



# Physical Internet Access & Adoption

## Insights into Best-Practices

**IPIC** 2019

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# Digital Decision Making



## Data Driven AI

- Machine Learning
- Predictive Analytics



## Know-how Driven AI

- Operations Research
- Mathematical Optimization

## Hybrid AI



1,000+ Clients  
750+ Employees  
40+ Countries



# EACH DAY – INFORM SYSTEMS OPTIMIZE

**17.3 million**

Production planning processes for contract and small-run manufacturers



Over **16,000** arrivals of commercial vehicles at industrial plants



More than **280,000** internal vehicle movements such as forklifts and onsite trucks

Handling of **300,000** vehicles in yards and maritime terminals



**31,500**

Commercial vehicle movements, with focus on construction materials, waste management logistics and retail distribution



Turnaround processes for over **20,000** flights and **200,000** staff members at more than **165** airports worldwide



Scheduling over **5.2 million**



containers and returnable packaging

Transportation of over **750,000 tons** of bulk commodities and products



**6 billion €**

of inventory stocks: raw materials and finished and semi-finished goods

another **450 million €** inventory stocks in the wholesale, parts and aftermarket sectors



Processing more than **27,000**

insurance claims per day at property, casualty and healthcare insurers



Protecting more than **70 million** banking and mobile accounts

Handling of **50,000**

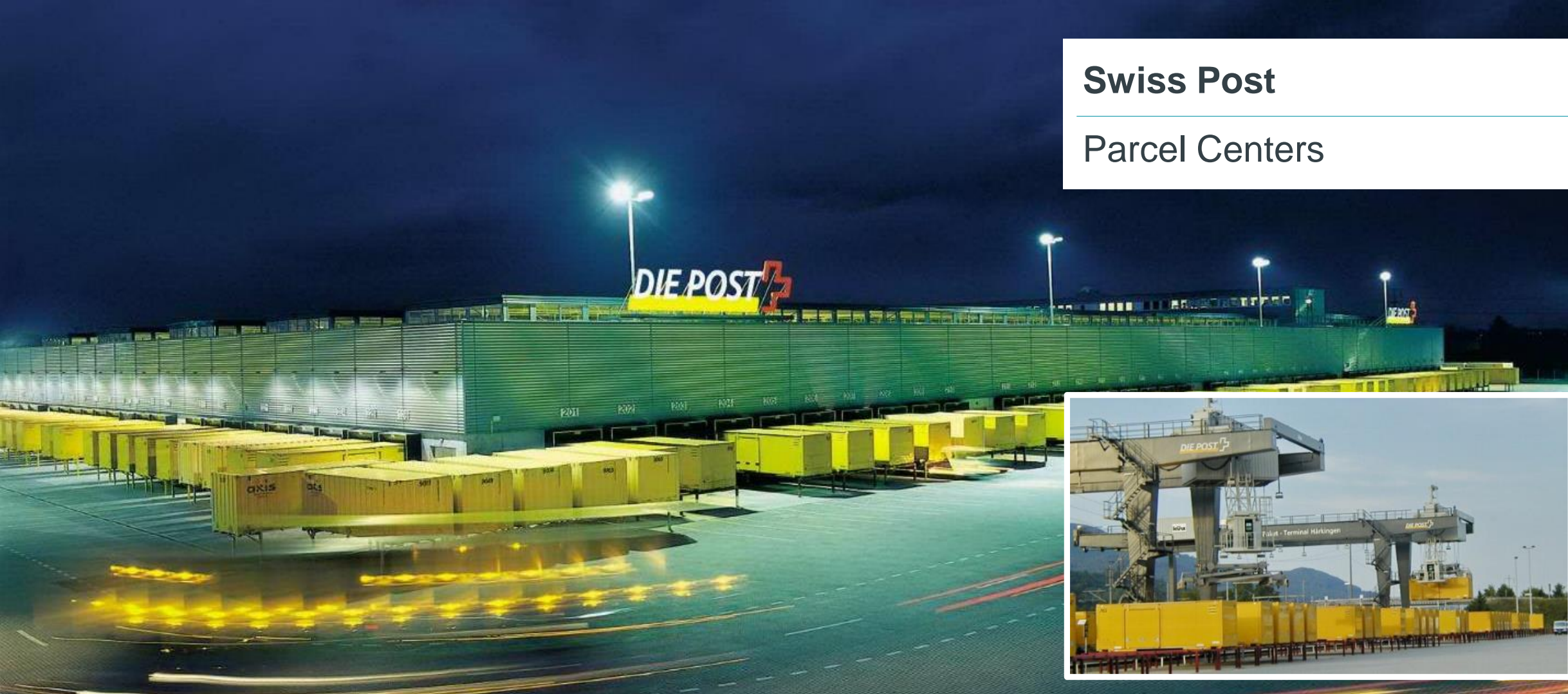
containers in maritime and inland terminals, parcel centers and logistics hubs



