

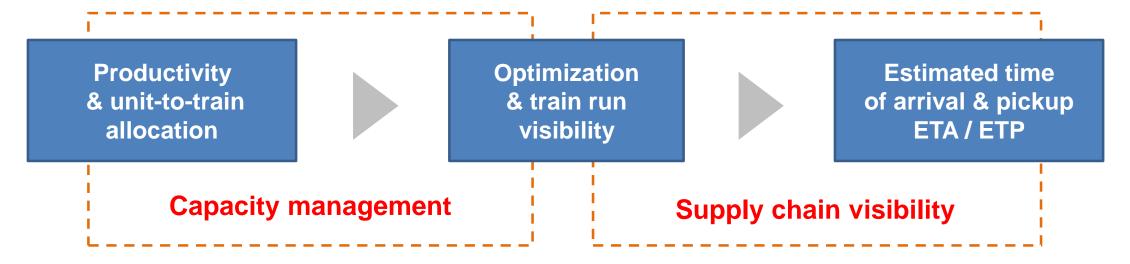
# Leading digital transformation for intermodal transport

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## Our main focus 2019-2020: Capacity management & supply chain visibility



Tool SPEAK & new booking system

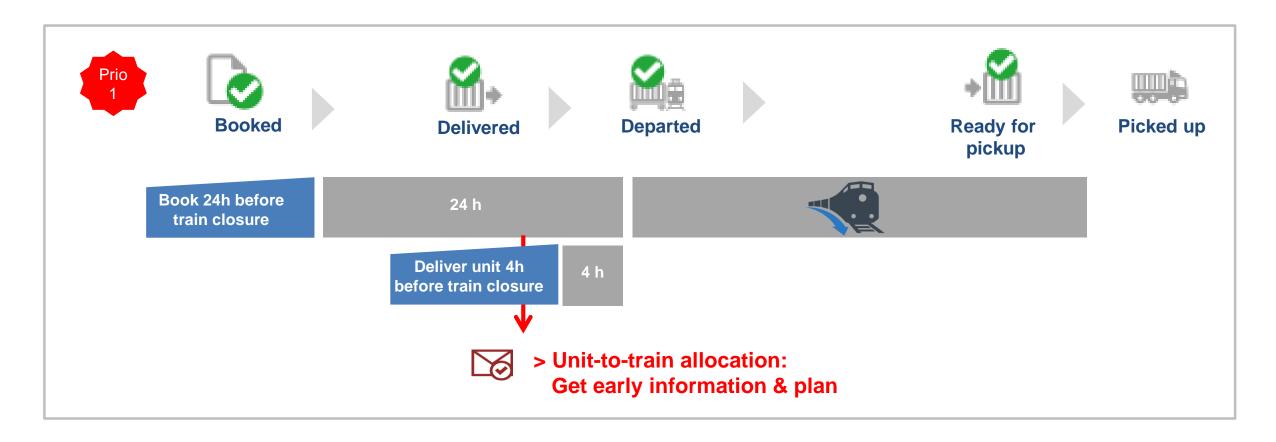
Aim > Optimised train utilization
> Early booking confirmation

Status Test in place
2020 full implementation

Needed Bookings 24 h in advance

## Capacity management: new booking system, better service





- > Book 24 h before train run
- > Deliver unit 4 h before train closure

## Supply chain transparency: Hupac Train Radar



#### **Data sources**

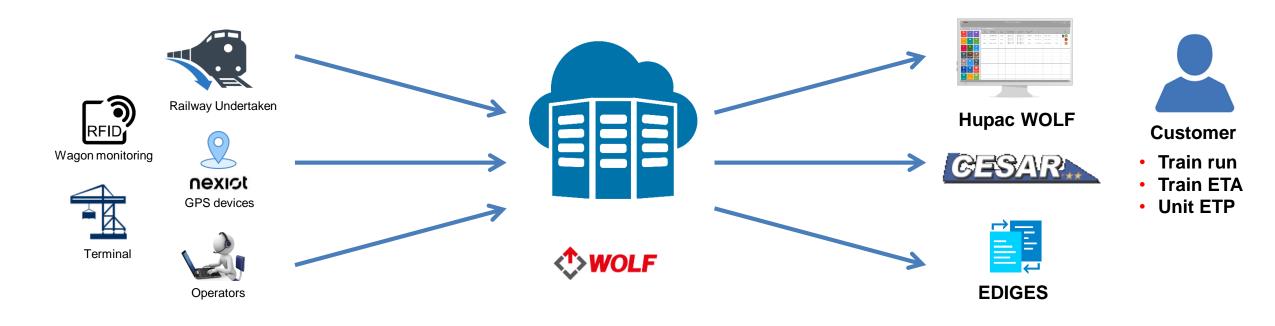
- GPS on Hupac trains
- Railways and Terminals: EDIGES or semi-automatic

#### **Data processing**

- Big data architecture
- Transformation of data in useful business information

#### **Data distribution**

- Online via WOLF, CESAR
- Data integration with customers and partners

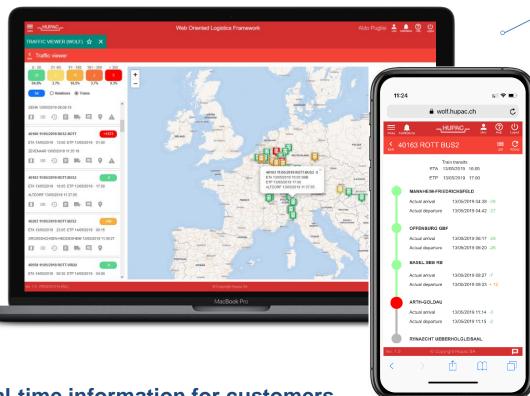


### **Hupac Train Radar: how it works**





Precise localization of trains with tracking of train movements



Geofencing: notification when train enters and leaves defined areas (terminal, border station, etc.)

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Integration and Big Data to derive an ETA Estimated Time of Arrival and Pickup

Real-time information for customers > available end 2019

**Estimated time of arrival:** 

> available 2020 for Terminal Busto Arsizio

## Digital transformation: our main projects









We create capacity and a broader visibility of your supply chain





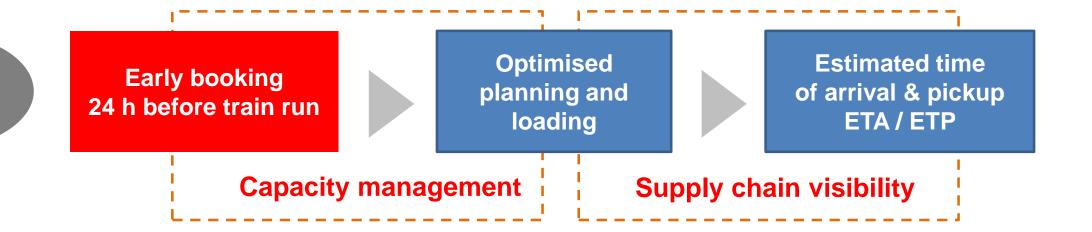
**Smart wagons with sensors** 



## Digitalisation challenges - what do we need?



Logistic service providers



Support from politics

- 1) Tracking & Tracing: "Unique train ID" (TAF-TSI) as priority n.1: 2021 is too late!
- 2) European portals with standard EDI access for dissemination of data
  - > Tracking data of railway undertakings
  - > Temporary capacity restrictions in planning phase from Infrastructure Managers
  - > Safety related data (wagon running etc.) from Infrastructure Managers
- 3) Paperless train management: e-CIM document for all players: 2024 is too late!