SOLUTIONS FOR ASSET MANAGEMENT AND PREDICTIVE MAINTENANCE

INNOVATION GUIDED TOURS

Monday 10 June, 11:30 - 12:30

Digitalisation brings many opportunities for the public transport sector, including opportunities for mobility providers to increase efficiency, improve quality and lower costs by making the monitoring of infrastructure and rolling stock more accurate and more automatic.

This tour will guide us along innovative technologies for optimising fleet diagnostics and maintenance and that ultimately seek to improve service quality and safety.

Knorr-Bremse

EP2002 3.0 Distributed Brake Control - Evolution of a Success Story

Relying on the overwhelming field experience of more than 25,000 rail vehicles equipped with EP2002, the successor EP2002 3.0 will be brought into the market at InnoTrans 2018. Knorr-Bremse extends the top-selling Metro Brake Control System with innovative features and the usage in multiple unit trains.

EP2002 3.0 is based on the well proven principles and architecture as its predecessor and its construction is just as compact, light and robust. Electronically Controlled Emergency Brake and Deceleration Control are innovations that are available for the first time with EP2002 3.0. They enable the usage of the electro-dynamic wear-free brake also in case of emergency braking. In addition, the optimized wheel slide protection MGS3 coping with very low traction situations is available for the first time for metros and multiple unit trains. Further improvements are created by the integration of indirect brake, an extended low temperature range and the optimized train-wide braking performance.

KNORR-BREMSE

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Thales

TIRIS

Predictive Maintenance & Operations & Maintenance insights realised through data science, supported by a cloud-based Big Data Analytics platform.

TIRIS is designed to make efficient use of all the heterogeneous data collected by the assets and systems on rail & metro networks. Using Big Data analytics, it gives companies the ability to rapidly respond to change in the system.
With TIRIS, additional insights and predictive maintenance capability can also be generated by correlating all sources of data like data loggers, or analysing historical information about specific assets. TIRIS can be deployed as-a-service and it includes powerful machine learning to optimise decision-making processes for maintenance and operations.
With its open architecture, it allows railways to reconcile the data coming from all their assets, all their systems and all their suppliers into a single platform, saving massive operational and training cost.
Our ambition: ZERO UNPLANNED SHUTDOWNS FOR THE RAIL INDUSTRY

THALES

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CAF
LeadMind, CAF Digital Train

Our roadmap to Transformation, next generation of digital services to improve Rolling Stock services.

Digital technologies have experienced a great, unstoppable, and irreversible development; we are in front of a new revolution, the Digital Revolution to create a smart, environment and user-friendly mobility system. In this new context, CAF present LeadMind Platform with the main objective to provide a new generation of trains and more competitive services, through the collection, storage, advanced processing and analytics of all the data that the train currently generates in a cibersecure way.

LeadMind Platform allows:

● Have a modular and scalable product, customizable according to the client's requirements.

● Provide added-value information in a friendly format and decision-making tools to ease the decision making process by the different actors involved in the railway operation.

● Increase the efficiency in maintenance tasks integrating real time operating.

● Eliminate black-boxes and exploit in a unified way representative variables of vehicle failure and maintenance.

● Guarantee integrity in the collection, custody and use of data in the event of external attacks.

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Trapeze
PitStop

When it comes to bus and tram services, Trapeze's new "PitStop" series lets transport service providers monitor the condition of their fleet with efficient control of resources for maintenance. The system offers crucial support in terms of vehicle availability, reliability and safety, thus enhancing transparency, boosting efficiency and saving costs.

PitStop currently consists of three solutions that can be used individually or in combination: Trapeze's Enterprise Asset Management SmartTEAM helps transport service providers to manage the condition of their vehicles. The SmartMonitor is a software for vehicle status monitoring that gives transport service providers a better overview of the technical status of their entire fleet. SmartParking is a parking space and depot management software that provides a comprehensive, detailed overview of the locations of the vehicles within the depots and parking areas.

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Televic Rail
COSAMIRA

Fleet monitoring & maintenance
Looking for ways to maintain your fleet in a safer, more efficient and cost-effective way? Do you want to effectively plan preventive maintenance rather than perform emergency repairs? Discover what the COSAMIRA system can do for you:
- Anticipate problems
- Optimize maintenance schedules
- Reduce downtime and costs

COSAMIRA combines Smart Sensor Technology with real-time data analysis to help you move from reactive repair to preventive maintenance.

Collect and analyse data to optimize your maintenance schedules
COSAMIRA has been designed for the demands of daily operation. It collects and analyses data enabling Condition Based Monitoring and operational overview. Designed for the rail industry and based on Televic's extensive experience in mission critical train control and monitoring systems COSAMIRA is a complete unified solution.

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Digimobee
mobeeFLEET

mobeeFLEET processes the technical data uploaded by each vehicle to improve its reliability and to lower cost of ownership of the entire fleet.

Thanks to a unique set of filters and algorithms fed in real-time by data flows, mobeeFLEET avoids breakdowns in operation, optimizes maintenance and supplies and provides contextual figures for asset management. With already 2000 live-monitored vehicles, whatever types and manufacturers, the operators experience outstanding return on investment and boost transition towards digital garage.

mobeeFLEET is a suite of interoperable services dedicated to monitoring PTO key performance indicators: mobeeFLEET localizes vehicles, monitors fuel consumption, uploads mileages, checks ITS equipment status, and provides many other indicators for optimizing day to day operation of each vehicle and full fleet life cycle.

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