

Implementing The Amended EPBD

EuroACE Webinar 2 New EPBD Tools to Trigger Renovations - Building Renovation Passports & Better Access to Financing

12h00 – 13h15
11th December 2018



In partnership with the Build Up Platform

Introduction and Overview

(Chapter 1)

A Guide to the Implementation of
The Amended EPBD

Adrian JOYCE

EuroACE Secretary General

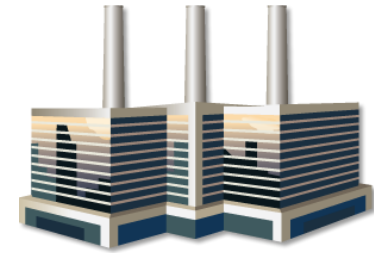


EuroACE

The European Alliance of Companies for Energy Efficiency in Buildings



More than 300,000



More than 1,400

Why Do We Exist?

To Advocate for Ambitious EU Policies for Energy Efficiency in Buildings



To Bring Benefits to All Through Improved Performance of Buildings



To Increase the Market for the Products, Equipment and Services Offered by Our Member Companies



What do we work on?

**EPBD (Energy Performance of Buildings Directive)
Including SRI (Smart Readiness Indicator)**

**EED (Energy Efficiency Directive)
GOV (Governance Regulation)**

EU-LTS (EU 2050 GHG emissions reduction strategy)

**(Multiannual Financial Framework)
Focusing on LIFE Regulation & Cohesion Funds**

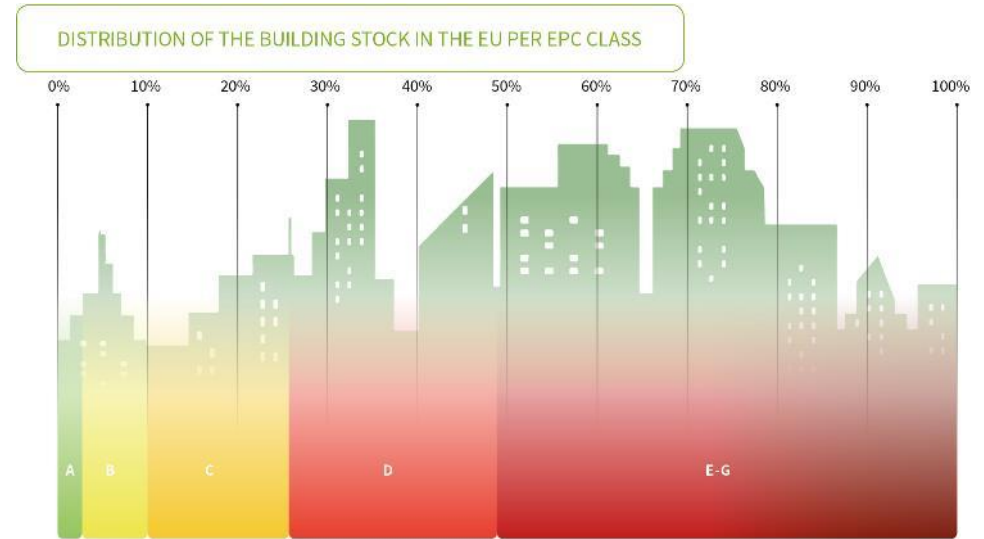
Why a EuroACE Guide?

Set Out Our Views

Followed the EPBD since its first steps
Share our knowledge and experience
Provide high-level recommendations (12 in all)

Inform and Motivate

Member State officials
Other public stakeholders
Private actors and influencers



Source: BPIE Factsheet entitled 97% of buildings in the EU need to be upgraded

What Approach Did We Take?

Late 2017:

Identified the key aspects to cover

Jan-May 2018:

Prepared a draft text in consultation with members

May-June 2018:

Invited expert reviewers to comment

June 2018:

Launched public consultation in Warsaw

October 2018:

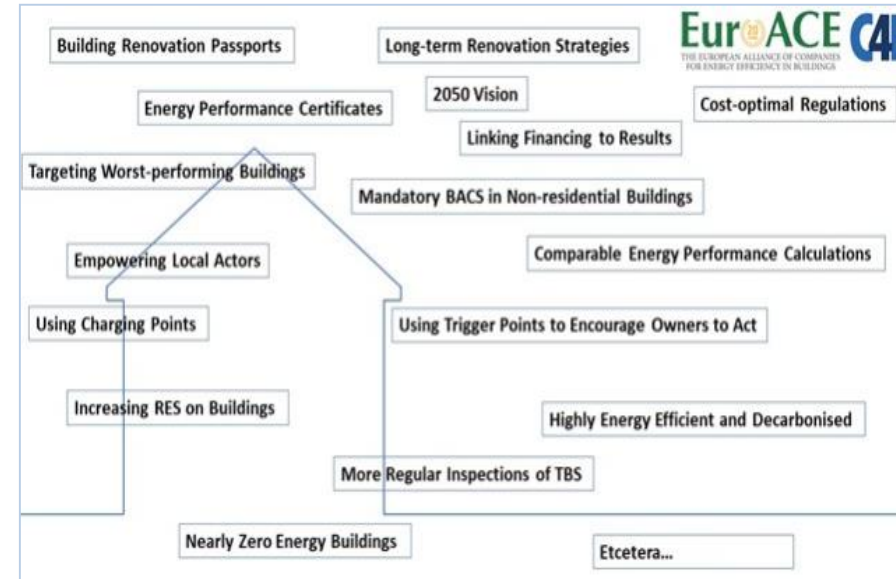
Finalised text from inputs

8th November:

