

### Balanced European Conservation Approach

ICT services for resource saving in social housing

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#### **Responsible Housing**

COST OPTIMUM AND STANDARD SOLUTIONS FOR MAINTENANCE AND MANAGEMENT OF THE SOCIAL HOUSING STOCK





### **Objectives**

- BECA helps Europe meet emission targets by achieving a significant reduction of energy consumption in European social housing 21 Million dwellings.
- Integration of renewable energy sources.
- Balance is achieved by addressing energy and water consumption, and transfer the experience from Western Europe most advanced organizations to East Europe.



## **Key figures**

- Started in January 2011
- Duration: 3 years
- 19 partners
- **7** pilot sites, **7** European countries
- □ Project's total budget: 5.55m€
- □ 50% co-financed by the EU



## The consortium

### Research Institutes







HABITAT (&) INNOVATION

#### **Housing companies**











Habitatge i Rehabilitació de Manresa

#### **Service providers**









Municipal Energy Agency





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### **The Pilot sites**

**7** Pilot sites :

# > 2200 dwellings> 5000 tenants



### **Pilot sites all over Europe**



**t**beca



### **The Pilot sites**

#### *Changing conventional Services with ICT*



#### Knowledge transfer between partners

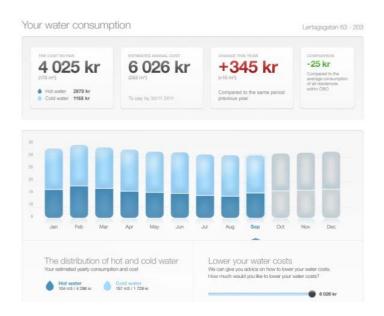
## Building on existing services



### **The Services**

### **RUAS :** Resource Use Awareness Services

- Web Service
- Human coaching
- Paper based information





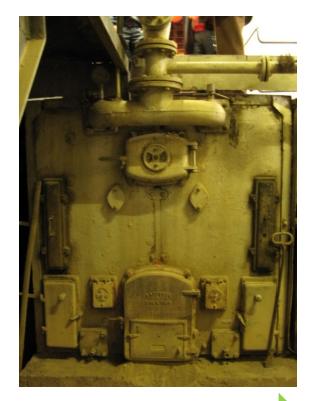


### **The Services**

#### **RMS**: Resource Management Services

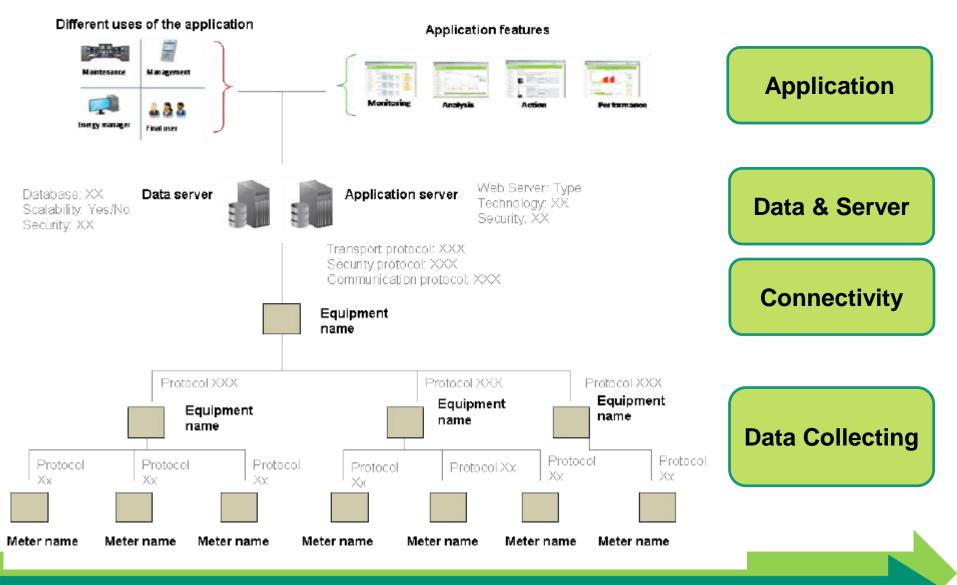
- Adjustment of energy consumption / production
- Integrating renewable energy
- Web Service







