![Rocket NG — enabling IoT]

IoT-Solution Retaining Structure

Innovative Retaining Structure Monitoring
Cost-efficient maintenance with maximum safety

- 🚀 **Real-time monitoring of all important parameters**
- 🚀 **Early detection of potential problems**
- 🚀 **Extended service life through predictive maintenance**
- 🚀 **Fewer traffic obstructions, no ladder necessary**
- 🚀 **Suitable for all retaining structures**

Our Measurement Applications

autarkic · simple · wireless · precise

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Anchor Force
Continuous anchor force measurement helps to assess durability/safety and to detect anomalies and unplanned loads.

Existing Sensors, Extensions
In previous years, loggers or mechanical measuring devices that were often used had to be read manually. Digitalise your systems and collect actual measurements in the app or in the ScienceBoard.

Monitoring Drainage
This continuous monitoring allows early detection of blockages and inadequate drainage performance. Problems caused by water accumulation are avoided.

Extensometer
Continuous deformation measurements enable optimum maintenance and monitoring, provide immediate information in the event of large displacements (e.g. heavy rain), help to assess durability/safety and reduce traffic obstructions (no manual readings).

Groundwater Level, Water Level, Water Pressure
Continuous monitoring reveals anomalies in the water level at an early stage and also helps to assess durability/safety.

Cathodic Corrosion Protection
Cathodic corrosion protection can be applied to already corroded reinforcement and corrosion can be stopped.

Pore Water Pressure, Suction Stresses
The continuous measurements enable cost-efficient assessment of soil behaviour, early detection of possible landslides or subsidence and planning/assessment of drainage measures.

Corrosion Condition Monitoring
Corrosion is the most common cause of damage in reinforced concrete structures and is usually the reason for the end of their lifetime. By monitoring, you can determine and predict the onset of corrosion and take timely action.

Forest Fire Risk
Determining the risk of forest fires enables preventive measures to be taken in good time. Analyses of the forest microclimate enable future-proof forest management.

Inclination
Regular monitoring of inclinations allows early detection of problems such as increased earth/water pressures, uneven settlement and unplanned transmission of forces.

Air Temperature/Humidity, Material Temperature/Moisture, Dew Point
Important for the assessment of material behaviour and undesirable chemical processes.

wireless

wireless

Crack Monitoring, Crack Detection - Surface
The monitoring and detection of crack widths is crucial for structural assessment and safety.

Displacements, Height Difference, Subsidence
Displacements in expansion joints and between components are important for the assessment, determination of causes and monitoring of structures.
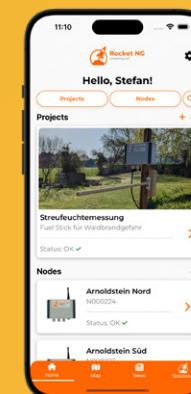
Rocket AI Core

Science Board

Rocket API

Hello, Stefan!

