

# Innovation@Kapsch: Telematics for Railways.

Wolfgang Leindecker, VP M2M & Public Transport.

UNECE, October 2013.





## Our **Company.**









- Three independently operating entities:
  - Kapsch TrafficCom
  - Kapsch CarrierCom
  - Kapsch BusinessCom



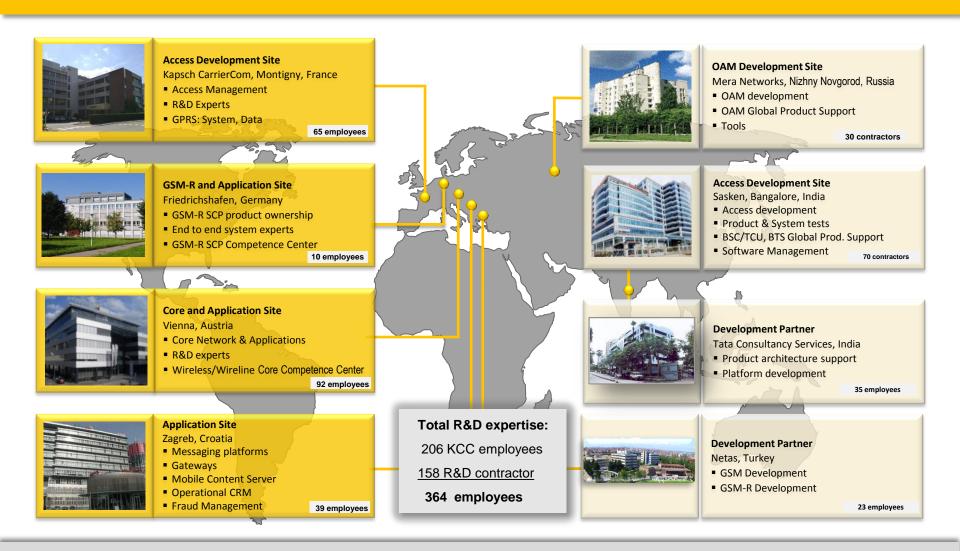
- Products and solutions addressing future markets:
  - Intelligent Transportation Systems (ITS)
  - Railway und Public Operator Telecommunications as well as
  - Information- and Communications technology (ICT)



- More than 40 subsidiaries on five continents.
  - ~ 930 Mio. EUR revenues
  - ~ 96 Mio. EUR R&D



## Our Development Centers - Core and Access.





## Kapsch CarrierCom: Portfolio.

## Creating end-to-end telecommunications solutions.

### **Public Operators**



 Supplier and system integrator of telecommuni-cation solutions for fixed and mobile operators, utilities and cable companies

### Railways



 Global manufacturer and systems integrator of end-to-end telecommunication solutions for railway operators

### **Public Transport**



 Supplier of critical communications networks and intelligent transport solutions for public transport organizations worldwide

### **Machine Networks**



 Supplier of end-to end solutions that enable customers to optimize the use of assets by means of machine-tomachine communication

Our leading innovation, your sustainable solution.



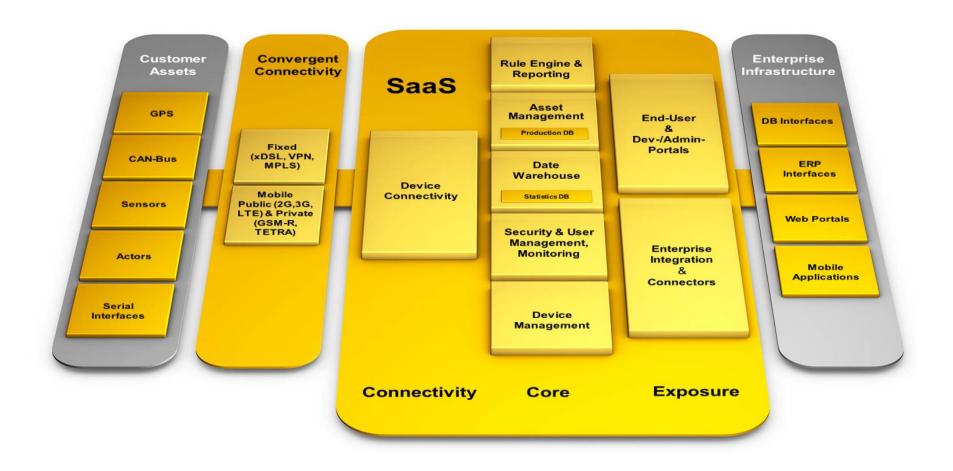
## Our Customer References.







