

Building Energy Ratings and Building Renovation Passports in EU renovation

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Efficiency

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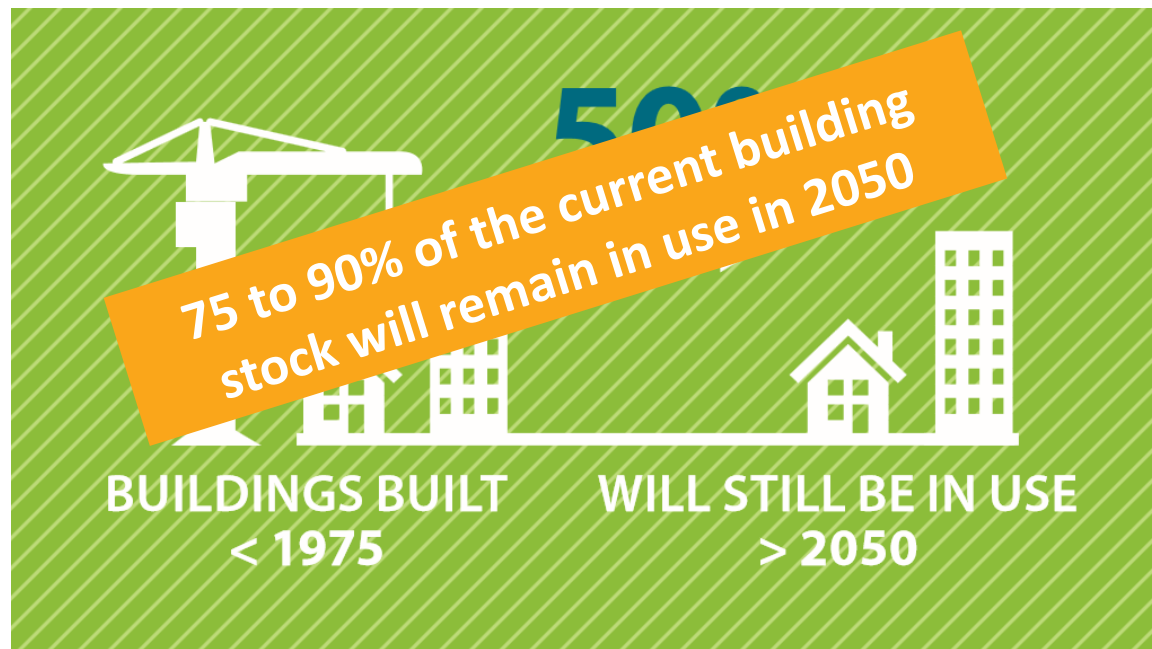


90%

of our time is spent indoors

97% of EU buildings is not future proof

Main EU challenge: Renovation of existing building stock

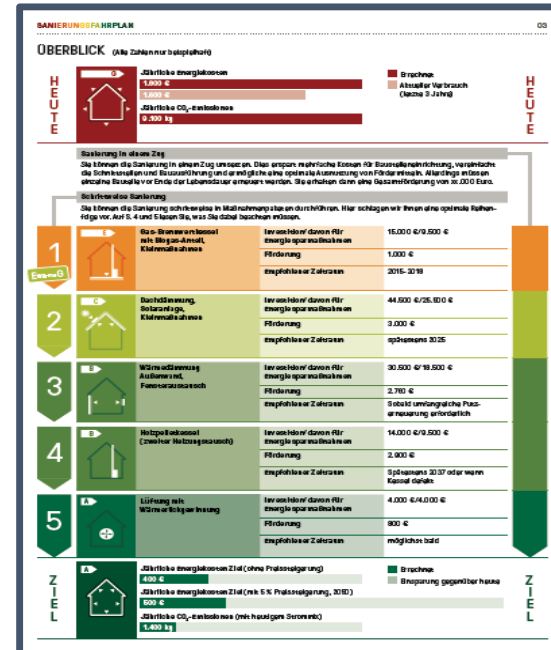


Which renovation?

