

BIM4CE

Bridge monitoring using real-time data and digital twins for Central Europe

Bridges are critical transport infrastructure and need regular maintenance to be safe. Smart systems help with monitoring and allow to optimize maintenance processes - but they carry a high price tag.

BIM4CE project aspires to develop a new bridge management solution that will be efficacious as well as cost-effective.

Project budget in EUR:

2,701,235.41

Project duration:

01.04.2023 - 30.03.2026



NEWS

Second partnership meeting in Mansion Rakican (Slovenia)

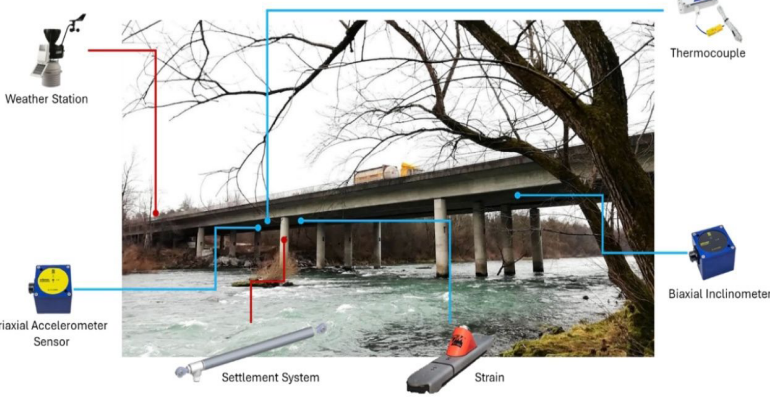
Through rigorous quantitative analysis of bridge types in Germany, Slovenia, and Italy, we have identified three critical bridge types essential for Central European infrastructure: Reinforced Concrete Slab, Prestressed Concrete Slab, and Prestressed Concrete Girder bridges, essential for Central European infrastructure. We have selected pilot sites and developed a conceptual framework for implementing digital monitoring systems on these target bridges. This framework integrates IoT technologies from CSP and introduces innovative sensor technology developed at TU Dresden to enhance the efficiency of bridge monitoring systems.



Three critical bridge types identified and pilot sites selected!

Murska Sobota was the perfect place for the successful organisation of BIM4CE partnership meeting on the 20th and 21st of March. The first day was dedicated to the Stakeholders event where partners, experts and stakeholders had the opportunity to present themselves and exchange experiences in person and online in the field of bridge monitoring. On 21st March took place the partnership meeting. Thank you to the Mansion Rakičan team for the outstanding organisation!

[Press release](#)



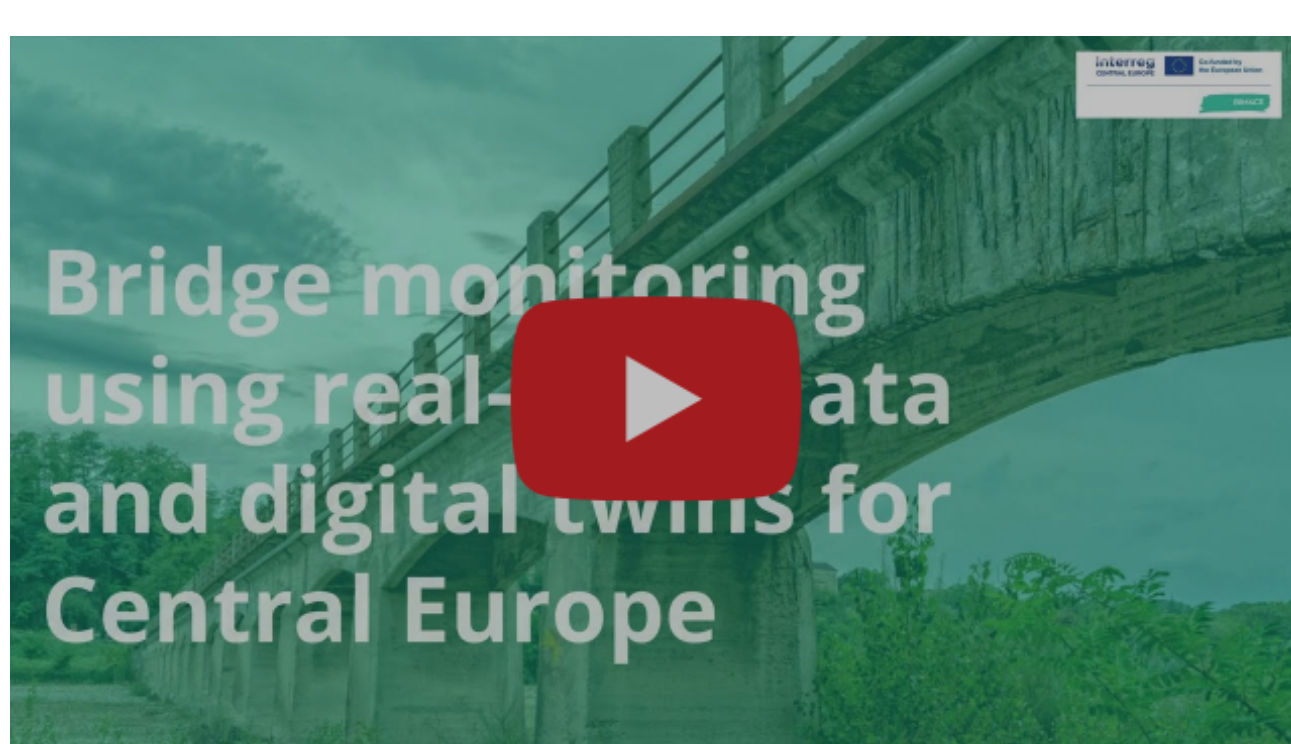
CESTEL presence at the "Intertraffic event" in Amsterdam

At Intertraffic Amsterdam, the world's biggest ITS event, Cestel showcased our bridge WIM system. The event received over 30,000 visitors and had 900 exhibitors. Additionally, they marketed BIM4CE, catching the attention of 60 infrastructure management professionals.



Video

BIM4CE - Bridge Monitoring using real-time data and digital twins for Central Europe



Events



SAVE THE DATE | Next Consortium meeting in Dresden

September 2nd and 3rd, 2024
Dresden, Germany

The meeting will take place at Dresden Photonic Center for Applied Physics and Photonic Materials (IAPP) and Institute for Applied Physics. Stay tuned!

[Visit Website](#)



SMAR 2024 | 7th International Conference in Salerno

September 4th to 6th, 2024
Salerno, Italy

The conference aims to bring together international scientists, engineers, entrepreneurs, and infrastructure managers to discuss cutting-edge testing and monitoring technology, structural modeling, assessment methods, and advanced materials for structural rehabilitation.

[Visit Website](#)

Our Partners:

