Development of innovative lightweight and highly insulating energy efficient components and associated enabling materials for cost-effective retrofitting and new construction of curtain wall facades.

EENSULATE

EENSULATE project presentation

Event name

Location, date

Presenter name

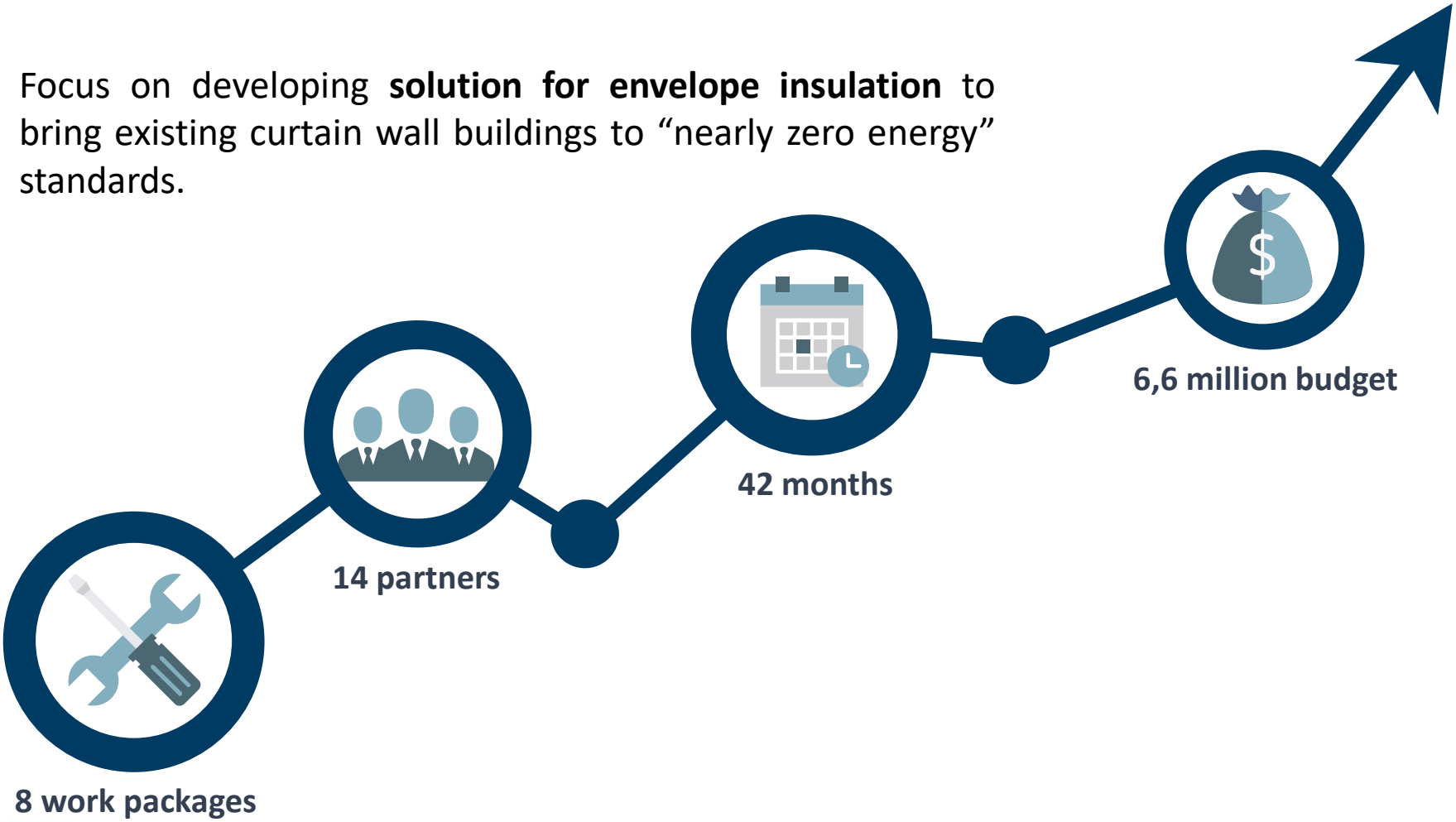
Company

This project has received funding from European Union's Horizon H2020 research and innovation programme under grant agreement No. 723868.