More than **250 million** transactions to prevent online banking, mobile and card payment fraud.



# Distribution Hub Logistics



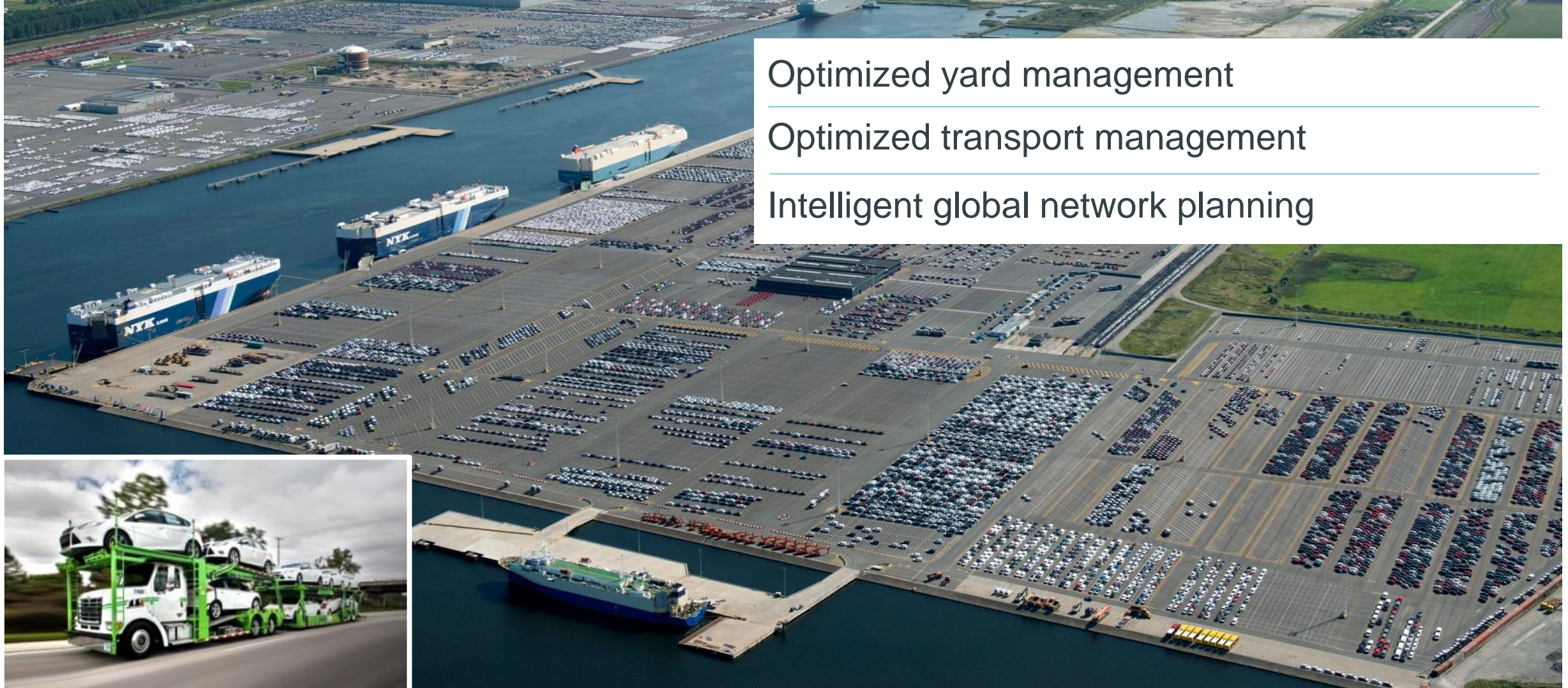
**Swiss Post**

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Parcel Centers



# Vehicle Logistics



Optimized yard management

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Optimized transport management

