



DEEP RENOVATION

Integrating tried-and-tested solutions for deep renovation of the EU building stock SEP. 7TH, 14:45-16:15 CET, ONLINE

SUSTAINABLEPLACES.EU

#SUSTAINABLEPLACES2022









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PART 1

#SUSTAINABLEPLACES2022

- Welcome by moderator
- Jérôme Chardon, EUROPA project / AGEDEN
- Etienne Vekemans, OutPHit project / PROPASSIF
- Chiel Boonstra, outPHit project / Trecodome
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- Ana Sanchis Huertas & Miriam Navarro Escudero, SAVE THE HOMES project / IVE
- Kiki Papadopoulou, SMAFIN project / CRES

PART 2

- Q&A
- Moderated virtual roundtable discussion

VILLE DE NICE

Moderator: Alexander Deliyannis, re-MODULEES project, Sympraxis Team

Sustainable Projects 22 Deep renovation workshop The EUROPA Project

影的合言

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Jérôme CHARDON - AGEDEN European project manager

Date: 7/09/2022

Europa.



This project has received funding from the European Union's "Horizon 2020" research and innovation programme under grant agreement No. 956649

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About the EUROPA Project

Introduction

EUROPA is a HORIZON 2020 project bringing together the expertise of nine European partners to create a simpler and better **deep renovation journey** for **residential buildings**. The project responds to the challenges and barriers house owners/property managers face when planning and implementing renovation projects.

EUROPA Partners

- Regione Piemonte, Piemonte, Italy	REGIONE PIEMONTE
- Parco Scientifico Tecnologico per l'Ambiente Environment Park Torino Spa, ENVIPARK, Italy	ENVIRONMENT PARK Parco Scientifico PARK Tecnologico per l'Ambiente
- Energie & Umweltzentrum Allgau Gemeinnutzige Gmbh, Eza!, Germany	Erergie- und Umweitzentrum Aligáu
- Areanatejo - Agência Regional De Energia E Ambiente Do Norte Alentejano E Tejo, AREANATejo, Portugal	Areca herpes A trays A strates
- Climate Alliance - Klima-buendnis - Alianza Del Clima E.V., CA, Germany	Climate Alliance
- Reimarkt Concept B.V., REIMARKT, Netherlands	REIMARKT
- Eku Saglabasanas Un Energotaupibas Birojs, ESEB, Latvia	Ekubirojs
- Funding For Future Bv, F3, Netherlands	
- Ageden, AGEDEN, France	AGEDEN States and the state



AGEDEN

Is a not-for-profit organization located in Isère – France, with a team of 52 people, specialized in energy management, promoting renewable energies and environmental protection.

AGEDEN brings support and training to local authorities and end-users designing, financing, implementing and monitoring energy efficiency projects.

<u>Support targets</u>: home and flat owners, social housing companies, municipalities, pupils and private companies and associations

The EUROPA mission

Our mission is to accelerate the transition towards carbon neutral and healthy living environments.

To simplify the deep renovation journey for all stakeholders involved, we will render the journey transparent by building trust and applying the highest caliber of expertise.

Furthermore, we will boost the capacity and skills of public authorities through mutual learning programmes to become influential players in the field.



The One-Stop-Shop

The Energy Efficiency Subscription

The Replication Process



Energy Efficiency Subscription - EES

Let's focus on EES



The Energy Efficiency Subscription (EES) is a set of requirements and standards for service providers in the building renovation sector.

The main goals of the EES are to:

- build trust between residents and service providers;
- ensure transparency throughout the whole renovation process;
- implement energy efficiency measures;
- guarantee health, safety, and comfort to residents;
- **standardize and scale up** the building renovation process across Europe.

Energy Efficiency Subscription: What is it?



Energy Efficiency Subscription – General Structure

To comply with the EES, market operators should meet a set of requirements and standards:

- 23 criteria referring to 15 groups and 5 topics.
- 10 compulsory criteria 13 optional criteria.