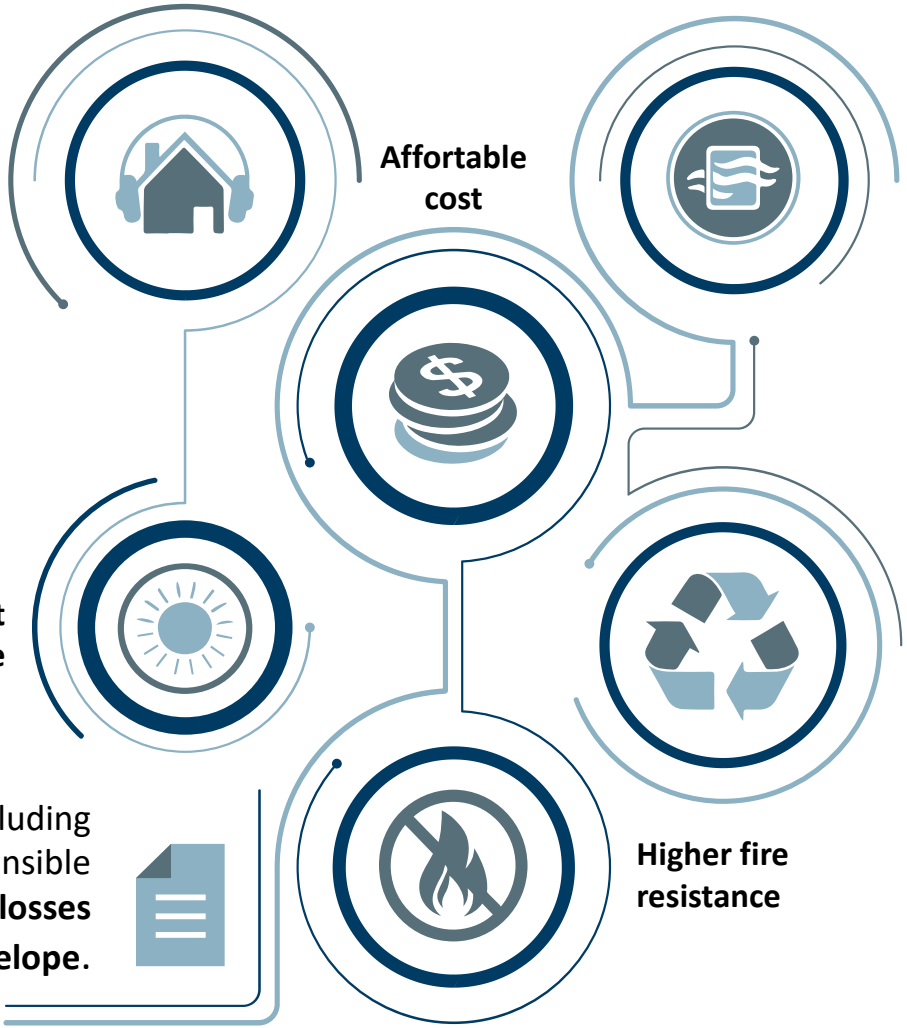
European Commission

EENSULATE PROJECT

Focus on developing **solution for envelope insulation** to bring existing curtain wall buildings to “nearly zero energy” standards.