DEEP RENOVATION

HOLISTIC DEEP RENOVATION

STAGED DEEP RENOVATION



Energy Performance Certificate in EU legislation

□ EPBD I (2002/91/EC)

- Integrated EPC methodology
- Mandatory energy performance certification system for new and existing buildings;
- Display of EPC for buildings occupied by public buildings (>1000 m²)

4 January 2009; deadline
for implementation of EPBD I



2000 2005 2010 2015 2018

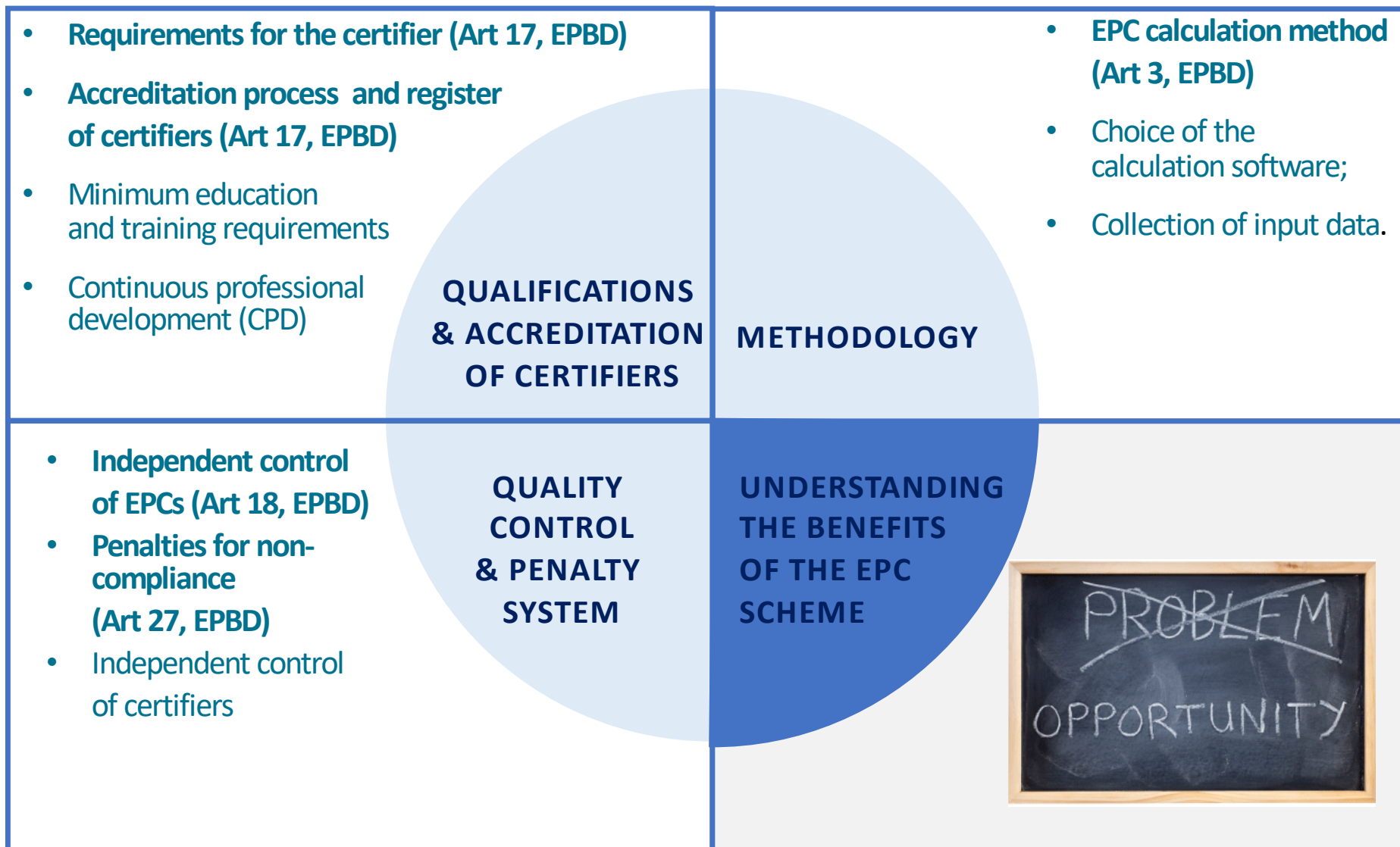
□ EPBD (2010/31/EU)

