SAP Connect Day for Supply Chain Netherlands

Building Blocks of the Future

Engineering progress
Enhancing lives

Automation of warehouse logistics with SAP EWM template

SAP Connect Day for Supply Chain in Veghel, June 11th 2026

Mr. Tuncay Soruklu, REHAU
IT Process Coordinator, Location Triptis

IGZ® DIE SAP® INGENIEURE

With the kind support of:

REHAU

IGZ | THE SAP ENGINEERS

Introducing ourselves

PLANT – Falkenberg

Innovation Center

SAP EWM Projects

SAP EWM / TM Projects

Management / Sales

Customer Service

SAP MES Projects

SAP EWM General contractor

470 permanent employees, 5 “software barns”
Locations in Germany, Switzerland and Austria

Plant - Erbendorf

130 employees, 3 office and production buildings

IGZ | THE SAP ENGINEERS

Core competences for the digital supply chain

SAP Warehousing

- Warehouse Management
- Material flow control
- Forklift control, machine data recording
- Order picking
- ERP-Integration

EWM | S/4 | WM

SAP Manufacturing

- Machine connection
- Production data acquisition
- Production control panel
- Line control
- OEE / KPIs

DM | ME | MII

SAP Transportation

- Transport planning
- Carrier Selection
- Transport Execution
- Carrier Integration
- Freight cost management

TM | BN4L | EEI

SAP Automation

- General contractor
- Plan and construct new warehouses
- Retrofit existing warehouses
- Control technology
- PLC / visualization

MFS | TIA | SLC

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REHAU

Agenda

1. **Introduction to the REHAU Group**
2. New warehouse construction and modernization
3. Global SAP EWM Template Rollout Strategy
4. Summary

The REHAU Group

„ As a global leader in polymer-based solutions and beyond, we push the boundaries of what is possible every single day”

