

Continuous Track Monitoring (CTM)

Detect Early. Prevent Failures. Stay on Track.

The Challenge:

The future of rail mobility depends on achieving **higher safety standards**, better **passenger comfort**, shorter travel times, and **improved punctuality** – all while running more trains on aging infrastructure.

Our Solution:

CTM equips regular trains with robust, highly accurate measurement technology that autonomously records both **track condition** and **travel comfort**.

By turning every journey into a source of valuable data, CTM enables the **early detection of track damage** and condition deterioration.

This allows infrastructure managers to **plan proactive and predictive maintenance** – ensuring smooth operations for vehicles, passengers, and infrastructure alike.

CTM keeps your railway operations running, safely and cost-effectively – today and in the future.



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Our knowledge is your success.

Our services

- **Continuous Measurement & Data Collection:** Regular trains become rolling inspection units, continuously gathering precise data on track condition and travel comfort without disrupting daily operations.
- **Condition Analysis:** Collected data is processed and analyzed to deliver clear insights into infrastructure health, enabling an objective and up-to-date picture of track performance.
- **Predictive Maintenance Support:** Early trend detection allows operators to plan ahead, addressing issues before they cause costly disruptions or safety concerns.
- **Integration & Reporting:** Intuitive reporting tools and seamless integration with existing systems ensure maintenance teams receive actionable insights quickly and effectively.

Your advantages

- **Efficient and Predictable Railway Operations:** Temporary speed reductions and delays can spread through a network, causing disruptions. With CTM, issues are identified long before they impact operations, keeping traffic flowing smoothly and timetables reliable for both freight and passenger services.
- **Optimized Track Maintenance:** CTM delivers a continuous stream of track data instead of occasional inspection results. Managers can prioritize interventions based on real conditions, allocate resources more effectively, and extend asset lifetime through targeted, cost-efficient maintenance.
- **Higher Safety:** CTM detects critical issues such as damaged sleepers or unstable track beds early and sends timely warnings to maintenance teams. This prevents accidents, protects passengers, and secures infrastructure investments.

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