First webinar

11th December:

Second webinar



A strong EPBD transposed and implemented at national level

- 12 High-Level Recommendations
- 6 Chapters Covering Key Issues
- Chapter 1 gives an overview of the main changes

A guide to

THE IMPLEMENTATION OF
THE AMENDED ENERGY
PERFORMANCE
OF BUILDINGS
DIRECTIVE
(EPBD)
2018

Prepared by

EuroACE
THE EUROPEAN ALLIANCE OF COMPANIES
FOR ENERGY EFFICIENCY IN BUILDINGS



2

EuroACE Guide to EPBD Implementation

- Long-term renovation strategies (LTRS), the central tool for Member States to achieve impact

A person with dark hair, wearing a striped shirt, is seen from behind, looking out of a large window. The window is open, and the view outside is a bright, clear blue sky. The scene is brightly lit, suggesting a sunny day. The person's hands are resting on the window sill.

3

EuroACE Guide to EPBD Implementation

- Building Renovation Passport, a powerful new option for Member States

A hand wearing a grey glove holds a yellow PDA device. The screen displays a bar chart with two bars, one red and one blue. The red bar is labeled '32,1' and the blue bar is labeled '18,2'. The number '4' is displayed in the top left corner of the screen. The background is a blurred image of a multi-story apartment building under a clear blue sky.

4

EuroACE Guide to EPBD Implementation

- Financing energy renovations, the link to improved energy performance



5

EuroACE Guide to EPBD Implementation

- Smart and technology equipped buildings



6

EuroACE Guide to EPBD Implementation

- How to describe the energy performance of a building, putting energy efficiency first in methodologies based on Annex I requirements



**Thank You
for Your
Attention!**

EuroACE

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New EPBD Tools to Trigger Renovations

(Chapter 3 & 4)

Building Renovation Passports & Better Access to Financing

Céline CARRE
EuroACE President





3

EuroACE Guide to EPBD Implementation

- Building Renovation Passport (BRP), a powerful new option for Member States

BRP – What Is It?



“A document, in electronic or paper format, that outlines a long-term (up to 20 years) **step-by-step renovation roadmap** for a specific building, based on an **on-site audit** that fulfil specific criteria and **indicators**. It is prepared in **consultation with the building owner** and ensures that the **full energy efficiency potential** of the building is achieved by the end of the term covered by the roadmap.”

BRP – What Has Changed?

- 1. Member State level:** possibility to introduce an optional scheme for BRPs, in the context of the LTRS
- 2. EU level:** feasibility study carried out by the Commission by 2020, on possibility & timeline for introducing optional BRP as complement to EPC

Why is this Important?

- 1. Better guidance and support for owners throughout their renovation journey (more motivational than EPC recommendations): increase in renovation rate**
- 2. Ensure compatibility of short-term measures with long-term goals as well as with life of building and owner (step-by-step renovations, Trigger Points)**
- 3. Better planning of work leads to higher quality of executed works (increased renovation depth), therefore also reliability and trust (making financing easier)**

Benefits of introduction and use of BRPs

- Easier decision-making for building owners
- Personalised renovation journey through independent advice
- Better quality of works, therefore increased trust
- More confidence from financial institutions



How to support the deployment of BRPs?



- Consider articulation BRPs/EPCs/SRI
- Collect and document good examples
- Promote digital BRPs to get buy-in from 21st century consumers
- Interact with MS administrations to encourage introduction of BRP scheme at national level (e.g. using financing from EED Article 7)
- Encourage Commission to positively evaluate BRPs so that it endorses its uptake at EU level

A hand wearing a grey glove holds a yellow handheld device. The device's screen displays a bar chart with three bars of increasing height. The top bar is labeled '32,1' and the bottom bar is labeled '18,2'. The device has several buttons below the screen, including a green power button and a grey directional pad. The background is a blurred cityscape with tall buildings under a clear blue sky.

EuroACE Guide to EPBD Implementation

- Financing energy renovations, the link to improved energy performance

Why is this Important?

1. Ensure that projects are investment-ready
2. Ensure that financing from multiple private sources is available
3. To foster need for reliable data and therefore increase quality of works
4. To increase both rate & depth of renovation
5. To achieve objective (highly energy efficient and decarbonised building stock by 2050)



What Has Changed?

Based on **better understanding** of dynamics of financing for energy efficiency (EEFIG, DEEP platform, SFSB), **demonstration** that energy renovation **is affordable** today

1. EU level

Commission to collect & disseminate best practices

What Has Changed?

