

Full Control in Real Time



CONSILIO is redefining material supply for the BMW Group with the **Connected Supply Chain Cockpit (CSC-Cockpit)**.

Automobile production is highly complex, and it cannot afford downtime caused by material shortages. To prevent this, materials must always be available in the right quantity, at the right time, and in the right place. The key is to identify potential shortages early and respond quickly.

CONSILIO developed a scalable solution that enables the BMW Group to monitor and manage complex supply chains across all plants with full transparency and real-time insight.

The **Connected Supply Chain Cockpit** (CSC Cockpit) is more than a tool; it acts as the control center for seamless operations. All data is consolidated and clearly displayed in one cockpit, making work faster and easier for users.

The logo for CONSILIO, featuring the word in a bold, sans-serif font. The letter 'O' is stylized with a red-to-blue gradient. The background of the slide features a dark, high-contrast image of a car's front end, including the headlights and grille, with a semi-transparent circular graphic overlay in the bottom right corner.

Full transparency, maximum responsiveness – the CSC Cockpit

Project Environment

The CSC Cockpit was developed alongside the BMW Group's SAP S/4HANA transformation. As part of this program, CONSILIO also supported:

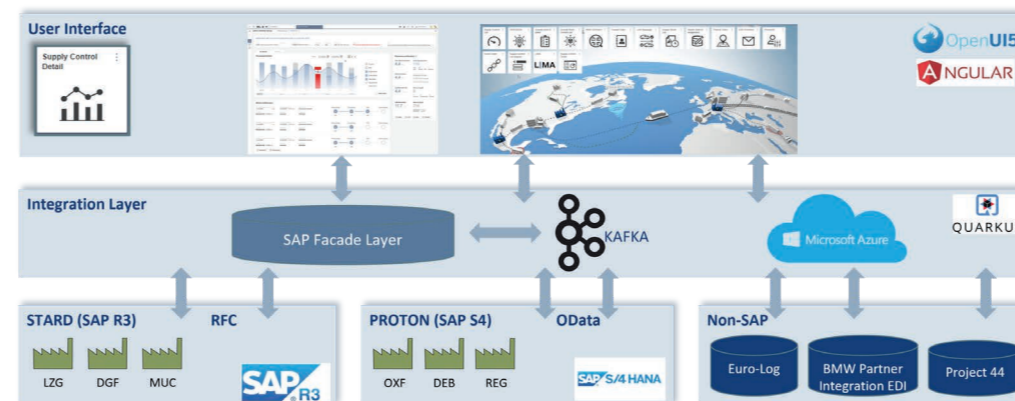
- the migration of MRP from ECC to SAP S/4HANA, including performance checks for critical ERP processes and optimization of MRP runs,
- the implementation of next-generation SAP JIT-JIS production supply,
- the technical design and architecture of a UI5 application to monitor contract manufacturing processes, including integration with external supplier systems.

Requirements and Challenges

The objective was to make material management more efficient, even with numerous interconnected processes and systems in place.

THE SPECIAL CHALLENGES:

- Integration of heterogeneous system landscapes, including SAP ECC and SAP S/4HANA



- Cross-plant deployment while maintaining ERP core stability
- Integration of multiple applications and data sources within a scalable, cloud-based architecture.

Using an Azure-based solution and a Kafka-based integration layer, CONSILIO built a stable, globally accessible platform that is both flexible and ready for future demands.



Project report: „Full Control in Real Time“
Implementation partner: CONSILIO GmbH

Efficient material control is the backbone of any production.

At its Heart: The Connected Supply Chain Cockpit

The CSC Cockpit serves as the central hub for material management. It brings together all key applications in a modern, intuitive interface and gives users the exact information they need—clearly structured, prioritized, and available in real time.

CORE FUNCTIONS:

- Central control and monitoring: cross-plant visibility of the supply situation
- Maximum transparency: early detection of material shortages and immediate initiation of countermeasures
- Event-based control: business logic for prioritizing critical materials, with configurable rules
- Customization: flexible setup options for different user groups

THREE KEY APPS FOR MAXIMUM TRANSPARENCY

1. Supply Control List – Multi-Plant Overview
Provides a complete view of all materials and plants under your responsibility, including data from third-party and partner systems. Initial actions can be taken directly from this overview.
2. Supply Control Detail – Single Material View
Enables detailed analysis of individual materials, including range calculations, scenario simulations, and graphical event chains. Potential issues can be detected and addressed early.
3. Track & Trace – Real-Time Delivery Tracking
Monitors shipments worldwide with GPS-based status updates. Users have access to all shipment details, can take corrective action, and actively manage supply chains before disruptions occur.



Conclusion: a true quantum leap for production logistics



PROJEKT-BENEFITS FOR THE BMW GROUP:

- Reduces complexity in daily operations by unifying all essential applications in one platform with a consistent user experience
- Transforms material management from reactive to proactive through real-time visibility and prioritization
- Increases transparency across the entire supply chain, speeds up decision-making, and strengthens supply reliability



Industry
Automotive

Featured Solutions
SAP S/4HANA, SAP ECC, SAP EWM,
OData-Services, Microsoft Azure Cloud, Kafka, Angular