- Independent quality control of EPC (Art.18)
- Penalties for non-compliance (Art . 27)
- **Display of the energy label in the advertisements**
- **Display of the EPC on the frequently visited public buildings (>500m²; >250 m²)**
- **Mandatory requirement to hand out the copy of the EPC at the sale and rent transactions**
- Improvement in EPC recommendations (cost effective and cost optimal measures)
- Verification of expert competence in the accreditation procedure

9 January 2013; deadline
for implementation of EPBD

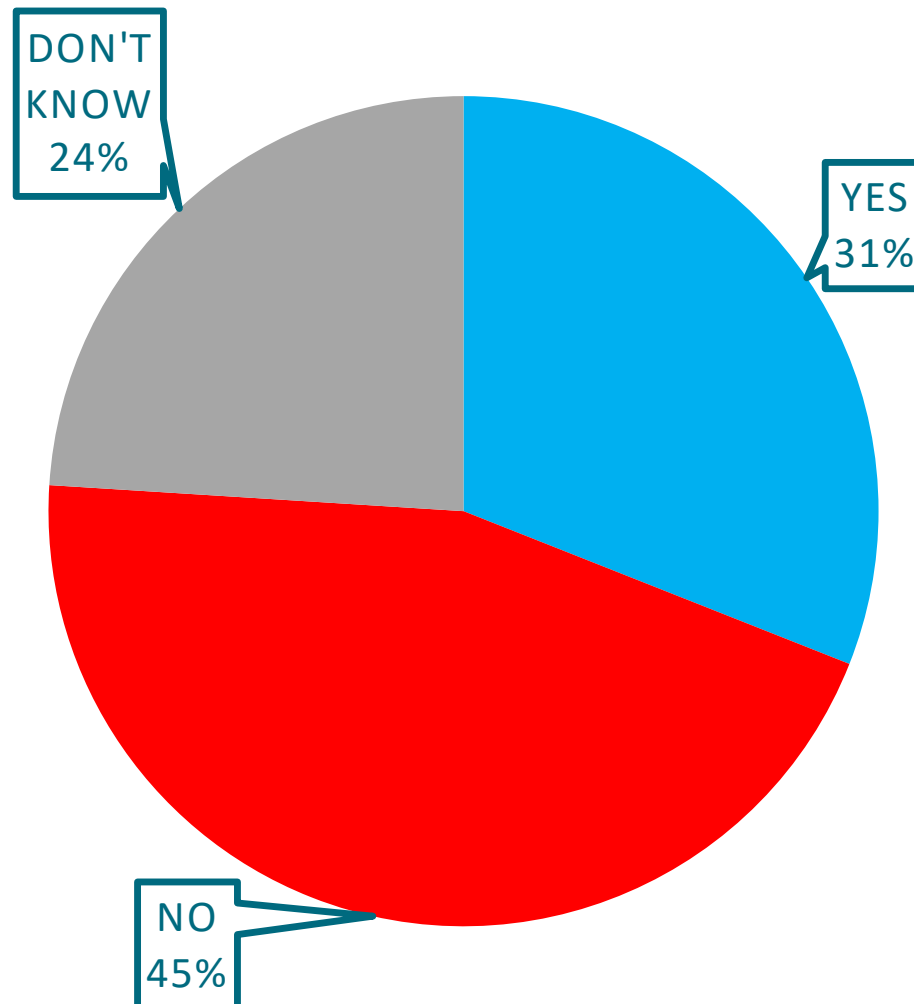
□ EPBD (2018/844)

How to ensure quality of EPC?



EPC are not driving renovation

Do you think there is a link between EPC's and the improvement of the EE of buildings?



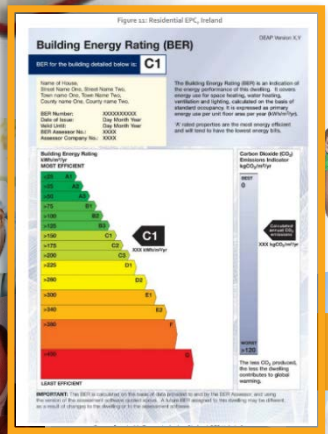
ENERGY PERFORMANCE CERTIFICATE
 Informs potential buyers/
 tenants



