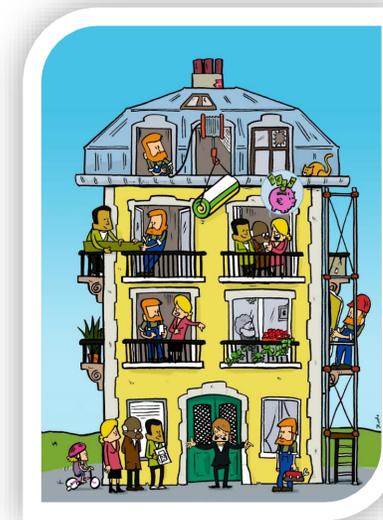


# Accelerating Energy Retrofitting in condominiums

## Work Package Demand Side

ACE final event - Brussels  
22-11-2019

Dr. Annemarie van Zeijl-Rozema



# Objectives of the ACE Retrofitting project

(running from September 2016 to June 2020)



Accompanying co-owners and co-owner associations ('demand')



Making demand and supply meet:  
Cities acting as facilitators



pooling and increasing the competencies of building professionals ('supply')

# Demand side work package: overcoming barriers to retrofitting



## AIMS

**1: empower owners and condo managers to overcome barriers to retrofitting**

**2: design and implement energy retrofitting projects**

- Providing owners & condominium management with **tailor-made assessment tools**, with technical and social components.
- Development of **step-by-step guidance** to enable owners to take action once they have carried out the assessment
- **Coaching** of owners and condominium managers. In this core activity of the WP, trainings, co-creation meetings, individual and personalised direct coaching will be provided.
- Preparation of **case studies and videos** to provide owners with successful and replicable examples

# Inventory of tools for retrofitting in 5 countries



- 93 tools were found
- 50% of tools for use in houses; 50% for use in condominiums
- 22 tools for building professionals, the rest for owners/tenants/managers

**But....what can we add?????**

## Inventory of tools in 5 countries (cont'd)



- Few tools focussing on the social aspects of retrofitting
- Too many tools
- Very long documents
- Not clear which tool to use for which situation
- Websites that are not user-friendly
- Information outdated
- Not clear who developed the tool or how (trustworthiness)
- No sign of acceleration right now

⇒ We don't know what triggers people to retrofit, so...what tools to develop?

# 10 Focus groups in the 6 cities: what do people flag?



- Subsidies not reliable/not continuous
- Decision-making as a group is problematic
- Old people do not want to invest, but also young people...
- Insufficient legal incentives/sanctions
- Not enough known about the various options
- No clear data about the benefits

Main barrier:

**DIFFICULT DECISION MAKING PROCESS!**



# Tools for decision-making



Adjustable to city's context  
 No big documents  
 Flexible framework

Being implemented in:

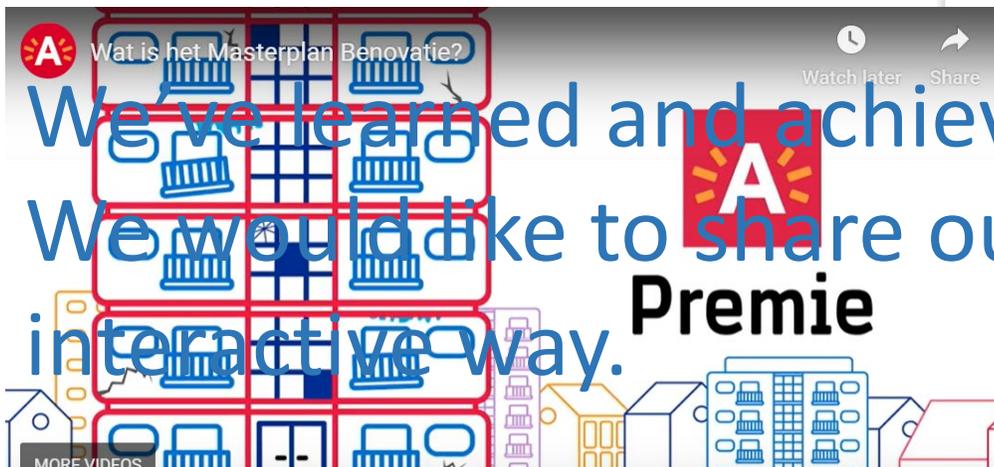
- Maastricht
- Liege
- Frankfurt



# A tool is not enough: coaching activities & examples in all 6 cities



- Development of case studies
- Videos
- Information meetings
- Training activities
- Individual coaching of condominium associations



We've learned and achieved a lot.  
 We would like to share our experiences in an interactive way.

**Key figures**

- + value of building increased
- + energy reduction
- + total cost of retrofitting
- + energy cost savings (estimated or real)
- + comfort increased
- + short duration of retrofitting
- + less pollution in buildings improved

**Key dates**

July 2013	Sept. 2013	Nov. 2014	Dec. 2014	Jan. 2015	Feb. 2015
Plus exemplis generalibus noctura quam delictis.					