Deep Renovation:
Innovative Market Approaches

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Main barriers for renovation according to EU projects*:

- Uncertainty about post-renovation energy performance and monetary savings
- High upfront investment costs
- Property owner groups decision-making process
- Insufficient technical skills of supply-side and of knowledge of owners
- Counter-productive provisions in buildings codes and other regulations as well as other counter-incentives

Other priorities of owners and tenants

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
• 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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