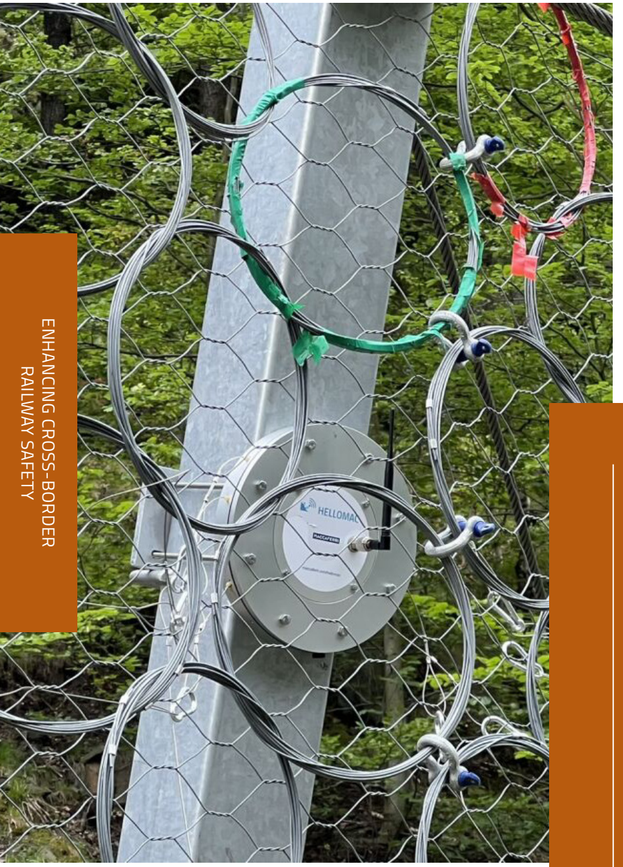

ENHANCING CROSS-BORDER RAILWAY SAFETY

Smart Rockfall Barriers on the Germany-Czech Republic Link

PROJECT STAKEHOLDERS

CLIENT: LSPRÁVA ŽELEZNIC (CZECH RAILWAYS)
DESIGNER / CONSULTANT: STRIX INZENYRING S.R.O.

ROCKFALL PROTECTION

- ROCKFALL BARRIERS RB 2000 ZNB H40 L16, L18, L30

INSTALLATION

MAY 2024
HELLOMAC GEO INSTALLED: 2

FACING THE CHALLENGE

In the heart of the Czech Republic, the Boč-Klášterec nad Ohří railway line stands as a vital artery connecting East Germany to the West Czech Republic. Amidst the picturesque landscapes, the railway faces the perennial threat of rockfall, posing risks to both infrastructure and passenger safety. Recognizing the importance of safeguarding this crucial transport route, Czech Railways embarked on a project to fortify the railway against rockfall hazards.

ENGINEERING THE SOLUTION

The project deployed three barriers of RB 2000 ZNB H40, spanning lengths of 16, 18, and 30 meters respectively, strategically placed along vulnerable sections of the railway. These robust barriers, meticulously engineered for optimal protection, were augmented with the installation of two HELLOMAC Geo units. This integration of cutting-edge IoT technology with traditional rockfall protection measures aimed to provide real-time monitoring and enhance response capabilities in the event of rockfall incidents.

ELEVATING STANDARDS

The implementation of HELLOMAC Geo marks a significant leap forward in railway safety management. By leveraging real-time data and alerts, railway authorities gain unparalleled insights into the condition of rockfall protection infrastructure. This proactive approach empowers timely maintenance and repair interventions, mitigating potential risks and ensuring the uninterrupted operation of the railway line. With HELLOMAC Geo, Czech Railways sets a new standard for railway safety, reinforcing its commitment to passenger security and operational excellence.

SECURING TOMORROW

Completed in May 2024, the rockfall protection project on the Boč-Klášterec nad Ohří railway line represents a milestone in railway safety innovation. The integration of HELLOMAC Geo heralds a new era of smart infrastructure management, where real-time monitoring and predictive analytics drive proactive maintenance strategies.

As Czech Railways continues its mission to enhance railway safety, HELLOMAC Geo stands as a testament to the power of technology in safeguarding critical transport networks and ensuring a seamless journey for passengers across borders.