

# COSMO Project based on Microsoft Dynamics 365 Business Central



Every company and every industry has its own, individual IT solution requirements. This applies in particular to companies for which planning and implementation of projects is part of their core business. With COSMO Project, COSMO CONSULT offers these companies a certified industry solution based on Microsoft Dynamics 365 Business Central on-premises.

COSMO Project is specifically tailored to the industry-specific challenges of plant construction, special-purpose machine construction, project service providers, engineers and architects as well as the construction-related industry.

COSMO Project makes a significant contribution towards secure and fast ERP implementation, efficient project planning and management as well as transparent controlling and continuously up-to-date simultaneous costing and at the same time promotes interdepartmental collaboration with the areas of design and development, purchasing and MRP, production, dispatch and controlling.

The high user acceptance and added value resulting from the optimised processes and functions improves the competitiveness and transparency of the business, leading to customer satisfaction over the long term.

As a result, COSMO Project offers you greater reliability, transparency and flexibility in the processing of complex projects.

### **Target Industries**

- · Plant engineering and construction
- · Manufacturing systems engineering
- · Engineering and planning offices
  - · Architects
- · Professional Service Providers
- · Project-oriented companies
- · Construction work
- · Subconstruction work

# Support throughout the Entire Project Lif Cycle

COSMO Project supports you throughout the entire life cycle of your projects:

- · Planning phase
- · Project calculation
- · Quotation creation
- · Order processing
  - Planning and execution of project-specific procurement processes
    - Purchasing
    - Warehousing
    - · Production
  - · Service provision with time recording
  - · Dispatch planning and control
  - · Project invoicing
    - · Billing of expense items
    - Payment plans with integrated pre-payment management
    - · Milestone accounting
  - Project controlling for costs, revenues and work progress
  - · Project evaluation
- Project completion
- Management of subsequent orders, such as additions, warranty and service

### Planning of projects

COSMO Project provides you with the best possible support from the early planning stages of your projects. You can create project structures quickly and easily using project templates, extensive copying functions and intuitive system operation.

In the hierarchical work breakdown structure, you can plan the services and work packages required for implementation of the project as well as the required material, travel costs and other expenses.

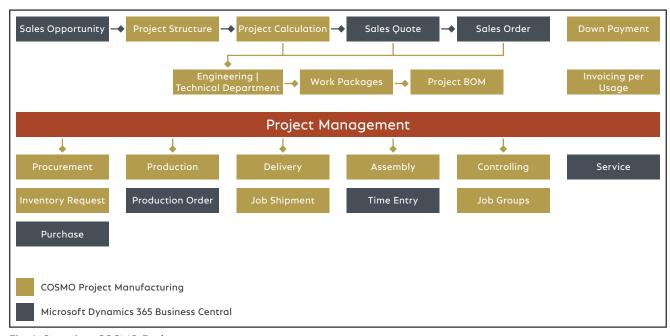


Fig. 1: Overview COSMO Project

### Flexible project costing

By creating the project work breakdown structure, you have already established the basis for project costing. By calculating costs and revenues you always have an overview of the anticipated profit margin. This applies both to pre-costing and to simultaneous costing during processing of the project (see fig. 2). To determine the price of individual project items you can refer not only to the cost prices and sales prices saved in the product

master data for standard components, but also to the hourly rates for services.

For project items which have no standard prices, you can refer to estimated values or quotations from your suppliers. The purchase quote manager helps you to create supplier requests and to select the right supplier with a price comparison.

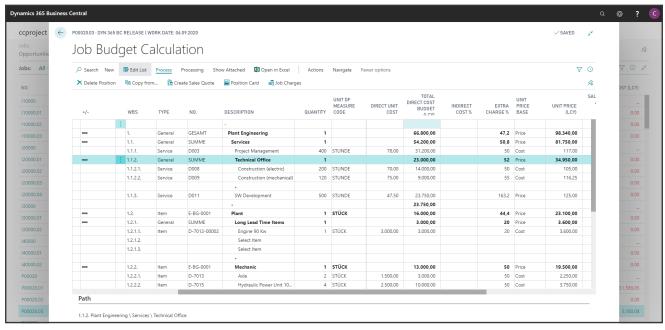


Fig. 2: Project Budget Calculation

Through unit price determination at item level you can use special project prices or project charges. In addition, you can also set up a special overhead costing based on your own templates of calculation schedules.

A rollup function enables you to group items at a higher level in the form of "bottom-up costing".

With the budget planning function, you can fix estimated item totals and then monitor compliance with the budget ("top-down costing"). This means you have the best possible basis for reliable costing at your disposal.

### Quotation creation and order release

Quotations can be created directly based on the costings. You can decide which costing items should appear in the actual quotation. In that way it is easy and fast to create different quotation variants. Adaptations in quotations can be recognised during creation of an order and can be passed back to the project.

