crossCert

Next-generation of Energy Performance Assessment and Certification

This project has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement No 101033778

Introduction to crossCERT

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crossCert - Overview

Cross Assessment of Energy Certificates in Europe

Call/Topic: Next-generation of Energy Performance Assessment and Certification (H2020-LC-SC3-EE-2020-2)

Type of action: Coordination and support action

Duration: 1st Sept. 2021 - 31st Ago. 2024 (36 months)

Grant Agreement Number: 101033778

Estimated Project Cost/EU Contribution: € 1,997,557.50

crossCert – Partnership

PROJECT PARTNERS

ES Universidad Zaragoza EREN Junta de Castilla y León

UK HERIOT WATT UNIVERSITY BG EnEffect

SI IRI UL MT MIEMA

GR KAПE CRES DK EC Network

HR REGEA AT AUSTRIAN ENERGY AGENCY

PL KAPE DE Climate Alliance

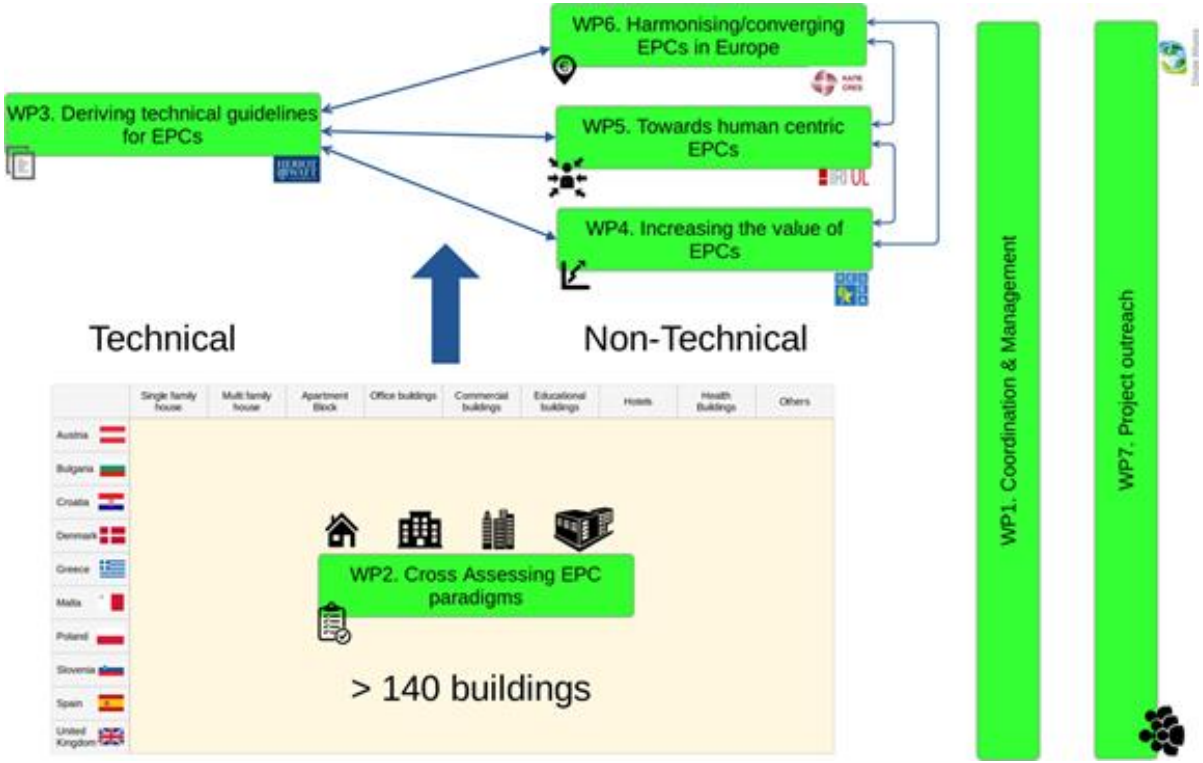
crossCert – Objectives (1)

