SAP Connect Day for Supply Chain Netherlands

Building Blocks of the Future

Customer Story Royal FrieslandCampina Supply Chain – Slot & Yard management

Rene van der Wurf | 11 June 2026

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Agenda

- ✓ Royal FrieslandCampina Company Introduction
- ✓ What is our journey so far
  - ✓ What challenges do we want to solve
  - ✓ SAP Technology & Architecture
- ✓ Results & Learnings
- ✓ Future plans
- ✓ Check-out

Every day we nourish millions of people worldwide

Valuable nutrients from milk

>16,000

ambitious member farmers in the Netherlands, Belgium, Germany and France

The company is owned by Zuivelcoöperatie FrieslandCampina U.A.

Number of members as of 1 January 2026

Passion for nutrition

A strong global brand portfolio

Seven market-oriented business groups

Each focusing on specific customers, products, brands and markets

Consumer products
The Netherlands, Belgium, Greece, Hungary and the United Kingdom

Europe

Cheese and other dairy products for retailers
Germany, France, Italy, Spain and North and South America. Both private labels and own brands and through collaborations with retailers, discounters and our cheese merchant Velder and Dupont

Retail & Americas

Consumer products
(partly locally produced)
Gulf region, Pakistan, Nigeria and Ivory Coast

MEPA

Consumer products
(mostly locally produced)
Indonesia, the Philippines, Malaysia, Thailand and Vietnam

Asia

Specialised functional ingredients
For infant, sports, active lifestyles and medical nutrition

Ingredients

Infant nutrition
(under the Friso brand)
Mainland China and Hong Kong, Vietnam, Malaysia, Greece and Mexico

Specialised Nutrition

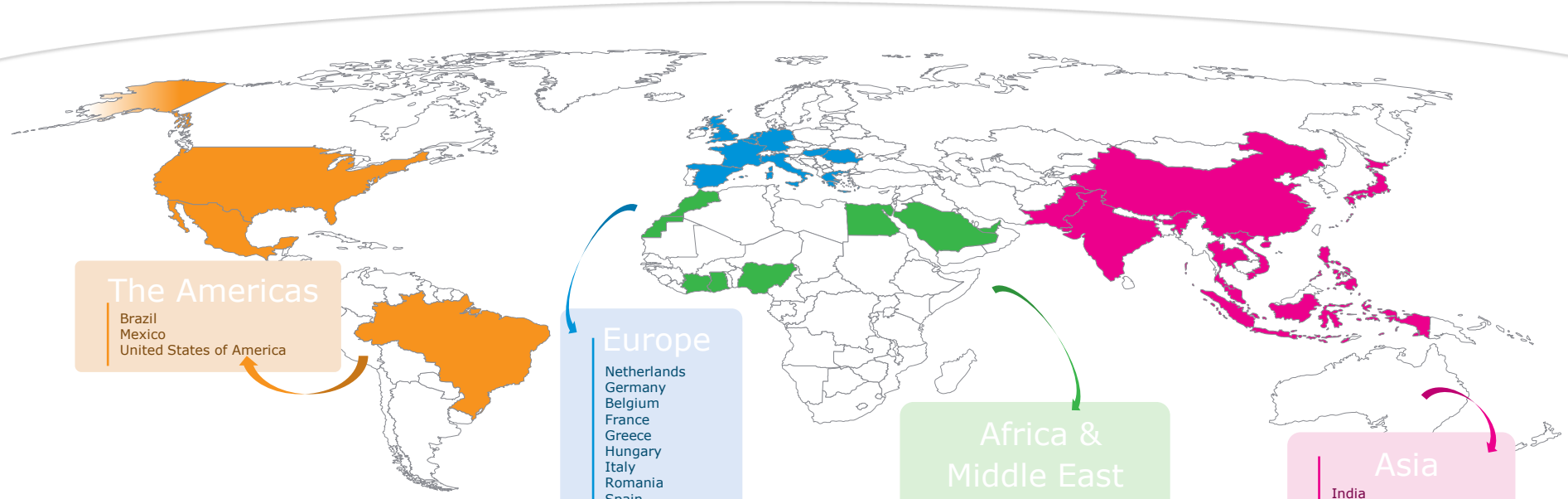
Dairy products and solutions
for professionals in the food industry

And buying and selling of commodity dairy products
for industrial customers

Professional

By working together, the business groups ensure the best possible valorisation of the milk.

