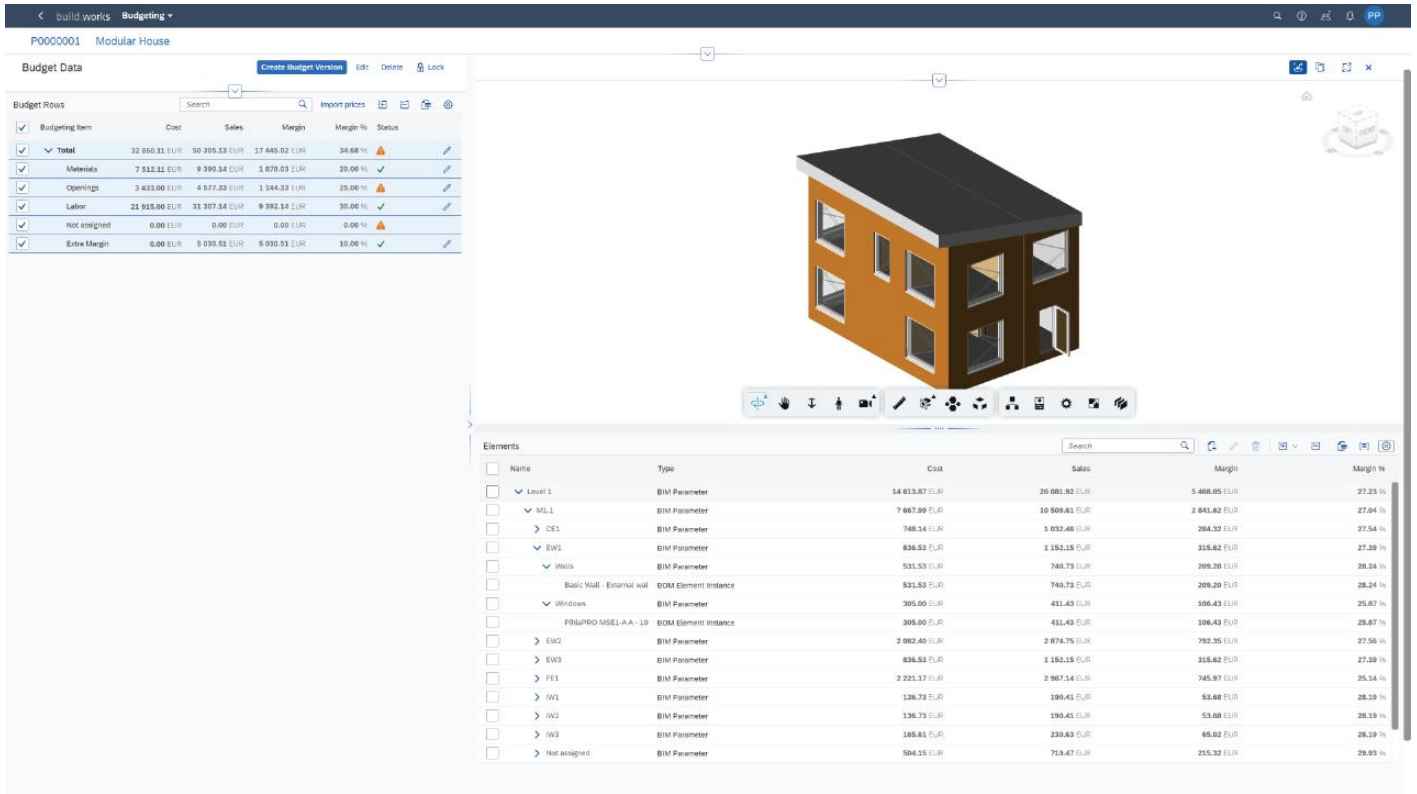
- Assign products to BIM elements and specify additional requirements by products and building systems. All specifications are automatically available for procurement team to meet all project requirements. This avoids costly mistakes due to shared project specifications between all stakeholders.