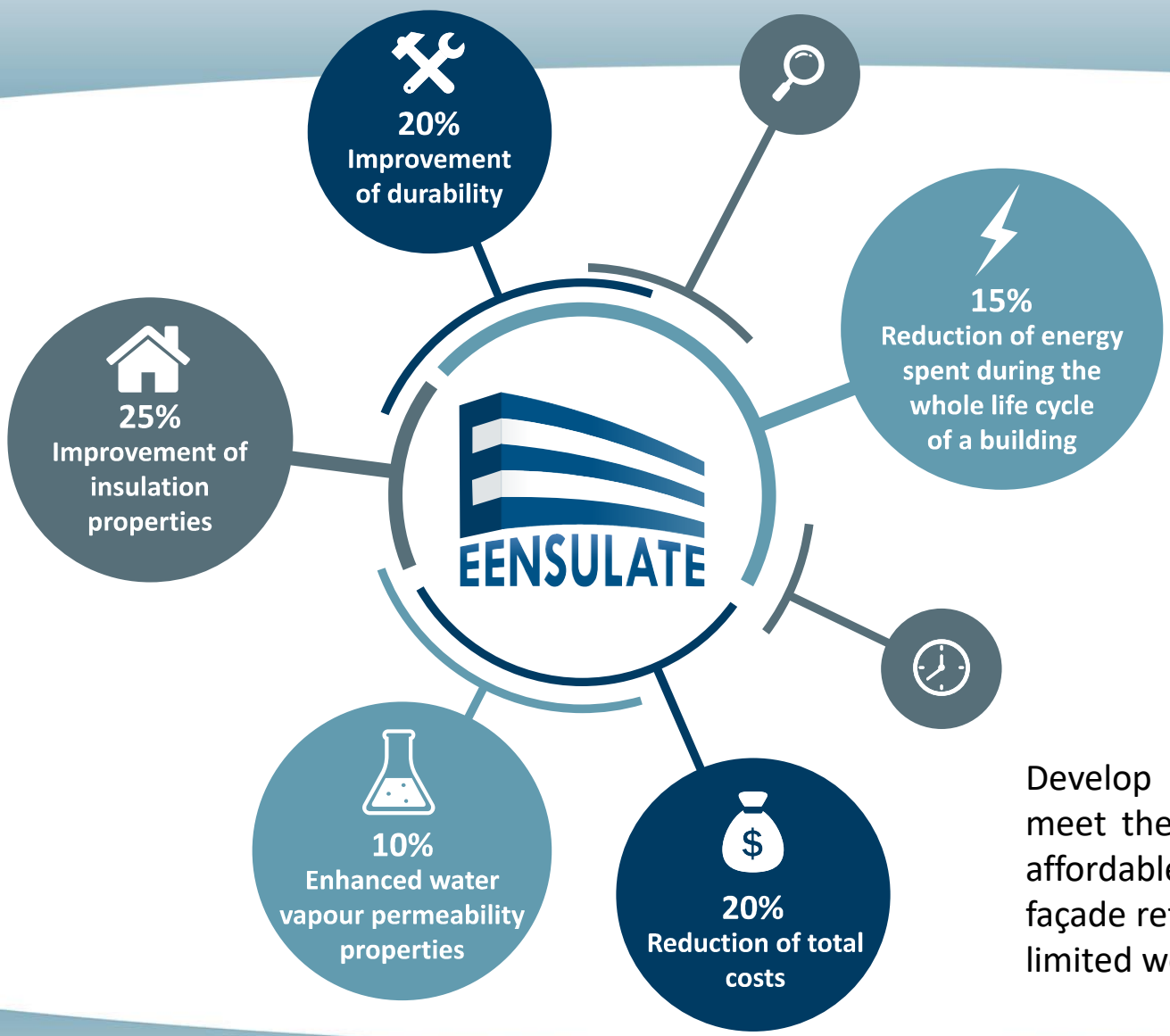


INTRODUCTION



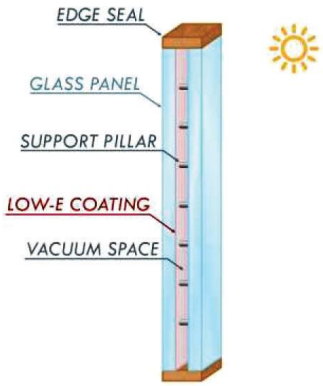
Existing buildings, including historical ones, are responsible for up to **60% of energy losses through the envelope.**

OBJECTIVES



Develop a product that will meet the market demand for affordable and prefabricated façade retrofitting system with limited weight and thickness.

