





# The iBRoad "pitch"

# A concept for the Building Renovation Passport

Renovating a building can be complex, especially if done in several steps, as most house renovations in Europe. To help home owners, iBRoad has worked on the Building Renovation Passport concept, specifically developing and testing an Individual Building Renovation Roadmap, which provides a customised long-term (5-20 years) renovation plan. This is further supported by a Logbook —a repository of building information such as blueprints, works implemented, energy consumption and production, etc.





























# The iBRoad "pitch"

# A concept for the Building Renovation Passport

Renovating a building can be complex, especially if done in several steps, as most house renovations in Europe. To help home owners, iBRoad has worked on the Building Renovation Passport concept, specifically developing and testing an Individual Building Renovation Roadmap, which provides a customised long-term (5-20 years) renovation plan. This is further supported by a Logbook —a repository of building information such as blueprints, works implemented, energy consumption and production, etc.

### ... and more

In order for the Building Renovation Passport to achieve its full potential impact in practice, surrounding policy instruments are essential. These include economic, regulatory and information instruments supporting a synergistic approach.





























# Building renovation can be a challenge









































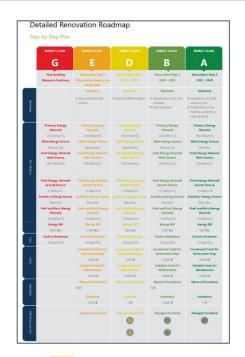
# A plan can help

## **DEEP AND QUALITATIVE RENOVATION**

### **HOLISTIC RENOVATION PROCESS**

### **BUILDING RENOVATION ROADMAP**





Source: iBRoad





























# So can a reference

**iBRoad** Logbook



General and administrative Information related to the building/unit characterization and its user



# **B** - Building Construction Information



**Technical information** and data related to the **building construction** 

# C - BUILDING ENERGY PERFORMANCE



**Energy Information** based on **EPC information** or other energy assessments

## D - BUILDING OPERATION AND USE



Data and information on how the **building is** operated



### E - SMART INFORMATION





 $Source: iBRoad\ project\ report\ "The\ logbook\ data\ quest"\ \underline{https://ibroad-project.eu/news/the-logbook-data-quest/news/the-logbook\ data\ quest''}$ 





























# INFORMATION AT INDIVIDUAL BUILDING LEVEL

EXISTING ENERGY PERFORMANCE CERTIFICATE (EPC)

### **ON-SITE GATHERED INFORMATION**

- Energy audit
- Building professionals, e.g. construction plan, info installations, BIM, etc.
- Building owner or tenant
- Public authorities

### **AUTOMATED DATA**

- Smart meters
- Monitoring systems, e.g. RES, heating, CO<sub>2</sub> meters, etc.

# BUILDING RENOVATION PASSPORT

### **RENOVATION ROADMAP**

- Comprehensive audit
- Systematic renovation in a sensible order and packages
- Considers individual context
- Long-term perspective

### **LOGBOOK**

- Inventory of building-related information
- Functionalities for users
- Beyond energy
- Linking building owners and users to third parties





























# Directive (EU) 2018/844, Article 2a

# Long-term renovation strategy

1. Each Member State shall establish a long-term renovation strategy to support the renovation of the national stock of residential and non-residential buildings, both public and private, into a highly energy efficient and decarbonised building stock by 2050, facilitating the cost-effective transformation of existing buildings into nearly zero-energy buildings. Each long-term renovation strategy shall be submitted in accordance with the applicable planning and reporting obligations and shall encompass:

[...] (c) policies and actions to stimulate cost-effective deep renovation of buildings, including staged deep renovation, and to support targeted costeffective measures and renovation for example by introducing an optional scheme for **building renovation passports**; [...]





