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Intelligent global network planning

# Industrial Logistics



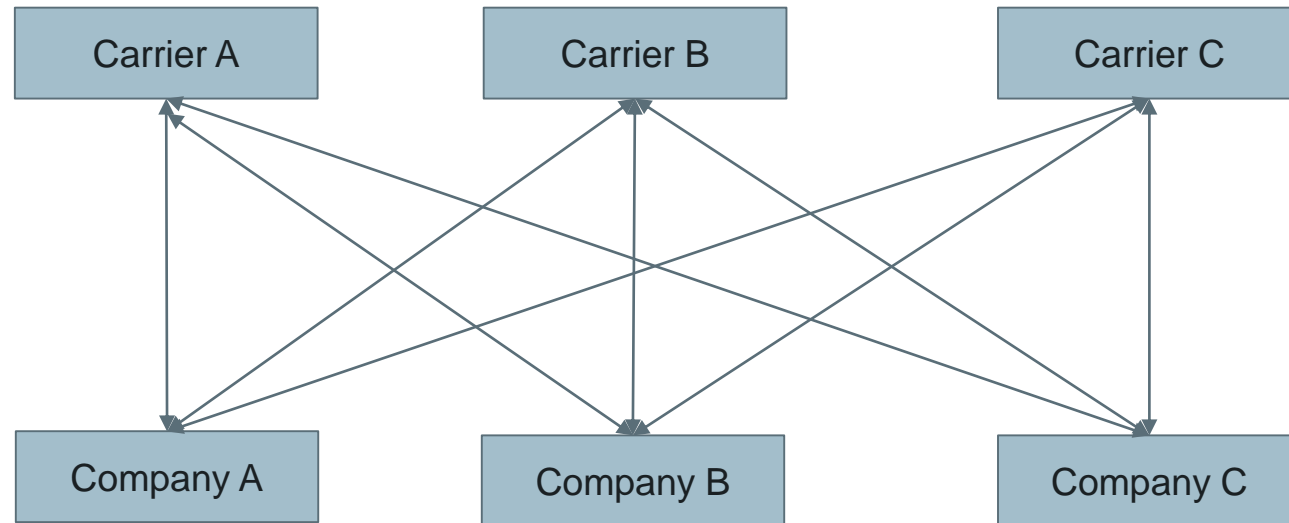
**Miele**

Production Plants and DCs

Time-Slot & Yard Management

# Reality in many supply chains today...

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# Truck App for On-Site Communication