### Our end-to-end Telematics Solution.



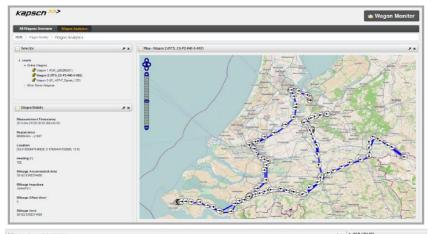


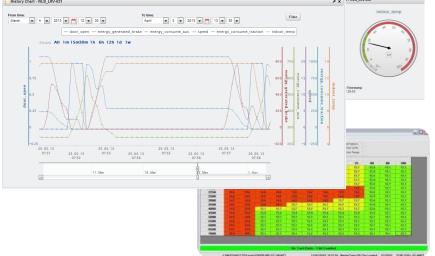
## **Wagon Monitoring Solution.**



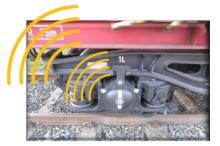








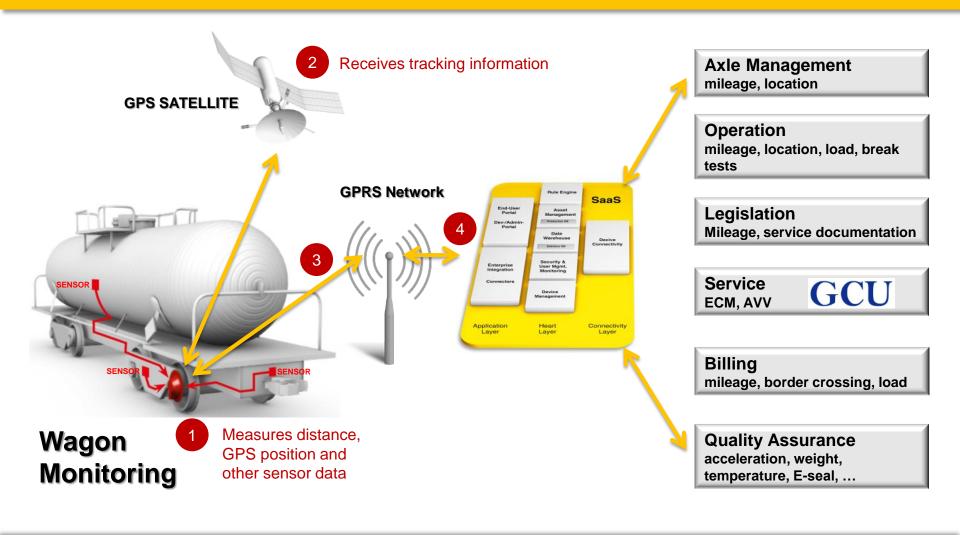








## **Wagon Monitoring Solution.**





## **Wagon Monitoring Solution.**

- Railway certified product
  - Low installation cost, taking less than 15 minutes to install
  - Energy Harvesting: Long life-cycle due to the non-contact power supply (not battery based product)
  - low maintenance efforts
- Remote data updates based on timing interval & event driven
- Retrofitting of all European rail freight wagons (US version in testing phase)
- Real-time visibility of location of goods transported on freight wagons
- Reduce administration costs through automated billing and logistics processes
- Supports Service process for all stakeholders according to ECM (Entity in Charge of Maintenance), AVV

