Interreg CENTRAL EUROPE

Co-funded by the European Union

BIM4CE

BIM4CE - BRIDGE MONITORING USING REAL-TIME DATA AND DIGITAL TWINS FOR CENTRAL EUROPE

Bridges are critical infrastructure in many ways. However, the maintenance of these assets is often complicated and expensive. BIM4CE will design a more generalized digital solution for bridge management that is effective enough to help its operators with maintenance decisions yet not too complex or cost-intensive.

The goal is offer a bridge monitoring solution that is digital, affordable and scalable, benefiting all Countries and Citizens in the European Union.
Starting from bridges in central Europe, in the future other important buildings will be equipped with similar smart systems for equal reasons.

This project is supported by the Interreg CENTRAL EUROPE Programme with co-financing from the European Regional Development Fund.

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PROJECT BUDGET

2,70 m €

DURATION

Start Date **04.2023**

End Date **03.2026**

The team active on the BIM4CE Project is composed of experts in the Construction of Bridges, IoT and Digital Twin.

8 PARTNERS

3 COUNTRIES

GERMANY

Technische Universität Dresden
Dresden

Lead Partner | Collaboration in the design of innovative technological sensors for bridge monitoring solutions.

Schüßler-Plan Digital GmbH
Düsseldorf

Design and creation of BIM-based Digital twins for bridges.

ITALY

FOS S.p.A.
Genoa

Co-leader of the project and coordinator of social media communication and management.

CSP ICT Innovation
Turin

Design and realization of IoT architectures and communication infrastructure between sensors, data analysis and visualization.

SINA
Milan

Participation in the investigation of state-of-the-art monitoring systems in the Central European region.

SLOVENIA

BP Akademija
Murska Sobota

Research activities for data analysis and preparation results in the form of stakeholder maps, reports, presentations and whitepapers.

Cestel
Trzin

Measurement system design by providing strain gauge sensors and other data collection tools. Software development with feedback and consultation.

ZAG Slovenje
Ljubljana

Allow access to data on Slovenian road and bridge infrastructure; testing and comparative analysis of different sensor types.

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Contact
Technische Universität Dresden
Professor Karl Leo | karl.leo@tu-dresden.de
Clemens Haist | clemens.haist@tu dresden.de