

THERE IS ALWAYS A MISSION EMBEDDED.



KEY FACTS



- Member of FREQUENTIS GROUP
- Establishe

Specialist for innovative system Headquar solutions for safety-critical industrial applications.

- 75+ Highly
- IRIS Silver Level Certificate











SOLUTIONS & OFFERINGS

Continuously advancing cutting-edge technologies for safety & security applications





ON-BOARD SOLUTIONS

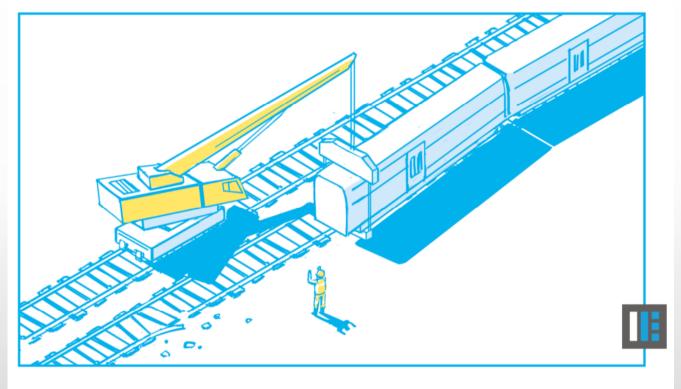
- GNSS-independent sub-meter & track-precision Localization
- Driver Assistance Systems
 - Obstacle Detection & Collission Avoidance; Overspeed Prevention Assistance Systems;
 - Switch State Detection; Signal Interpretation
- Predictive Track Maintenance
- Intelligent on-board CCTV-Systems
- Software-defined on-board Networking
- Safe Teleoperation







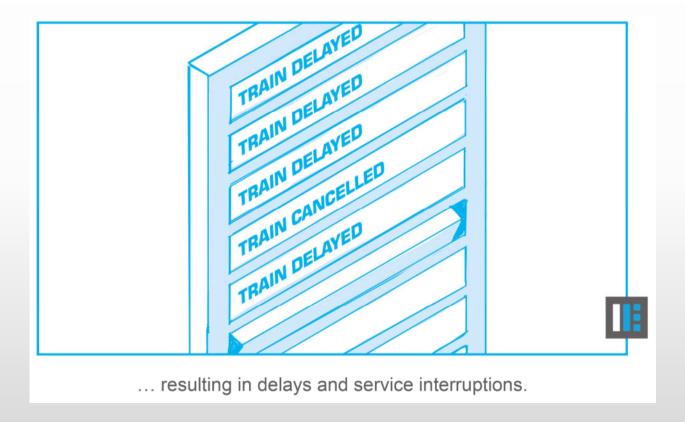
PROBLEM: UNPREDICTED MAINTENANCE



Imagine there being a defect somewhere in the track network, ...

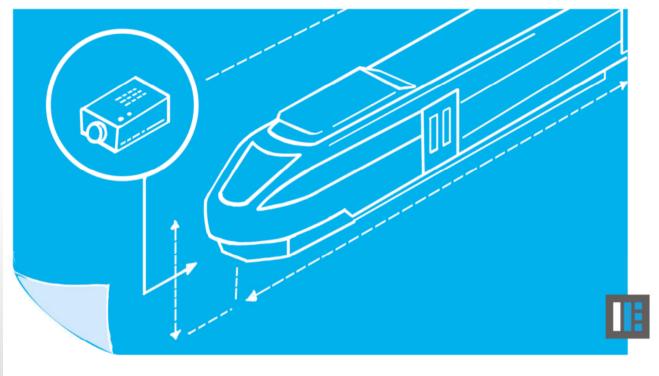


RESULT: DELAYS & COSTS





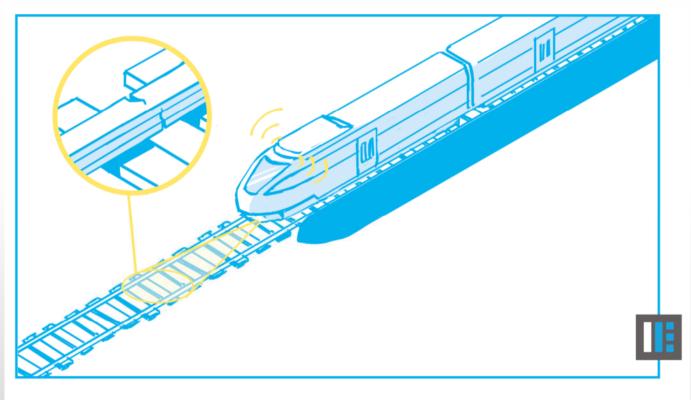
HARMONY ADDED VALUE



Low-cost on-board system by detecting ad-hoc issues secures operational availability & operational safety.



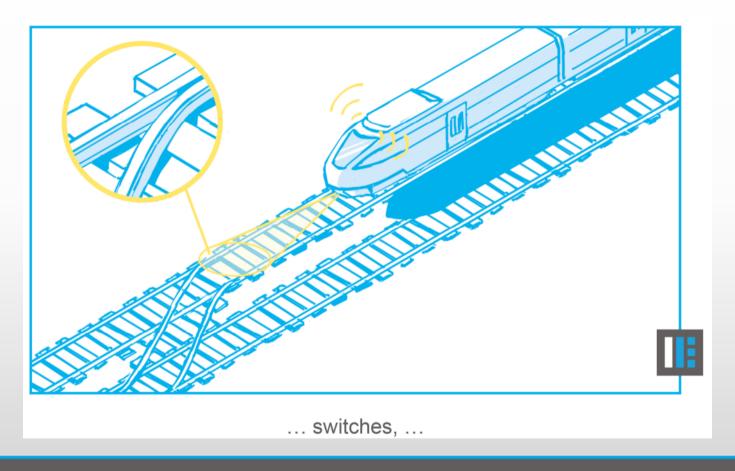
DETECTION OF ANOMALIES



Detect irregularities on tracks, track beds, ...