General Contract of Use for wagon

Contract Uniforme d'Utilisation des wagon

Allgemeiner Vertrag für die Verwendung von Güterwager



## Additional Infrastructure Services.

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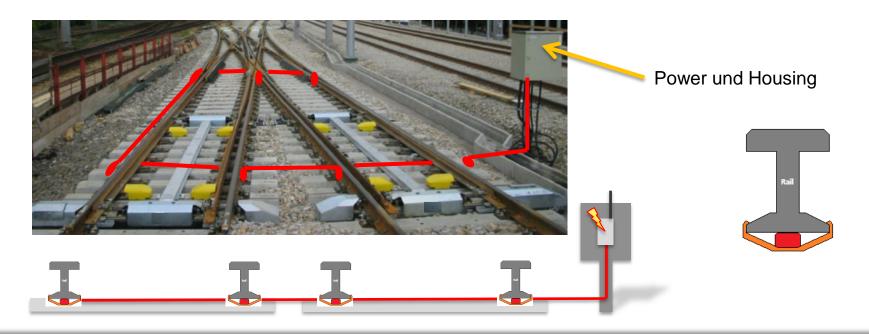
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## Rail-Switch Heating Monitoring.

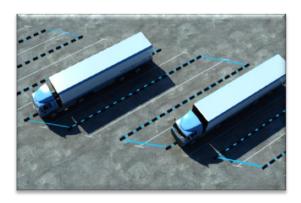
- Rail switch temperature in real-time
- Energy efficiency
- Correlation with weather data and heating-status



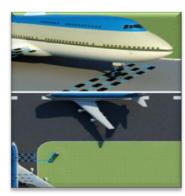


## **Parking Lot Management.**



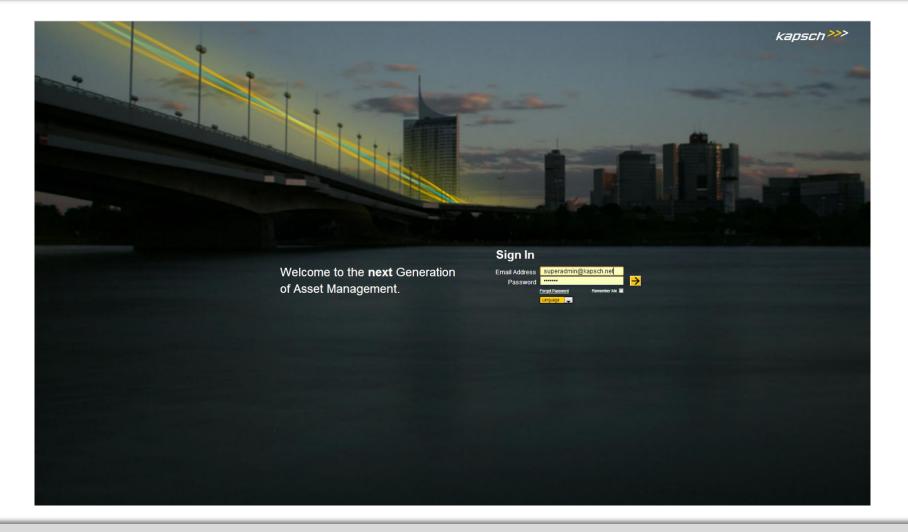








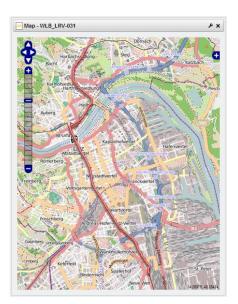
## Welcome to the **next** generation of **Asset Management**.





### **End User Portal.**

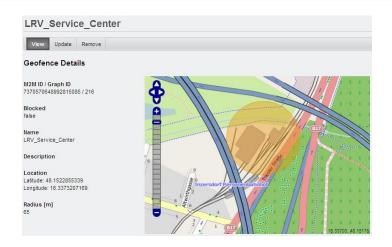








### **Geofence Alert.**





Map 7294683583484386574

Inzersdorf Pe

### Check geofence for asset LRV-032

m2m-platform@kapsch.net

Sent: Mi 03.04.2013 13:46

To: Rerschbaummayr Engelbert

Geofence check result - Service\_Center: IN



### We have it covered. End-to-end.



- Savings through improved efficiency in processes and energy consumption
- Increased reliability and service quality
- Innovation leadership for your market
- Improved customer satisfaction and loyalty
- One solution for all stake holders



## Your Contact.

## **Wolfgang Leindecker**

**VP M2M & Public Transport** 

### **Kapsch Aktiengesellschaft**

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