Leading developer of polymer-based solutions and more

- 13.000 employees
- 160 locations
- €3 billion in annual turnover

REHAU Industries

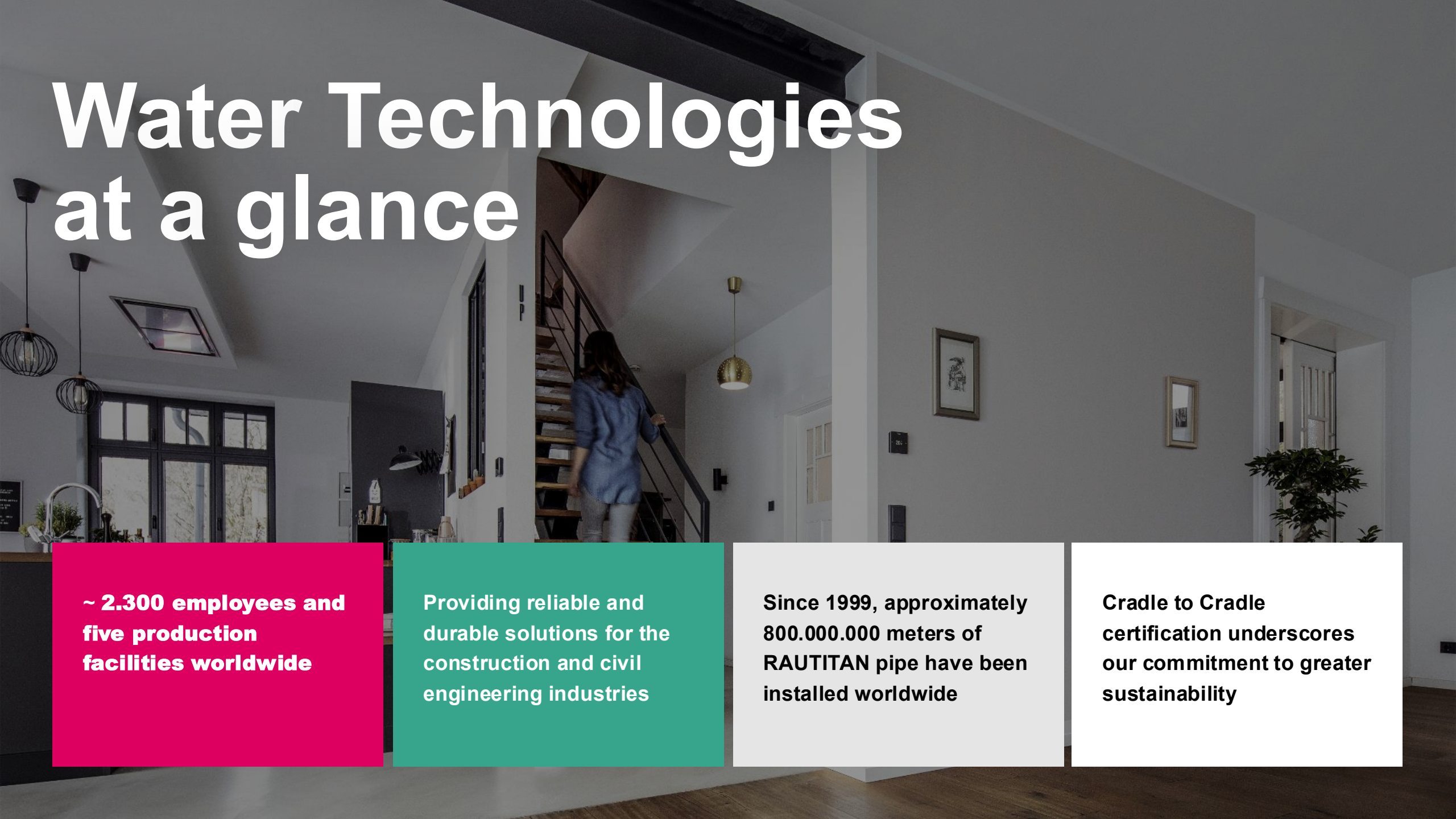
REHAU New Ventures

Meraxis Group

RAUMEDIC

REHAU
Interior Solutions
REHAU
Water Technologies
REHAU
Window Solutions
REHAU
Industrial Solutions
REHAU Industries
= General Contractor Projects with IGZ
REHAU

Water Technologies at a glance



~ 2.300 employees and five production facilities worldwide

Providing reliable and durable solutions for the construction and civil engineering industries

Since 1999, approximately 800.000.000 meters of RAUTITAN pipe have been installed worldwide

Cradle to Cradle certification underscores our commitment to greater sustainability

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2. New warehouse construction and modernization
   a. **Scope and objectives**
   b. Collaboration on the REHAU Triptis Project
   c. Overview of Warehouse Layout
   d. Highlights: Processes and Functions
3. Global SAP EWM Template Rollout Strategy
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Expansion of the Triptis Logistics Center:

Scope and Objectives

- The logistics center was established in 1998; the last expansion took place in 2007
- Warehouse and order-picking capacities have been exhausted
- Figure showing projected volume growth in EMEA through 2026
- With approximately 50% of order lines for EMEA, the Triptis location is a critical factor for the supply chain in the building technology sector
- Recruitment is becoming an increasingly critical factor, yet current logistics operations lack automation

>> Expansion of the Triptis logistics center to support growth and implement automation where appropriate

Logistics center, around 2000

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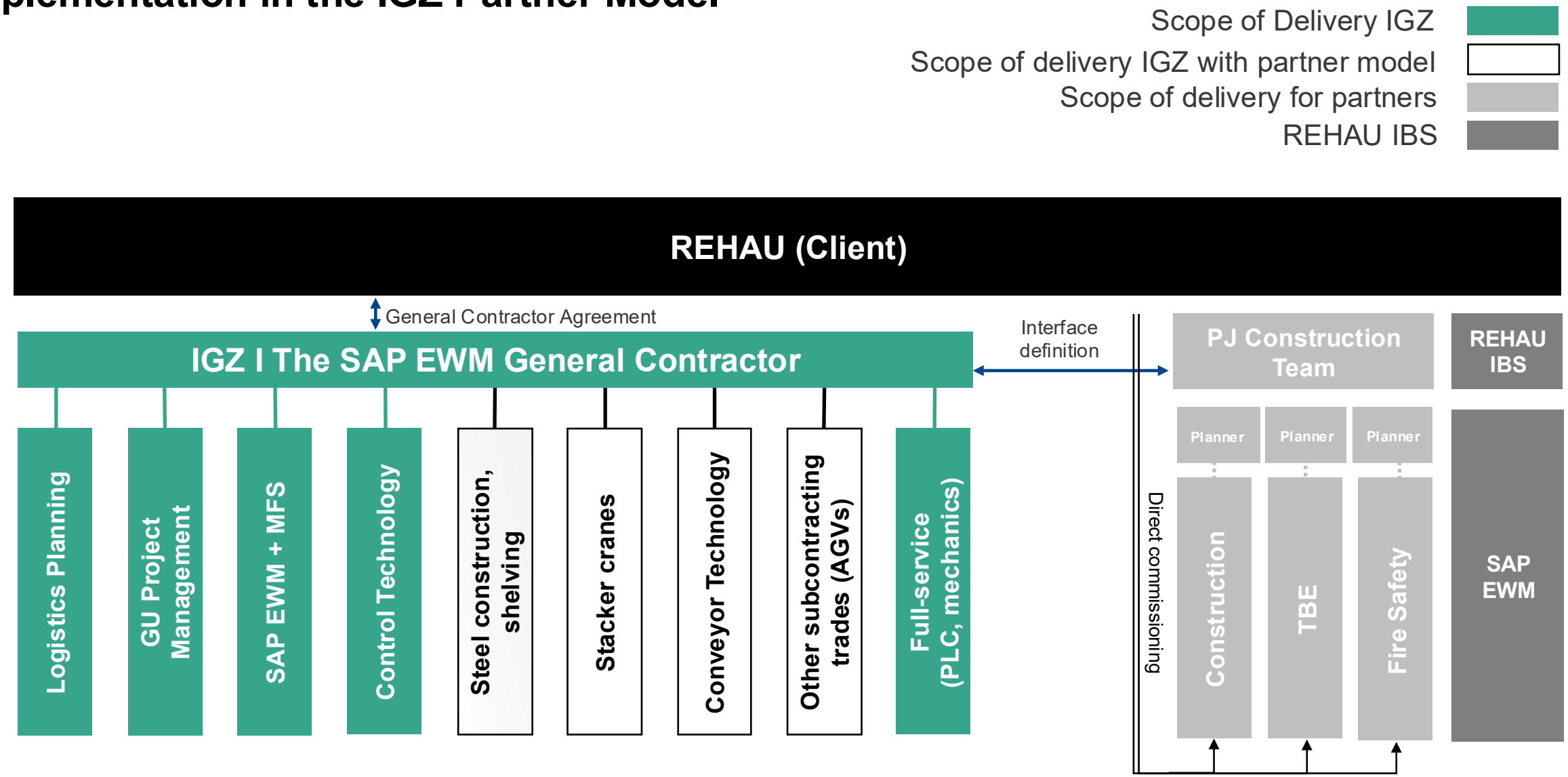
Implementation in the IGZ Partner Model



