



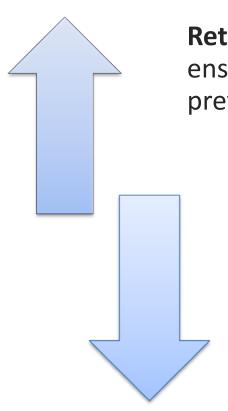
# **Energy efficient Mortgages Action Plan (EeMAP) Initiative**

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## Underlying Market Characteristics Impacted by Energy efficiency (EE)



**Retrofitting impacts** positively on property value ensuring **wealth conservation** & **loss mitigation** by preventing "brown discount"

**EE** leads to a reduction in the impact of energy costs to income, reducing borrowers' **probability** of default

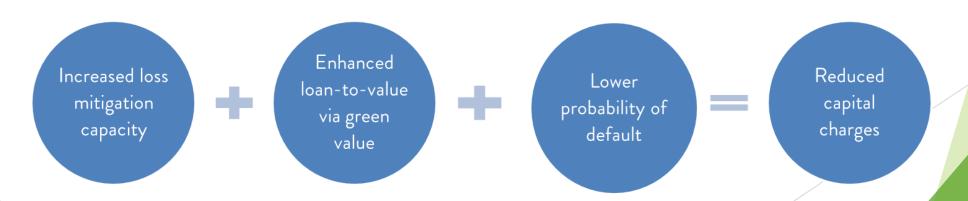


## **Objective & Underlying Business Case**

The **ultimate objective** is a pan-European private bank financing mechanism, based on a standardised approach, to encourage energy efficient improvement by households of the EU's housing stock by way of financial incentives linked to the mortgage, and in this way support the EU in meeting its energy savings targets.

Independent from, but complementary to, public funds or tax incentives

#### **Underlying business case**





#### **Incentive Chain**

#### **Borrower:**

- Lower energy bills
- Energy Efficiency Behaviour
- Lower interest rate on mortgage for energy efficient property
- Free capital for retrofitting



#### **Issuer/Originator:**

- Access to funding cost advantages
- -Increased loss mitigation capacity
- Lower capital requirements as a result of lower PD
- Reputational benefits



#### **SME/ Real Economy:**

- SMEs active in the retrofitting of buildings and dwellings to become more energy efficient
- Juncker Plan



#### **Society:**

- Reduction in energy consumption
- Wealth conservation
- Reduction in greenhouse gas emissions



#### **Investor:**

- Diversification of investor portfolio
- Allocation of energy efficient investment buckets
- Green added value vs brown discount



#### **Government:**

- Pan European plan to stimulate energy efficient investment in residential property
- Improvement of existing housing stock
- Compliance with 1997 Kyoto Protocol COP21
- Access to quantitative & qualitative database on energy efficient mortgages & covered bonds



### **Broader Perspective**

#### **Better Risk Management:**

- Lower Credit Risk: Due to reduced probability of default
- and loss given default
- Lower Asset Risk: Due to "green value" and protection against "brown discount"
- Lower Performance Risk: Due to robust assessment of EE improvement ensuring lower energy consumption and "green value"

#### Financial Stability:

- Increased due diligence for consumers, issuers and investors
- De-risking of banks' balance sheets and management of non-performing loans
- Enhanced transparency and pricing in the market

#### **Jobs and Growths:**

- Improvement in private investment in EE improvement via retrofitting
- Support for SMEs and contribution to job agenda under Junker Plan



## **Energy Efficiency Impact on Property?**

Every time a house moves up a notch in energy performance, its price gets around the same boost that it would from an extra 10-15 m<sup>2</sup> in size

#### *EE jump = Gain of €24,000 over 30 years:*

A renovated house that moves from an 'E' to a 'B' notch in its energy performance certificate (EPC) will save an estimated €24,000 over 30 years according to an analysis of 365,00 house sales in Denmark last year

#### *EE notch=* €5,400/€7,400 *for an average* 100 m<sup>2</sup> *property:*

Each one-notch energy improvement from G-A is worth between €5,400-7,400 to an average 100 m² property according to a Copenhagen Economics Study for the Danish Energy Agency

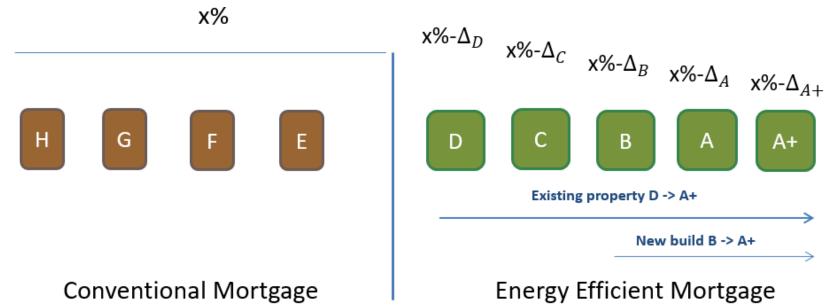
#### Correlation between EE and sale price?