Branches in 30 countries



The Americas

Brazil
Mexico
United States of America

Europe

Netherlands
Germany
Belgium
France
Greece
Hungary
Italy
Romania
Spain
United Kingdom

Africa & Middle East

Egypt
Ghana
Ivory Coast
Morocco
Nigeria
Saudi Arabia
United Arab Emirates

Asia

India
Indonesia
Japan
Malaysia
Pakistan
People's Republic of China
Philippines
Singapore
Thailand
Vietnam

One way of working, successful together

- Uniform processes worldwide
- Connection between functions
- Continuous improvement with Performance+

Performance

With the Performance+ program, we improve our processes and reduce costs in our supply chain.

Optimus
ENABLING TOMORROW

Multi year Optimus program to modernize our company's core business systems and standardize our ways of working

FrieslandCampina
nourishing by nature

Digital Supply Chain Logistic components

Order Mgmt. | Transport planning | Carrier Assign. & Slot Booking. | Picking & Shipping | Plant-in, Loading, Plant-out | Ocean, Road, FTL & LTL, (Event Tracking & ETA) | Plant-in, Unloading, Plant-out | Delivery E-POD

Milestones Events | In-Transit Visibility | Milestones Events

SAP BN4L Global Track & Trace

SAP ECC GSS

ORTEC Load Opti-mizer

SAP TM Shipment Costing

SAP BN4L GT&T

TMS LSP

WMS (LSP & EWM)

Transport Visibility (Carrier System)