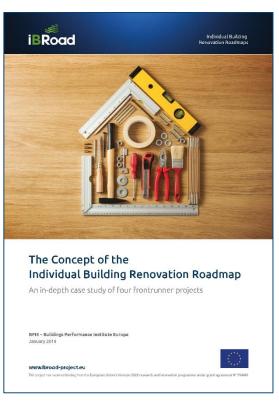








































grant agreement Nº754045

83% of respondents think they can reduce their household's energy consumption through renovation measures

- 92% thinks that energy efficiency will be an important aspect when deciding to purchase a home
- Only **9%** would trust the Energy Performance Certificate for advice about potential renovation measures

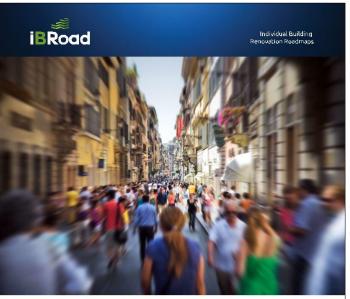




- To finance the renovation, 84% planned to use money that they had saved up
- 44% of respondents in Poland are interested in a building passport or logbook for their home or the home they would buy but would not be willing to pay
- 71% have completed a renovation in the past five years

**POLAND** 



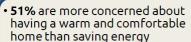


### Understanding potential user needs

A survey analysis of the markets for Individual Building Renovation Roadmaps in Bulgaria, Poland and Portugal

March 2018

www.lbroad-project.eu



This project has received funding from the European Union's

- 47% would go to the Energy Performance Certificate for advice about renovation measures
- 49% think that potential buyers should be allowed to access the logbook with all relevant information about the building

