## Challenges

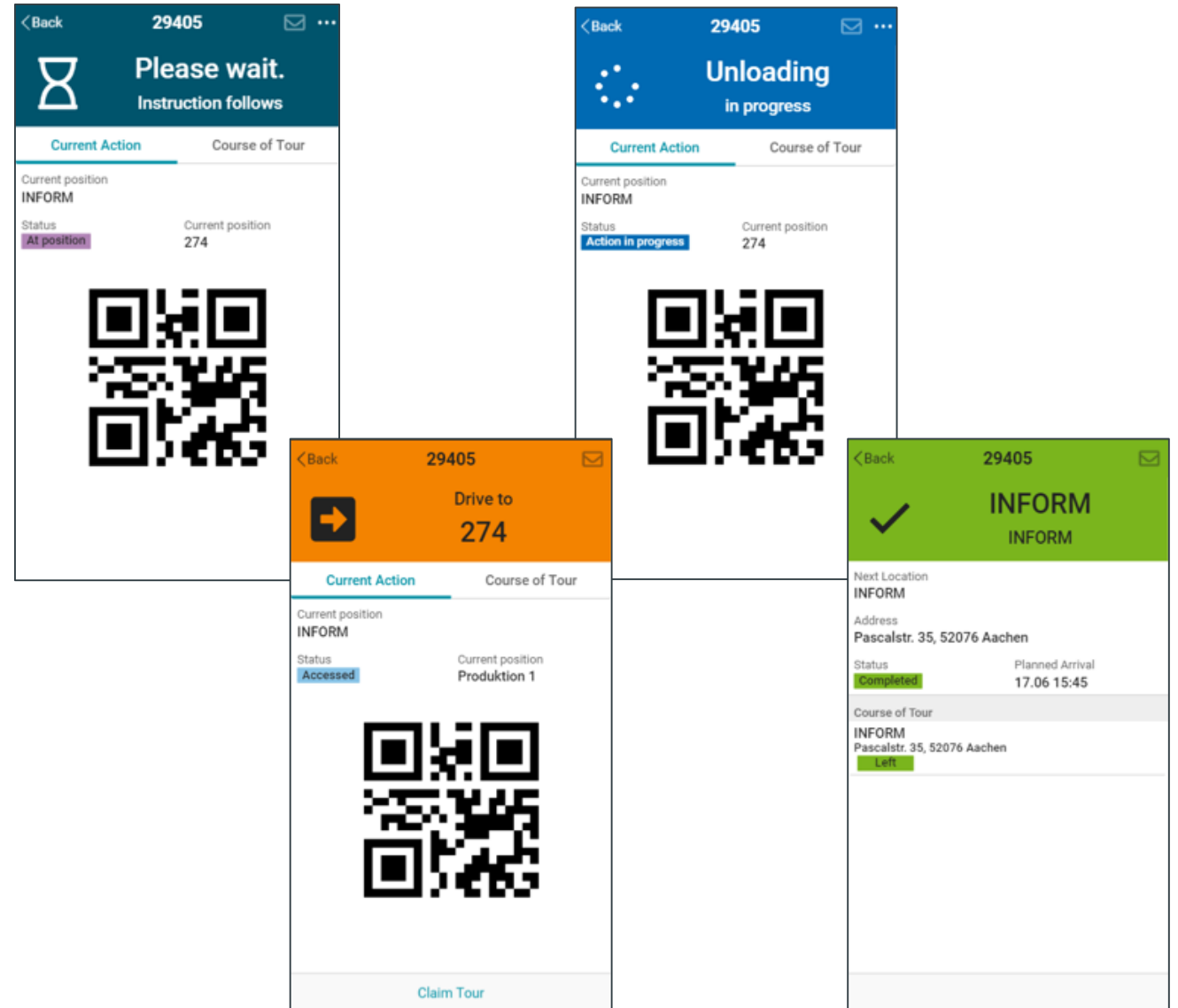
- Production Plants of Car Manufacturers
- Mobile Devices are handed out at Gate Entry
- Device Handling is time-consuming
- GPS Data can only be received on-site

## Solution Idea

- „Bring your own Device“
- Download the App from the App Stores

## Adoption

- Multiple car manufacturer committed to use the same app
- Leverage the logistics network synergies





# Track&Trace

## Challenge

- Avoid panalties for missed time-slot at customer
- Inform Customers upfront about delays

## Solution Idea

- Real-time Tracking
- ETA calculation
- To work pro actively on all delays

## Adoption

- Offer multiple integration options:
  - App, Standard Interface, Telematics Interface and Manual Update.