Project „GALLIUM“

Chronological Timeline of the Expansion

Truck parking lot incl.
Yard Management Expansion

July 2019

Shipping Hall 209

March 2020

New High-Bay Warehouse (HBW)
New Building 210 November 2020

Order picking in the existing Hall 207 + use of an AGV

September 2021

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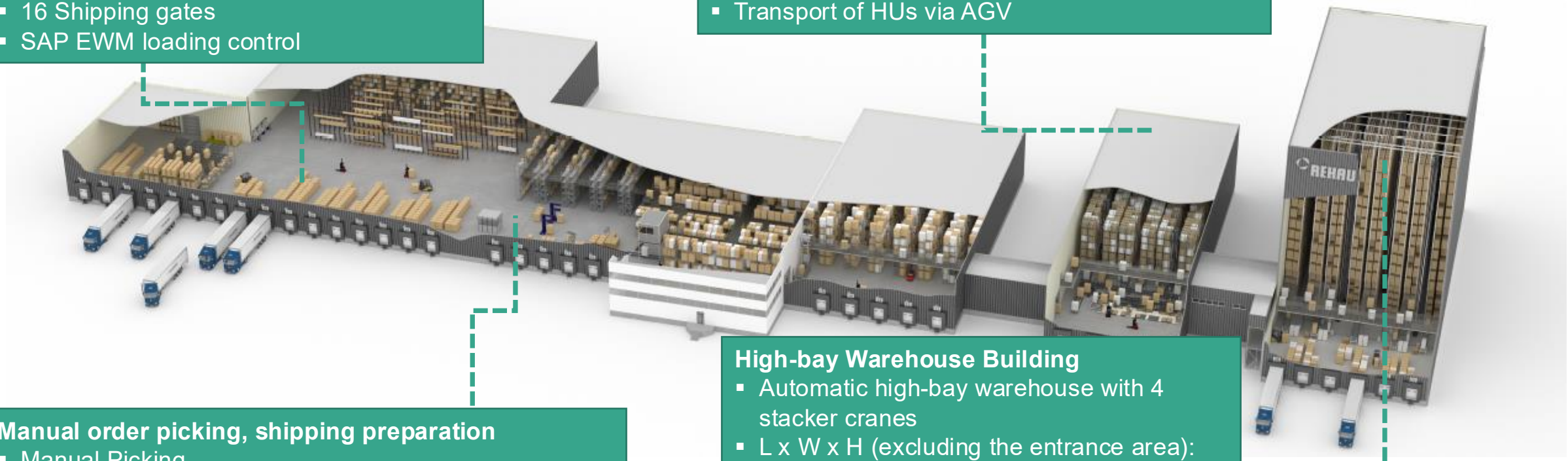
Overview of the Building Technology Logistics Center in Triptis

Building Shipping Preparation:
- Delivery of pallets via AGV to flow racks
- 23 Storage locations for shipping preparation
- 16 Shipping gates
- SAP EWM loading control

Existing building: Order picking
- “Goods-to-Person”, 3 stacker cranes
- 2.922 Storage spaces
- 3 Picking stations
- Transport of HUs via AGV



Manual order picking, shipping preparation
- Manual Picking
- Shipping preparation: Stretching, labeling, packing lists
- Automatic delivery of HUs via AGV
- Automatic delivery of full pallets