CONCEPT

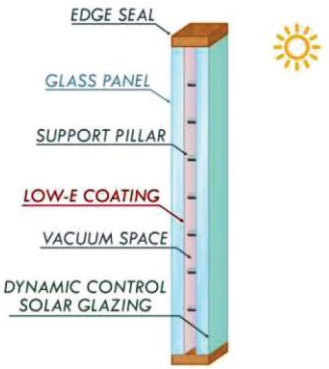


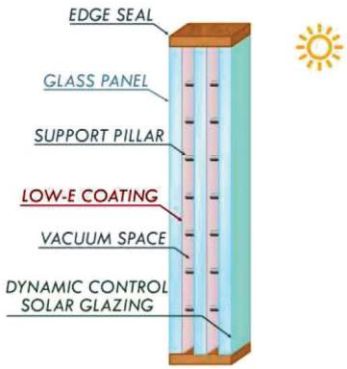
- **EENSULATE Basic modules**

  Thermal and acoustic insulation will be provided by the novel VIG and “smart foam” in the spandrel combined with state of the art low-E coated glass.

- **EENSULATE Premium modules**

Multi-functionality by integrating novel thermos-chromic coated glass with additional self-cleaning and anti-fogging properties.

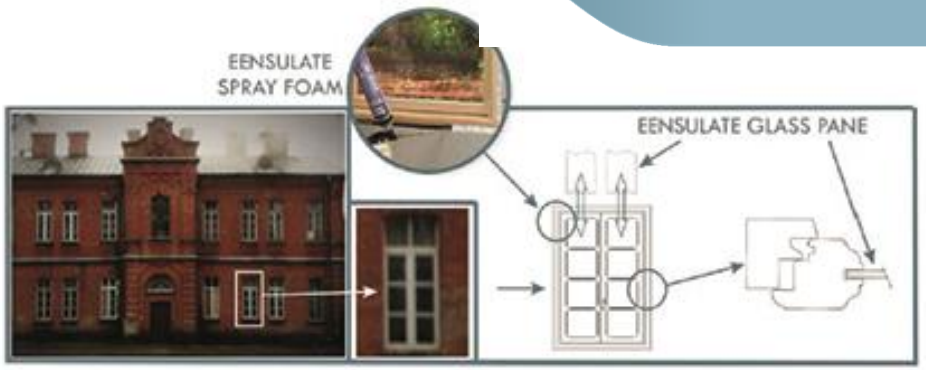




KEY PRODUCTS

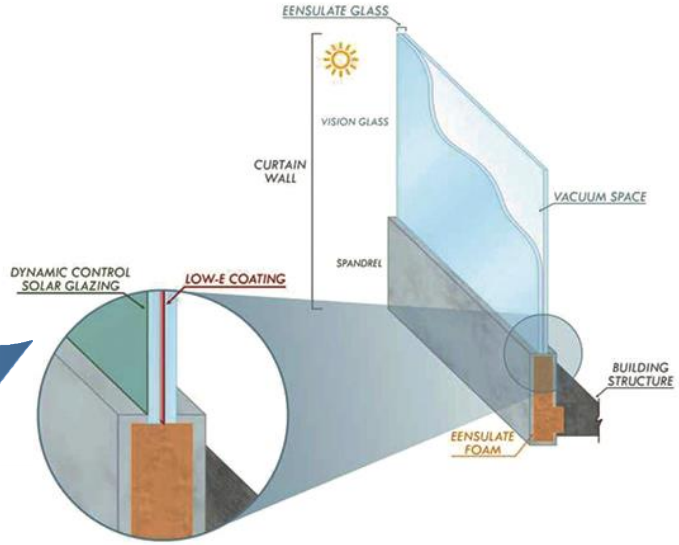
EENSULATE FOAM

Highly insulating spray foam for the cost-effective manufacturing and insulation of the opaque components of curtain walls.



