Task 3.1: Market uptake through certifying bodies: implementation and testing on the nonresidential sector (offices and hotels)



Final event 2020 09 29, Christophe GERARD, Certivea

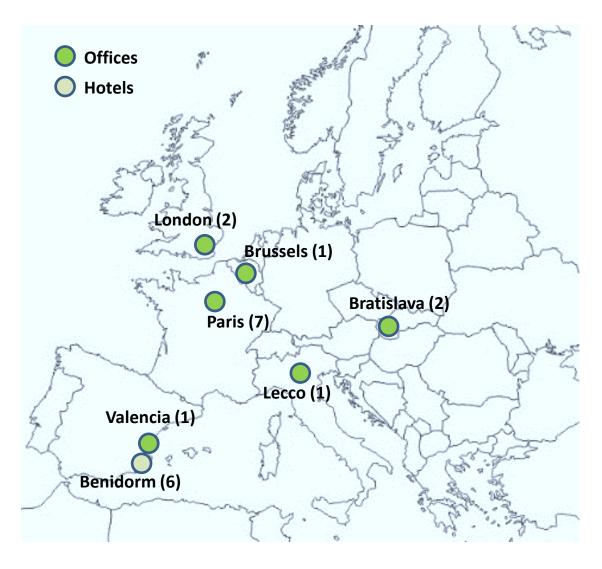
Task 3.1

- 1. Pilot buildings
- 2. Main results
- 3. Main feedbacks and improvements brought by pilot studies
- 4. Market uptake



Pilot buildings

- 20 pilots in 6 European countries
- 14 offices, 6 hotels
- All renovation phases concerned (decision, design, works, operation)
- Average area *: around 11000 m² (≈ 11800 m² for offices and 9500 m² for hotels)
- All ALDREN tasks applied



* GIA: Gross Internal Area (m²)



Pilot buildings

Registration (June 2018 – June 2019)

- Looking for pilots
- Meetings to explain the pilot phase
- Pilot buildings register officially

Data collection and tests (Novembre 2018 – June 2020)

- Collecting data from buildings
- Data collection meetings between ALDREN consortium members in charge of the tests and pilots
- On-site audits/visits
- Exchanges between ALDREN consortium members and pilot teams (design teams, Consultants, building managers, owners) to verify the data completeness
- Test of ALDREN methodologies
- Meetings during the tests between ALDREN members and pilots to optimize tests and discuss about intermediate results

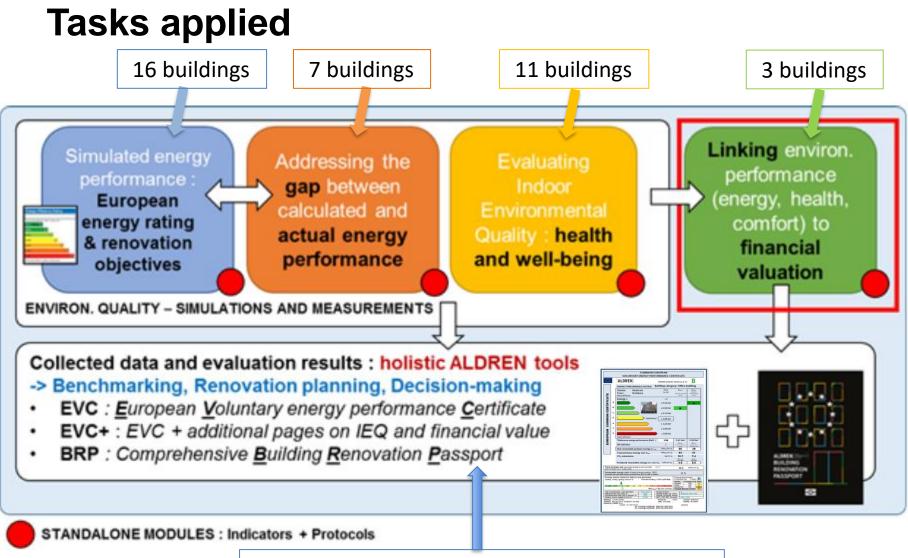
Feedback (July 2020 –

September 2020)

- Meetings with each pilot building to explain results
- ALDREN final event with delivery of the ALDREN pilot "award" (BRP)