Operations Control Tower Road

Operations Control Tower Ocean

E-CMR E-POD

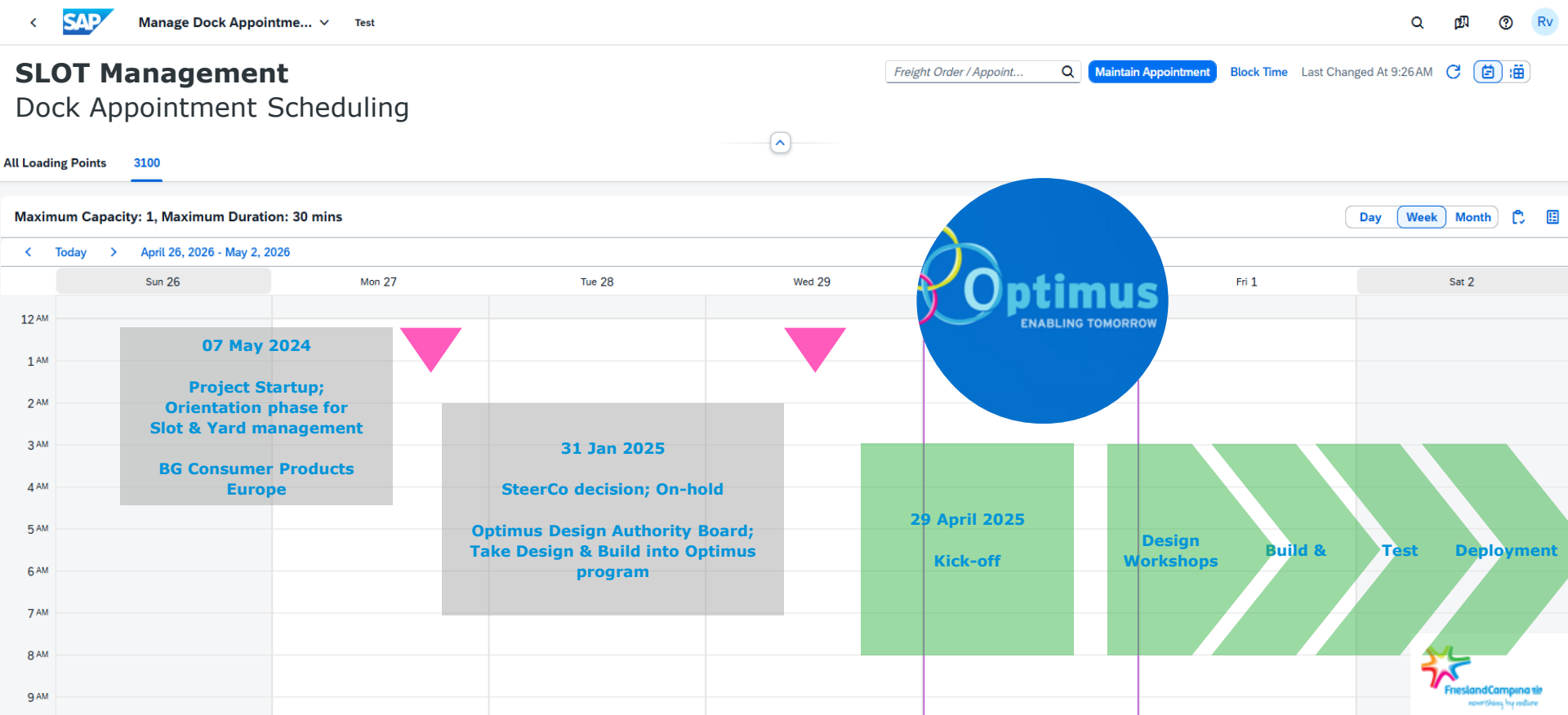
Slot Management

Slot / Yard Management

Yard / Slot Management

Operational | In development | To be explored

What is our journey so far?



Optimus Program – Improvement area's

Functional Scope Items:

1. Advanced ATP
2. Advanced Returns management
3. RTI – Empties management
4. Sales workflow process
5. LE-TRA to TM
6. Sales Billing
7. Ortec – Volume calculation
8. Replenishment CockPit
9. Production Direct Loading
10. Rebates – Contract & Settlement
11. Pricing
12. Foreign Trade
13. Enterprise hierarchy

14. Slot & Yard management

Future proof; Multi year Optimus program to modernize our company's core business systems and standardize our ways of working

Challenges to be solved?

- How to bridge the gap between Transportation and Warehousing?
  - No visibility on truck arriving; Better control to increase safety
  - Reduce waiting times with efficient dock planning
  - Warehousing workload peaks –> receive trucks based upon warehouse capacity – spread over day
  - Maximize flow-through the yard
  - Expedite the entire Supply Chain
- Data-driven; have insight of carrier performance, waiting times, and who is on our site
- Full integration within SAP Eco-system
- Automation for sustainable cost reduction
- Dynamic Slot Planning

Scope specifics & GAPS

Slot management

Streamline carrier collaboration

- Gain visibility into the freight order lifecycle to better manage appointments, share insights, and digitally manage transactions.

SAP BN4L

Freight Collaboration

- Dynamic slot planning with characteristics, Dynamic Dock Appointment parameters on SKU/TU characteristics
- Possible to book Dock Appointments without reference for Bulk; milk / sugar inbounds
- Roadmap development BN4L-FC-DAS

Yard Management

Simplify yard operations and management

- Integrate your logistics processes in the cloud, and gain visibility and control over planning, execution, processing, and monitoring activities.