High-bay Warehouse Building
- Automatic high-bay warehouse with 4 stacker cranes
- L x W x H (excluding the entrance area): 58 x 30 x **40 m**
- 4 Aisles, 17 Levels
- 12.432 Pallet spaces (double-depth)
- 3 Height clusters for palletized goods
- Pre-zone building with 6 residential gates

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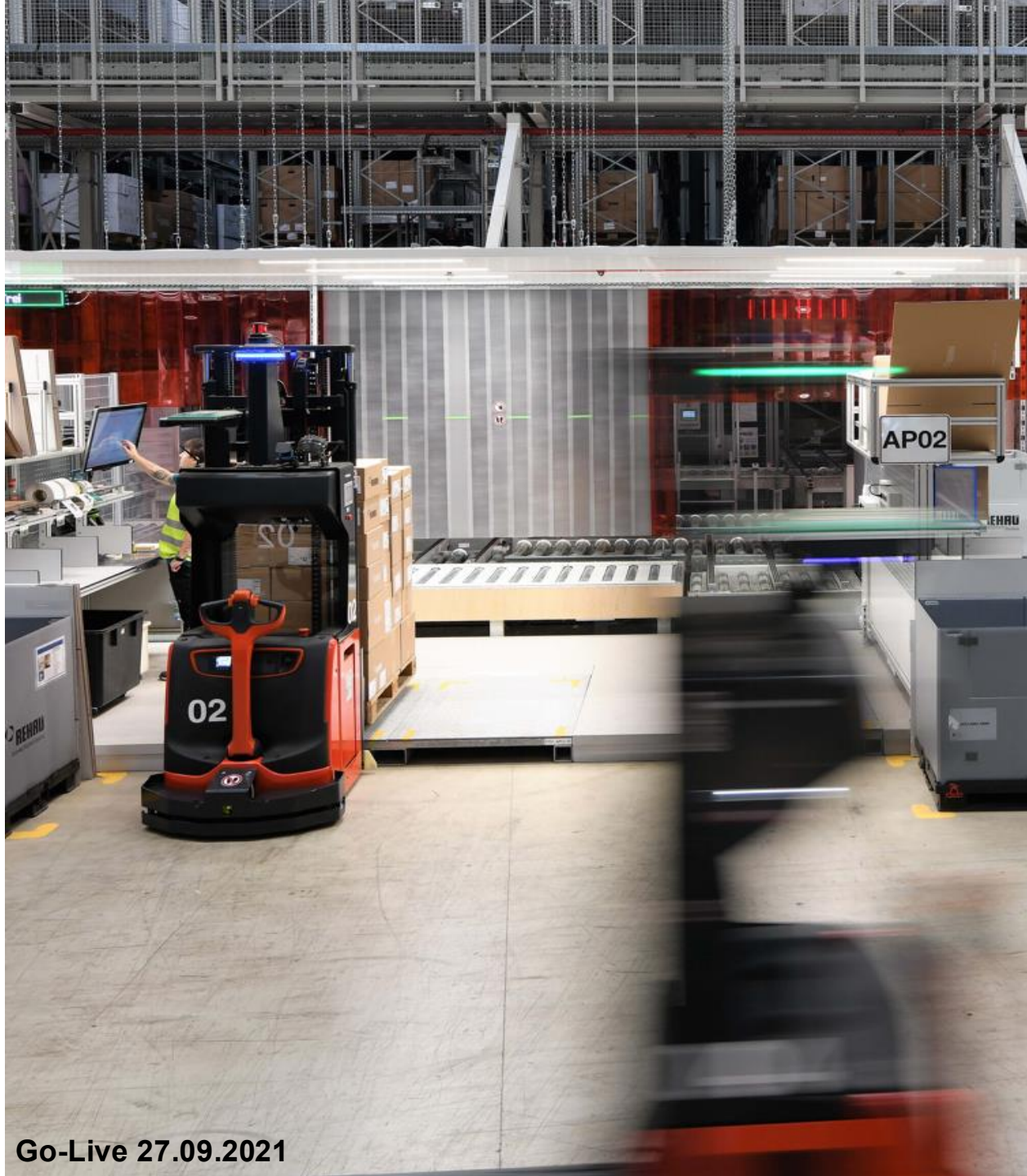
AGVs with SAP EWM Move-by-Robots

- Integration of 4 AGVs with SAP EWM Best Practice “Move-by-Robot”
- Transport of load carriers
  a) Automated Picking ➔ Packing Stations
  b) Packing Stations ➔ Flow Racks for Shipping
- Supplier: EK Automation, based on Linde equipment
- Integration into SAP EWM, including visualization of the AGV in the “Smart Logistics Cockpit”