0	PERATOR	S		SUSTAINABI	LITY		PA	STANDARI CKAGES F DEEP ENOVATIO	OR			CONTRACTU SPECIFICATI		ASUREMENT AND RIFICATION
PROFESSIONAL	CRAFTSMEN	MARKET OPERATOR	MATERIA PRODU		OTHER ENVIRONMENTAL CRITERIA	PROCEDURE TO SELECT ENERGY EFFICIENCY MEASURES	REDUCING RISK ON DEALY AND EXECUTION ERRORS	REDUCING RISK ON ENVIRONMENTAL IMPACT	IMPRO PROCES GUARAN QUALI	S TO EFFICIENCY NTEE STANDARDS	GENERAL SPECIFICAT INCLUDED IN CONTRAC	ON SPECIFIC THE REQUIREMENTS	SPECIFIC REQUIREMENTS EES OPTION B	MVP SPECIFICATION
1C	1C	1C	2C	2C	1C	1C	2C	1C	1C	3C	2C	2C	2C	1C
	γ 3	J	L	т 5	J			γ 8				γ 6]) 1



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4.3 - Training Package - Introduction to the Energy Efficiency Subscription - Luigia D'Alessandi

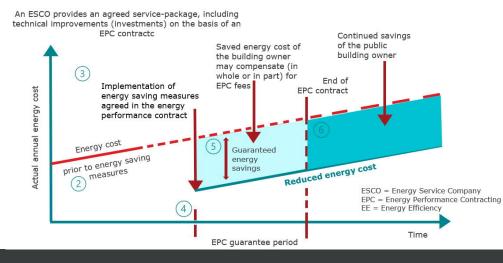
ENERGY PERFORMANCE CONTRACT Plus (EPC+)

- The investment **risks are transferred from the building** owner to the service provider.
- No up-front payment required from the building owner.
- Service provider delivers the required energy services which the building owner benefits from.
- Service provider **guarantees EE improvements** which serve as basis for their payments.
- Maintenance costs are transferred from the building owner to the service provider during the contract.
- The productivity and **value of buildings are optimized** through professional services.

What is an EPC+?

Energy performance contracting, or EPC, is an innovative financing scheme offered by energy service companies to building owners who are in need of energy efficiency improvements but have limited financial means or technical capacities to implement such projects on their own. What makes EPC innovative is that an service provider finances the project based on the guaranteed energy savings that will be generated in the future. Under the BEEF scheme we build upon the standard EPC to develop an EPC+ where energy efficiency is at the core of retrofit dEEP building renovation to deliver "**safety, health and comfort**"

1 THE CONCEPT OF EPC FOR BUILDINGS





THANK YOU!

Let's Talk

We're open for questions and comments.

WEB SITE

https://europaonestop.eu/







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OutPHit

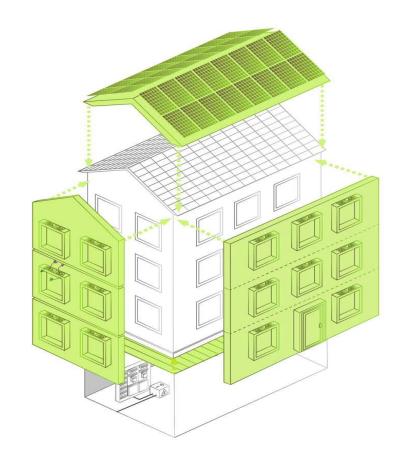
Cheaper, faster and more efficient global renovations thanks to prefabrication

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 957175. The presented contents are the author's sole responsibility and do not necessarily reflect the views of the European Union. Neither the EASME nor the European Commission are responsible for any use that may be made of the information contained therein.



outPHit

The idea:





The realization:

- > Deep Renovation Projects made more reliable, faster and cheaper
- 10 project partners:
 - > PHI, UIBK, NHT, VAND, HPHI, Eneffect, CA, PHB, EW, ProPassif
- 7 realization countries:
 - ▶ France, Nederlands, Austria, Germany, Spain, Greece and Bulgaria
 - 20 Case studies "CS": <u>Https://outphit.eu/en/case-studies/</u>
 - > 7 Observer Projects "OP": too big, outside time frame
 - "Colbert Project", Colombes FR (6.000 m2, 70 dwellings)
 - ► Goese Polder, NL (194 Houses)
 - Bruno Sander Haus, Innsbruck AU (10.000 m2. High Rise B.)
 - **>** ...