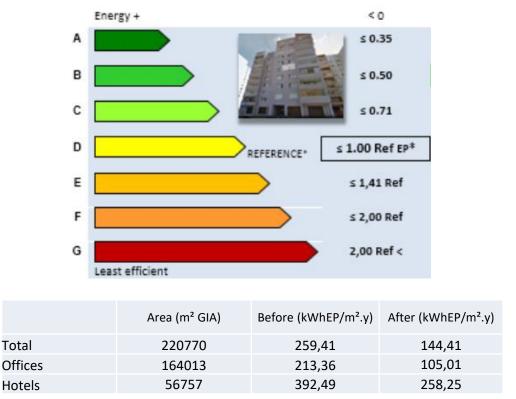


15 buildings (12 for BuildLog and 15 Renomap)





Energy savings triggered by the project (before/after renovation)



-120 kWh_{EP}/m².y (-26.62 GWh_{EP}/y) = Gain of **3 to 4 classes** on EVC rating

Majority of buildings reach Class A or B

Average values: around -110 kWh_{EP}/m².y for offices and -150 kWh_{EP}/m².y for hotels



Renewable energy production triggered by the project

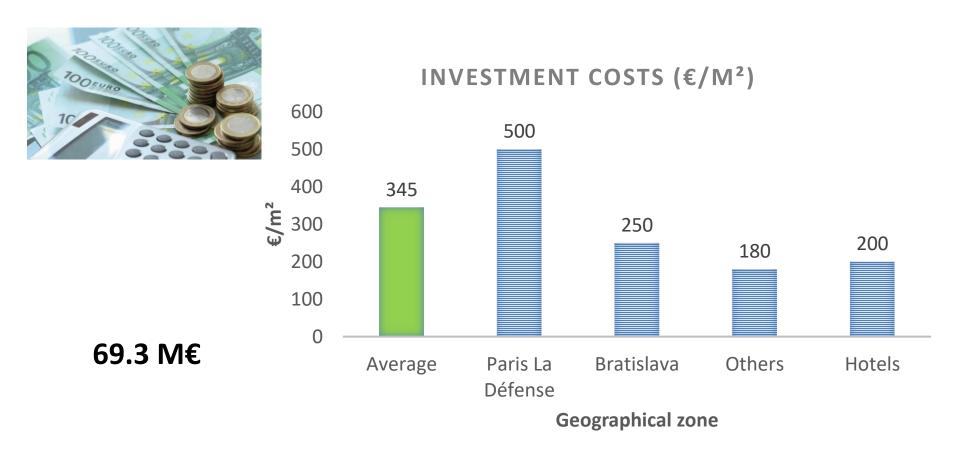


+4.13 GWh_{EP}/y

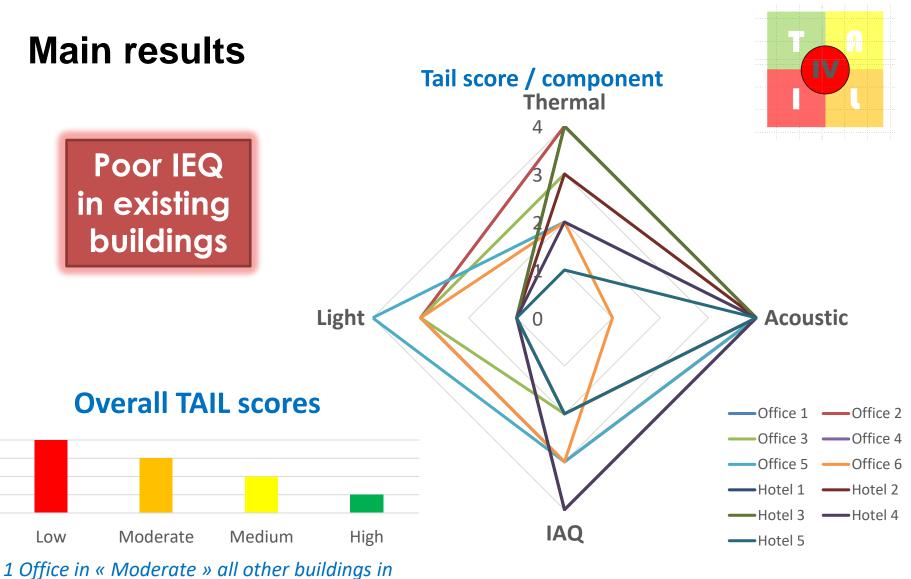
(PV panels, and district heating for 1 pilot)