Go-Live 27.09.2021

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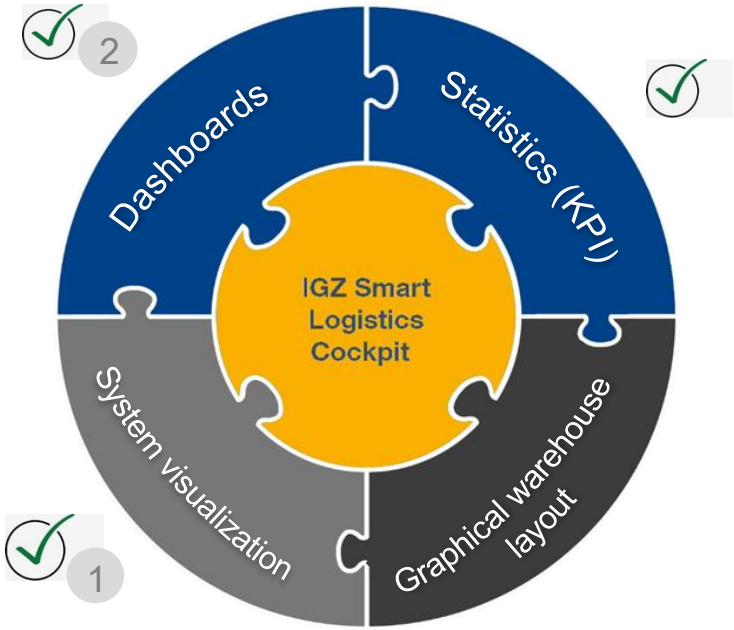
IGZ Smart Logistics Cockpit (SLC)

Statistics



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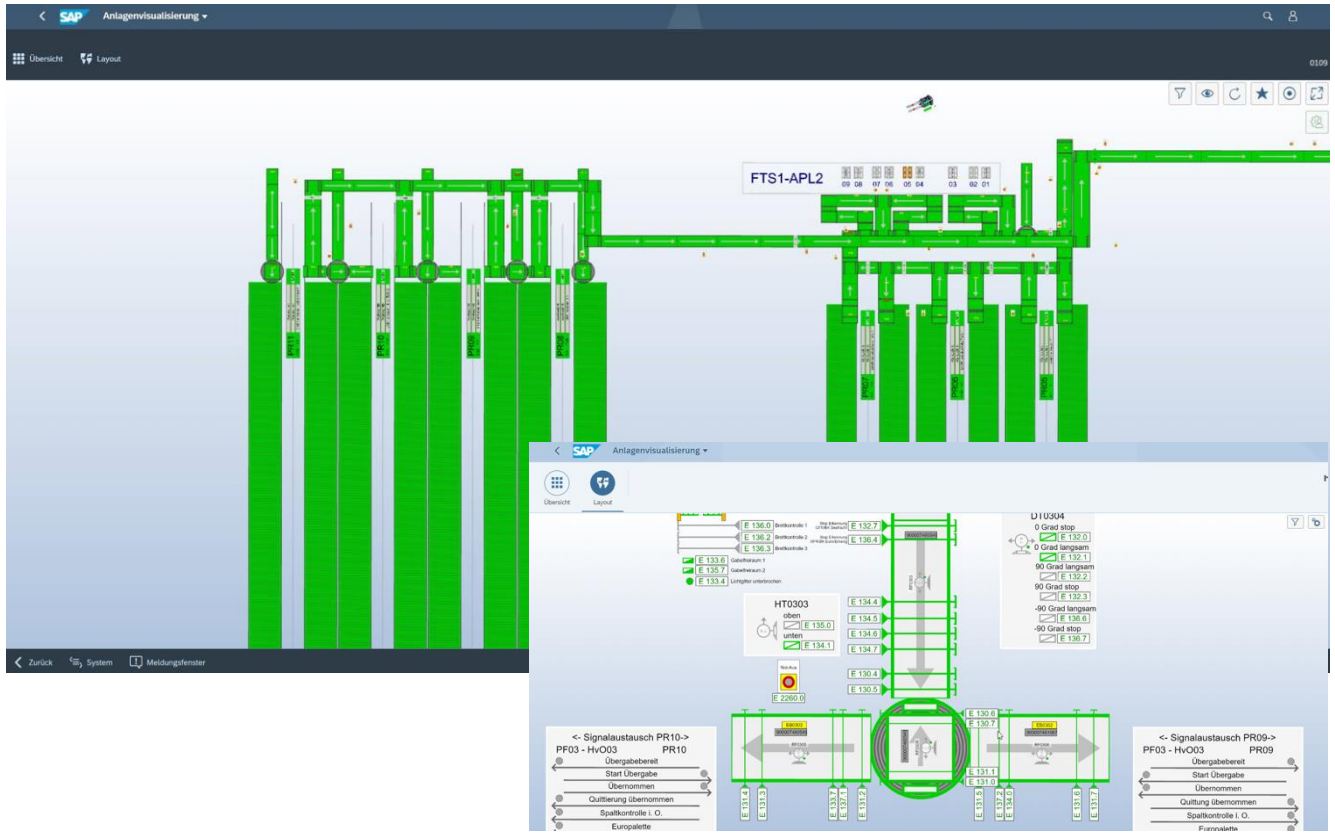
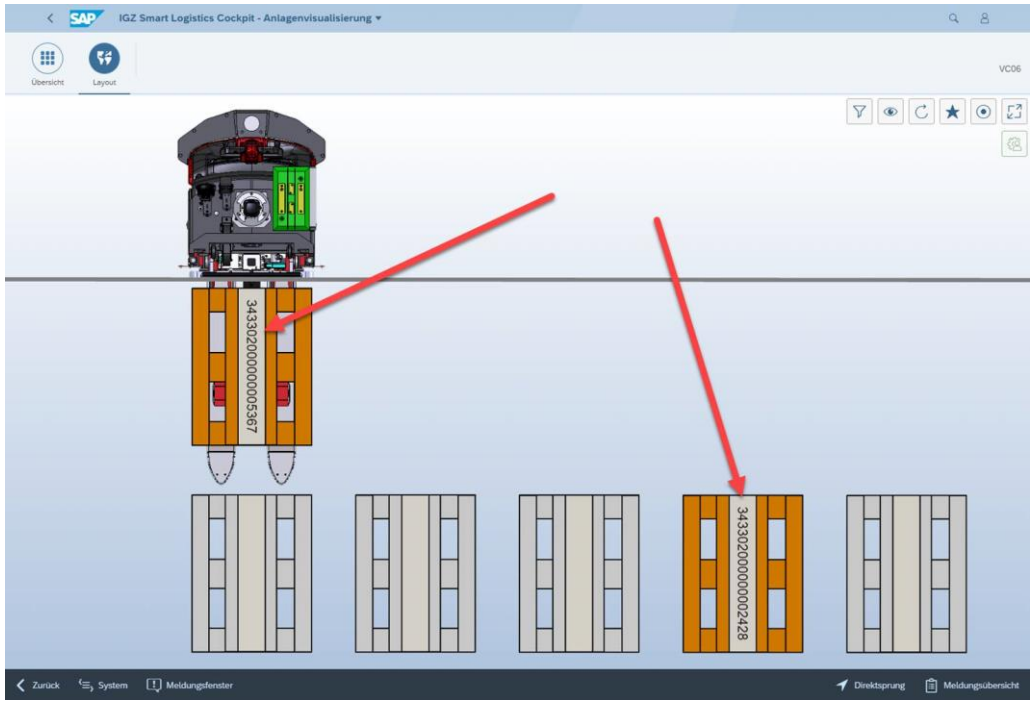
SLC: Plant Visualization including Move by Robots