SAP Yard Logistics

- SAP BN4L integration
- Automated yard order creation for POs containing more than one truck
- Mass upload of yard orders for raw milk receiving
- Production Direct Loading Push delivery (integration EWM/TM)

Scope specifics & GAPS

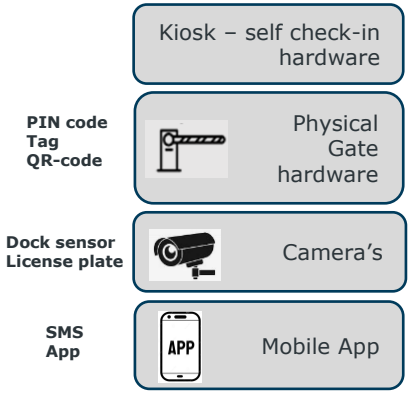
Yard Management

Simplify yard operations and management

- Integrate your logistics processes in the cloud, and gain visibility and control over planning, execution, processing, and monitoring activities.

SAP Yard Logistics

- Integration within Optimus SAP S/4 HANA,
  No Legacy R/3 & EWM 9.4
- Mobile Operations
  - Mobile truck App
  - Kiosk
- Connects with IoT gates/barrier, docks

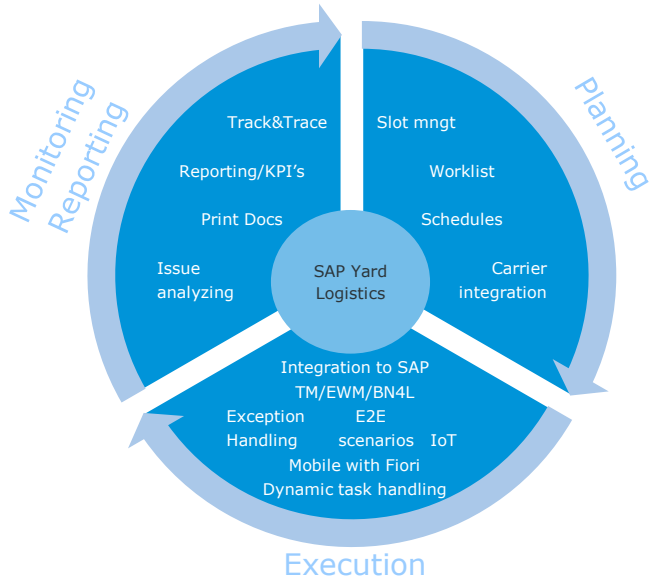


Control tower – KPI's & Reporting

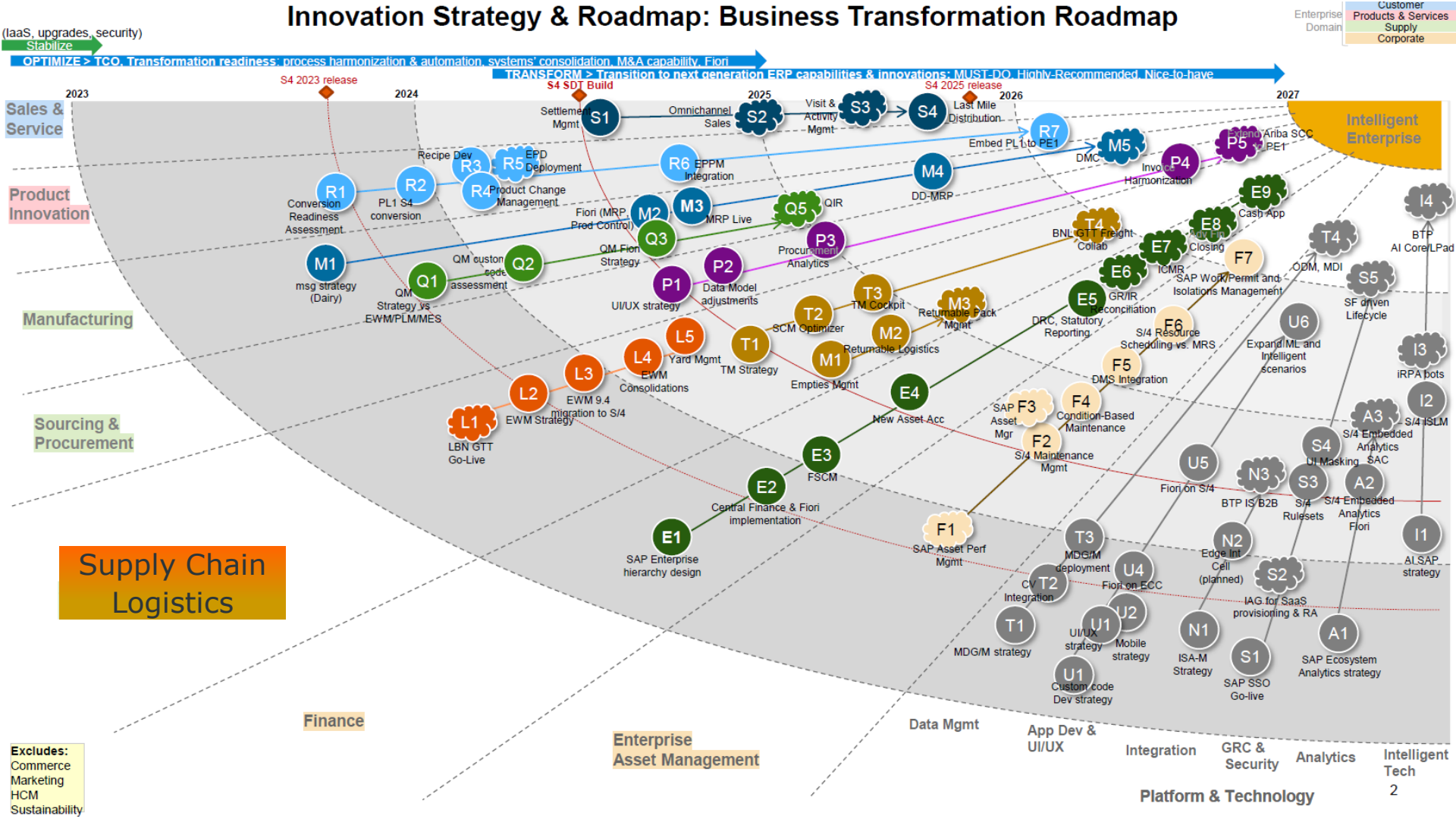
- Daily operational decision making
  - SLOT KPI's
  - Yard KPI's
- CDS views for KPI reporting
  - data-extracts to Azure data lake
- Advanced dashboarding in Power BI by Azure data lake

Process Scenario’s Slot management & Yard Logistics

1. Outbound ROAD with TM/EWM & BN4L-FC DAS
2. Outbound BULK without EWM
3. Outbound PDL with TM/EWM – Push deliveries
4. Outbound Stock Transfer Orders
5. Internal Yard movements – Adhoc
6. Inbound Raw & Pack with EWM & BN4L-FC DAS
7. Inbound BULK – Silos’& Tanks with BN4L-FC DAS
8. Inbound RMO – Raw Milk



Innovation Strategy & Roadmap: Business Transformation Roadmap



SAP Technology - SAP Yard Logistics

Option 1
Embedded YL on S/4 Main with TM

YL add-on

System internal integration of SAP Yard Logistics with S/4HANA Enterprise Management applications in the same system instance (embedded).

