



## Track measurement and diagnostics: **CTM – Continuous Track Monitoring**

Our CTM system enables you to continuously assess the condition of your railway infrastructure. The system can be installed in any rail vehicle (high-speed trains, freight locomotives, multiple units and many more). It independently measures and records, automatically sending data to an infrastructure control centre for analysis.

- Up-to-date infrastructure data acquired using any train
- Early detection of rail infrastructure problems; the error rate can be reduced after 5 years by 90%
- Monitoring of engineering work
- Optimization of maintenance costs up to 50%
- Enhances operational quality and availability by overcoming speed restrictions
- Many years of operational experience on supplier side
- Advanced system knowledge of the interaction between the vehicle and the track
- Approximately 6 million km fault free operation

### Technical Details

- Determination of vertical deviations in track geometry (vertical alignment) by measurement of vertical axlebox acceleration
- Synchronous location tracking by GPS and distance pulses
- Automatic train-to-track data transfer by mobile phone (VPN)
- The measurement system fulfils the requirements of EN 13848 and is also approved for use by DB Netz AG