2. National level

MS are required in LTRS to actively facilitate actions that will support mobilisation of investments (*aggregation of projects, risk reduction, leverage private investment through public funds, Eurostat rules for public buildings, one-stop-shops*)

3. National level

MS to link financial measures to targeted or achieved energy savings

Benefits of linking financing to targeted or achieved energy performance

- Increased confidence amongst investors and banks, therefore, continuous flow of funds to renovation market (certainty)
- Increased property values
- Increased quality of documentation and of works
- Increased renovation rate & depth



What role should stakeholders play?

- Record and report information related to projects (strengthening use and quality of national databases of EPCs)
- One-stop-shops
- Use of next MFF / ETS for energy renovation of buildings & link with work on Sustainable Finance



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EASME

Executive Agency for Small and Medium-sized Enterprises

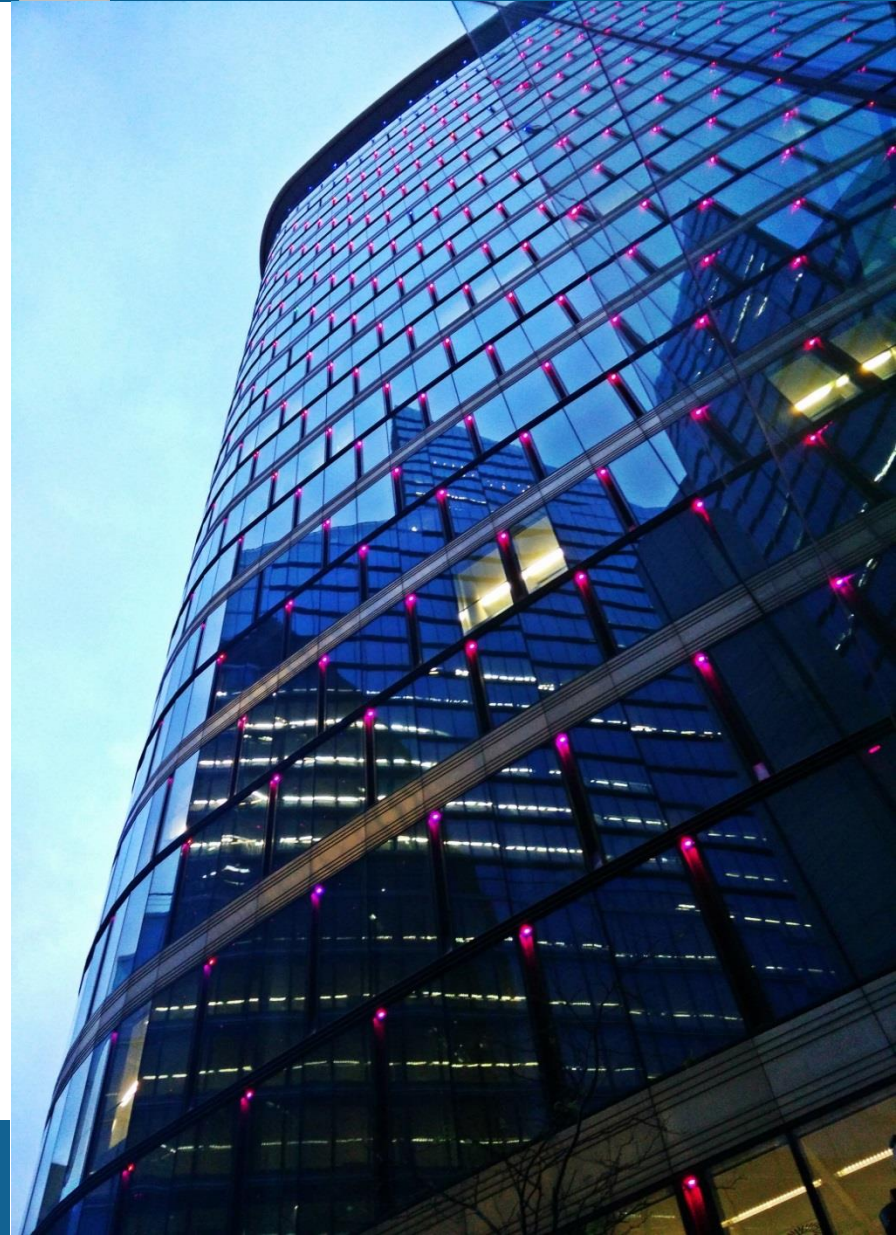
Building renovation passports, certification and financing – current projects

Philippe MOSELEY, Christophe MILIN

Project Advisors

Unit B.1 Horizon 2020 Energy

*Executive
Agency
for SMEs*



An aerial photograph of a city, showing a mix of residential buildings, some with balconies, and green spaces. The image is in grayscale. Three semi-transparent white horizontal bars are overlaid on the image, each containing a line of blue text.

