

Co₂olBricks

**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:

1. 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





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



Work package “Technical Innovations”

Results of Baselinestudy:

- Countries deal very carefully with historic buildings
- All measures based only on theoretical calculations
- No analysis before the refurbishment (material, real heat transmission etc.)
- No evaluation after refurbishment
- Definition of cultural value of building before and after refurbishment

Work package “Technical Innovations”

Researches

Aims:

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

Work package “Technical Innovations”

Pilot project in Hamburg / Germany



Work package “Technical Innovations”

Pilot project in Kohtla-Järve / Estonia



Work package “Technical Innovations”

Pilot project in Malmö / Sweden



Work package “Technical Innovations”

Pilot project in Riga / Latvia



Work package “Technical Innovations”

Aims of Pilot projects:

- Implementation of innovative methods/ technologies into built reality
- Increase Know-How of Co₂olBricks project partners
- 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.

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

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