>> System Monitoring and Troubleshooting Tool
>> Integration of AGVs and existing material handling systems as part of retrofit measures

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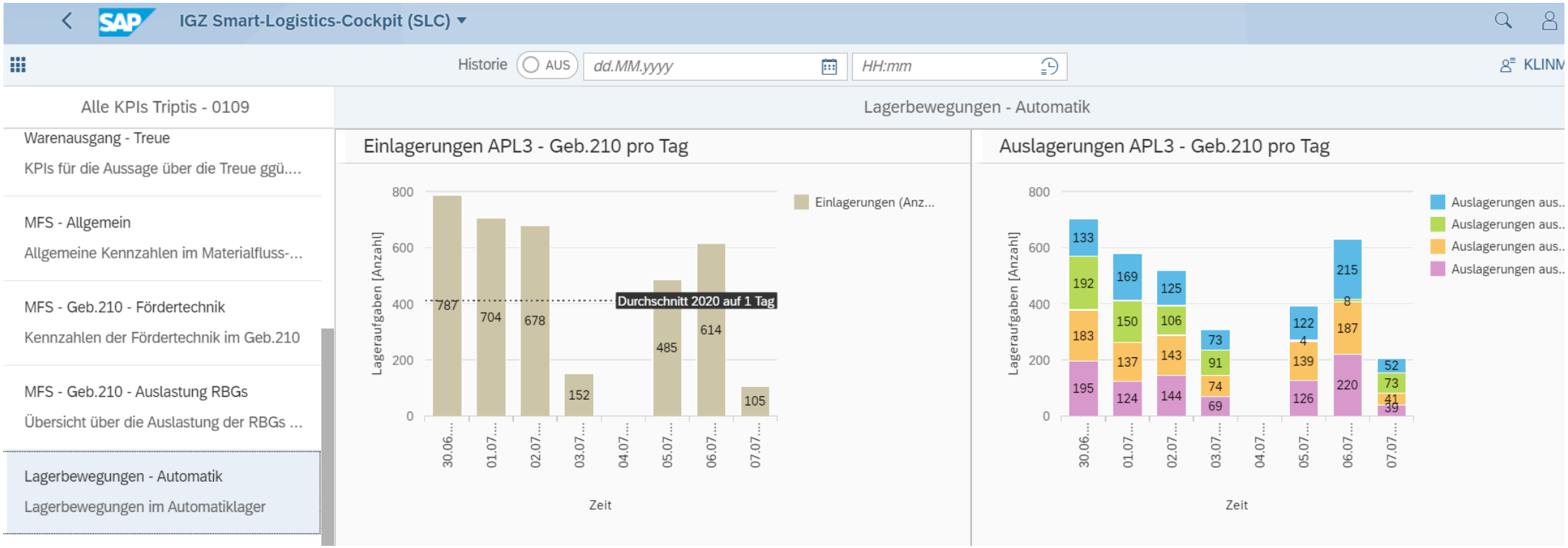
SLC: Dashboards (KPI)



