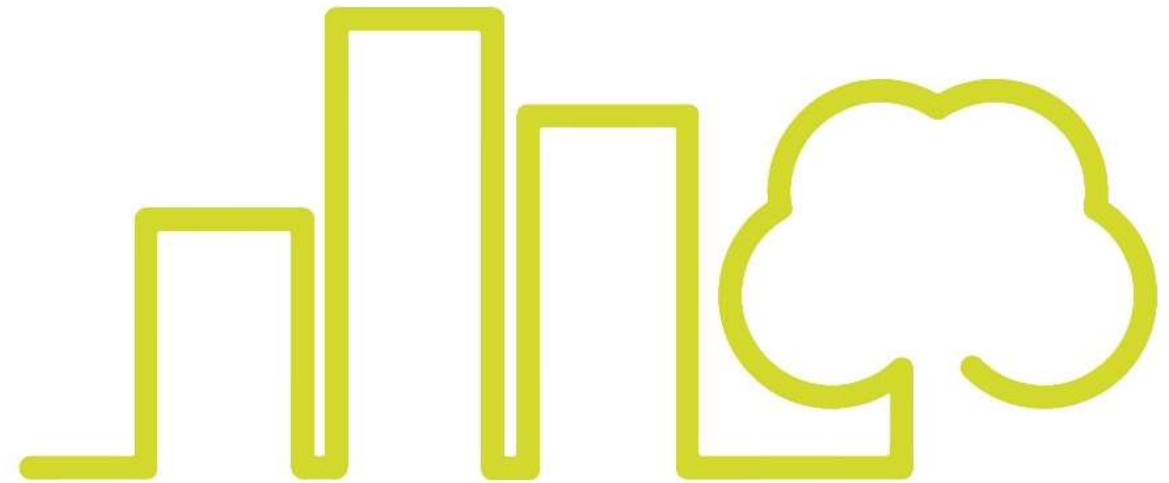




re-MODULEES

the Retrofitting Market Activation Platform based on the generation of standard modules for energy efficiency and clean energy solutions



SUSTAINABLE PLACES 2020

October 27-30, 2020

Digital Event



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Project Coordinator

Huygen Engineers and Consultants



INGENIEURS & ADVISEURS



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Project Information

Topic:	LC-SC3-B4E-1-2020 - Towards highly energy efficient and decarbonised buildings
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H2020-EU.3.3.7. - Market uptake of energy innovation - building on Intelligent Energy Europe








H2020-EU.3.3.1. - Reducing energy consumption and carbon footprint by smart and sustainable use











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15 EU Partners

	STICHTING ISSO Netherlands	EU contribution € 156 750
	BOUWHULP GROEP BV Netherlands	EU contribution € 106 500
	CONSIGLIO NAZIONALE DELLE RICERCHE Italy	EU contribution € 167 500
	CERTIMAC SOC. CONS. A R. L. Italy	EU contribution € 151 937
	ACCADEMIA EUROPEA DI BOLZANO Italy	EU contribution € 72 375
	SYMPRAXIS TEAM P.C. Greece	EU contribution € 110 800
	CENTRE FOR RENEWABLE ENERGY SOURCES AND SAVING FONDATION Greece	EU contribution € 59 781

	INSTITUTO VALENCIANO DE LA EDIFICACION Spain	EU contribution € 167 250
	UBIK GEOSPATIAL SOLUTIONS SL Spain	EU contribution € 131 250
	R2M SOLUTION France	EU contribution € 118 750
	DOWEL MANAGEMENT France	EU contribution € 133 250
	FONDATSIYA TSENTAR ZA ENERGIYNA EFEKTIVNOST - ENEFEKT Bulgaria	EU contribution € 125 000
	Inovacijsko-razvojni institut Univerze v Ljubljani Slovenia	EU contribution € 178 500
	META GROUP SRL Italy	EU contribution € 85 500
	UNION INTERNATIONALE DE LA PROPRIETE IMMOBILIERE Belgium	EU contribution € 69 250



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Overall mission & Scope

The creation of the EU-wide retrofit market activation framework

A wealth of solutions has been developed in many European projects on technical solutions, innovative business models and financing schemes for renovation practices in EU, generally supporting holistic people-centred solutions

**Develop market uptake strategies to capitalize the results
developed in EU-funded projects on deep renovation over the last 5 years**



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Modularity is to be understood...