Option 2
Embedded YL on S/4HANA EWM

YL add-on

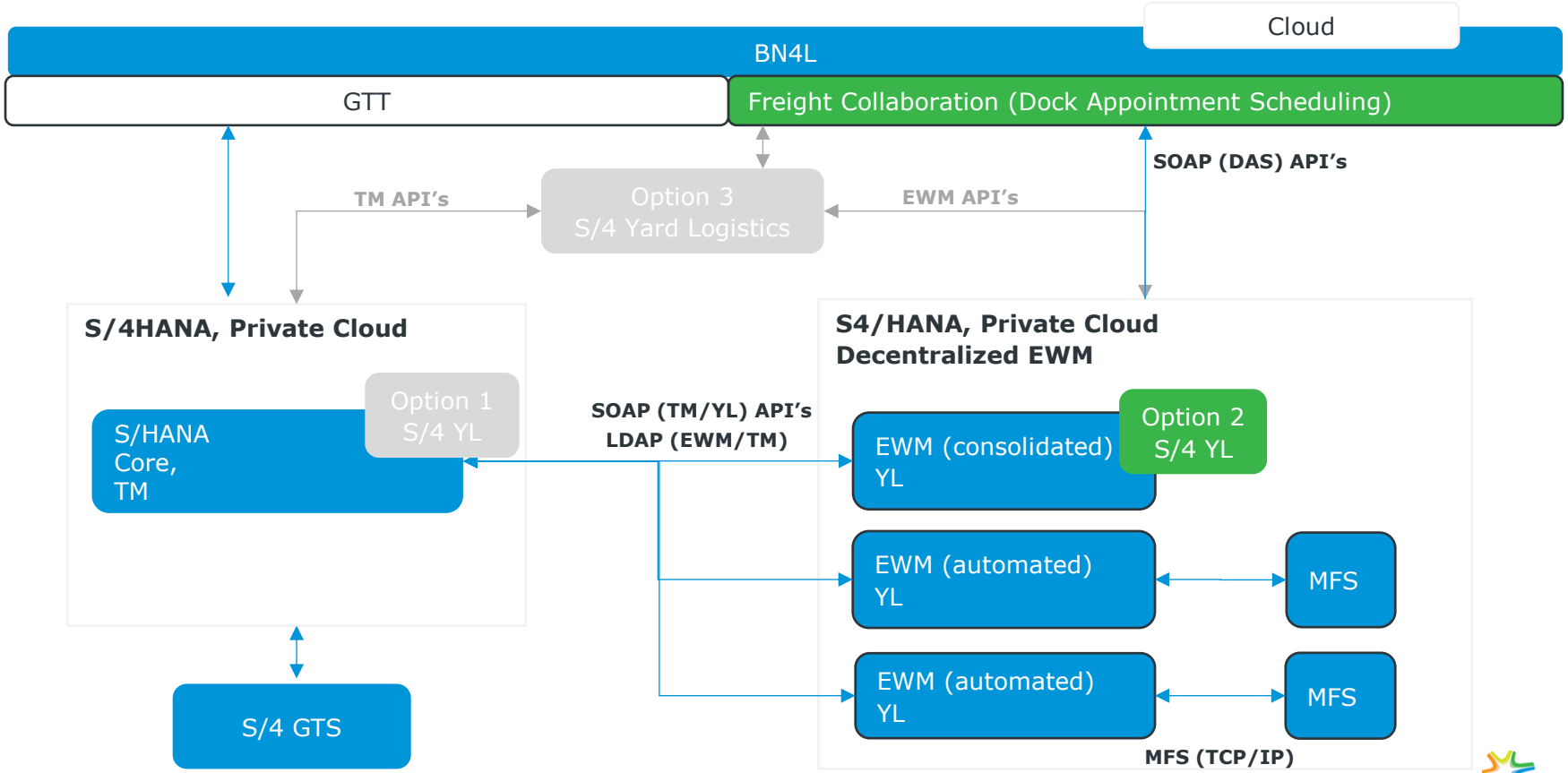
System internal integration of SAP Yard Logistics with S/4HANA Enterprise Management applications in the same system instance (**embedded**).

Option 3
Decentralized YL on S/4HANA

Decentralized SAP Yard Logistics

System external integration of SAP Yard Logistics with S/4HANA Enterprise Management or ERP applications in other system instances (**stand-alone**).