Building renovation has to do more

Financing has a more important role to play

Digital/ICT has big potential to contribute

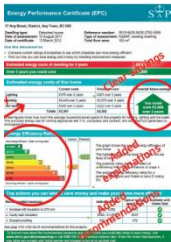


European
Commission

The right toolbox



Energy saving obligation schemes



Energy Performance Certificates, linking to financial support



Reinforced national long term renovation strategies

Some challenges

- *Identifying best practices*
- *Complementarity of building renovation passports with other tools*
- *Holistic approach to the built environment*
- *Wider vision addressing environmental impacts and building sustainability*





European
Commission

Helping Member States to implement the EPBD



CONCERTED ACTION
ENERGY PERFORMANCE
OF BUILDINGS



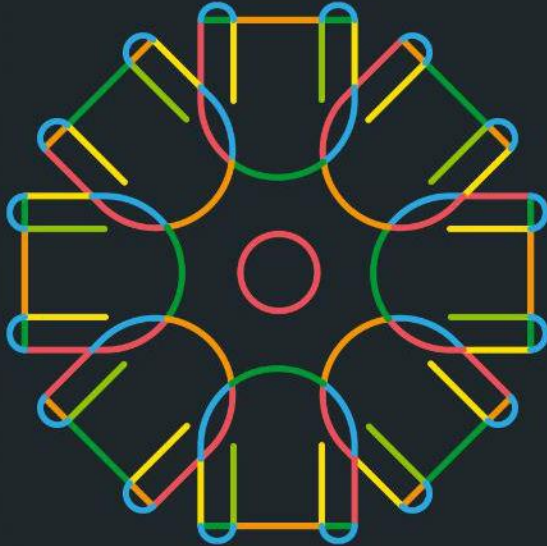
www.epbd-ca.eu

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Co-funded by the Horizon 2020 programme
of the European Union

EU Voluntary Certification Scheme and deep renovation: the ALDREN project



ALDREN Alliance

The ALDREN Alliance bring together the main stakeholders involved in building renovation to specify their needs and to create a common language

[MORE INFORMATION](#)



Buildings

Horizon 2020 Energy Efficiency Call for proposals 2018

Call closed – 189 proposals received

Innovation
Actions

EE-1 Decarbonisation of the EU building stock: innovative approaches and affordable solutions changing the market for buildings renovation

Coordination
& Support
Actions

EE-2 Integrated home renovation services *

EE-5 Next-generation of Energy Performance Assessment and Certification **(Coordination & Support Action in 2018)**

*** Single beneficiaries eligible**



Buildings

Horizon 2020 Energy Efficiency Call for proposals 2019

Call opens 12/3/2019 – deadline 03/09/2019

Innovation
Actions

EE-1 Decarbonisation of the EU building stock: innovative approaches and affordable solutions changing the market for buildings renovation

Coordination
& Support
Actions

EE-2 Integrated home renovation services * *** Single beneficiaries eligible**

EE-3 Stimulating demand for sustainable energy skills in the construction sector

EE-4 Upgrading smartness of existing buildings through innovations for legacy equipment

EE-5 Next-generation of Energy Performance Assessment and Certification
(Innovation Action in 2019)

EE-18 Bioclimatic approaches for improving energy performance in buildings in Africa and Europe

A financing challenge

- Most of the (additional) financial burden to be carried by the private sector
(i.e. households and businesses)
- Lack of attractive financing products from the market
- Subsidies are not at scale, and perceived as cumbersome
- Even if subsidies exist, measures must be prefinanced





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A “human” challenge

- Home renovation schemes need to start from the "person"
- Consumer decisions are articulated around comfort, health, property value
- Finance is not (the only) key by itself, but integration of services is – including construction sector
- Non-financial barriers can undermine the financing scheme and shouldn't be overlooked

