

Energy Efficient Buildings & NEB Matchmaking and Study Visit

11-13 MARCH 2026
BRUSSELS

HORIZON
europe

NCBR
National Contact Point
for EU Research Programmes


**Industry
Contact
Point**
Low-emission
Technologies
and Clean Energy

NCBR
National Centre for Research
and Development

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1 – My organization

- ❑ **Łukasiewicz Research Network – Institute of Ceramics and Building Materials**
- ❑ **A leading scientific and research unit in Poland operating in the field of ceramics, glass, refractory and building materials.**

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2 – Project Idea

Selected Topic: → HORIZON-CL5-2027-05-D4-05 (On-site robotic and automated techniques for building renovation and new construction)

- ❑ Goal: Development of technology enabling on-site 3D printing with Roman cement in order to reduce the carbon footprint of renovating historical façades or creating façade elements for new buildings**
- ❑ Why: Roman cement is a sustainable, fast-setting material that is resistant to weather conditions.**
- ❑ Expected results: Creating a value chain to develop a technology from Roman cement production to implementation of the printed element on the façade of a building and its integration with it.**

3 – Expression of Interest

Partnership we already have:

- 1) Łukasiewicz Research Network – Institute of Ceramics and Building Materials: which has rotary kilns and extensive experience in the test production of bonding materials including Roman cement.
- 2) Technische Universität Chemnitz: with a number of successful 3D printing projects using bonding materials and with the appropriate infrastructure for this type of research and development work.

What do we look for:

Consortium focused on the automation of construction works, thanks to which we will develop our technology and bring added value to the project in the form of the use of alternative, low-emission materials.