Plan capacity and schedule project



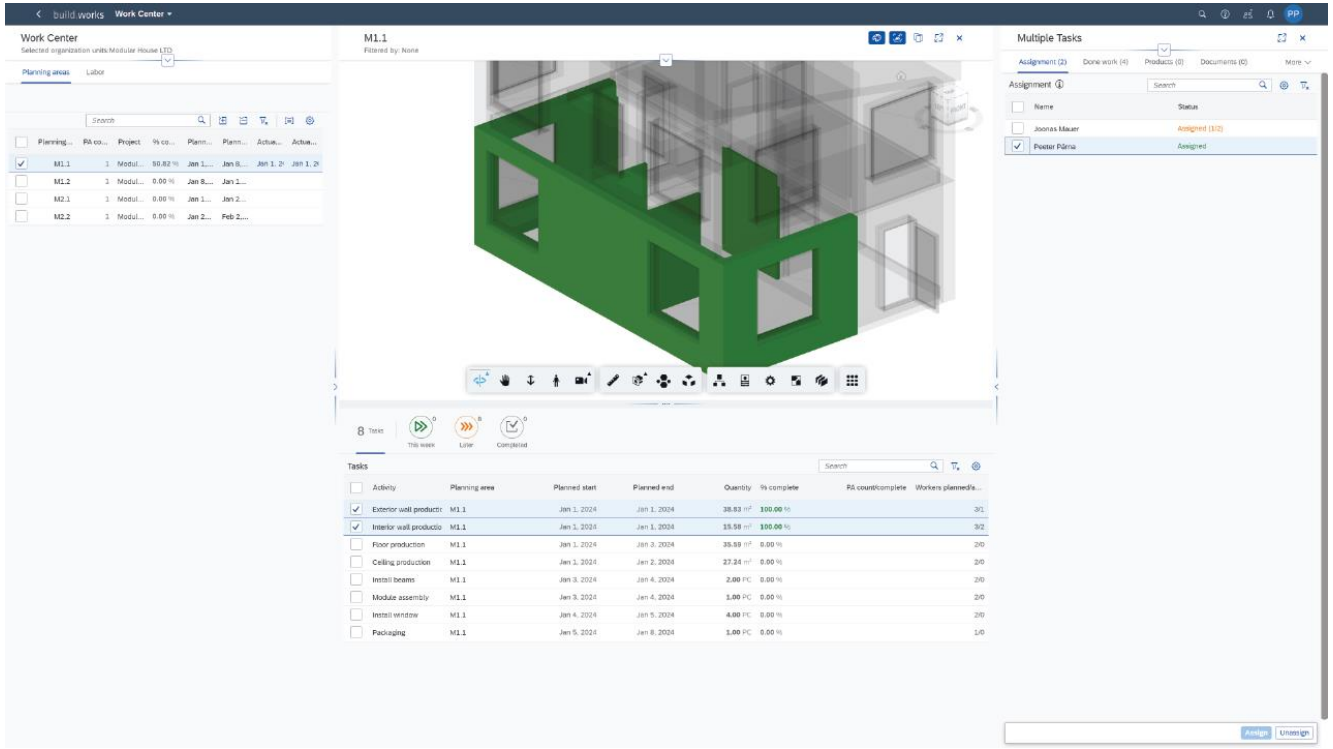
- Plan time period when project can be undertaken by analyzing available capacity. Highly automated scheduling of offsite prefabrication tasks and onsite construction tasks using BIM models improves workforce planning and provides requirement dates for purchasing and manufacturing.

Budget costs, sales price and profitability



- Automated budgeting based on project specification. Top-down view of budgeted costs, revenues and margin by resource categories, building systems, assemblies (e.g. modules and panels) or any BIM parameter improves financial planning and control.

Execute offsite production and onsite construction



- Assign project tasks to people on the shop-floor or construction site. Track progress and accept/reject work reported by workers using mobile app. Work done is used to invoice customer based on completing project milestones and accepted work quantities and or time.

Business Benefits

Value

Benefits

Increase sales with rapid project estimation and quotation

Estimate resource requirements and calculate project costs, sales price and profit margin. Use predefined master data to specify your projects by building systems. Both cost plus margin and sales price lists can be used to budget and prepare customer quotations.

Improve financial planning and control with easy change management

Plan project change orders and communicate changes to procurement and production processes. Validate change orders in respect to resources, Bill of Material (BOM), budget and project schedule prior to communicating to supply chain. Change orders can be initiated from changes in BIM models and/or changes in project specification.

Avoid costly mistakes with single source of truth

Project definition provides single source of truth for supply chain planning and execution. Avoid information siloes between departments and applications by triggering all business processes from central definition of project specifications based on BIM.

Increase efficiency with integrated business processes

Streamline and automate project planning and execution with integrated end-to-end business process. Enhance collaboration between departments by connecting data, processes and people into one coherent way of working enabled by suite of integrated cloud applications.

Increase profitability with value chain innovation

Provide higher value to customers by offering more complex products, services and turnkey solutions. Move up in the value chain by increasing the level of prefabrication and offering value-added features. Flexible BOM definition of prefab assemblies and sub-assemblies based on BIM models and product specifications enables value chain innovation and increases your margins.

About Us

Who we are?

About Us

build.works is a product of INTELSYS - an SAP PartnerEdge Sell/Build partner selling, implementing and supporting SAP products

build.works is SAP certified product:

- Integration with SAP S/4HANA
- Application Readiness Check
- SAP Store
- SAP Industry Cloud

build.works is Autodesk certified product:

- Integration with Autodesk BIM360
- Member of Autodesk Construction Cloud
- Autodesk Store