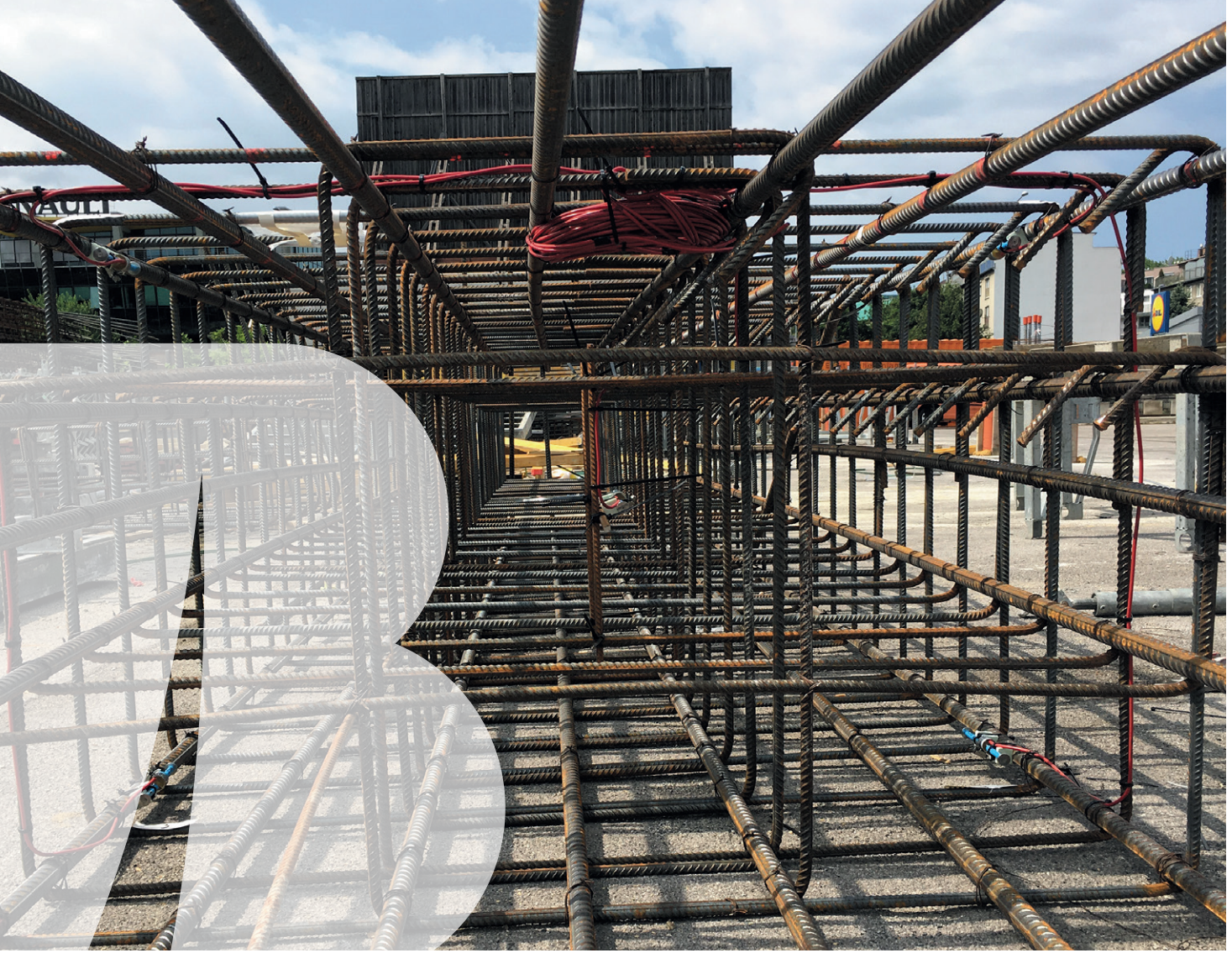


■ DYNAMICS AND MONITORING



Engineers you can trust



To ensure the safety of transport infrastructure such as bridges, tunnels and retaining walls, decisions on maintenance measures must be taken. As a decision basis, evaluated measurement results from permanent monitoring systems are used. We support you in the individual design, configuration and installation of monitoring systems as well as the interpretation of the measurement results.

In recent times, authorities and residents near construction sites have become more sensitive to nuisances caused

by construction activities. As a result, there are ever higher requirements for the monitoring and documentation of neighboring buildings. In addition, during the construction phase there is often a high risk potential, for example, of strong settlements or vibrations. Especially old structures, such as listed buildings, often are at higher risk. To meet the requirements and minimize risks, we supply permanent measuring systems for construction site supervision.

ABOUT US

DYNAMICS AND MONITORING

INNOVATIVE

We provide innovative products and processes based on our patented developments and the knowledge gained from commissioned research projects. This includes, among other things, expertise in the field of dynamics, especially in the design and dimensioning of vibration damping measures and consulting in structural dynamics.

Weigh-in-motion makes it possible to determine the real loads produced by the axle loads and gross vehicle weights of trucks on existing bridges.

STRUCTURAL HEALTH MONITORING

By monitoring new buildings, the calculated and real load-bearing behavior can be compared and building states can be monitored. The permanent monitoring of existing structures makes it possible to determine service life expectancy, to implement safety-relevant monitoring systems (including alerts) or to design rehabilitation measures.

SITE SUPERVISION

Measurements in the course of construction activities are used for documentation of condition, for internal and external monitoring, or for quality control by means of individually configured monitoring systems. For this purpose, we offer all kinds of measurement technology, such as geophones for vibration measurements, settlement sensors, deformation, crack or strain sensors and acoustic sensors for noise measurements.

OUR SERVICES

- Design, delivery, installation and maintenance of measuring systems for individual requirements on a rental or purchase basis
- Client-specific development of the measurement software
- Display in the web portal, reporting and alerts
- Problem analysis and concept development
- Data analysis and interpretation



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