Multi-level

regarding the “breakdown” of the overall retrofit process into standardized segments, energy efficiency and clean energy solutions, to isolate the most effective tools and approaches

Multi-target

regarding the “customization” of retrofit solutions according to regional climatic, building, socio-economic and market conditions, to maximize cost-reduction, business spill overs and local impact.



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5 main objectives

Objective 1: To make deep renovations easier, faster and more attractive for stakeholders by fostering market uptake and giving access to key results of relevant European projects

Objective 2: To nudge relevant stakeholders to renovation by fostering holistic consumer-centred business models and decision tools, supported by evidence-based performances

Objective 3: Facilitate decision making on deep renovation by tackling demand and supply sided social, financial and legal barriers

Objective 4: Fostering the implementation of the re-MODULEES actions in seven demonstration pilot markets

Objective 5: To roll out the re-MODULEES concept on a European level, supported by a go-to-market exploitation at MS-level



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3 main transition paths

Transition path 1: Towards capitalizing available outcomes, both technical and non-technical from recent EU projects on deep renovation:

Sustainable Place 2018 (<https://www.sustainableplaces.eu/previous/sp2018/>) – Cluster workshop: Barriers and Lesson Learned from H2020 Deep renovation projects

Sustainable Place 2019 (<https://www.buildup.eu/en/events/sustainable-places-2019-sp2019>) – Cluster workshop: Exploitation of Business Models for Deep Renovation. Follow up of the SSERR services

Retrofit Europe 2018 – MORE-CONNECT final event (<https://www.retrofit-europe-2018.nl/home>)
Stunning Conference 2019 – final event (<https://ec.europa.eu/easme/en/stunning-final-conference>)

International Cluster Conference 2019 (<https://eventi.unibo.it/cluster-event-da>)

EUSEW Energy Days Cluster Event 2019 (<https://www.buildup.eu/en/events/quality-architecture-sustainable-and-high-performing-buildings-eusew-ace-energy-day>)



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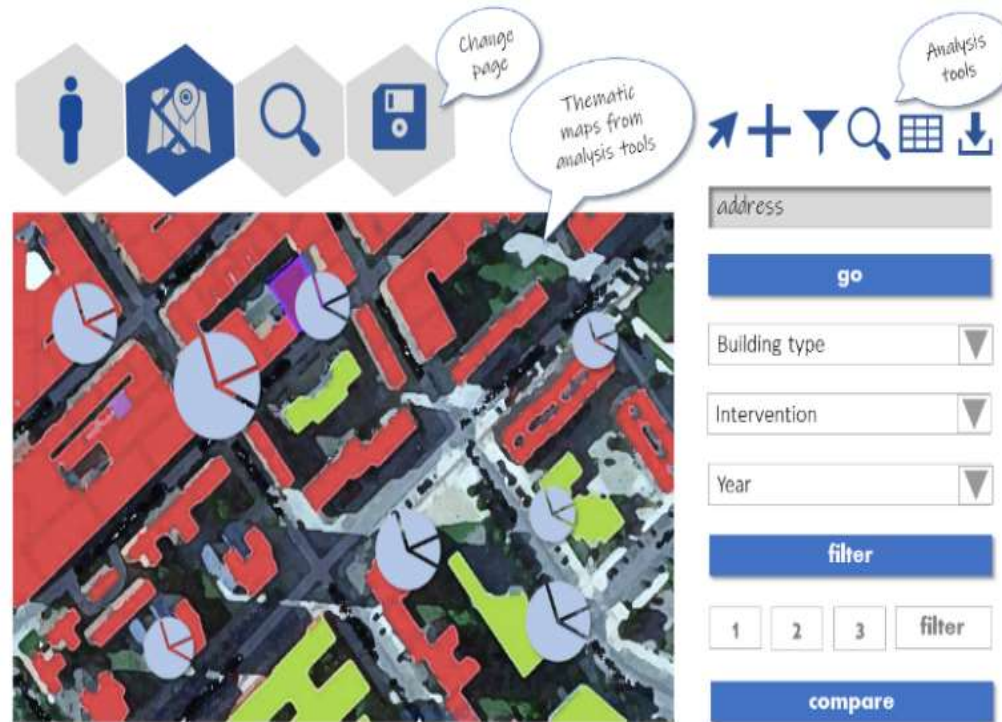
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3 main transition paths

Transition path 2: Towards a digitalized access to the capitalized outcomes

1 Market activation Platform

The re-MODULEES digital hub
a core application/tool for
diagnosing and pre-sizing
the retrofitting options/modules