# Truck Radar and Geo Fencing

## Challenge

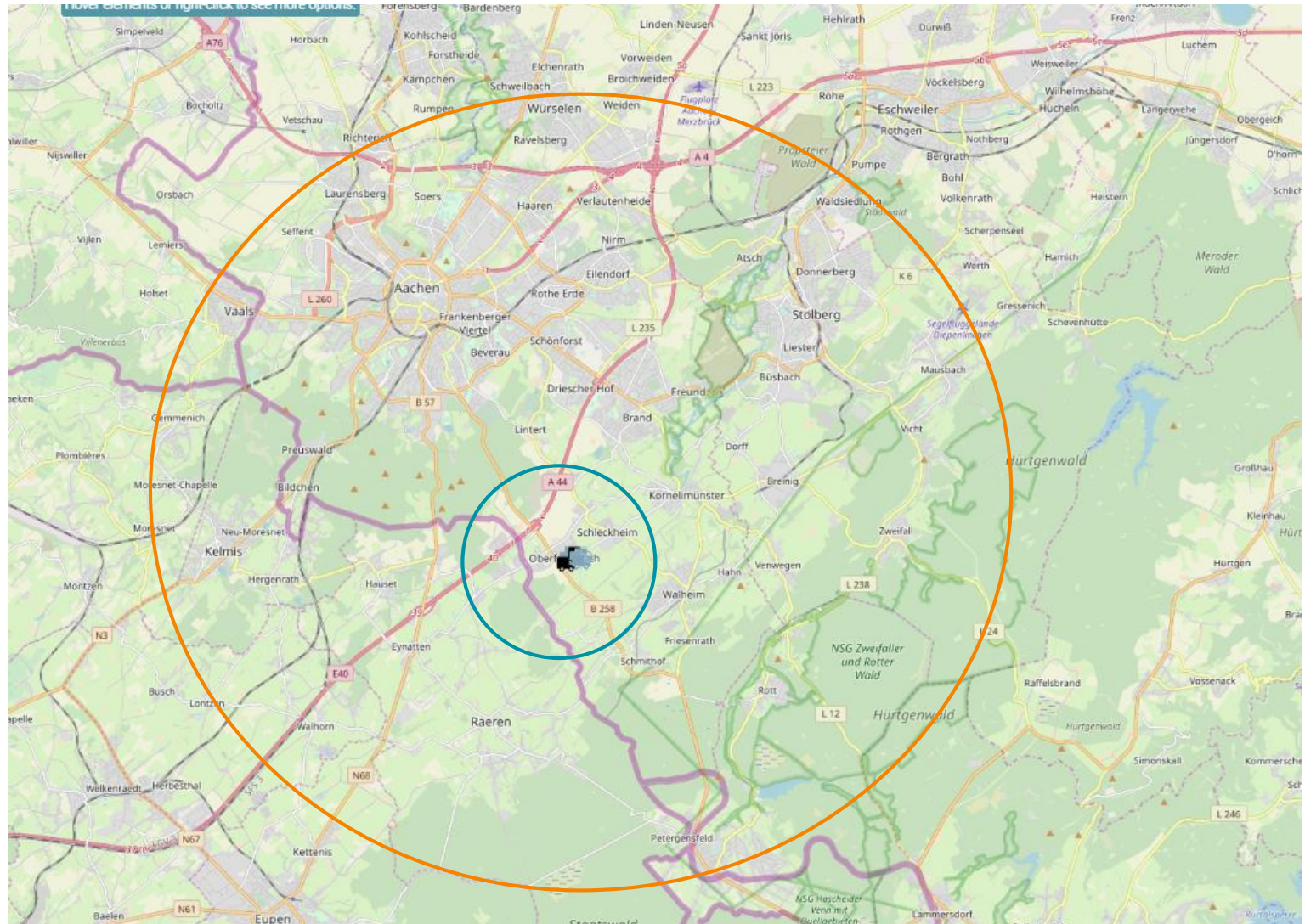
How to manage high priority and JIT deliveries?

## Solution Idea

- Introduce real-time tracking
- Geo Fences around the production plant
- Alerts are triggered on entry

## Adoption

- Install App on Truck Onboard units
- Include App usage in contracts



# TMS with eDMG & ePoD

## Challenge

- Claim & Damage Management
- At the points of vehicle hand-over.