■ A European Commission assessment in 2013 found that in Vienna, a one-notch EPC improvement corresponded with an 8% rise in the sale price. In Flanders (BE), the equivalent of a one-notch upgrade was found to trigger a 4.4% rise in property value, while for Marseille and Lille (FR), the figure was 4.3%.



### **Methodology - Financing mechanism**

- Key challenge: **to incentivise energy efficient investment in existing dwellings**, which constitute bulk of EU housing stock
- Based on a set of EE indicators, lenders could offer:
  - > New Builds: Discount in interest rate for new builds with energy rating A+/A or B;
  - Existing property: Discount in interest rate according to improvement in energy rating of property between D and A/A+

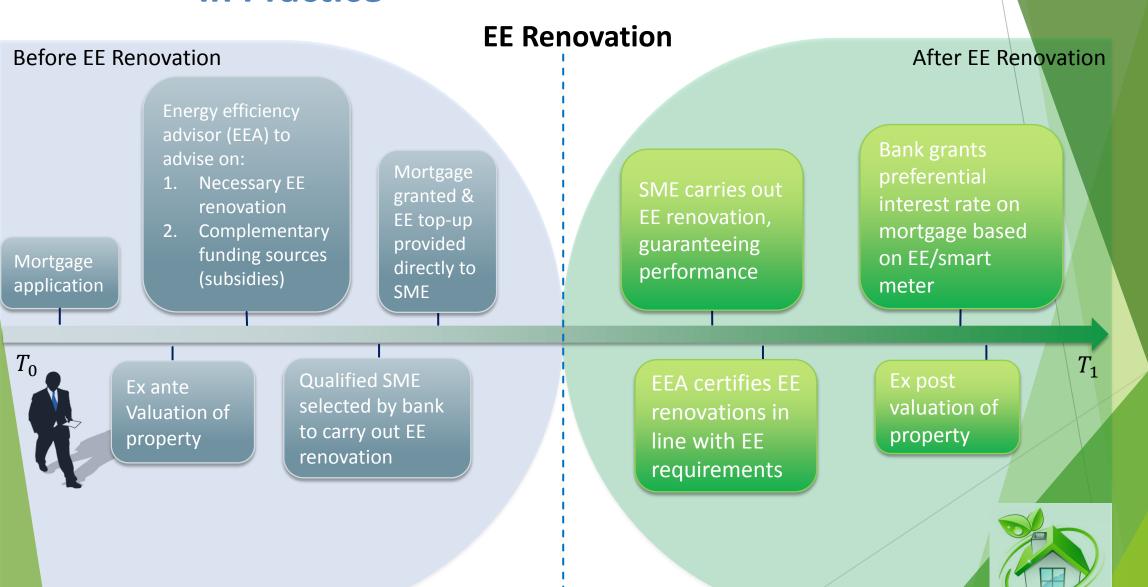


x%: mortgage interest rate EE delta:  $\Delta_{A+} > \Delta_{A} > \Delta_{B} > \Delta_{C}$ 



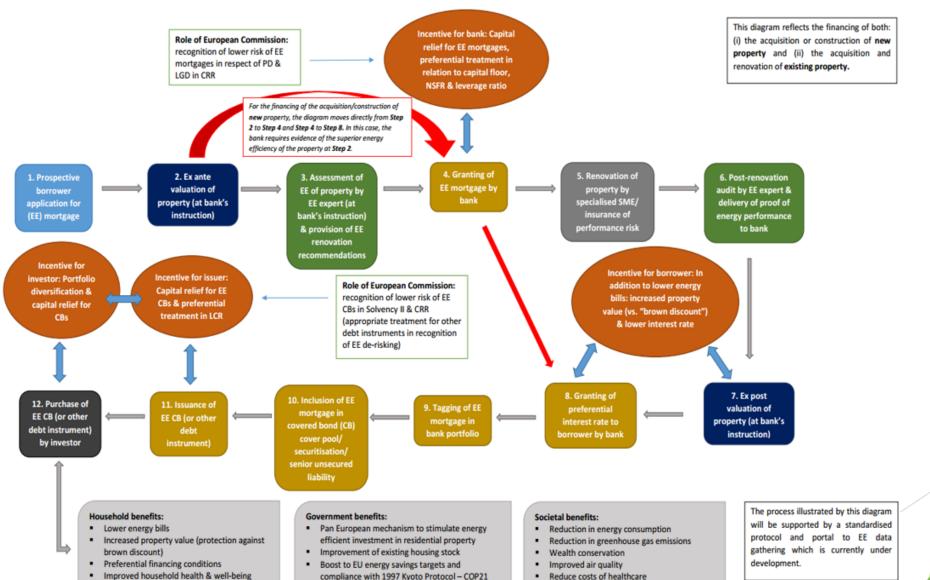
## **Bridging Renovation Gap**

#### - In Practice





## Energy Efficiency & The Mortgage Lending & Covered Bond Value Chain



 Access to quantitative & qualitative database on energy efficient mortgages & covered bonds