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efdistrict
POSITIF



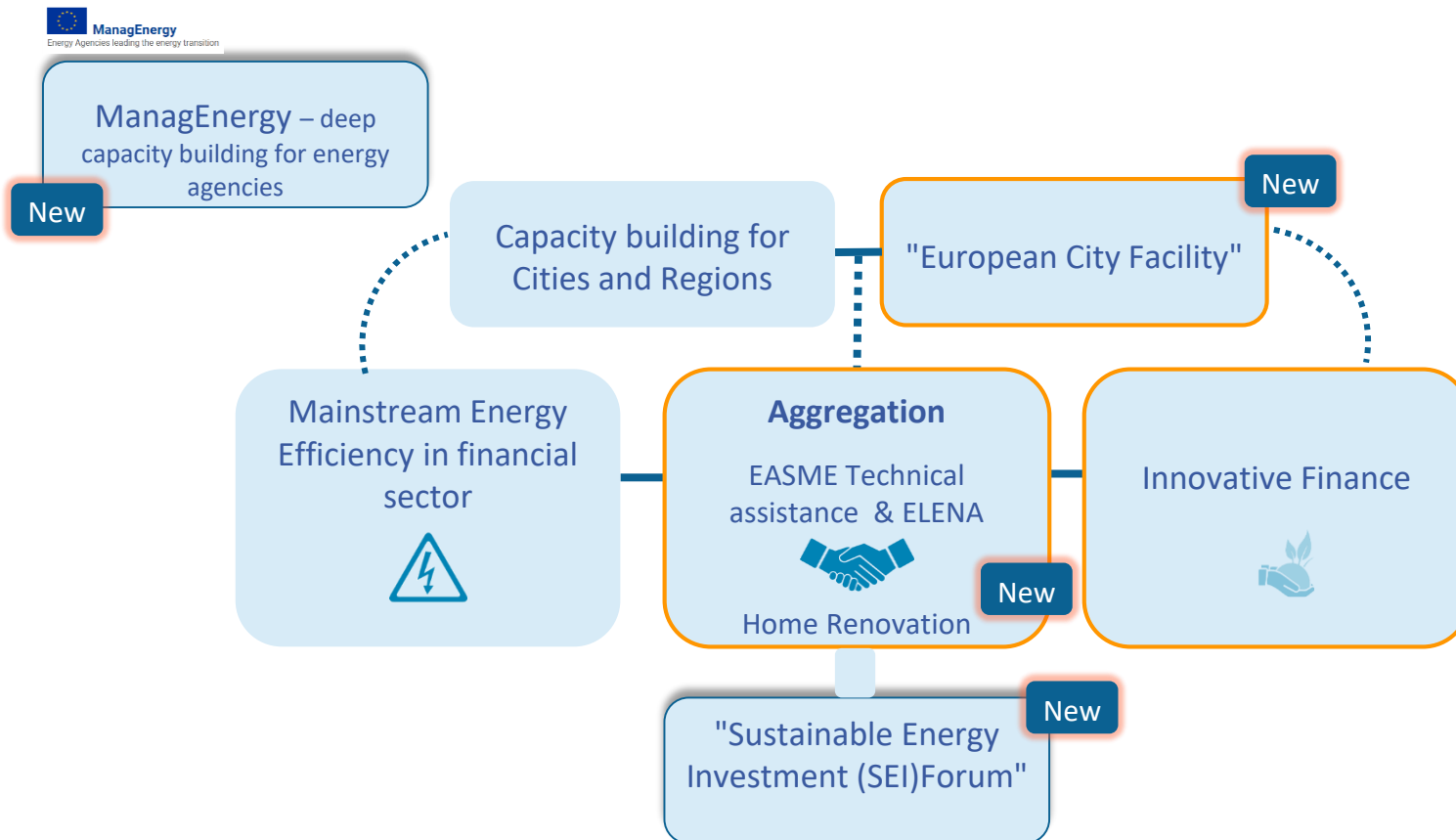
Énergies
POSITIF
Rénovation énergétique et énergies renouvelables





European
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H2020 Funding for financing the local energy transition



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EuroPACE

Platform to boost energy efficiency investments in homes and commercial buildings (ES, PL, IT, UK) - Ongoing



- Innovative Financing
 - Integrated Home Renovation Service offer
 - 100% up-front financing
 - Long-term financing, up to 20 years
 - Repaid with regular property taxes
- Pilot in Olot (Catalonia, ES)
- Assess market readiness and scale up across EU (AT, BE, ES, IT, NL, PL, PT, RO)

- Financing attached to the property:
 - can be transferred to a new owner upon sale
 - Possibility for long term planning
- Importance of the performance achieved **but also** of the quality of services
 - Stakeholders engagement is key (homeowners and contractors)
- Debt attached to the energy counter could also be explored

To conclude

- To reach the ambition of (faster) energy efficiency progress, markets need to be structured
- Action turns into policy
- Lessons learned are precious for European sharing
- Energy efficiency capacity and finance ambassadors – but a lot more is needed



More information

- Call for proposals 2019 (**deadline 03/09/2019**)
 - EE-2 Integrated home renovation services * : <https://goo.gl/iZer9U>
+ **Dedicated Webinar**: <https://youtu.be/83wFiDSirul>
 - EE-9 Innovative financing for energy efficiency investments: <https://goo.gl/rDZq21>
 - EE10 Mainstreaming energy efficiency finance: <https://goo.gl/i6Hd79>
 - EE-11 Aggregation - Project Development Assistance * : <https://goo.gl/nQqjqR>
- SEI Forums Webpage: <https://goo.gl/csmFQb>
 - Proceedings from all events
 - Webinar: “Financing Home Renovation in Europe”: <https://goo.gl/pWAucs>
 - Webinar: “Home renovation in Europe: The User Perspective”: <https://goo.gl/bV3ENy>
 - Webinar: “Renovation of Public Buildings in Europe”: <https://goo.gl/ejB1j4>
- Questions & Answers: EASME-Energy@ec.europa.eu

* *Single beneficiaries eligible*



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**THANK YOU
FOR YOUR ATTENTION**

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Unit B.1 Horizon 2020 Energy