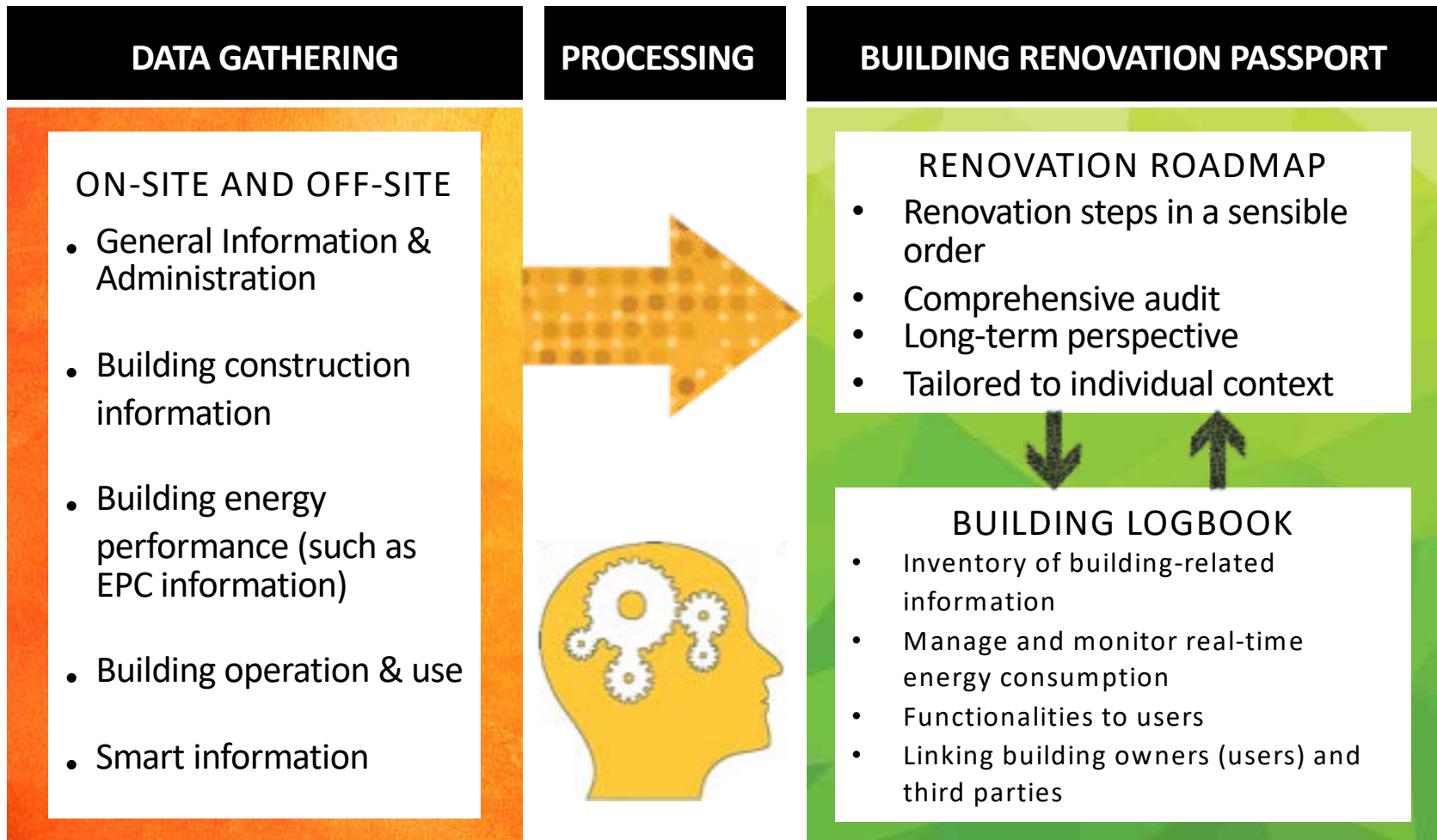
BUILDING RENOVATION ROADMAP
 Personalised guidance for
 (all) owners