## **EeMAP Pilot Phase: Existing Data Analysis & Operational Test Phase**

#### **Phase 1: Analysis of Existing Data:**

- Substantiation of business case
- Focus on correlation between EE and LGD & PD

#### **Phase 2: Operational Test Phase:**

- Deployment of valuation instructions & EE indicators
- Origination of EE mortgage product
- Potential involvement of EIB/EIF
- Data collection

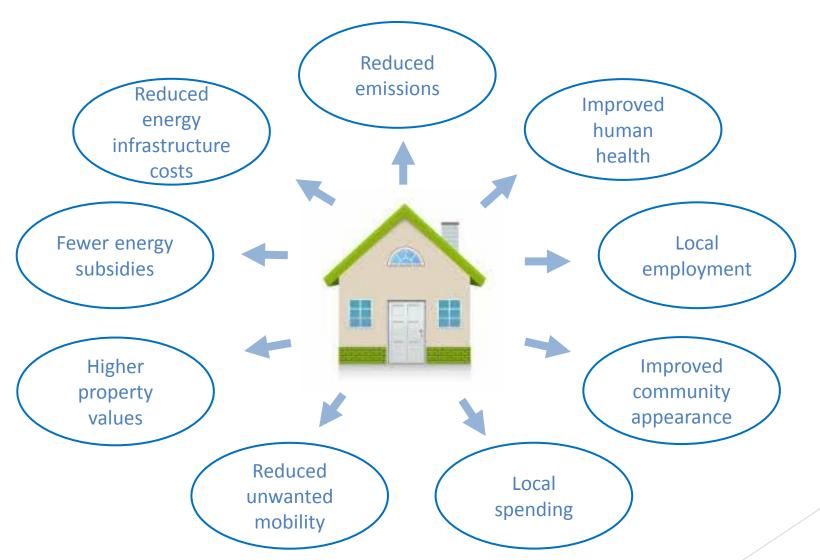
June 2017

June 2018 May

2019



## **Specific benefits from EE in households**





## **Covered Bond Label: Sustainable Covered Bonds**



| Sustainable Covered Bond | • No | o Yes | • All |
|--------------------------|------|-------|-------|
| Search ▶                 |      |       |       |
|                          |      |       |       |

|   | ISIN         | Issuer         | Initial Date of Issuance | Maturity Date | Face value       | Coupon | Syn. | Listed | Tapped | Ext. | EEA" | LCR*** |
|---|--------------|----------------|--------------------------|---------------|------------------|--------|------|--------|--------|------|------|--------|
| 0 | ES0443307063 | Kutxabank S.A. | 22/09/2015               | 22/09/2025    | EUR1,000,000,000 | Fixed  | Yes  | Yes    | No     | No   | Yes  | 2A     |

1-1 of 1 First | < Previous | Next > | Last

Download Results (csv)

- (\*) Please note that the face value of this bond has been converted into EUR values on the 15th of January of the current year (where the exchange rate protocol takes the ECB bilateral exchange rate on the last business day of the previous year) in order to facilitate the comparison across issuances and to increase the overall transparency of the website. Nevertheless, you will be able to check the original currency by directly clicking on the covered bond.
- (\*\*) European Economic Area (EEA) or non-EEA. While all the non-EEA labelled programmes' quality standards will be fully aligned to the Covered Bond Label Convention, to Article 129 of the Capital Requirements Regulation (CRR) and to the definitions in the Liquidity Coverage Requirements (LCR) with the exception of being based in the EEA, i.e. they will present similar legislative safeguards from a qualitative and supervisory point of view to those in Europe, these bonds will present different characteristics, for example in terms of risk weights. Therefore, non-EEA Labels will be identified on the Label website by using a different graphic solution.
- (\*\*\*) The issuer believes that, at the time of its issuance and based on transparency data made publicly available by the issuer, this bond would satisfy the eligibility criteria for its classification as a Level 1 or Level 2 asset in accordance with Chapter 2 of the LCR delegated act. It should be noted that whether or not a bond is a liquid asset for the purposes of the Liquidity Coverage Ratio under Regulation (EU) 575/2013 is ultimately a matter to be determined by a relevant investor institution and its relevant supervisory authority and the issuer does not accept any responsibility in this regard.
- Sustainable covered bond. A Covered Bond Labelled sustainable covered bond is a covered bond that is fully compliant with the Covered Bond Label Convention, and also includes a formal commitment by the issuer to use an amount equivalent to the proceeds of that same covered bond to (re)finance loans in clearly defined environmental (green), social or a combination of environmental and social (sustainable) criteria. Covered Bond Labelled sustainable covered bond programs are based on their issuer's sustainable bond framework which has been verified by an independent external assessment. The issuer strives, on a best efforts basis, to replace eligible assets that have matured or are redeemed before the maturity of the bond by other eligible

[Against this background, please note that the EMF-ECBC is currently working on market initiatives which will ultimately define European criteria for energy efficiency covered bonds and sustainability standards]



## The Energy efficient Mortgages Action Plan

### - EeMAP - is an initiative by