>> Real-time information for the operational management of the logistics center

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   a. **System Architecture**
   b. SAP EWM Roadmap
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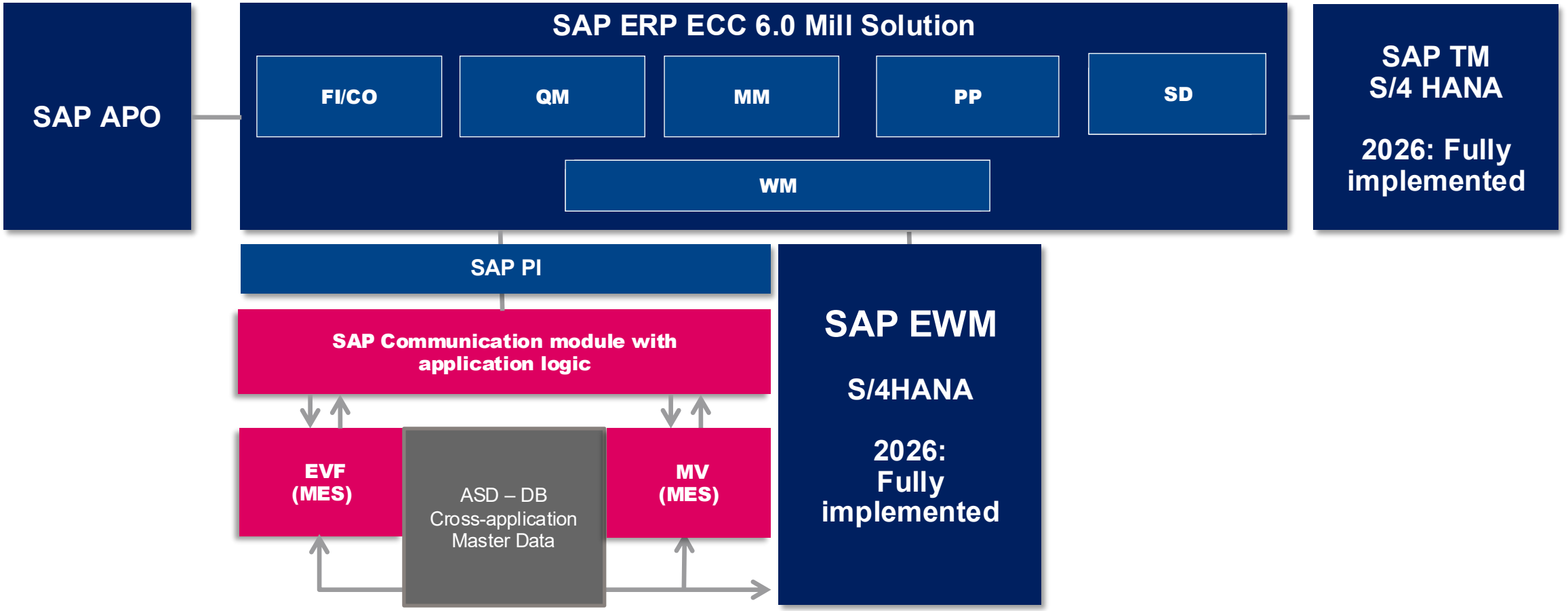
SAP EWM: System Architecture, Target