Case Study Projects





Tim













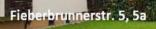














« Colbert » Project : Observer Project @OutPHit (OP08):

- Project Logirep/Polylogis in Colombes (Paris region)
 - Social landlord
 - Waiting to be renovated
- Why Observer Project?
 - » «pure» OutPHit project: 100% prefabricated retrofit
 - High consumption on fossile fuels before retrofit
 - But outside OutPHit's time frame (3 years)
 - Project not EnerPHit certified yet
 - Waiting for operating data (economy, measures)



Résidence Colbert in Colombesta

What have been done so far :

- Prefabricated modules on flat facade
- Project on lived-in site: no inhabitants relocation
- 70 dwellings ranging from F2 to F6 (2 to 6 rooms apartments)
- Use of Prefabricated "Panobloc"/Techniwood modules:
 - Over-insulation of the envelope, both opaque and glazed walls
 - ► Treatment of thermal bridges,
 - Air tightness,
 - Optimization of the compactness of the thermal envelope
 - High-performance technical systems (ventilation with HR, pellet)



A pool of experts :



ARCHITECTE



LANCTUIT ARCHITECTURE 21 Rue Charles Laffite 92200 Neully-sur-Seine

ENTREPRISE BOIS



ECOLOGGIA BATIMENT 35 Rue Haroun Tazieff 54320 Maxeville

ENTREPRISE GENERALE



EIFFAGE 14-18 Rue de la Vanne 92120 Montrouge

PILOTAGE



BIOTOPE 59 Boulevard de Verdun 94120 Fontenay-sous-Bois

BET THERMIQUE



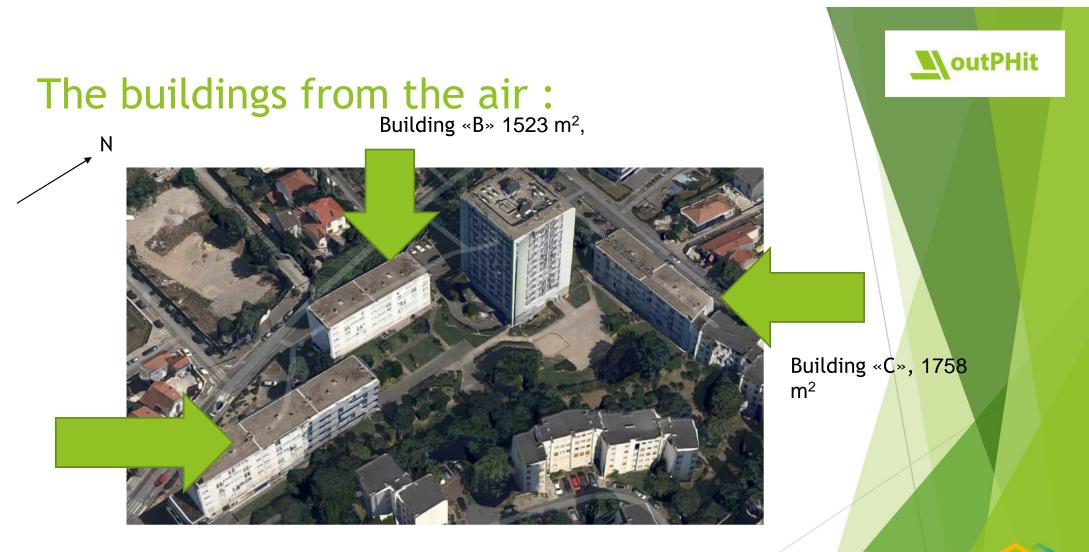
INDDIGO 40 Rue de l'Echiquier 75010 Paris

BET FACADES



ACTR 44 Rue de la Commanderie 45760 Boigny-sur-Bionne





Building «A» 2529 m²



A lot of design hard work: no surprise!