## Solution Idea

- Driver capture the damages
- Via mobile App

## Adoption

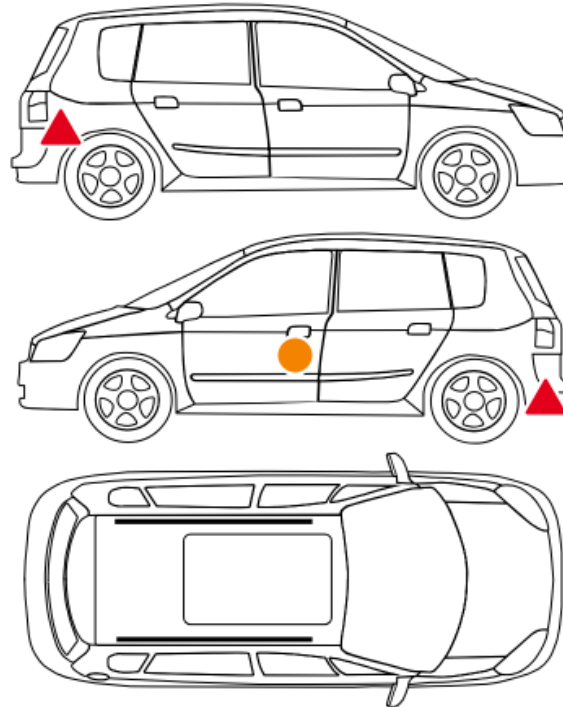
- Involvement of drivers
- Requires
  - High Usability
  - Well-trained drivers



Cancel      **Damage Report**      Save

UU1 5SDL 1C58 925359  
Dacia Sandero  
Pitch Black

Minor Damage      Major Damage



Comment      Undo Last

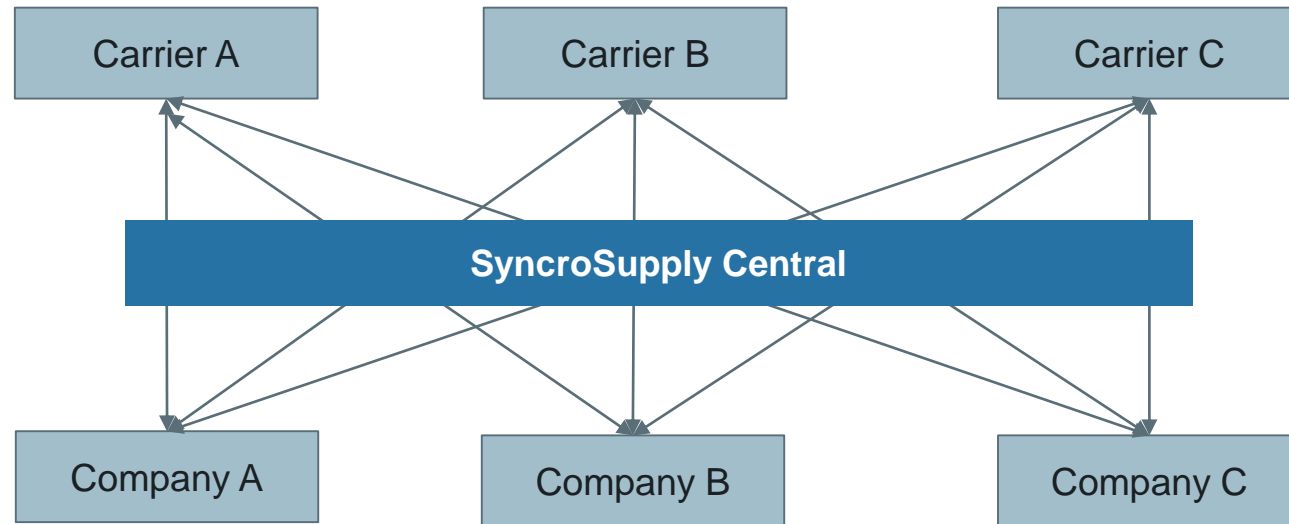
# What we learned...

- Use synergy effects of
  - Your industry
  - Shared logistic networks.
- Provide benefits instead of demanding integration.
- Cooperate along your supply chain
- Give transparency to your partners.



# Start to collaborate!

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**Thank you for your attention!**