

Monitoring Everything

From construction sites and factories to waterways, pipelines, mines and tunnels: online monitoring for every application.

When it comes to monitoring, we offer our customers everything from a single source: from the initial system design, surveying on site, implementation of the monitoring system based on the customer's operating parameters, data management with our central online platform DMT SAFEGUARD through to data evaluation and management of alarm events.

Gaining knowledge, shaping the future: Your reliable partner for data acquisition and management.

We create trust through continuous, reliable geotechnical and industrial monitoring of bridges, tunnels, cranes, tracks, plants, construction sites, the environment, excavation pits, stockpiles and much more.

Our Services

- Installation and operation of customized multi-sensor measurement networks with geodetic, geophysical, geotechnical and hydrological sensors and measurement systems
- Integration of any data formats, sensor types and manufacturers, creation of customized solutions
- Secure data storage on centralized scalable data servers in Germany with redundant data backup
- Data processing, analysis and expert evaluation with comprehensive, database-based software tools
- Online visualization and provision of results with web GIS support and extensive control functions via a secure user portal - DMT SAFEGUARD
- Consulting and planning, including official approvals

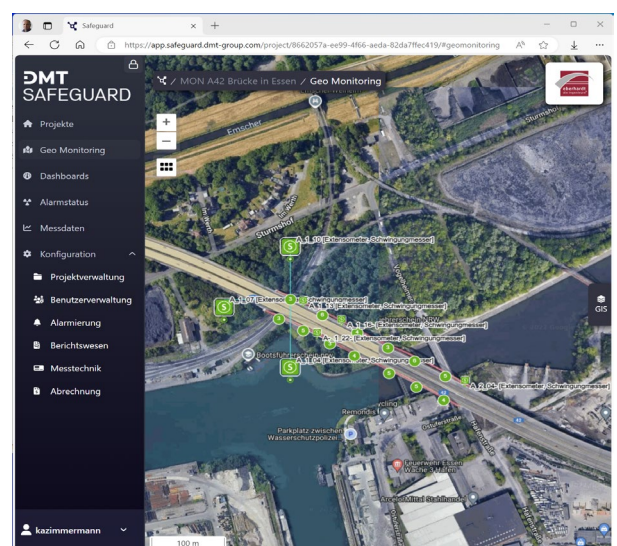
#GEOTECHNICAL MONITORING #SHM

#IOT #IIOT #CMM #SCADA #AQM

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Installation of sensors on the A42 motorway bridge over the Rhine-Herne Canal (Germany)



Data management and visualization via the DMT SAFEGUARD platform

Your advantages

- Improved project safety and facilitated risk management: quick identification of vulnerable areas due to permanent access to all relevant information
- High project reliability: redundant system architecture, intelligent power management and communication technology for constant data access – online
- Maximum flexibility: seamless integration into existing systems and connection of any sensor regardless of manufacturer as well as of any type and format of data
- Maximum availability of all monitoring information: use of proven, reliable and state of the art measurement systems including installation and maintenance
- Fast and trouble-free integration into new or running projects, supported by professional, internationally experienced staff



Design and engineering of monitoring systems – project execution – digital data engineering in all aspects

Discover our monitoring worlds

For decades, we have been a market leader and innovation driver in the monitoring environment, successfully bridging the gap between the real and digital worlds. We have built up our experience in a wide range of applications and markets.



Our monitoring worlds – field of application

Projects

Bridge monitoring Retheklappbrücke (D): Installation and operation of >200 measuring channels (e.g. liquid levels, inclinometer, ultrasonic distance, water level), data management via DMT SAFEGUARD platform, consulting

Monitoring Gleesen sluice (D): Installation and operation of groundwater and canal gauges as well as tachymeter systems for stability monitoring (since 2015), data management via DMT SAFEGUARD monitoring platform

Subsidence monitoring of offshore platform (THA): GNSS system installation on-shore (base station) and off-shore as well as operation, long-baseline data evaluation and analysis, consulting (since 2008)

Bridge monitoring Dütebrücke (D): Installation and operation of >500 measuring channels (e.g. including liquid levels, inclinometers, tachymeters, extensometers), data management via DMT SAFEGUARD monitoring platform

Ground motion monitoring in the area of oil and gas fields (OMN): GNSS data analysis of >50 measuring stations, data validation in combination with InSAR, use of Bernese GNSS software (since 2008)

Monitoring storage hall (D): Installation and operation of a multi-tachymeter monitoring system for monitoring the Castor storage hall Gorleben, data management via DMT SAFEGUARD monitoring platform, consulting

Monitoring of the Cologne City Archive (D): Installation and operation of >200 measuring channels for monitoring building movements and vibrations (since 2009), data management via DMT SAFEGUARD monitoring platform

Monitoring of mine shaft filling columns (D): Installation and operation of a specially developed monitoring system for monitoring shaft filling columns in the Ruhr area, data management via DMT SAFEGUARD monitoring platform

DMT monitoring services – selected projects

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DIN EN ISO 9001
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