EENSULATE GLASS

A lightweight and thin double pane vacuum glass for the high insulation of the transparent component of curtain walls.



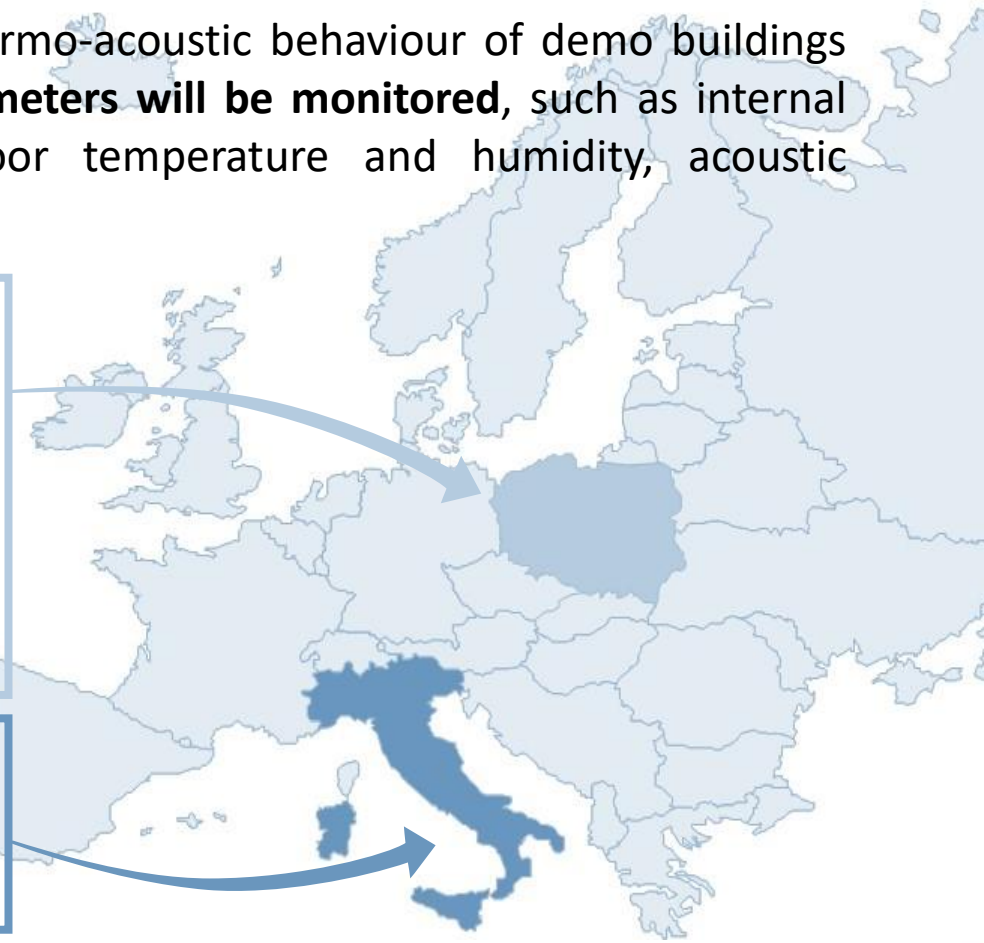
DEMOSITE

- The focus will be placed on the thermo-acoustic behaviour of demo buildings and indoor comfort. **Different parameters will be monitored**, such as internal and external wall condition, indoor temperature and humidity, acoustic performance etc.