Investment costs triggered by the project



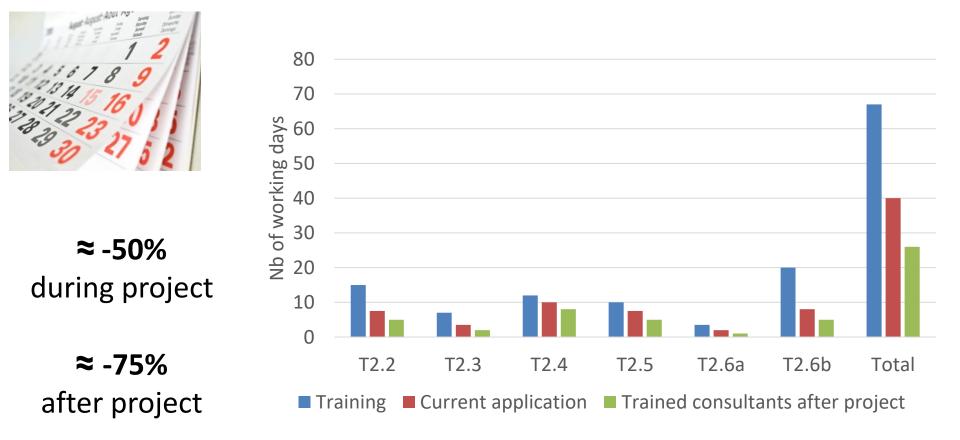




« Low » quality (5 offices and 5 hotels)

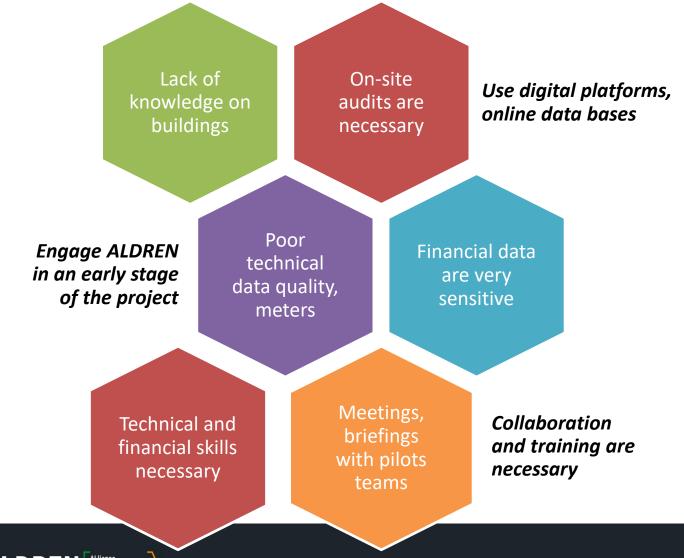


Working days to apply ALDREN tasks on pilot buildings





Feedbacks brought by pilot studies





Some major improvements of ALDREN protocols brought by the pilot studies

Optimization of EVC scale (especially for hotels)

Optimization of assessment classes of Performance Verification Tool

Adjustments of TAIL protocol and addition of PredicTAIL

Adaptation of 2.5 protocol for hotels

Structure of BuildLog

New structure and interactions matrix of the Renomap

Final model of BRP



Interests of pilot buildings owners in ALDREN



Better knowledge of their buildings and their operating



Clear vision of possible performance and renovation actions to reach it in a timeframe



To be competitive in real estate market compared to neighbour new buildings in terms of energy performance, health and comfort



Link between renovation actions and costs / value of the building to discuss with investment / property funds





Conclusions / Market uptake

Owners are ready to apply some of the ALDREN protocols (those interesting for them) on some other buildings or all their buildings

IVE and Certivéa will use ALDREN tools/protocols as parts of requirements or guides in their EVCS

Delivery of EVC rating and BRP

Design teams, consultants are interested to use ALDREN modules in regards of their specific needs

Training courses to develop (financial and technical)









www.aldren.eu

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