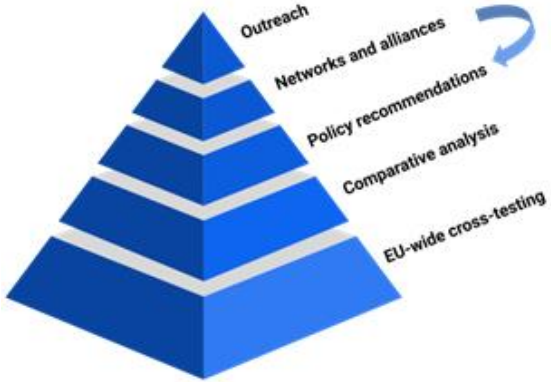
- **Cross-assessment of current and next EPCs** on >140 buildings, to develop:
- **Benchmark repository** of curated building data, certificate results and, where available, measured performance results of buildings.
- **Technical guidelines** for the next generation of EPCs (to reduce the performance gap, to implement the new KPIs, to present the renovation measures to the building owner and to verify and control the EPC quality)
- Guidelines and tools for the **exploitation of EPC data**

crossCert – Objectives (2)

- Guidelines for the design of **people-centred EPCs**, for a better user experience, better training and education of certified EPC issuers and to market new EPCs
- Recommendations for the **harmonisation of next generation EPCs**, based on the cross-testing and assessment of the current and new EPC approaches.
- Web-based EPC knowledge **exchange centre**
- Creating of an EPC **community forum**

Concept and Methodology





Bottom-up concept

WP2 - Cross assessing EPC paradigms

- Central WP, provides material for other WPs
- (1) A cross-section of buildings was selected in each participating country, covering a spectrum of sizes, uses, climatic zones (140 buildings)
- (2) Each team in each country will use their existing EPC procedures to assess the buildings in the cross- section, and the new EPC procedures to assess the buildings in their countries

- Test for: Accuracy, ease of use, robustness against user errors, re-usability of the results.

Buildings for cross-testing exercises

Table 2. Indicative number of buildings per country and per type to be part of the cross-testing exercise.

		Greece	Croatia	Poland	Bulgaria	Malta	Spain	Denmark	Austria	UK	Slovenia
Residential	Single-family house	5	5	3	2	2	2	4	4	20	
	Terraced house					2	2				
	Multi-apartment	5	5	3	2		2	4	4		
Tertiary sector	Educational	5	5	1	2	2	2			3	10
	Office	2		2	4	4	4	2	2		
	Sports hall	1					2				1
	Healthcare			1			2				
	Public assembly					2					
	Social housing						2				
	Retail	2									
	Others						2				
Industrial	Industrial buildings and warehouses		5								
	TOTAL	**20**	**20**	**10**	**10**	**12**	**20**	**10**	**10**	**23**	**11**

WP3 – Deriving technical guidelines for EPCs

Overarching aim:

- **Address technical dimension of EPCs** (inputs, metrics, control/verification etc) to identify improvements and guidelines

Tasks:

- Performance gap assessment
- Analysis of new scales and KPIs
- Evaluation of the renovation measures recommended by EPCs
- Verification and control
- Are new EPC paradigms a significant improvement?

WP4 – Increasing the values of EPCs

Overarching aim:

- **Increase the usefulness of EPCs** by building in additional services based on the data compiled by EPCs.

Tasks:

- Assess how the data of existing and new EPCs approaches can be exploited for its use in: energy audits, national/regional databases (available for policy-making and research), one-stop-shops platforms and broader EPCs concepts such as building renovation passports or building logbooks.
- The results will be recommendations to increase the value to the new EPCs approaches.

WP5 – Towards people-centred EPCs

Overarching aim:

- Making **EPC schemes more people-friendly**, reliable and efficient for both building owners and EPC issuers.
- Stress the qualitative aspect(s) of the project.