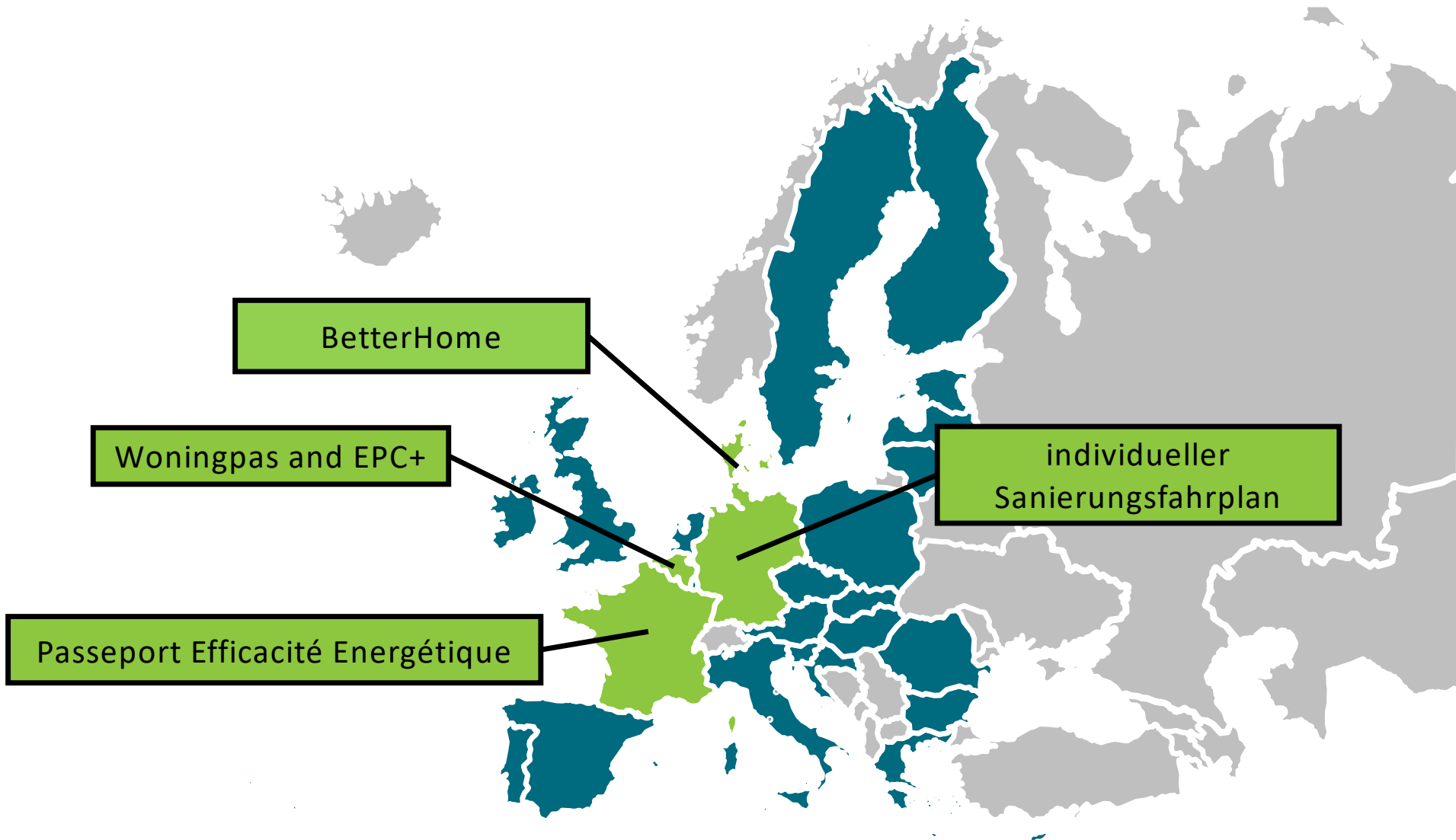
FOR RENT - SALE



What is a Building Renovation Passport?