<https://ec.europa.eu/easme/en/energy>

EASME on Twitter



@H2020EE • @philippemoseley

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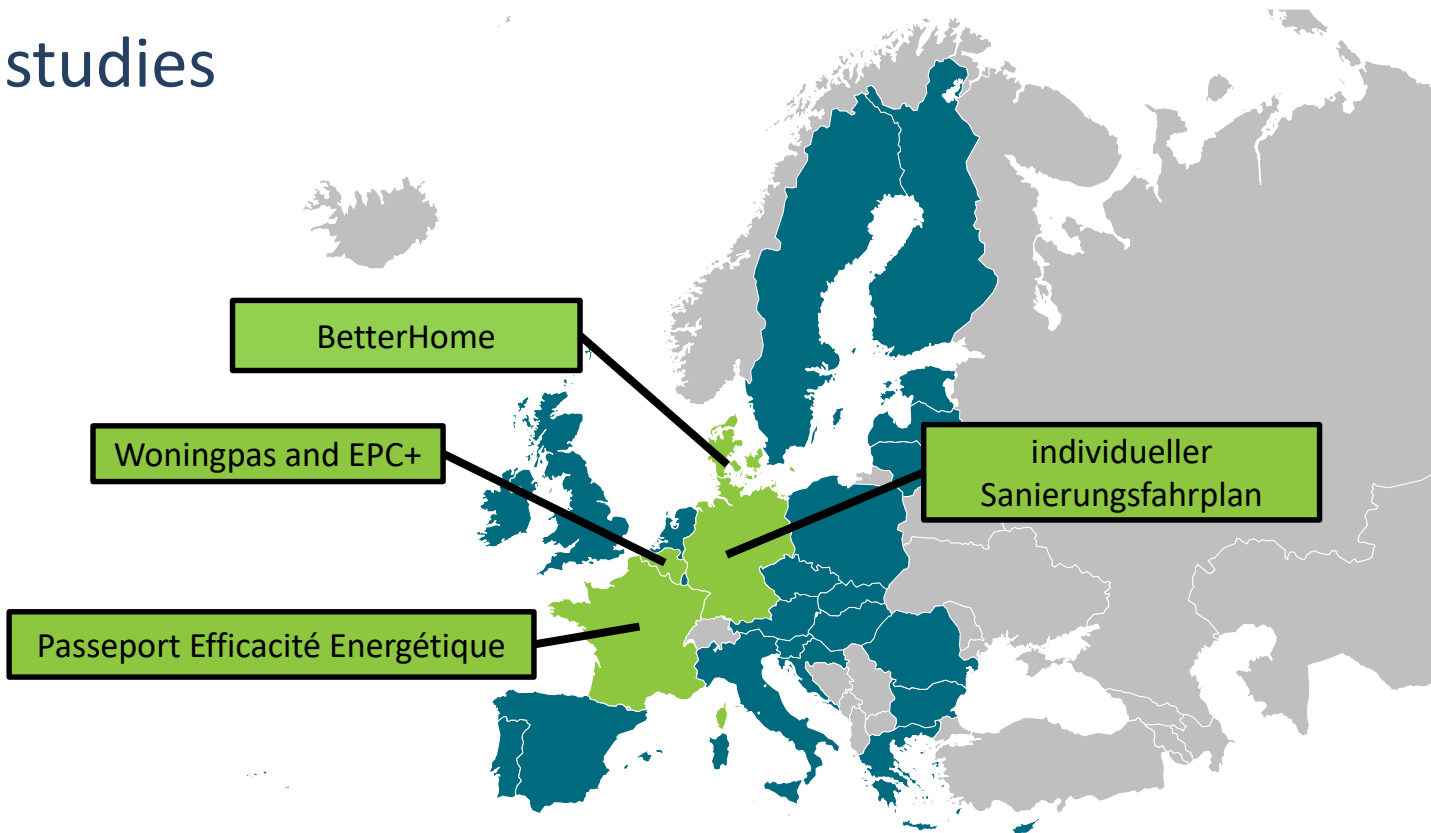
The perspective from the national level – insights into the iBRoad project

Mariangiola Fabbri – Senior Project Manager

*BUILD UP/EuroACE Webinar on new EPBD tools to trigger renovations: building renovation passports
December 11, 2018*