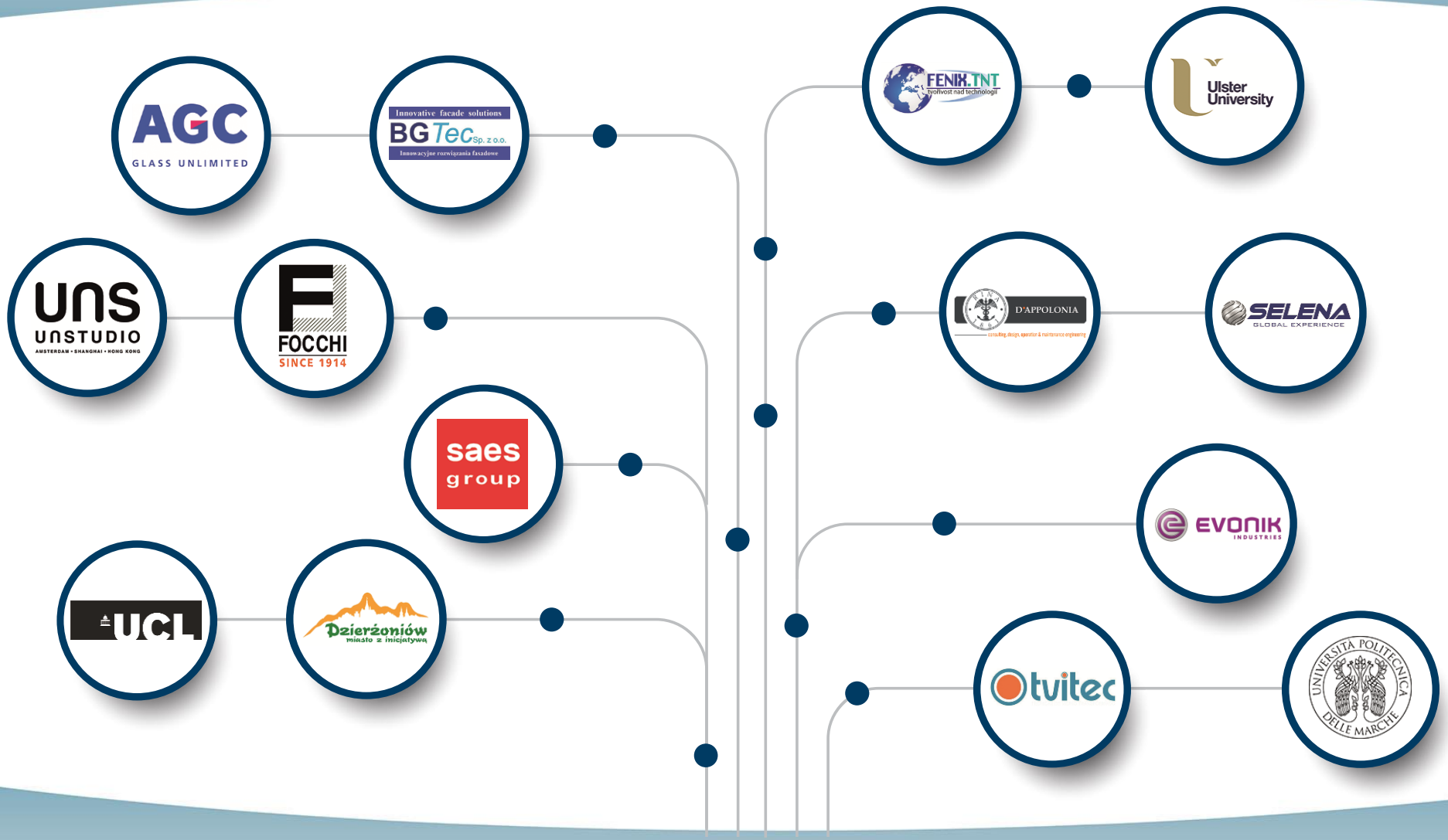
School Bilding
(Dzierżoniów, Poland)

City Museum
(Dzierżoniów, Poland)

Public Library San Giovanni
(Pesaro, Italy)



