

Continuous Track Monitoring (CTM)

Detect Early. Prevent Failures. Stay on Track.

Continuously inspect, strategically plan maintenance activities, and sustainably assess their effectiveness: With Continuous Track Monitoring (CTM), regular in-service trains become mobile measurement platforms for the continuous monitoring of track infrastructure. The collected condition data enables the early detection of wear, deterioration, and infrastructure defects affecting tracks, switches, and bridges.

This allows maintenance activities to be prioritized based on actual needs, resources to be deployed more efficiently, and operational disruptions to be avoided before they impact railway operations. The result is higher infrastructure availability, more cost-effective maintenance, and improved operational performance across the railway network.



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Our services

- Customized CTM solutions tailored to customer-specific requirements and regulatory frameworks
- Development, engineering, and integration of robust monitoring technologies
- Vehicle engineering, installation, and commissioning of measurement systems
- Continuous acquisition of infrastructure and ride comfort data during normal operations
- Automated data transfer, storage and condition assessment
- Early identification of wear, defects and degradation trends
- Actionable insights through customized reporting and visualization tools

Your advantages

- Higher infrastructure availability and reliability
- More efficient and cost-effective track maintenance
- Improved operational performance through fewer disruptions
- Increased safety through early detection of critical infrastructure defects
- Continuous monitoring without impacting regular railway operations
- Customized solutions based on extensive experience in train-based infrastructure monitoring
- End-to-end support from data acquisition to actionable maintenance recommendations

Your contact

Dr. Jörg Heland

joerg.heland@deutschebahn.com



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