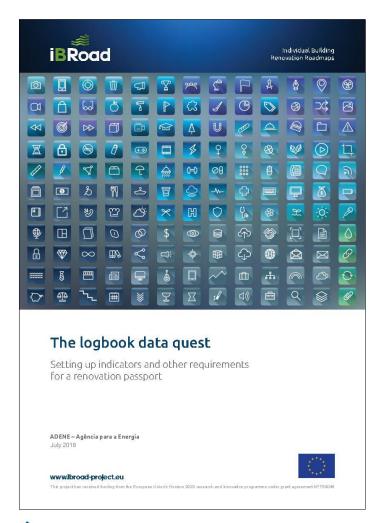




































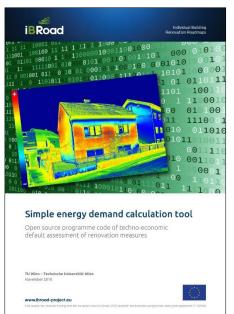


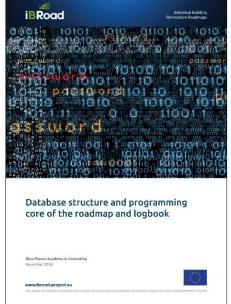












































### **iBRoad Stakeholders Meetings**

Key Notes and Findings of 1st physical events round

INZEB September 2018

www.ibroad-project.eu

























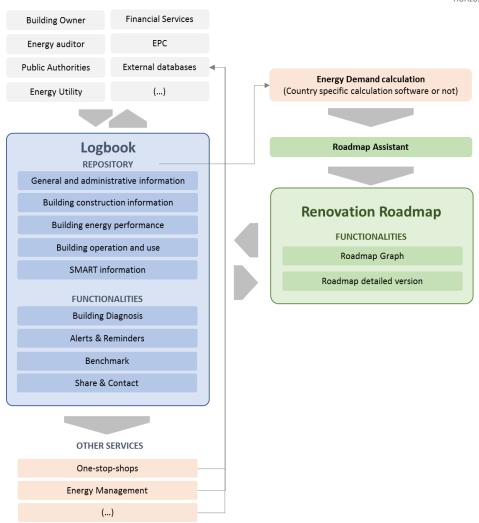
Data Sources/Receivers





# This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement №754045

# Main concept





















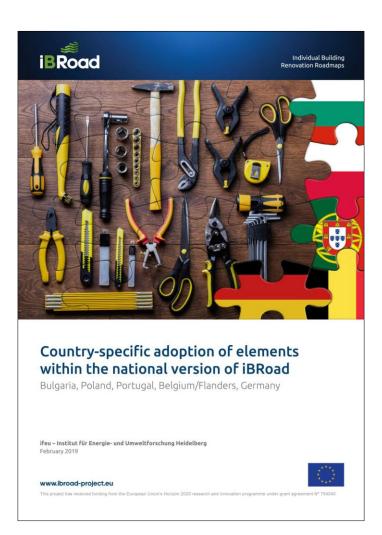






























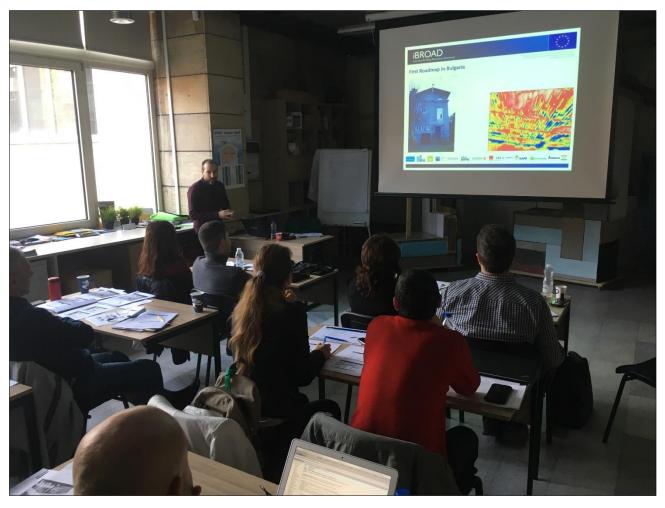
































































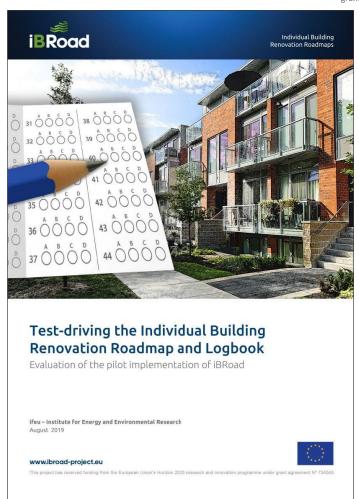






























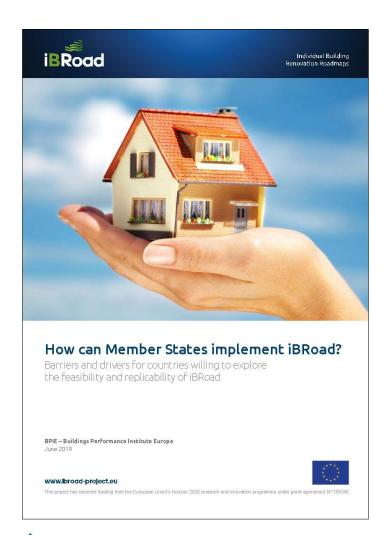














### Stepwise and structured

Surrounding policy instruments to support the iBRoad approach for building renovation take-off

ifeu - Institute for Energy and Environmental Research September 2019

#### www.ibroad-project.eu































Home » Results » Reports

### Reports



#### Quantifying home renovation

This iBRoad output provides a default database supporting a generic techno-economic assessment of renovation measures. The default database consists of a...

#### **Read More**



### iBRoad develops code on energy demand calculation

The iBRoad project has made available an opensource programme for the techno-economic assessment of renovation measures and alternative renovation pathways of a building...

#### Read More



#### The iBRoad training toolkit

The iBRoad Renovation Roadmap and Logbook are subjected to field testing in the pilot countries, Bulgaria, Poland and Portugal. By...

#### **Read More**



SEARCH

#### QUICK ACCESS

At a glance Info material

**Expected Results** 

#### IBROAD ON TWITTER

New renovation rules will require existing homes to be twice as energy efficient as current standards in Ireland energyindemand.com/2019 /10/04... via @wordpressdotcom

About a month ago from iBROAD RenovPassport's Twitter via Twitter Web

SUBSCRIBE TO IBROAD **NEWS ALERT** 

EMAIL\*:

# www.ibroad-project.eu



**(** 



























# After this webinar

- ✓ Please visit www.ibroad-project.eu
- ✓ To be informed about iBRoad developments, subscribe to our **News Alerts**.
- ✓ To learn more on the topics that interest you, download our **reports**.
- ✓ The iBRoad **final conference** will take place in 6 May in Brussels. Further information will follow via our website and News Alerts.
- ✓ If you have proposals for iBRoad to be presented further, or are considering the potential implementation of building renovation passports (roadmaps and/or logbooks) in your country or area, get in touch with us via contact@ibroad-project.eu or the contact form on the website.

