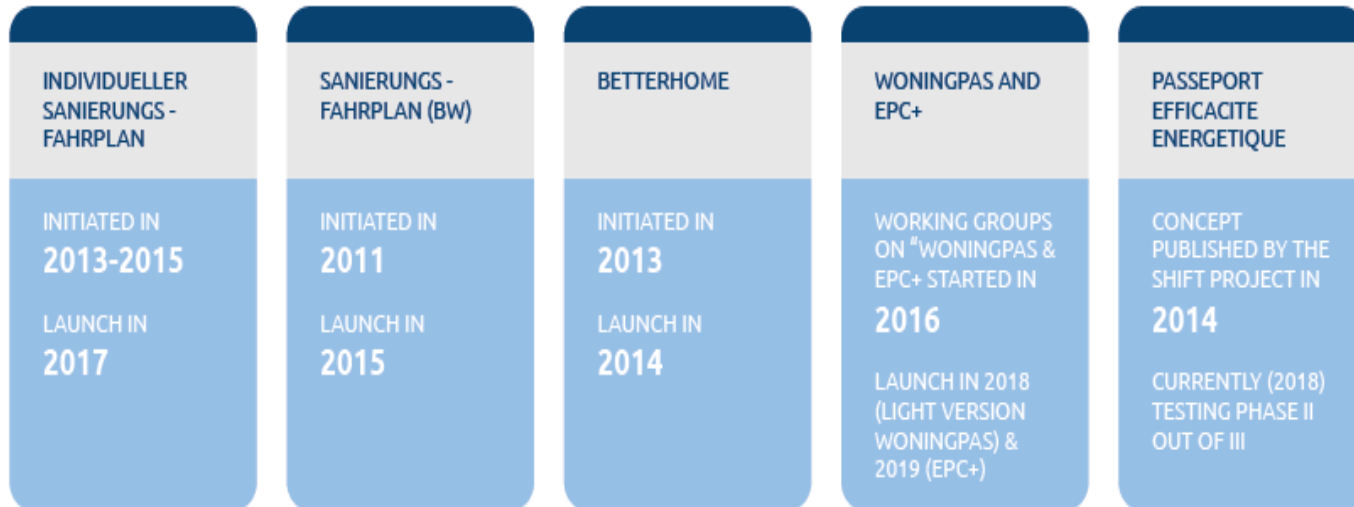


Case studies



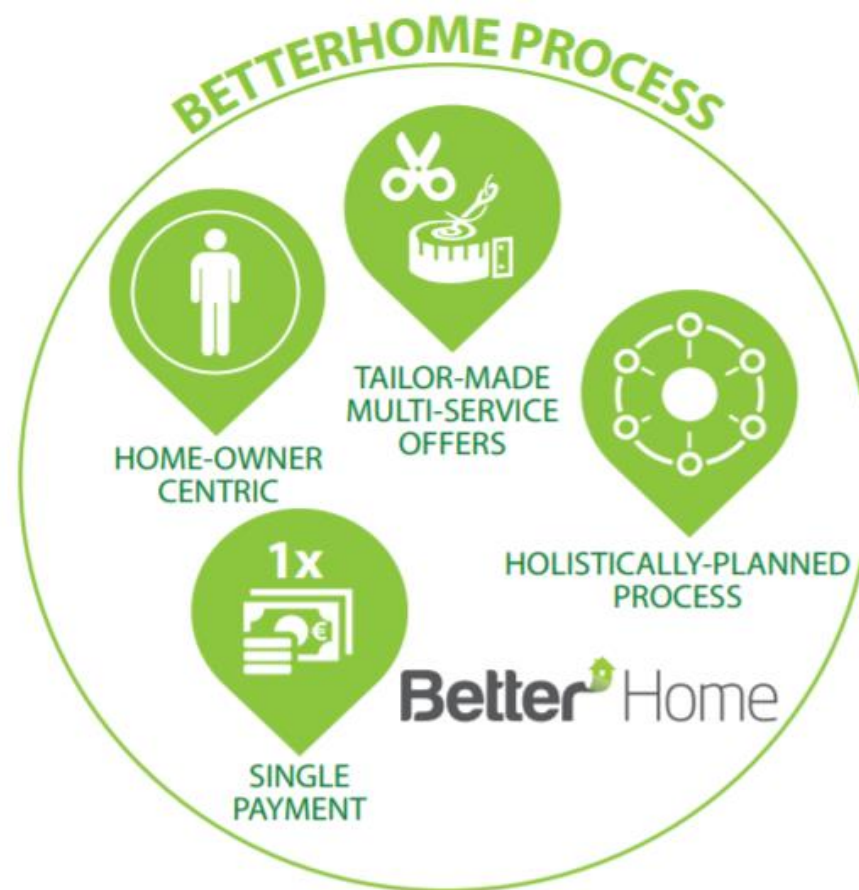


This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N°754045



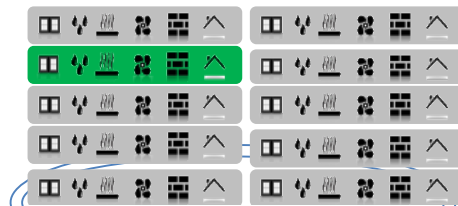
- Voluntary tool: complementary to EPC (EC feasibility study by 2020)
- Ambition: long term renovation targets (deep renovation or long term efficiency levels)
- Customer engagement: owners are at the centre of the process (customised measures)
- Valorise comfort (qualitative indication to facilitate understanding of non-energy benefits)

The BetterHome business model - Denmark



Passeport Efficacité Énergétique - France

b. Performance combinations



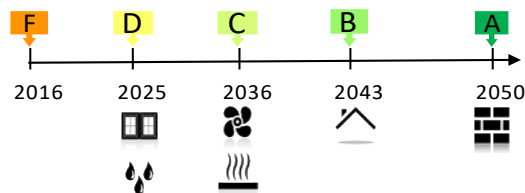
Renovation expert



a. On-site building check



c. Multiannual workplan



d. Renovation roadmap

Individueller Sanierungsfahrplan - Germany

IHR HAUS HEUTE

Im Rahmen der Vor-Ort-Analyse des Gebäudes wurden die hier dargestellten baulichen Ausgangsbedingungen vorgefunden.