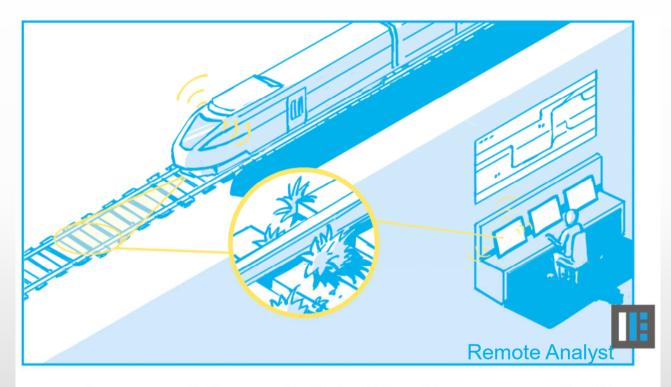


DETECTION OF ANOMALIES





DETECTION OF ANOMALIES



... and even vegetation growth. Potential problems are sent directly to the control centre for further action ...



EDGE ANOMALY DETECTION



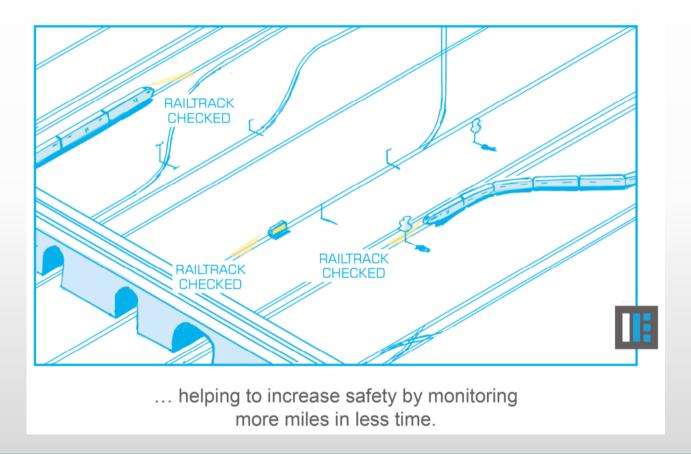
Typical regular track bed



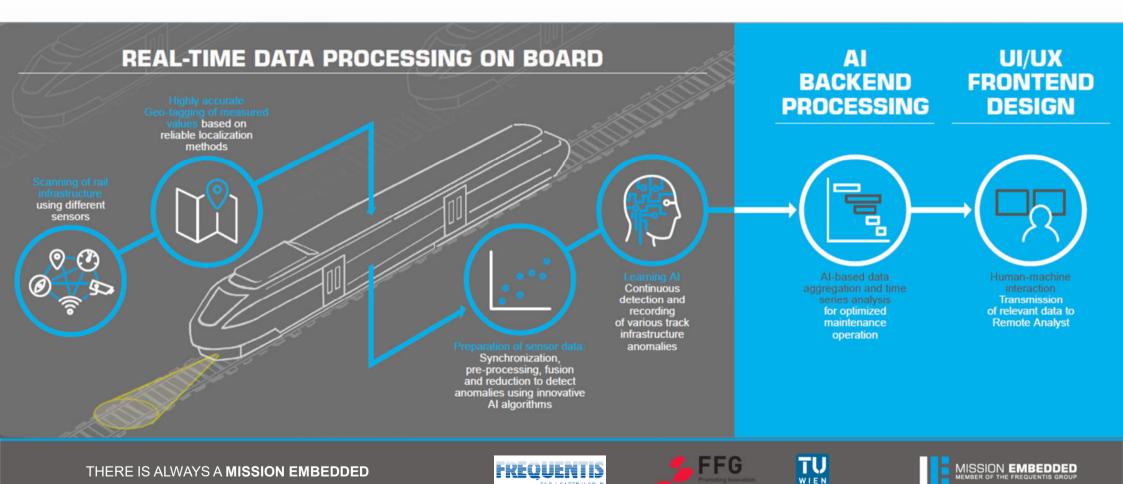
Anomaly Example

Works in real-time, using minimal bandwidth, sophisticated backend & edge AI and high-precision GEO information.

RAILTRACK CHECKED ALL THE TIME



HARMONY SOLUTION













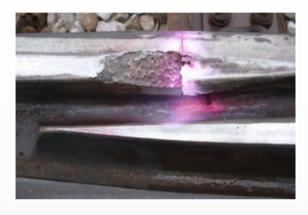


INTERESTED? LET'S HAVE A MEETING!

Backup



HARMONY - USE CASES



















MEASUREMENT CARS ARE IRREPLACABLE

- Comprehensive Data Collection: equipped with specialized sensors / devices to check deviations from the norm
- Specific diagnostic purposes
- Accuracy and Precision
- Regulatory Compliance: mandated by safety and regulatory standards.