Case studies



Common features



INDIVIDUELLER
SANIERUNGS -
FAHRPLAN

INITIATED IN
2013-2015

LAUNCH IN
2017

SANIERUNGS -
FAHRPLAN (BW)

INITIATED IN
2011

LAUNCH IN
2015

BETTERHOME

INITIATED IN
2013

LAUNCH IN
2014

WONINGPAS AND
EPC+

WORKING GROUPS
ON "WONINGPAS &
EPC+ STARTED IN
2016

LAUNCH IN 2018
(LIGHT VERSION
WONINGPAS) &
2019 (EPC+)

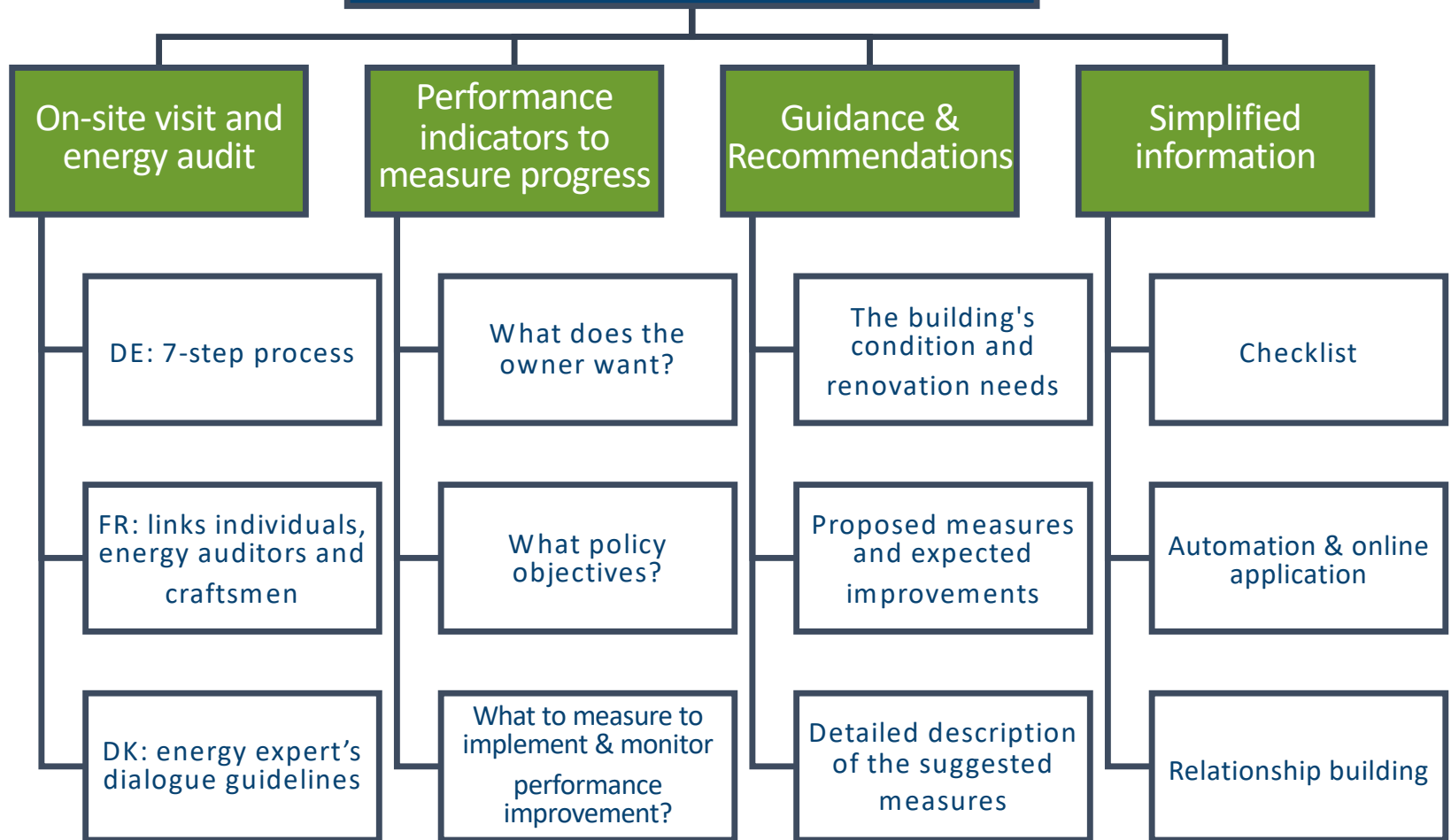
PASSEPORT
EFFICACITE
ENERGETIQUE

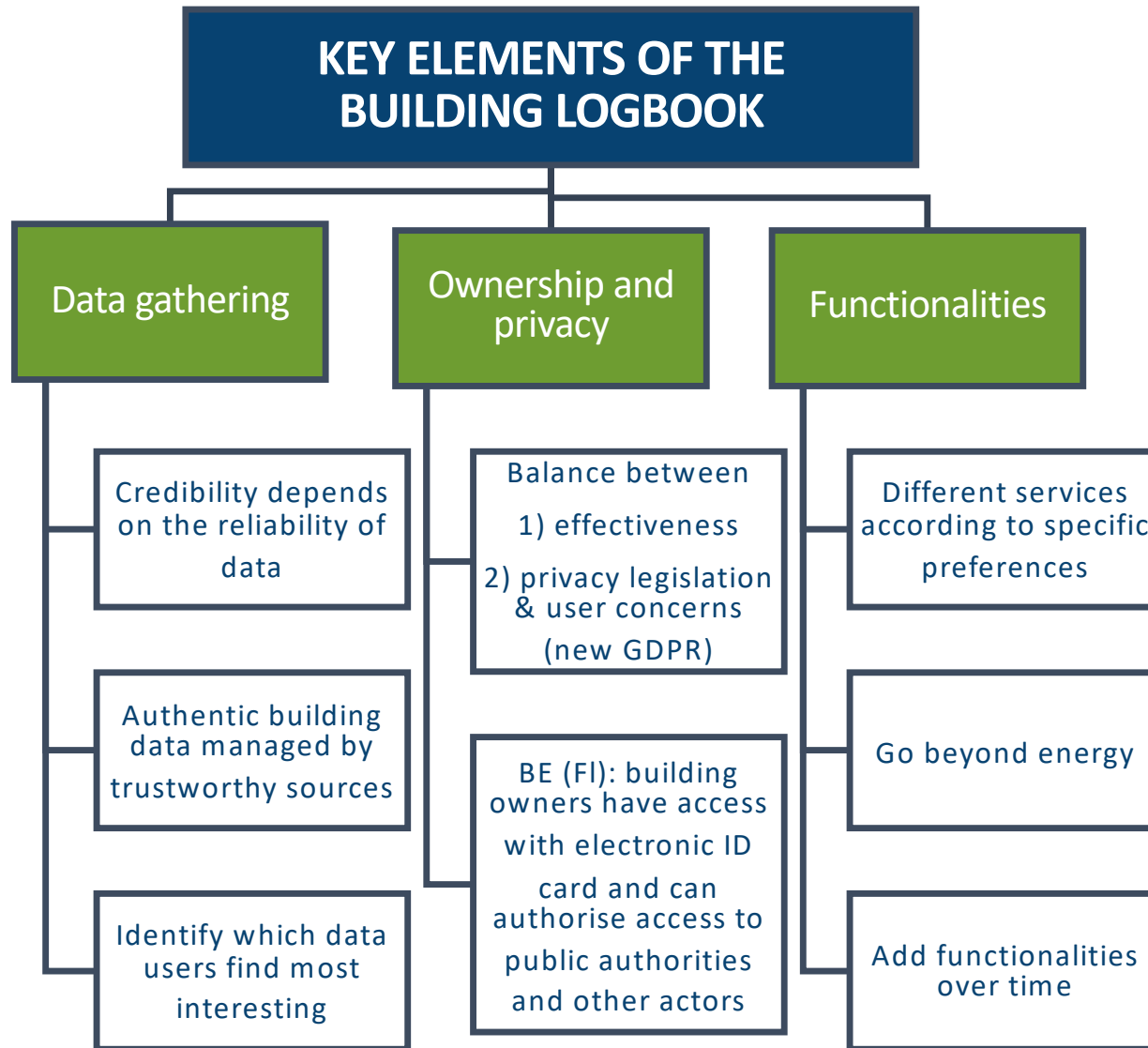
CONCEPT
PUBLISHED BY THE
SHIFT PROJECT IN
2014

CURRENTLY (2018)
TESTING PHASE II
OUT OF III

- **Voluntary tool:** complementary to EPC (EC feasibility study by 2020)
- **Ambition:** long term renovation targets (deep renovation or long term efficiency levels)
- **Customer-oriented:** owners are at the center of the process (customized measures)
- **Valorize comfort** (qualitative indication to facilitate understanding and valorize non-energy benefits)

KEY ELEMENTS OF THE RENOVATION ROADMAP





Flanders: modular roadmap





Thank you...

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