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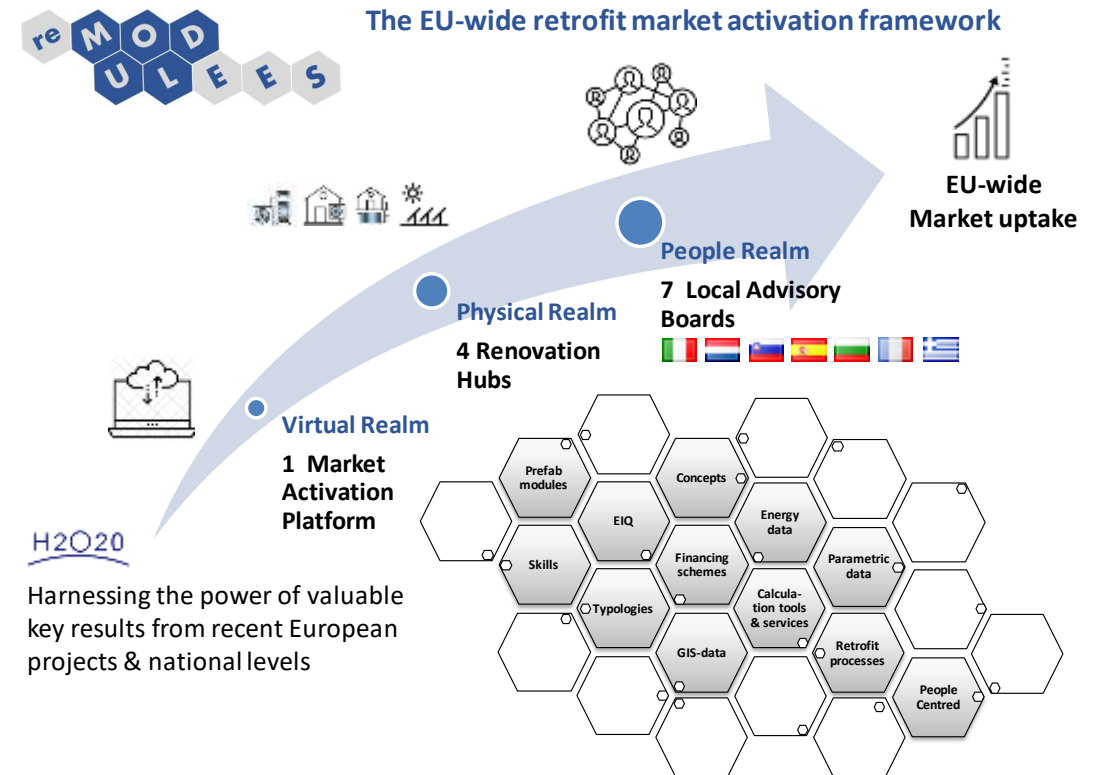
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3 main transition paths

Transition path 3: Towards credible and impactful implementation by establishing Renovation Hubs in seven selected pilot markets

4 Physical Renovation Hubs

Established in selected pilot markets
Spain, Bulgaria, Netherlands, Slovenia



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3 main transition paths

Transition path 3: Towards credible and impactful implementation by establishing Renovation Hubs in seven selected pilot markets

7 LABs
Local
Advisory
Boards

Re-MODULEES Pilot Market	Regions triggered	Short description	Number of units / m ²	Renovation Hubs	
				Virtual	Real
Italy	Emilia Romagna Region (frontrunner) Puglia Region (follower)	The LAB actions will be aimed at meeting the needs and challenges of regions with very different peculiarities.	1,866,323 dwellings in Emilia Romagna and 947,298 in Puglia	X	
Spain	Valencia community	50-year-old buildings, which must be certified. The LAB actions will be aimed at meeting the needs and challenges of 50-year-old buildings (built before 1980), which are forced to pass through the Building Evaluation Report.	3,147,062 residential dwellings	X	X
Greece	Municipality of Vyronas	The LAB actions will be aimed at meeting the needs and challenges of residential dwellings within the Municipality, with particular focus on those over 40-years old	32,315 residential dwellings, of which 19,407 built before 1980	X	
France	Region Auvergne-Rhone-Alpes and to the French Riviera area.	The LAB actions will be aimed at meeting in priority the needs and challenges of dwellings built before 1975	Total French building stock built before 1975 (priority target): 15 680 000 dwellings	X	
Netherlands	Noord Brabant (5-B cities) Rotterdam community	LAB actions in Brabant will focus first at individual house owners and secondly on housing companies. LAB actions in Rotterdam will focus on 'VVE's' (union of owners) and housing companies	Nrd Brabant: 355.225 homes/units Rotterdam: 311.336 homes/units	X	X
Bulgaria	Sofia Municipality	The LAB actions will be aimed at meeting the needs and challenges of residential districts with prefabricated buildings in dire need of renovation	176,842 dwellings in Sofia District and 607,473 in Sofia capital	X	X
Slovenia	Zagorje ob Savi Municipality	The LAB actions will be aimed at meeting the needs and challenges of an ex-mining area, by operating a follow-up to the OLEA physical renovation hub	863,870 residential units	x	X



