



Automation and digitalization facilitate competition

Digital Twin reduces development cost and time to market

MindSphere Closes the loop with Performance Data



Operators are facing competition and need to deliver digital, reliable, individual and affordable solutions ...

Digital Experience

Last Mile Solution

Reliability

Affordable Prices



... to remain part of the transportation chain

The cornerstones of digitally connected mobility

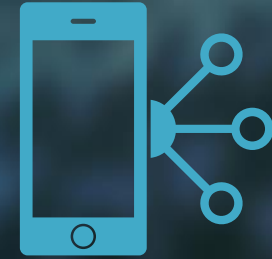
Facilitate competitiveness of an operator and train as transport mode



**Guaranteed
Availability**



**Optimized
Capacity Profile**



**Digital Customer
Experience**



**Rhein Ruhr Express –
Customized “Life Cycle Model”
Commitment to Customer Requirement
= 100% Availability**



**Digitally connected Electrification.
Maximum availability, minimized energy costs**



Digitalizing the Copenhagen S-bane, semiautomated operation

Cargo process

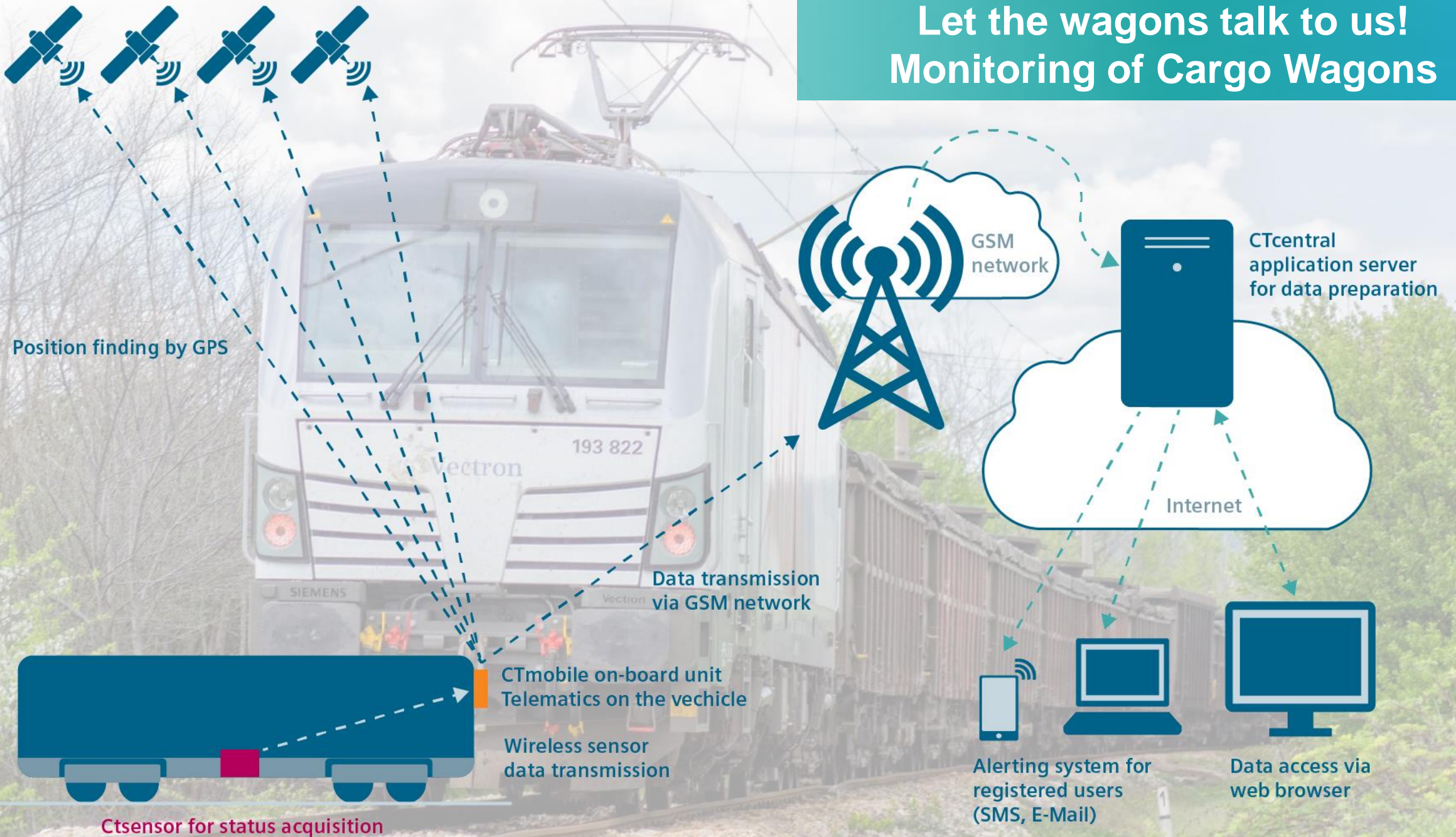
MetsäFiber Äänekoski new plant – Vuosaari Port



Hybrid locomotives,
automated loading and RFID
based freight resgistration at
MetsäFiber Äänekoski



Let the wagons talk to us! Monitoring of Cargo Wagons





**Automated cargo operation
Gives the competitive advantage**



Driverless Operation testing in city traffic
World premier with Tram Potsdam



**Semiautomated Operation based on ETCS in Thameslink commuter line.
ATO development for main line based on ETSC started in Germany.
In metro's fully automated operation is routine**

Paldies!



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