Tasks:

- Analysis of user experience in current EPC schemes
- Research on design and experience of EPC products and services
- Research on training and education of certified EPC issuers
- Research on EPC promotion and marketing
- Guidelines and recommendations for development of people-centred EPC products and services

WP6 – Harmonising/converging EPCs in Europe

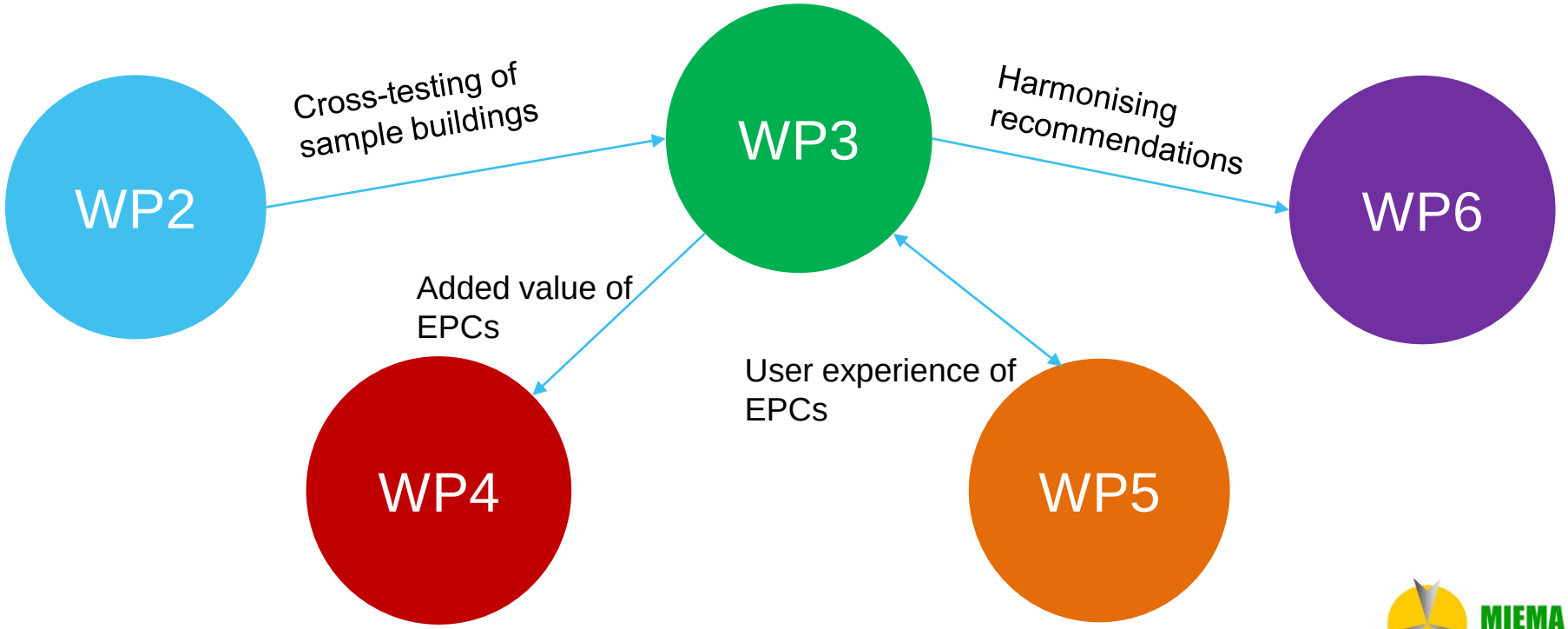
Overarching aim:

- Creating a **community**, communicating main project findings and producing the **integrated results** of crossCert towards the harmonisation of EPCs in the Europe

Tasks:

- Create a pool of stakeholders to collaborate with the project
- Create a central hub of information will be created to disseminate project's results and interact with the external audience.
- Elaborate recommendations / guidelines for the EPC harmonisation considering the several EPC dimensions: technical performance, data exploitation and human factor

Interaction between WPs



Thank you!

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