



Baltic Sea Region
Programme 2007-2013

Part-financed by the European Union
(European Regional Development Fund
and European Neighbourhood and
Partnership Instrument)



Integrated Approaches for Energy Efficient Upgrading of Residential Areas

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Brussels, 25.05.2011 - Sustainable energy solutions in the urban and regional context
Reflections on EU support

Project funded by the European Union (Baltic Sea Region Programme 2007-2013)

15 partner organisations in 6 countries of the BSR

Germany
Poland
Lithuania
Latvia
Estonia
Belarus



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Objective: Concepts and Strategies for the Integrated Energy Efficient Renewal of Residential Areas in the BSR



- Energy efficient refurbishment (EER) measures in the building stock
- Modernization of the energy supply systems
- Improvement of the residential environment and the public spaces
- Intelligent financing concepts

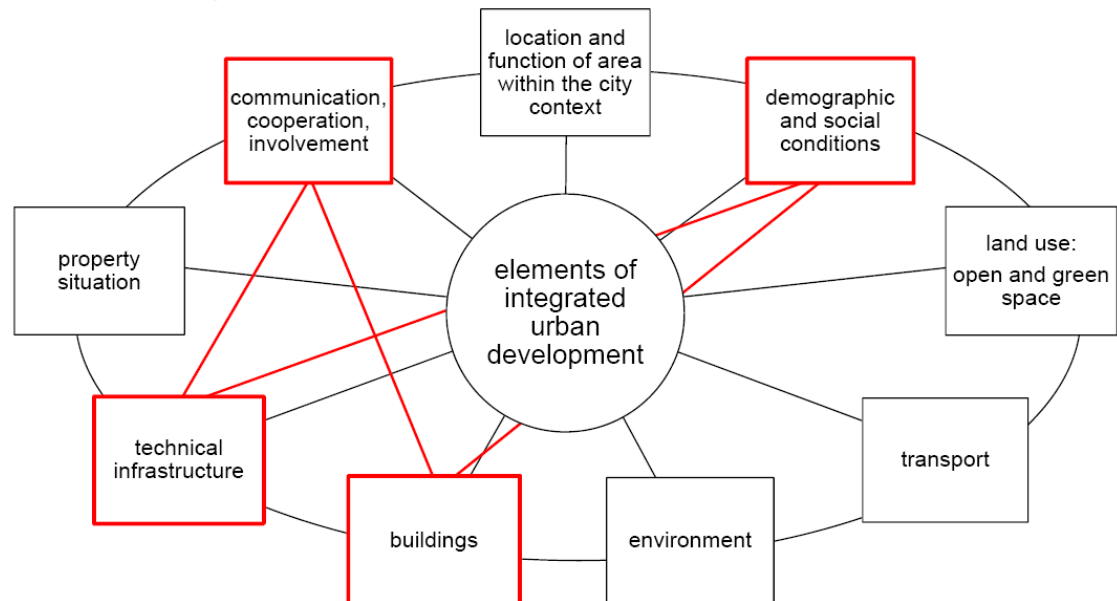
Background:

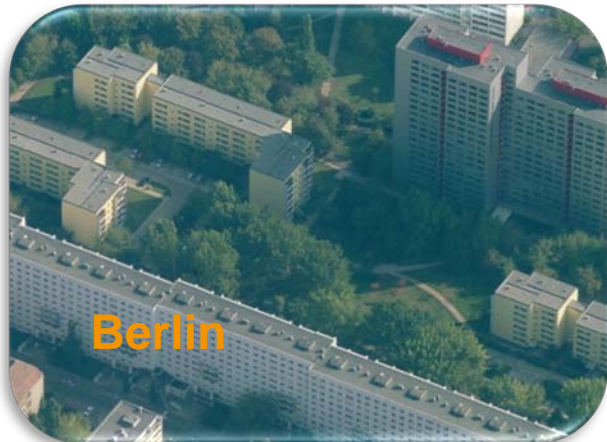
- Political commitment of the EU to reduce waste of energy and CO₂-emission in buildings (EU 2020-Strategy, Recast of EPBD, opening of structural funds for EE interventions in housing etc.)
 - Rising energy prices
 - High potential in the building sector for energy efficiency and to use more renewable energy resources
 - Low rate of new construction and large number of buildings with poor energy performance, esp. in the new EU member states
 - Need to embed energy efficient refurbishment measures into integrated urban development concepts
- Necessity for energy efficient upgrading of existing residential areas

Urb.Energy applies an integrated approach



- It addresses the overall urban development of selected residential areas and the various interlinked IUD elements
- It aims to use IUD concepts to improve energy efficiency in urban quarters





Seven selected urban areas (“**target areas**”) + the experience from the federal state of **Brandenburg**