Rocket App & IoT-Solution Store

Categories:
- Geotechnics
- Stock
- Temperature/weather/climate
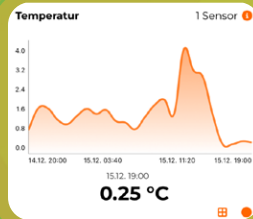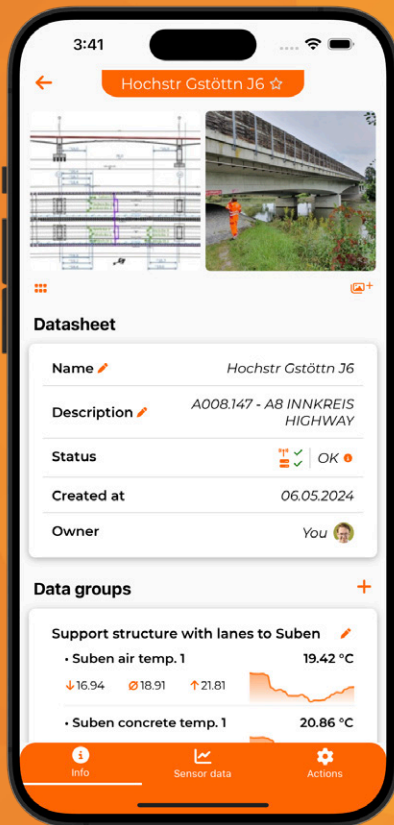- Predictive Maintenance
- Displacements/strains/forces
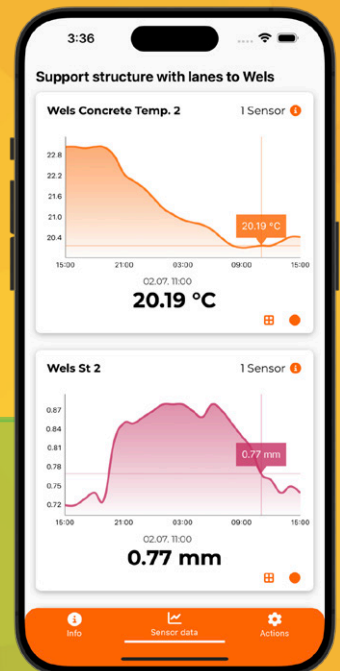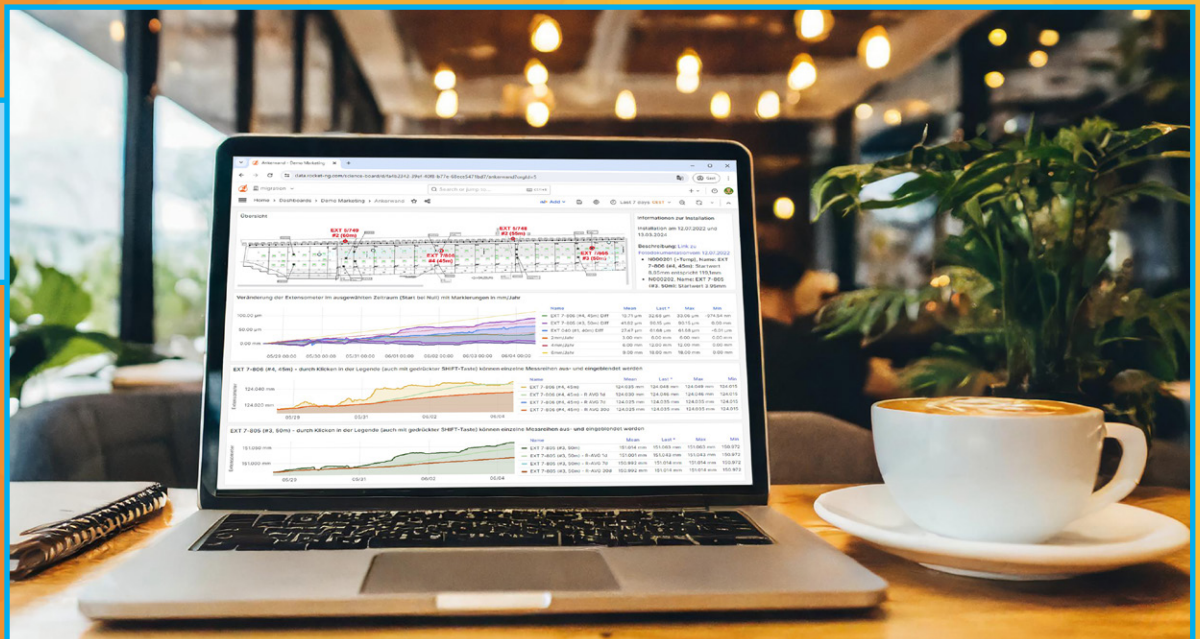
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Manage your projects intuitively and clearly in the Rocket NG app

Keep your measurement data always in view

Analyse in our ScienceBoard

**Interested?
Get in touch with us!**

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