SAP landscape | Optimus – Target State after transformation
Option 2: Yard Logistics within SAP EWM



Results & Learnings

Results & Learnings

RESULT

√ Solution defined within Optimus program

√ Clear business requirements

√ Defined process flows

√ Defined technology/Architecture

√ Template Processes

LEARNINGS

❑ Business initiative needs IT endorsement

❑ Business – Look & Feel

❑ IT - Architecture & Integration

❑ Supplier / Partner choice

❑ Hardware; Complexity of IoT integration & Infrastructure decision

Future plans

Define Deployment Roadmap 2027 after Optimus S4 migration has finished

- Slot Management and Yard Logistics is new functionality for business.
- Priority is getting our business fully on S4, but have requirements and template processes defined within Optimus scope

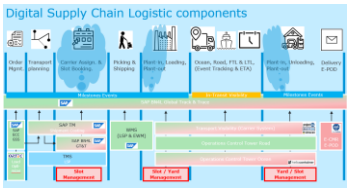
Roll-out

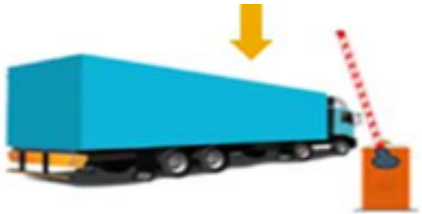
- Pilot defined; 5 locations within Netherlands and Belgium
- More …

Check-out

- Better visibility leads to a more controlled and efficient yard
- Adding Security on the Yard; Who is on our Yard?
- With smarter planning, carrier integration,
  and optimized dock allocation we intend to elevate performance.
- Data-driven; insight in carrier performance, waiting times.
- The Slot & Yard applications must fully fit in our SAP Eco-system

Does it make sense to implement SAP Yard Logistics ?





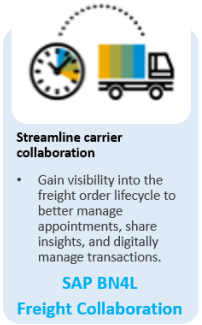
Thank You

Back-up slides

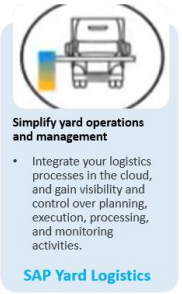
Slot & Yard management functional elements (high-level scope)

- **Master data**
  - Manage network
  - Resources
  - **Graphical Yard Cockpit** settings (Clear yard picture / GPS coordinates?)
  - Queue management
- **Planning – Slot management**
  - **SAP BN4L - Dock Appointment scheduling**
  - Unplanned booking w/o reference
- **Execution – Yard Logistics**
  - **Inbound Transport processing**
  - **Outbound Transport processing**
  - **Internal Transport processing**
  - **Intermodal Processing (Direct Loading)**
  - Yard Inventory Management
  - Yard Task handling, Rules-based processes, Measurements, Check activities
  - Berth Planning Optimization, Inspection activities, Yard billing
- **Integration within S/4HANA landscape**
  - **Integration with SAP Extended Warehouse Management**
  - **Integration with SAP Transportation Management**
  - **Integration with SAP Logistics Business Network**
  - **Integration with IoT** and Geofencing functions
  - Integration with Dock Appointment Scheduling
  - Integration with SAP ERP
  - Advanced Shipping and Receiving
  - Integration with SAP Plant Maintenance (Enterprise Asset Management)
- **Control tower – KPIs & Reporting**
  - **Yard Monitoring**
  - **Yard Cockpit – Carrier, Shipper, Supplier**
  - Provide Data extracts to Azure data lake