Integrated planning approach

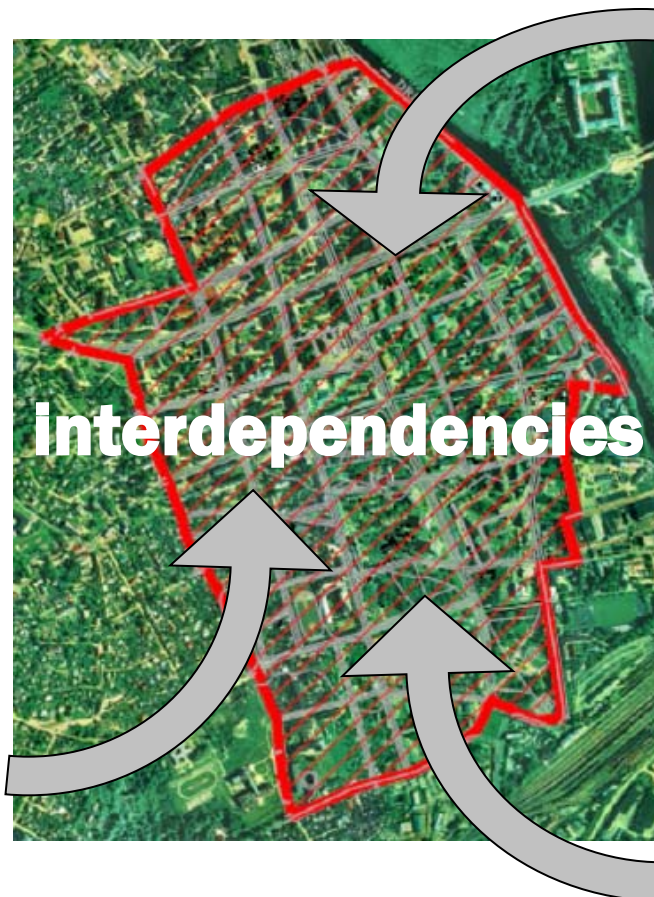
Energy related issues:

Refurbishment of the housing stock

Modernization of the supply infrastructure

Use of renewable energy resources

Information to stimulate behaviour change



Urban upgrading issues:

Improvement of the residential environment, open space, green areas

Traffic concepts (incl. parking)

Improvement of social infrastructure

Financing possibilities

Integrated procedural approach

Coordination of responsible administration and other stakeholders:

Departments
Political legitimisation
Non-state actors



Participatory approach:

Information of residents
Possibilities to participate in the planning approach
Awareness campaigns

Integration of private sector:

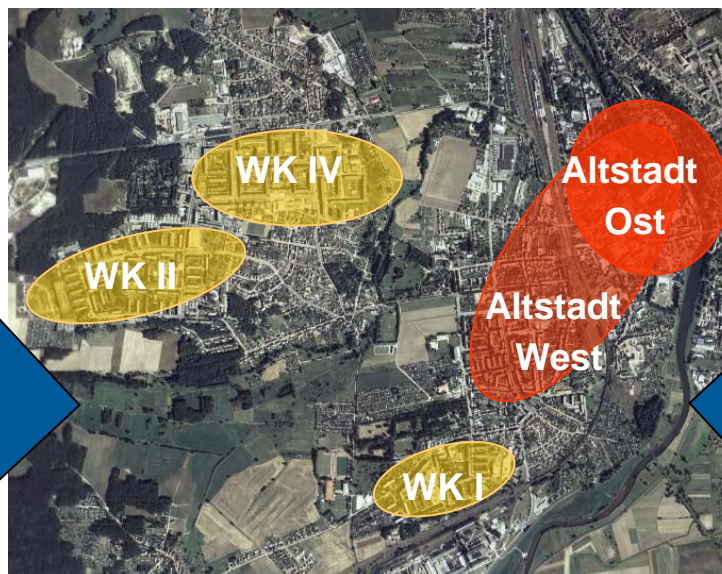
e.g. supply companies (utilities)

Brandenburg: New Approaches to Energy Supply as Part of Urban Regeneration in Guben

Urban regeneration strategy 2020

Demographic change, shrinking population
Adaptation of housing supply
Social and technical infrastructures
etc

