RISKADAPT

Modeling of Risks and Adaptation

PRESS RELEASE

BIBM Receives Report from CERIB on Sustainable Practices for Climate Change Adaptation

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Press release: BIBM Receives Report from CERIB on Sustainable Practices for Climate Change Adaptation

The Federation of the European Precast Concrete Industry (BIBM) has recently received a report from CERIB, Europe's largest research centre dedicated to the precast concrete sector, for the RiskAdapt project. This report marks a crucial step forward in the industry's efforts to combat climate change through sustainable practices.

The CERIB report identifies five key sustainable practices for climate change adaptation in the precast concrete industry:

- Optimising Cement and Binders: Refining the composition and usage of cement and binders to enhance sustainability;
- Using Alternative and Industrial Materials: Incorporating alternative materials to reduce environmental impact;
- Incorporating Recycled Aggregates: Using recycled aggregates to promote resource efficiency;
- Reusing Concrete Elements: Encouraging the reuse of concrete elements to minimize waste;
- Adopting Holistic Construction Designs: Implementing comprehensive construction designs to reduce overall material usage.

A critical highlight of the report is the potential for low-carbon binders, when combined with optimised structural design, to substantially decrease CO_2 emissions. This finding is particularly important in the context of the ongoing challenges posed by non-standardised specifications and regulations within the industry.

BIBM is dedicated to implementing these sustainable practices across the industry. Collaboration and innovation are seen as essential to achieving climate goals, and BIBM is eager to work with stakeholders to realise these recommendations.

For more information about the CERIB report and the RiskAdapt project, please visit https://riskadapt.eu/.

About BIBM

The Federation of the European Precast Concrete Industry (BIBM) represents the interests of the precast concrete industry across Europe. BIBM promotes the use of precast concrete in construction, advocating for sustainable practices and innovation to enhance the industry's contribution to the built environment.

About CERIB

CERIB (Centre d'Études et de Recherches de l'Industrie du Béton) is Europe's leading research centre dedicated to the precast concrete sector. CERIB focuses on advancing knowledge, technology, and practices to improve the efficiency, sustainability, and resilience of concrete construction.

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PROJECT SUMMARY

RISKADAPT will provide, in close cooperation with the end-users/other stakeholders, a novel, integrated, modular, interoperable, public and free, customizable user-friendly platform (PRISKADAPT), to support systemic, risk-informed decisions regarding adaptation to Climate Change induced compound events at the asset level, focusing on the structural system. PRISKADAPT will explicitly model dependencies between infrastructures, which, inter alia, will provide a better understanding of the nexus between climate hazards and social vulnerabilities and resilience. Moreover, this project will identify gaps in data and propose ways to overcome them and advance the state of the art of asset level modelling through advanced climate science to predict Climate Change forcing on the structure of interest, structural analyses, customized to the specific structure of interest, that consider all major Climate Change induced load effects in tandem with deterioration, novel probabilistic environmental life cycle assessment (LCA) and life cycle cost (LCC) of structural adaptation measures and a new model to assess climate risk that will combine technical risk assessment with assessment of social risks. PRISKADAPT will provide values to a set of indicators for each asset of interest, quantifying primary parameters and impacts, in the form of a Model Information System (MIS) that will provide all required information for adaptation decisions. PRISKADAPT will be implemented in the case studies in the pilots that involve specific assets, however, it will permit customization with local values of parameters and data, so it can be applicable throughout Europe for Climate Change adaptation decisions involving assets of similar function, exposed to multiple climate hazards.

Fast Facts:
Project number: 101093939
Starting date → 01.01.2023
Project information → 36 months | 17 partners | EU contribution 2.533.536,00 €
Coordinator → RISA Sicherheitsanalysen GmbH
Website→ www.riskadapt.eu LinkedIn→ RISKADAPT

Consortium Partners:
RISA Sicherheitsanalysen GmbH (RISA) | Ilmatieteen laitos (FMI) | Utrecht University (UU) | University of Groningen (RUG) | Federation of the European Precast Concrete Industry (BIBM) | Alma Mater Studiorum – Università di Bologna (UNIBO) | University of Stuttgart – Department of Lifecycle Engineering (USTUTT) | Univerza v Ljubljani (ULFGG) | RINA Consulting S.p.A. (RINA) | Tecnic Consulting Engineers (Tecnic) | Environmental Reliability & Risk Analysis (ERRA) | Region of Western Macedonia (RWM) | Municipality of Trieste (MTr) | Sustainable City Network (SCN) | Fingrid Oyj (Fingrid) | University of Hong Kong (UHK) | University of Birmingham (UOB)

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