PARTNERS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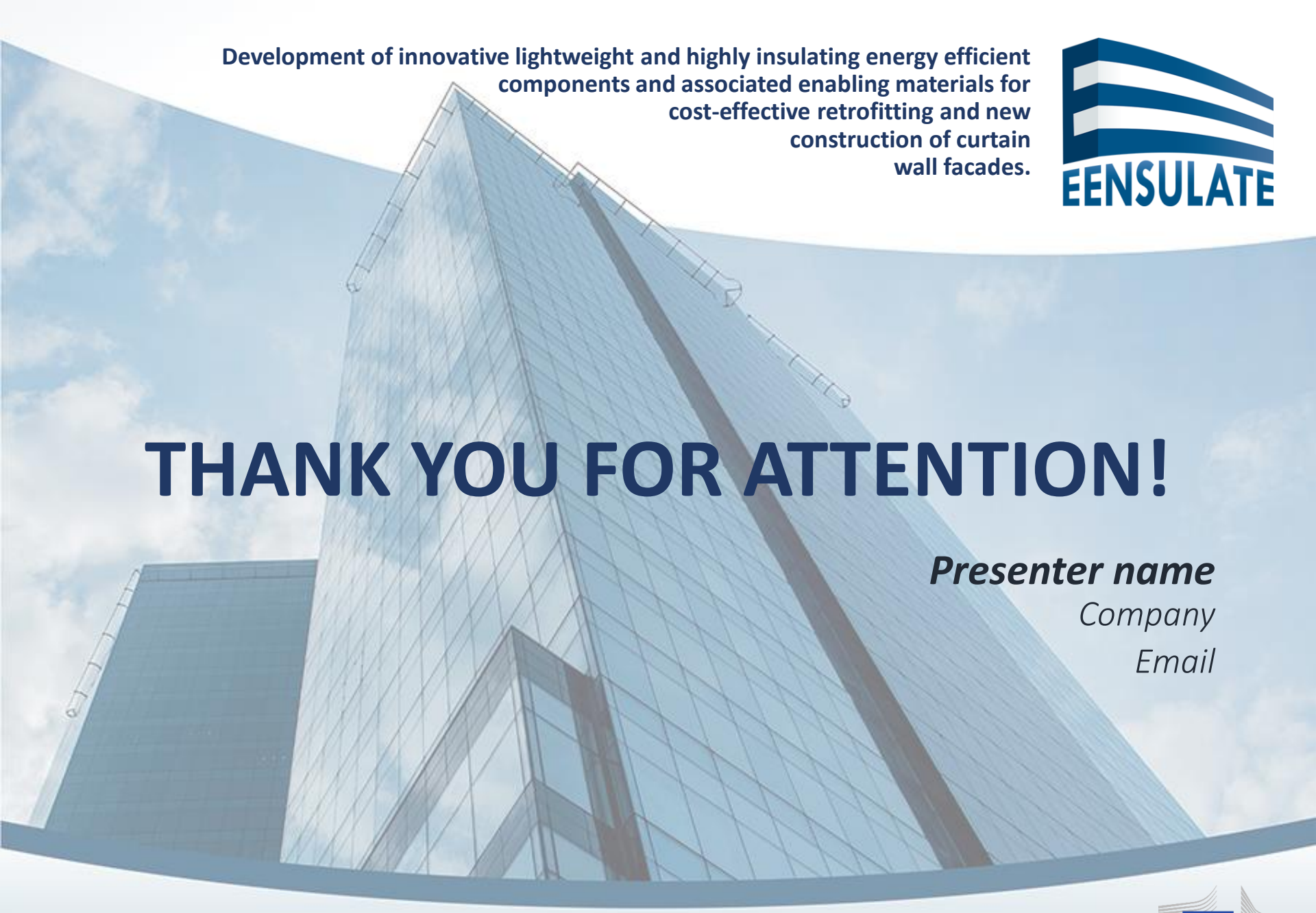

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THANK YOU FOR ATTENTION!

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