### **ICT solution**



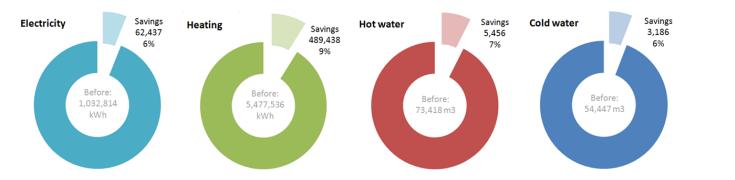
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### **Savings achieved**

- Intervention year not yet finalised (december 2013)
  - Mostly baseline design, but also control groups
- Final survey starting now
- Expected : Average results from eSESH:





 Individual sites achieved up to 12% electricity, 32% for heating and 24% for water



## **Savings recommendations**

### What can be done to maximize **RUAS** savings?

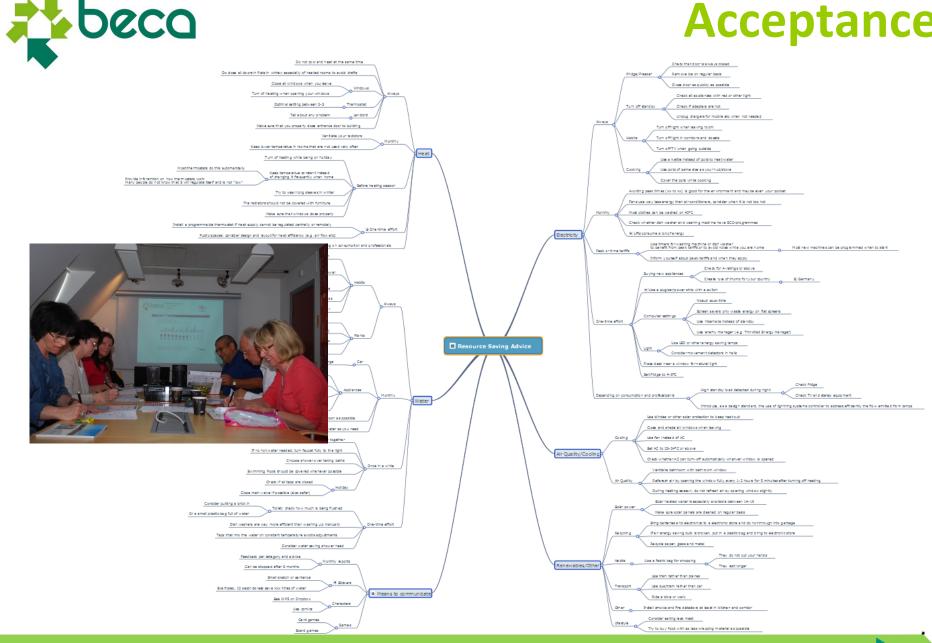
 Global coaching (human coaching, paper reports, meetings...) is mandatory to reach the savings.

### Smart Metering is a tool, not a solution.

 Smart metering might not always cause general energy savings for an entire building, but it detects heavy consumers

### Heavy consumers are your primary targets

### Acceptance



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### Acceptance

#### Your water consumption



#### Örebro (Sweden)





#### партньори контакти

Този проект е частично финансиран от Програма за подкрепа на ИТ политиката (ICT PSP) като част от рамковата програма за конкурентноспособност и иновации на

#### Ruse (Bulgaria)

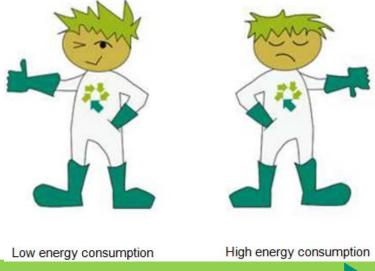
Lertagsgatan 63 - 203



### Acceptance

#### What can be done to maximize acceptance ?

- Work with tenants association s and representatives as closely as possible.
- Find 'champions' who are willing and able to spread the word (e.g. a "popular " tenant)
- Include the project into your daily business





- Cost-benefit analysis and business model creation
  - Stakeholder based tool
  - SWOT analysis
- 'Guide for replication'
  - A manual with lessons learnt, instructions, checklists and recommendations including eSESH results
- Finalisation of evaluation



### Thanks for your attention

http://beca-project.eu/

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