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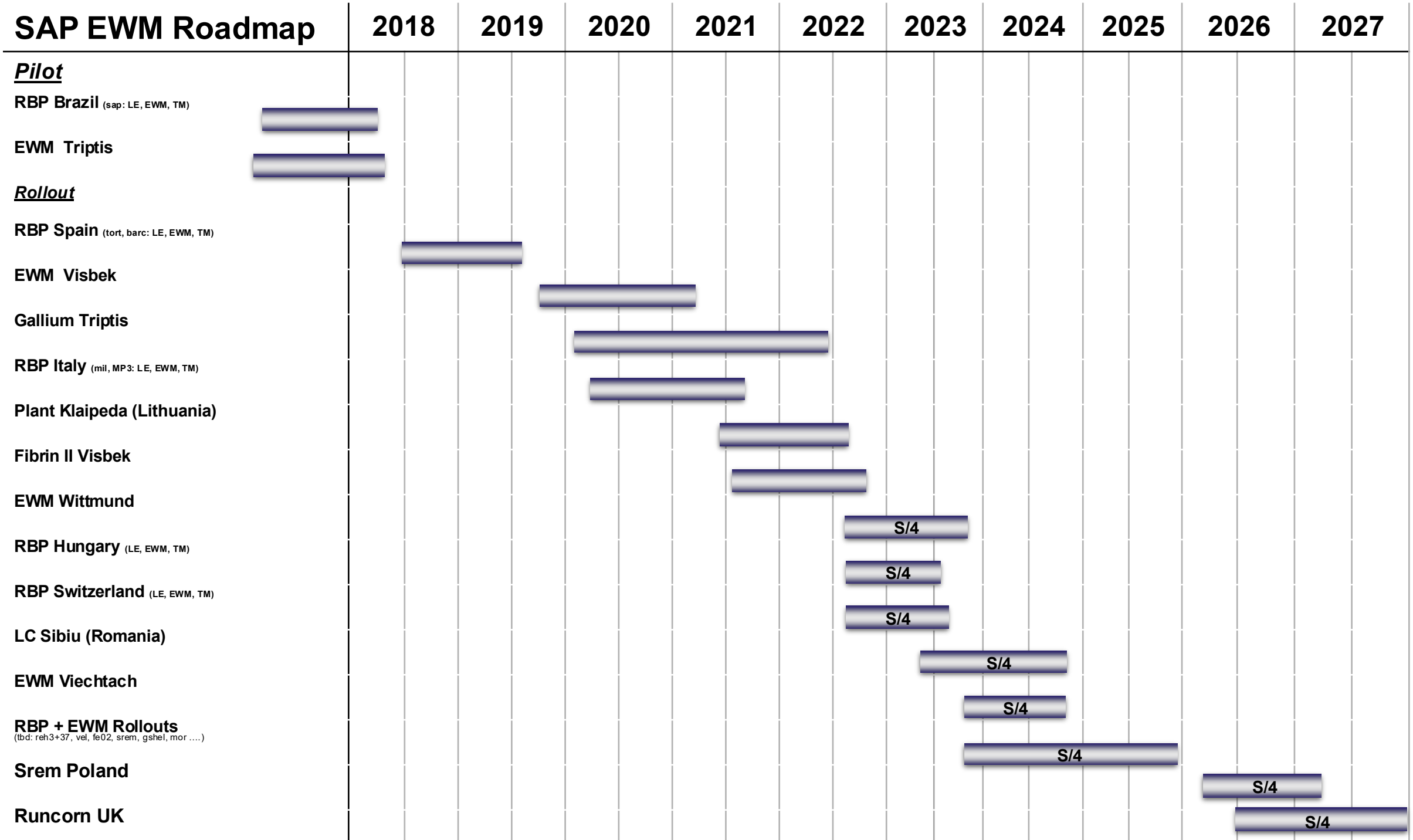
SAP EWM Roadmap
2018
2019
2020
2021
2022
2023
2024
2025
2026
2027
Pilot
RBP Brazil (sap: LE, EWM, TM)
EWM Triptis
Rollout
RBP Spain (tort, barc: LE, EWM, TM)
EWM Visbek
Gallium Triptis
RBP Italy (mil, MP3: LE, EWM, TM)
Plant Klaipeda (Lithuania)
Fibrin II Visbek
EWM Wittmund
RBP Hungary (LE, EWM, TM)
RBP Switzerland (LE, EWM, TM)
LC Sibiu (Romania)
EWM Viechtach
RBP + EWM Rollouts
(tbd: reh3+37, vel, fe02, srem, gshel, mor ....)
Srem Poland
Runcorn UK
S/4
S/4
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Conclusion: IGZ as a partner in the General Contractor sector…

- The **capabilities of IGZ** in the general contractor environment were successfully demonstrated through the implementation of the Triptis project at REHAU and again in the General Contractor project for the Furniture Solutions division
- Procuring hardware and software as a package (reduced interfaces for REHAU) **reduced the complexity** for REHAU
- For a “newcomer to automation” in particular, working with an experienced partner is essential - the project was completed **“on time and within budget”**
- Breaking down the overall project into several **“manageable” phases** extended the project timeline, but allowed REHAU to get off to a manageable start
- Identifying the “interfaces” between construction and logistics was challenging in the early stages; ultimately, however, what mattered was that the **boundaries of these interfaces were clearly** defined
- A thorough **neutral clash detection** (sprinklers, heating, compressed air, shelving, conveyor systems, etc.) conducted no later than the construction drawing phase prevents troubleshooting on the job site

„We need to think ahead. What will it be like in 15 years, and what can we do better?”

Helmut Wagner
(1925 – 2021)