



Deep Renovation: Innovative Market Approaches

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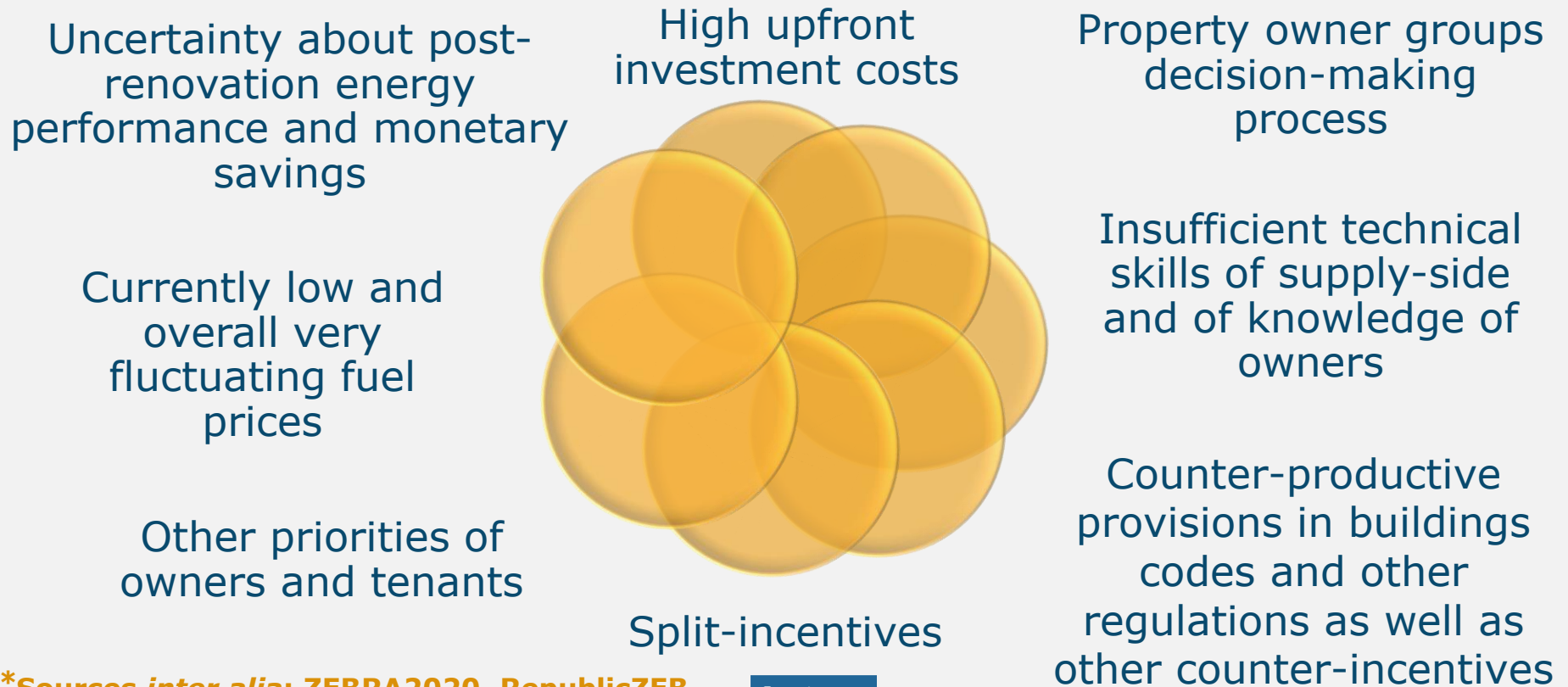
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Main barriers for renovation according to EU projects*:



*Sources *inter alia*: ZEBRA2020, RepublicZEB, Request2Action, LEAF, Evaluation of IEE II Buildings projects (ICF 2017).

Persistent challenges related to NZEB renovation according to EU-funded projects

NZEB compliance monitoring and sanctions regimes need further improvement

The variety of national NZEB definitions and standards make comparisons difficult and several definitions seem not to fully meet the intention of the EPBD

Improvements of credibility, reliability and user-friendliness of Energy Performance Certificates needed

Limited availability of relevant buildings-related data

Limited availability of professional skills

How to overcome the barriers and render deep energy retrofit attractive?

**4 examples for innovative market-based
solutions from EU-funded Intelligent Energy
Europe and H2020 Energy Efficiency projects
focused on market and financial barriers**



- Large-scale energy reduction for non-residential buildings
- Composition of tailor-made packages of renovation measures which as a total fulfil the profitability expectations of the investor
- Based on a concept successful in Sweden rolled out to other Nordic countries
- So far more than 200 renovations with up to 70% energy savings



Total Concept

- Tackling the split incentive in rented dwellings
- Analysing the 'green premium' of energy efficiency renovation
- Developing a tool for investors to calculate cost-optimal energy efficiency investments





- Helping the supply side to develop highly attractive renovation offers
- One-stop concept for step-by-step deep renovation for private residential houses



- Standardised, affordable mass passive house retrofits in record time with minimal disturbance of the tenants and performance guarantee
- Successful Dutch model 'Energiesprong' scaled-up and transferred to the UK and French markets working with social housing associations, suppliers and financiers





Conclusions :



- Deep renovation remains one of the main challenges ahead towards secure, clean and affordable energy for all Europeans
- Continued efforts from research, stakeholders, market actors, the EU and its Member States needed to overcome the high persistent barriers.



THANK YOU FOR YOUR ATTENTION

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