INTEGRATED URBAN DEVELOPMENT

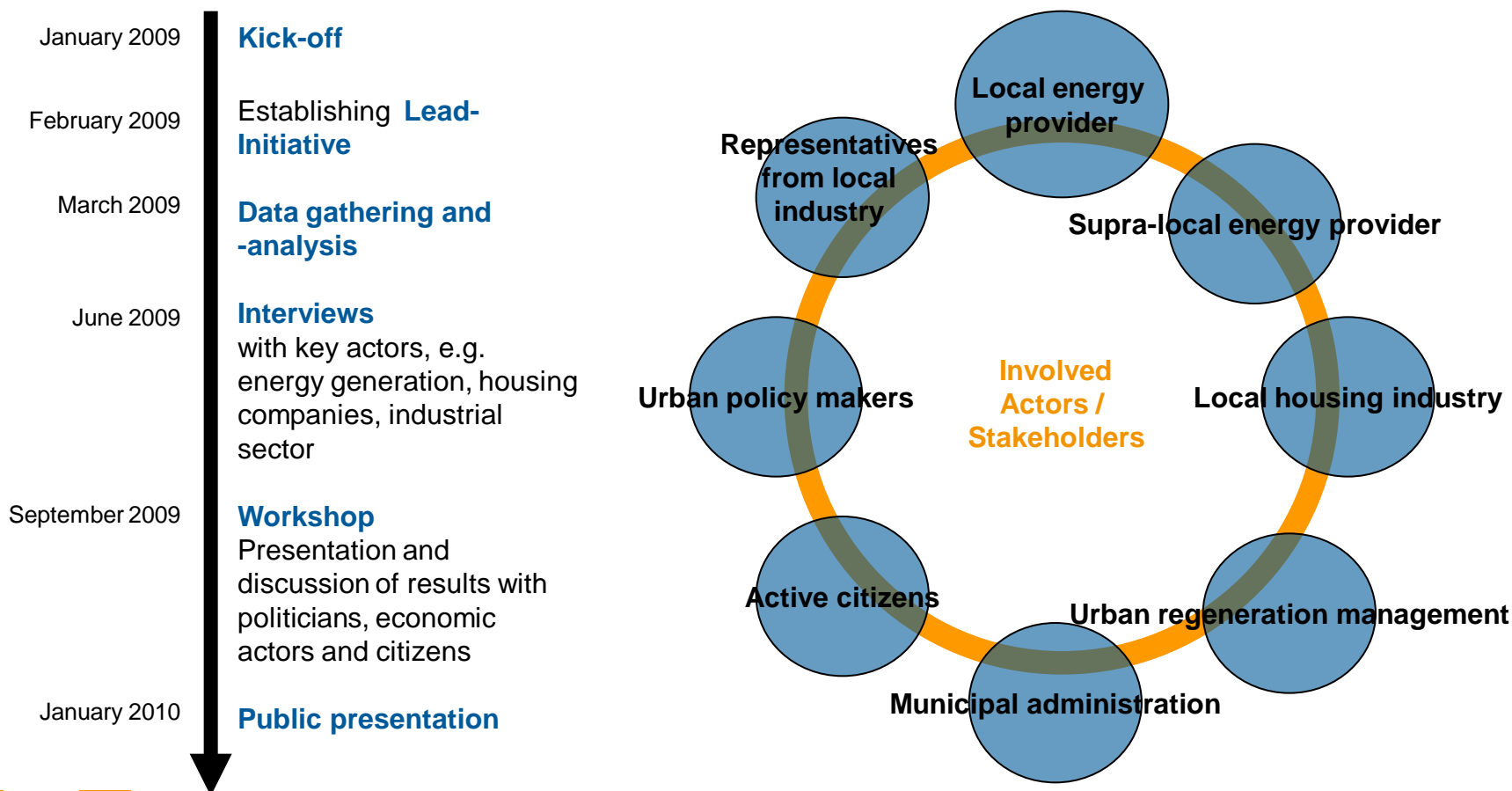


- Adapting neighbourhood – focus on demolition
- Strengthening neighbourhood - neighbourhood improvement focus

Energy Strategy 2020

Reducing energy consumption
Raising renewables
Increasing local energy generation
Lowering CO₂-Emissions
Attracting new residents and labour
Concentrating urban structures

Brandenburg: Conversion of Energy Supply as Part of Urban Regeneration in Guben



Local:

- **Integrated Urban Development Concepts for five Target Areas, including**
 - Energy concepts
 - Urban development strategies
 - Financial possibilities

National / Baltic Sea Region:

Transferable solutions given via:

- **Manual on integrated urban development approach targeting at energy efficient residential areas**
- **Manual on holistic strategies for EER of the housing stock and renewal of the related energy supply system**
- **Guidelines for innovative use of EU (structural) funds for measures in the housing sector and deprived urban area**
- **Common Policy Paper promoting the issues of IUDC, EER and financing instruments on different political levels**

Benefits:

- **Transnational exchange on new approaches to enhance energy efficiency in existing residential areas**
- **Practical experiences regarding the implementation of integrated development concepts in urban quarters**
 - Coordination and interrelation of measures
 - Identification of synergy effects
 - Activation of untapped possibilities related to behavior change
- **The project contributes to:**
 - Reduction of CO₂-emission
 - Lowering of energy costs for residents
 - Upgrading of residential areas
 - Improvement of social and economic framework conditions

Lessons Learned

- **Affordability of energy efficient refurbishment (EER)** of multi-family buildings remains core question for homeowners
- **Awareness raising, information campaigns and technical support** (e.g. by a local agency) are important to inform residents on benefits of integrated and energy efficient measures
- **Support of homeowners' associations and clarification of legal status** as well as **property rights** are important
- **Need for a combined approach of loan programmes and additional grants** for long-term financial support
 - The partner countries need **support in setting up and running revolving funding schemes** for EER

Lessons Learned

- **Integrated Urban Development Concepts (IUDCs)** are suitable instruments to activate energy efficiency potentials in urban areas
- IUDCs need **approval, active support and commitment of the local council, administrations and energy suppliers**
 - Urb.Energy recommends to **use ERDF funding to:**
 - **Develop IUDCs** for energy related modernisation of urban neighbourhoods
 - Install **local energy efficiency agencies** for residents' support (or comparable support structures)

Thank you very much for your attention!

www.urbenergy.eu

Lead Partner



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