X-tendo aims to support public authorities in the transition towards improved compliance, reliability, usability and convergence of next-generation energy performance assessment and certification of buildings. X-tendo will thus develop a modular toolbox that covers different features of innovative indicators as well as innovative data handling approaches.

To date, the implementation of Energy Performance Certificates (EPCs) varies significantly across Member States in terms of scope and available information, resulting, in some cases, limited reliability, compliance, market penetration and acceptance by the end-users. The Horizon 2020 project X-tendo responds to these challenges by developing and testing 10 innovative features for the next-generation of EPCs. The project supports public authorities in 9 European countries (Austria, UK, Italy, Denmark, Estonia, Romania, Portugal, Poland and Greece) in revamping their existing EPC schemes.

X-tendo features

- Innovative Indicators
  - Smart readiness indicator
  - Comfort
  - Real energy consumption
  - Outdoor air pollution
  - District energy systems

- Innovative data handling approaches
  - EPC databases
  - Building logbook
  - Tailored recommendations
  - Financing options
  - One-stop-shops
Each feature will be tested against four cross-cutting criteria:

**Quality and reliability of EPCs**
How to ensure high quality and reliable energy performance assessments in practice?

**User-friendliness**
How to meet end user needs and expectations?
How to ensure a smooth transition from static and paper-based documents to digital and more dynamic information platform?

**Economic feasibility**
How to ensure that features make economic sense?

**Consistency with ISO/CEN standards**
Which are the standards relevant for the different features? How to enhance consistence with ISO/CEN standards?

X-tendo promotes better, reliable, user-friendly, and more engaging EPCs. As such, the X-tendo toolbox will increase the trust in the energy performance assessment and certification, that will likely improve the market acceptance and uptake of the tool. The increased trust and transparency will in turn lead to an increased renovation rate, creating extra jobs in the construction sector and a boost for economy.

This project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No 847056.