Through order release, the order value is codified for the project history. Thus, even in order processing, you still have an overview of the scope of the original project quotation.

## Make exact and fast statements using the checklist

The checklist offers great benefits even during the sales phase - even without the need for deep technical knowledge about the various product characteristics. For example, the checklist system checks the technical feasibility of a product specification and signals any necessary additional services (see fig. 3). In addition, a dynamic BOM can be generated that is used as a basis for quotation and individualization according to customer requirements.

The dynamic BOM is also available in the further process after receipt of the order as the starting base for instance for construction or manufacture.

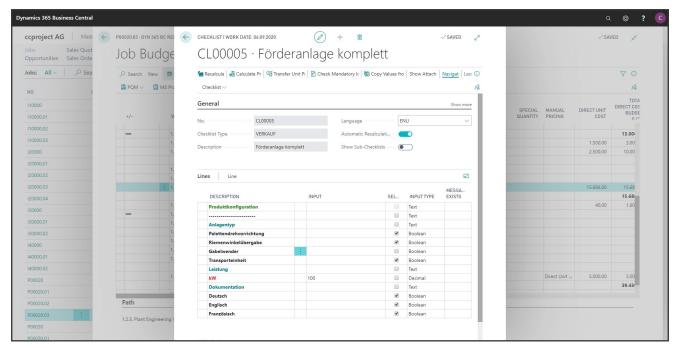


Fig. 3: Checklist Configure-to-Order

# Project Workflow Planning and Scheduling

In addition to planning costs and revenues, COSMO Project also supports the planning and scheduling of projects and their workflows. The integrated resource planning allows you to keep track of departmental and employee utilisation even across different projects. Individual process steps and the time required for these can be derived from the planning processes specified in the project work breakdown structure (see fig. 4). The process steps can be linked together through predecessor relationships and can thus be rescheduled at any time.

### **Microsoft Project Interface**

A bi-directional interface is used for exchanging data with Microsoft Project. Therefore, the workflow plan for a project can be displayed graphically and modified in MS Project. Changes are transferred back to COSMO Project if desired, and are then available to all members of the project team.

### **Capacity and Resource Planning**

Available capacities for each employee can be assigned using an integrated calendar and the usage of work time templates. Therefore, a capacity overload or free capacities of a single employee is visible.

The utilisation of individual company departments can be illustrated via resource groups. Thus, you can detect bottlenecks at an early stage and take the relevant action.

# Complete project management support through integration into the ERP system

Project management also includes service provision, procurement, project delivery and invoicing to the customer. Because COSMO Project is fully integrated in the Microsoft ERP system, you are able to plan your project quick and easy and control the resulting processes.

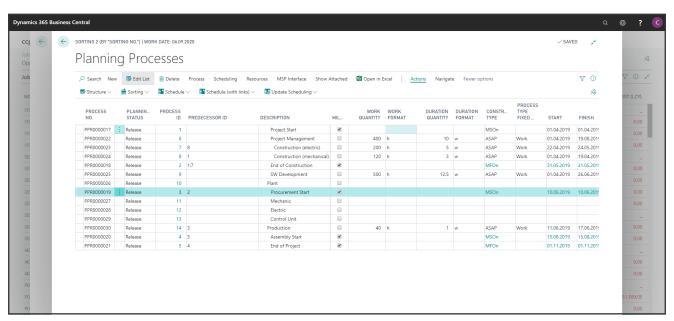


Fig. 4: Planning Processes

### Project processing made easy

For all processing steps, there is a planning and release functionality. This means you can control which work packages and which procurement processes from the project structure should be performed. Release automatically forwards demands to purchase, generates warehouse requirements or production orders and releases work packages for booking. This ensures that the supporting company units are fully integrated project management process. This is the basis for creating project-based purchase orders in good time, optimize warehouse stocks in the project transaction and supply a solid planning basis for work preparation and production (see fig. 5).

Through status notifications on the processing processes, which can be viewed directly in the project structure, you can track the project execution transparently. This means the project team always has an overview of the distributed actions which are required for successful project management.

### Dispatch management

With COSMO Project you always have component planning and controlling under control. The decoupling of invoicing and dispatch through project-based delivery notes is available as standard, which is important in many projects.

### **Project accounting**

**COSMO Project** supports the current accounting methods within projects:

- · Billing at fixed price
- · Billing on a costs and materials basis
- · Billing on degree of completion
- · Milestone-based accounting

Invoices can also be created in different currencies.

