



LIFE CET Call 2021

Creating the conditions for a global improvement of smart readiness of European buildings

LIFE-2021-CET-SmartReadiness

*Pierre-Antoine Vernon, Project Adviser,
CINEA, LIFE-CET*



Improving smart readiness of European buildings

Objectives

Type of action: Other Action Grants - CSA (95%)

- Policy objective: smart technologies to ensure that buildings operate efficiently and that they can interact with the building occupants and with the buildings' environment
- Support actions are needed for smarter buildings saving more energy in Europe:
 - The successful implementation of the Smart Readiness Indicator
 - The successful market up-take of the Smart Readiness Indicator
 - The rollout of ICT and smart-ready technologies
 - The protection of privacy and cybersecurity of smart buildings
 - The reduction of energy consumption linked to the use of digital technologies



Improving smart readiness of European buildings

Scope

Member States policies on smart readiness

- Support the implementation of the Smart Readiness Indicator / other legislation on smart readiness in building energy performance regulations.
 - Going beyond the SRI – explore and promote more ambitious implementation paths at national level, such as for example through mandatory requirements.
 - Supporting concrete aspects of the adoption of the SRI by Member States – explore the design of building certification schemes applying the SRI calculation methodology in their national contexts
 - Develop approaches for enhancing the smart readiness of buildings in Member States while maximising synergies with EU regulations and initiatives.



Improving smart readiness of European buildings

Scope

Market uptake and financing of smart readiness

- Support the visibility of and trust in the SRI, while ensuring consistency with EU and national legislation
 - for example through certification and disclosure tools
 - support market uptake by market players
- Explore and develop integrating building smartness to public investment programmes with impact on buildings, e.g. national building renovation schemes
- Demonstrate the market value of smart readiness of buildings
 - Investigate impact on single buildings / building portfolios
 - explore methods to measure the benefits of smart readiness in building portfolio valuation



Improving smart readiness of European buildings

Scope

Digital solutions for smart readiness

- Promote the use of energy-efficient smart systems, technologies and communications
 - in smart buildings and building energy management systems
 - to monitor energy consumption of systems and appliances
- Explore the role, potential gaps and needs with regard to
 - interoperability
 - cybersecurity
 - promote / contribute to EU standards.



Improving smart readiness of European buildings

Scope

Smart readiness as energy performance improvements

- Develop approaches and promote the deployment of technological solution packages that combine energy efficiency measures with smartness upgrades in the construction and renovation of buildings.
- promote the use of tools to monitor energy consumption of systems and appliances in buildings.
- consideration of smart readiness aspects in building energy performance regulations



Improving smart readiness of European buildings

Expected Impacts

- More effective and more ambitious implementation of the provisions related to the SRI in national legislations
- Faster and more comprehensive up-take of the SRI in the market, including consideration of the SRI in valorisation of buildings and buildings portfolios
- Increased share of buildings with smart features, including residential buildings, through suitable financial incentives and the deployment of safe and practical technical solutions and packages
- Increased user acceptance of smart devices towards privacy, security and trust
 - Improved understanding of the operation and behaviour of buildings, technical building systems and appliances
 - Primary energy savings/Renewable energy generation triggered by the project (in GWh/year)
 - Investments in sustainable energy triggered by the project (cumulative, in million Euro)



Improving smart readiness of European buildings

Relevant on-going and concluded H2020 Projects

- 857237 InterConnect
- 723391 P2Endure
- 741223 CRAVEzero
- 766733 TABEDE
- 768619 RESPOND
- 839937 U-CERT
- 956936 SMARTBUILT4EU
- 894240 domOS
- 893240 REScoopVPP
- 847053 StepUP



Thank you



© European Union 2021

Unless otherwise noted the reuse of this presentation is authorised under the [CC BY 4.0](https://creativecommons.org/licenses/by/4.0/) license. For any use or reproduction of elements that are not owned by the EU, permission may need to be sought directly from the respective right holders.

Slide xx: **element concerned**, source: e.g. [Fotolia.com](https://www.fotolia.com/); Slide xx: **element concerned**, source: e.g. [iStock.com](https://www.istock.com/)



Keep in touch with us



https://cinea.ec.europa.eu/life_en



[@LIFEprogramme](https://twitter.com/LIFEprogramme)



[LIFE Programme](https://www.linkedin.com/company/life-programme)



[LIFE youtube channel](https://www.youtube.com/channel/UC...)