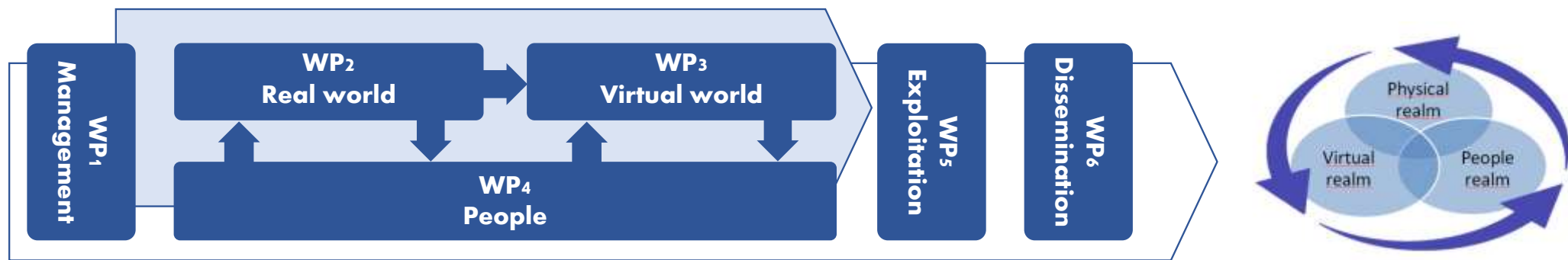
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Innovation: demonstration in pilot MARKETS

Pilot market activation by fostering a integration among three fundamental market domains:

- the “**physical realm**” meant as the concrete conditions of local EU retrofitting markets
- the “**virtual realm**” meant as the domain of digital services aimed to foster and enhance the market uptake of deep retrofitting
- the “**people realm**” meant as the human component of retrofitting market



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Ambition: catalyse the EU renovation wave

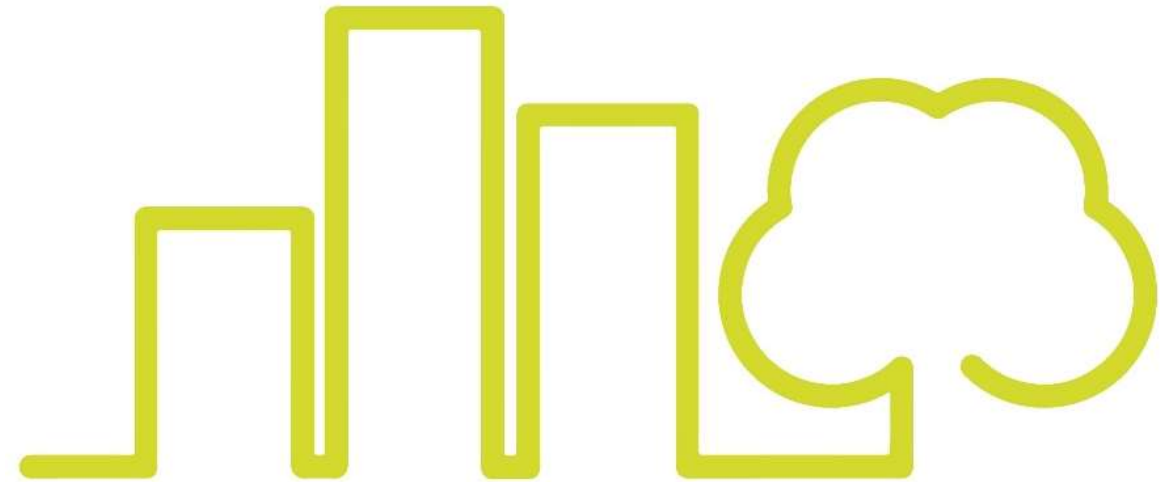


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