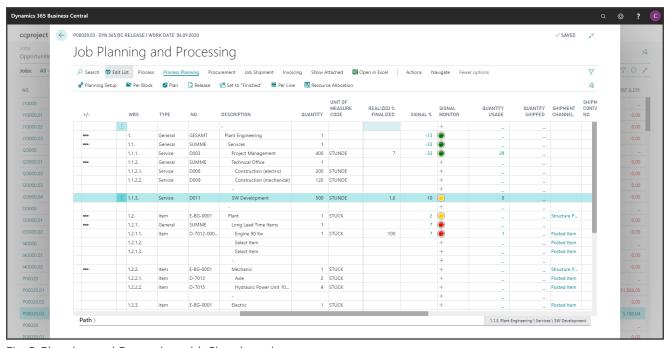


Fig. 5: Planning and Processing with Signal monitor

# Create the payment plan for your customers

The optionally available integrated pre-payment management tool takes all tax conditions into account and illustrates a further significant integration advantage for the sales employee and for the subsequent departments (see fig. 6). Thanks to the data agreed in the payment plan, you receive on time suggestions for invoicing of the respective pre-payments or final invoice. As an option, the information from the payment plan can be incorporated in your company's liquidity forecast.

### **Project Evaluation**

With COSMO Project, the often very time-consuming accounting evaluation of projects can be performed automatically. Thus, you can always see at what value and on what basis projects were capitalised on a due date or recognised as liabilities through accruals for future costs or impending losses. At project completion the consumption or resolution of activations and passivation's occurs at last due date.

### **Project Navigate**

During the project processing an increasing number of documents, which are associated with the project, are created in individual company areas such as Sales, Purchasing, Warehousing and Production. In order to maintain transparency these documents are illustrated in a structured manner in the project documents. By mouse click you can directly access the relevant document in Microsoft Dynamics 365 BC on-premises quick and easy.

#### **IDS Interface**

Networking with wholesalers is supported by the IDS interface. The IDS web shop interface is used for automatic communication between the Microsoft Dynamics ERP software and various on-line systems of wholesalers, such as Würth, Hagemeyer, Sonepar and GC Group. It is essentially based on the following functions:

- Send data and instructions from the ERP system to the web shop and
- Receiving data and instructions from the web shop back to the ERP system.

With the IDS interface, a connection to a web shop can be established directly from the project budget calculation, the procurement planning or in the requisition worksheet. Web shop carts are exchanged bidirectionally. In addition, purchases can be ordered directly online.

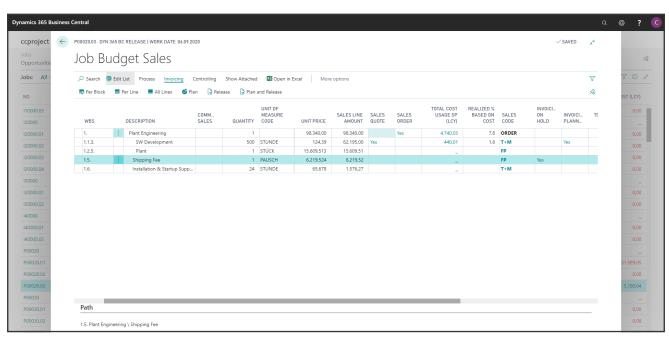


Fig. 6: Invoice Planning/Sales View

### **Projekt-Controlling**

In addition to the status information provided online the system also calculates further indicators that can be used for monitoring your projects. Projects can also be grouped into project groups for analysis and reporting.

The "Signal Monitor" processes cost and progress information and visually illustrates the actual expenses for the relative cost budget ("Traffic Light").

In the concurrent calculation the main information for all project phases are displayed in one window. This information can also be prepared and transferred to Microsoft Excel (see fig. 7).

COSMO Project is an industry solution which helps you to optimize the implementation of business processes in project planning and controlling.

### **Zusatz-Apps**

- · COSMO Task-based Planning
- · COSMO Factory Data Capture
- · COSMO Mobile Solution
- · COSMO Quality Management
- · COSMO Prepayment Management
- · COSMO Workflow Management
- · COSMO Document Management System
- · and much more

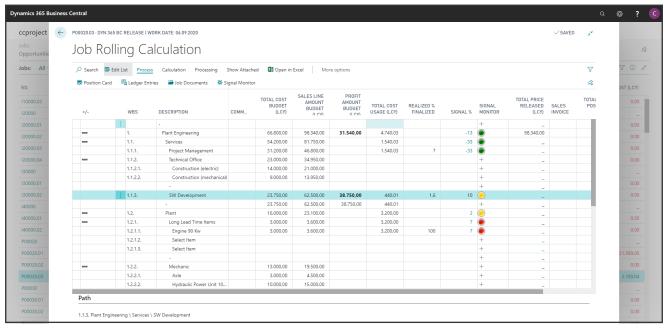


Fig. 7: Concurrent Calculation with Signal monitor

Austria · Chile · China · Columbia · Ecuador · France · Germany · Hungary
Mexico · Panama · Peru · Romania · Spain · Sweden · Switzerland

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