EPCC RECAST ENERGY PERFORMANCE CERTIFICATE RECAST



R2M Solution – Project goals and ongoing activities K.EY Rimini | 22-24 March 2023









EPC RECAST in a nutshell

H2020 project from 1 September 2020 to 30 June 2024 GOAL: Innovative process and digital toolbox to develop and validate a new generation of Energy Performance Certificates for residential buildings

 \checkmark To facilitate and improve working practices of EPC assessors \rightarrow quality and reliability of EPCs. \checkmark To tailor renovation recommendations, highlight benefits for **building owners** \rightarrow **user-centric** approach



Performing consistent data collection



Enabling data quality checks on-site + online

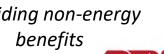


Fostering renovation roadmaps & investments



Providing non-energy benefits





11 partners



Research centers | Energy providers and ESCOs | Companies and assessors | Associations





Main actions and outputs

- Automated data collection and enrichment for EP assessment: on-site scans / public database
- Quality procedures & consistency checks linked with ISO/CEN standards (M/480 mandate): self-checking of input data using expert rules, expert values / data consistency using data crossing tests
- Use of measured energy consumption and deployment of smart meters: model calibration, verification / operational rating indicators
- Information sharing, common language and data interoperability: digital tools, digital building logbooks, BRPs, SRI, Level(s)
- Co-design of the certificate with building owners / dwellers and assessors: indicators, non-energy benefits, renovation roadmap

→ Implementation of EPC RECAST on **150 pilot dwellings** by **trained EPC assessors**

















EPBD revision (ongoing) \rightarrow Quality checks

Introducing a mandatory minimum set of quality checks at EU scale, including control indicators and data sources

 \rightarrow standardized control report/certificate as an annex to the EPC or a separate document

 \rightarrow self-checking algorithms and consistency tests of EP assessment by EPC assessors to facilitate independent controls

Developed in EPC RECAST in connection with several national EP calculation methods and ISO/CEN Standards

Renovation recommendations on the EPC is represented by a RENOVATION ROADMAP

- \rightarrow backwards from NZEB level = Class A of the EPC
- \rightarrow options are presented to the building owner to avoid lock-in effect
- Deliberate focus on European residential buildings



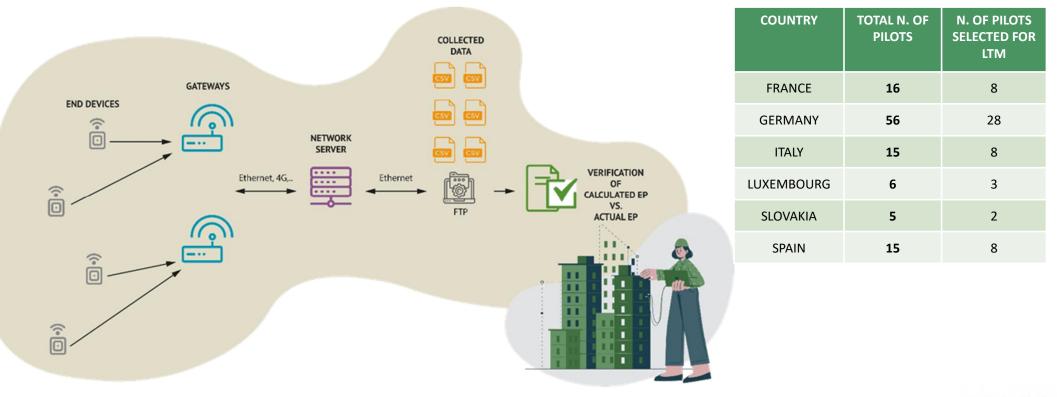








NOW: long-term monitoring process in 6 EU Countries











Long-term monitoring (LTM) process thanks to sensors + data collection via a dedicated platform (powered by Jeedom)



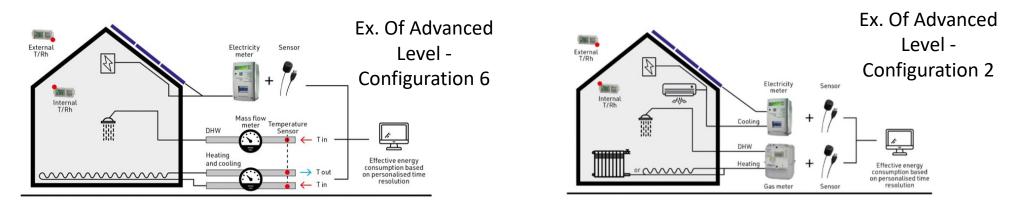








LT monitoring done according to pre-defined configurations



Goals of LT monitoring:

- → Enhance reliability for new EPC generation kWh/m2 y (PE) Heating + DHW + Ventilation
- → Use data for model calibration (measured VS simulation)
- → Normalize climate data (correction of weather / building use)
- → Support consistent measurement of new indicators for EPC (e.g., lighting, IAQ, etc.)









Stay tuned!

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THANK YOU FOR YOUR ATTENTION!