Gebäudedaten	
Standort	Mustersiedlt
Gebäudetyp	Einfamilienhaus
Baujahr	1935
geschätzte Wohnfläche	150 m ²
Vollgeschosse	2
Keller	unbeheizt
Dach	beheizt
Baujahr der Heizung	1992
bisher durchgeführte Sanierungen	fenster (1992-04), Dachaufbau (1994), Außenwände (1992)
Nutzung erneuerbarer Energien	-

ENERGETISCHER ZUSTAND

ÜBERBLICK ZUM ISTZUSTAND UND SANIERUNGSBEDARF IHRES HAUSES:

Skala zur Energieeffizienz:



*inkl. Kellerwände



*oberer Gebäudelockschluss



*inkl. Oberfenster



*unterer Gebäudelockschluss



*inklusive Speicherung und Übergabe

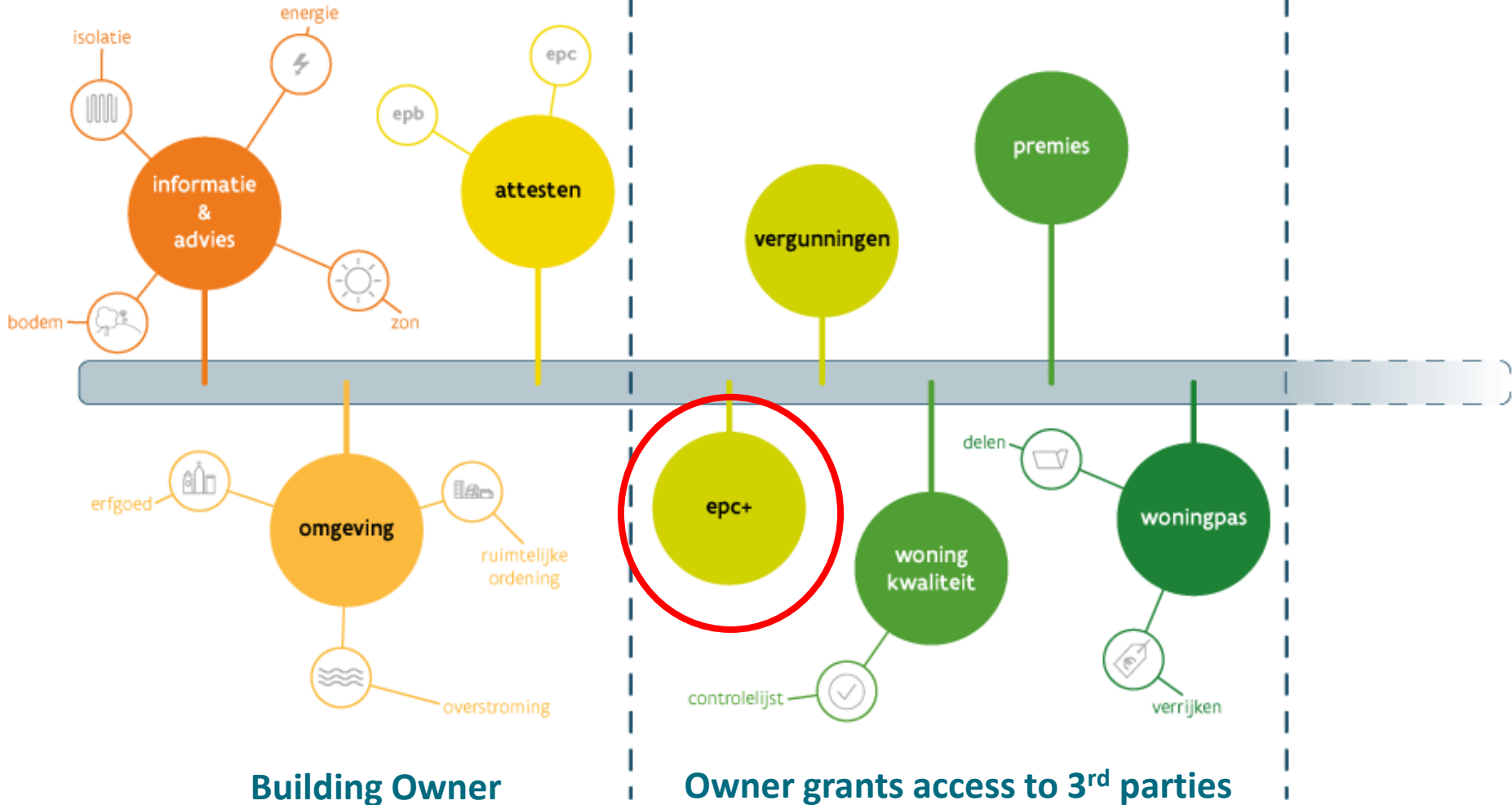
i Die Gebäudesubstanz weist an mehreren Stellen Mängel auf, eine umfassende Gebäudediagnose wird empfohlen.

Woningpas - Flanders

2018: Light

2019: Medium

2020: Full



It's all about the users



- Trust in the EPC's for advice on renovation measures is very low in BG (9%), but much higher in Portugal (47%)
- In Poland most building owners planned to finance the renovation with their own savings (84%)
- 51% of Portuguese households are more concerned about having a warm and comfortable home than saving energy
- Majority of households in BG, PT and PL (>75%) finds it essential to have a plan to renovate over time to renovate problems
- Almost half of PL households is interested in a BRP, but are not willing to pay



Thank you...

Mariangiola Fabbri

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