Slot management

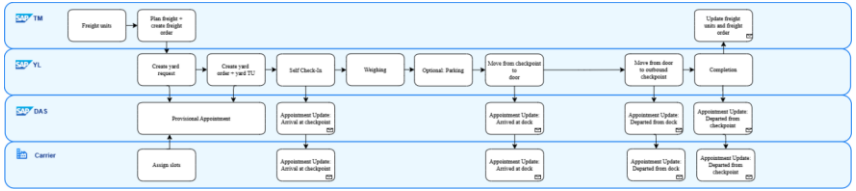


Yard Logistics



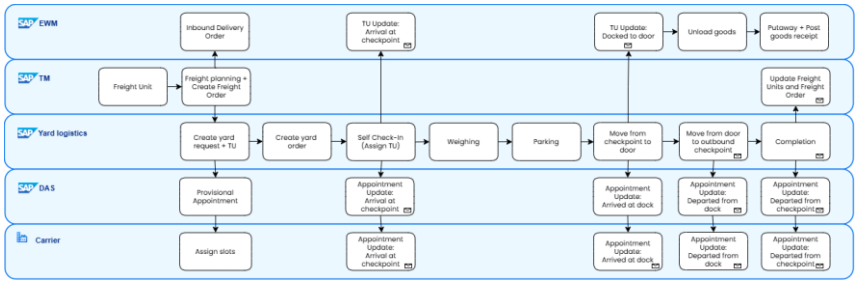
Processes

Non-EWM managed Inbound flow (Bulk, RMO)

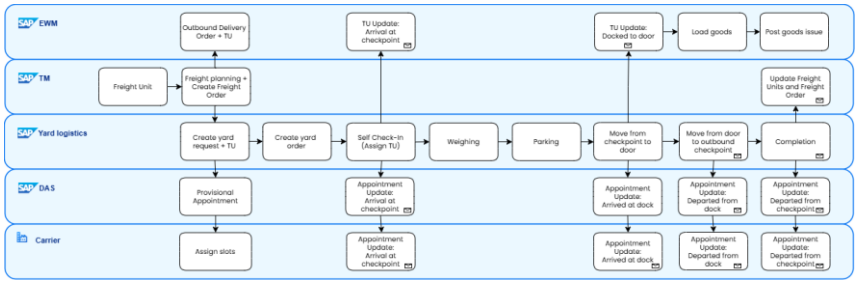


Ad-Hoc flow

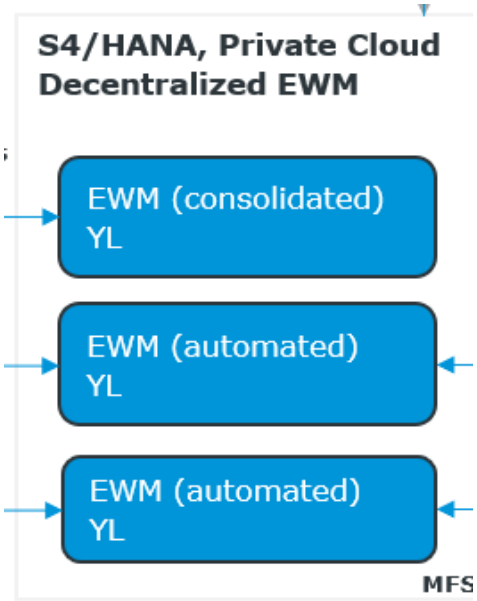
EWM managed Inbound flow (chemicals, discrete raw/pack, STO, customer return)



Outbound flow with TM/EWM



SAP Yard Logistics
Option 2: Yard Logistics within SAP EWM



Scope

- Enable usage of SAP EWM and SAP Yard Logistics in same system

Benefits

- Avoid webservices (SOAP EWM/YL) interface
- Simplify setup of the system landscape (avoid additional system for YL)
- Reduce effort for handling redundant customizing (EWM customizing objects required for YL)
- Seamless changes between yard and warehouse functionalities (UX)
- Independent maintenance with S/4HANA ERP system

Drawbacks

- Still communication needed with TM and EWM automated warehouses