



Climate Change, Cultural Heritage & Energy Efficient Monuments

INTERREG IVb Baltic Sea Region

Tallinn, 22.5.2012









Overall goal of Co₂olBricks

CO2 reduction and conservation of cultural heritage:

 How to reduce the energy consumption of historical buildings without destroying their cultural value?

2. Make technologies and results public











Why energy efficiency in historic buildings?

- -Keep the historic buildings attractive to live in
- -Increased heating costs
- -Loss of characteristics of our cities
 - economic attractiveness
 - external insulation

Itic Sea Region

Programme 2007–2013















Basic Data

•Project runtime: December 2010 - December 2013

•18 Partners from 9 countries with 10 languages

•Projectvolume: 4,3 Mio. Euro

•Of that EU-funding: 75% / 85% /95%









Partnerstructure











Partnerstructure











Results of Baselinestudy:

- ightarrow Countries deal very carefully with historic buildings
- ightarrow All measures based only on theoretical calculations
- \rightarrow No analysis before the refurbishment (material, real heat transmission etc.)

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- \rightarrow No evaluation after refurbishment
- \rightarrow Definition of cultural value of building before and after refurbishment







Researches

Aims:

- \rightarrow Increase Know-How of Co₂olBricks project partners
- \rightarrow Investigation and development of innovative methods, technologies etc.
- ightarrow Implementation within pilot projects







Pilot project in Hamburg / Germany











Pilot project in Kohtla-Järve / Estonia











Pilot project in Malmö / Sweden











Pilot project in Riga / Latvia





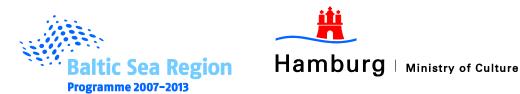






Aims of Pilot projects:

- \rightarrow Implemention of innovative methods/ technologies into built reality
- \rightarrow Increase Know-How of Co₂olBricks project partners
- \rightarrow Serve as best-practice examples (also after project end)







Work package "Policy Development:"



- Clarify connections between energy efficiency and cultural heritage
- Lack of knowledge and competence for energy efficiency in historical buildings.
- Methods needed for working with energy efficiency in cultural heritage buildings.
- Discussion of effect of building regulations effect on cultural heritage
- Missing communication within the national authorities regarding subsidies.





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Work package "Education and economic promotion"

- Baseline study on educational situation in the participating countries almost finished
- Especially general public has a lack of knowledge
- Training material started to be prepared
- Target groups: Architects, building engineers, craftsmen, property owners, officials, energy auditors
- Other stakeholders





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Topics to be covered in educational material:

- •Cultural heritage and historic constructions
- •Energy efficient refurbishment measures and technical services (heating, ventilation, indoor climate)
- •Quality Management and work planning
- Market opportunities







Thank you very much for your attention!

Jan Prahm

Co2olBricks Project Coordinator

Free and Hanseatic City of Hamburg Ministry of Culture Department for Heritage Preservation

Grosse Bleichen 30,20354 Hamburg, Germany Tel: 0049 40 428 24 729 Jan.prahm@kb.hamburg.de