Layout Panobloc + Timber frame modules

outPHit PROPASSIE la transition en action

Prefabricated modules : before leaving assembly workshop

02ud	Mur ext. E	quitone Tectiva				0
		Résistance superfi	cielle (m²K/W)			
Orientation des parois		intérieure R _{at}	0,13			
Adjacent à	0,04	extérieure R _{se}	0,04	Annual		
Section 1	λ.[W/(mK)]	Section 2 (optionnelle)	λ [\v/(nK)]	Section 3 (optionnelle)	λ [\//(mK)]	Epaisseur [mm]
Equitone Tectiva Blanc	0,390		0,000		0,000	8
Ossature bois	0,130		0,000		0,000	30
PANOBLOC 9 plis	0,038		0,000		0,000	270
Laine de roche	0,038		0,000		0,000	20
Béton armé	2,100		0,000		0,000	280
	0,000		0,000		0,000	0
	0,000		0,000		0,000	0
	0,000		0,000		0,000	0
Pourcentage de surface	de la section 1	Pourcentage de surface d	e la section 2	Pourcentage de surface	de la section 3	Total
	100%		0,0%		0,0%	60.8
					······	

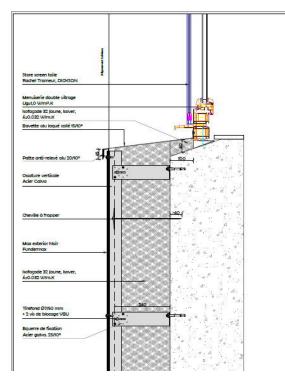


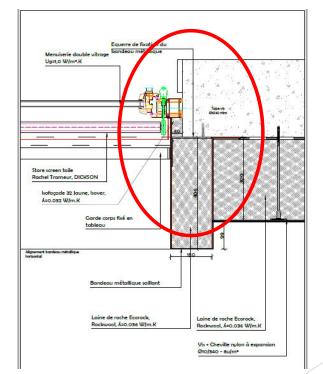
external wall with Panobloc U = $0,121 \text{ W/m}^2$.K by Techniwood (thick.= 61 cm)



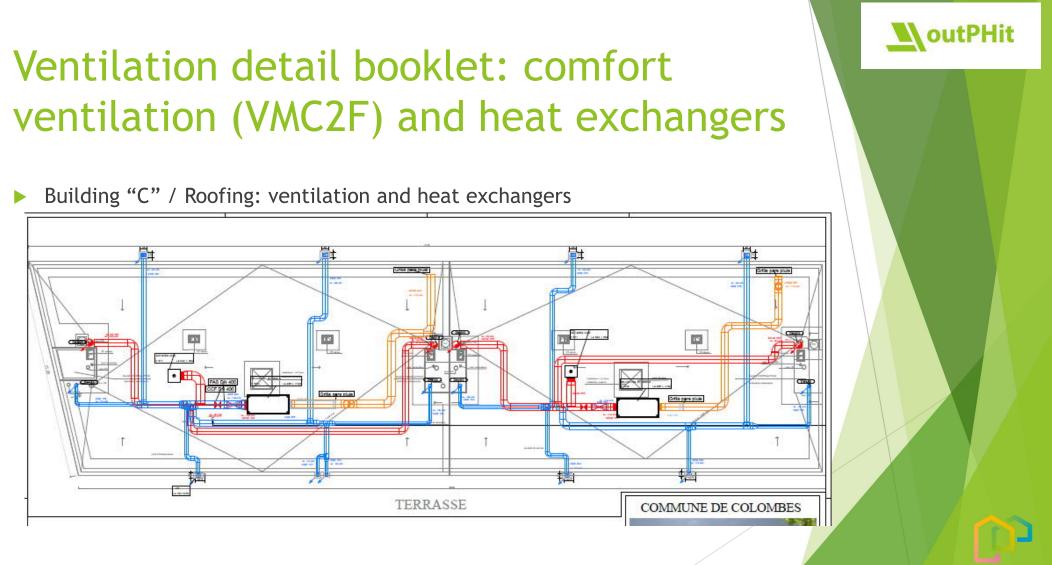
outPHit

Carpentry detail book:









PROPASSIF

Partial sum-up: costs (\in), emissions (CO₂)

QUELQUES CHIFFRES

Performance énergétique (conso RT en KWheP/m²/an) :

	Etat initial	Etat après travaux
Bâtiment A	234	53
Bâtiment B	242	56
Bâtiment C	223	54

- Insertion professionnelle : 2560 heures
- Montant des travaux : 3,6M€ HT
- Costs : 600 €/m²
- Energy carbon saved per year: 18 m³ gas/m².a x 6000 m² = 200 t CO₂/a
- Carbon saved on deconstruction : 700 m³ concrete = 700 t CO₂
- Breakeven over 50 years, tons CO₂: 3,6 M€/10 kt= 360 €/t
- Breakeven over 100 years, tons CO₂: 3,6 M€/20 kt= 180 €/t



outPHit

Questions ?

- Thank you for your attention
- Any questions?



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194 Zero-ready houses Goese Polder, NL

Chiel Boonstra

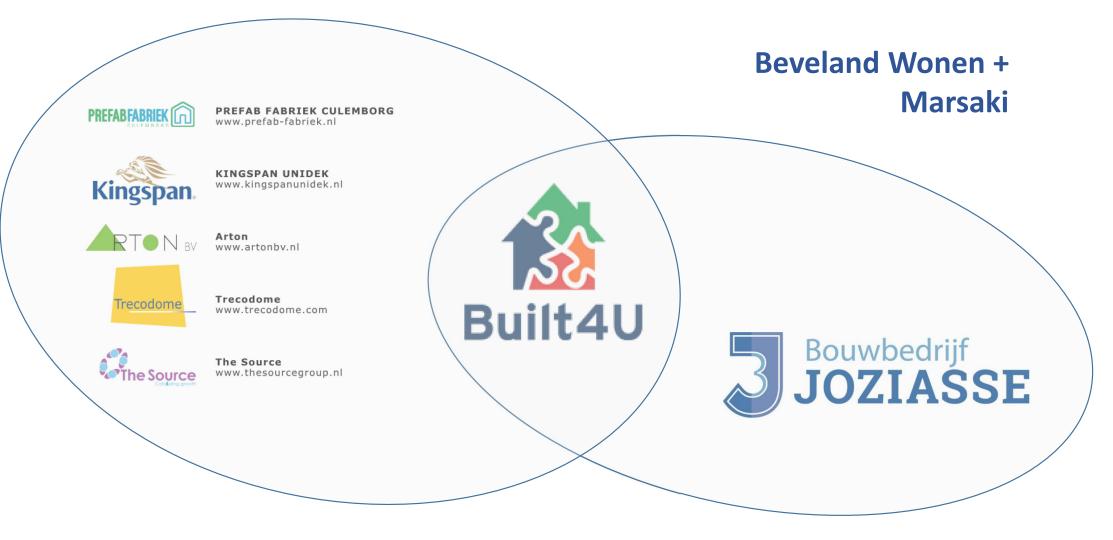
chiel.boonstra@trecodome.com

7 september 2022

194 ZERO-READY HOUSES GOESE POLDER



Integrated solutions + local team = social



Scenario's

TRECODOME - ENERGIE EN WO	DONLASTENCALCULATOR	Versie 2.0	Bestaand	Pakket 12-PV	NOM
Goese Polder, Goes		11-Sep-19	103,5	103,5	103,5
Netto vloeroppervlak in m ² :	per variant		bestaand	pakket 12	All-E
BESTAAND			Bestaand	Bestaand	Bestaand
Gasverbruik	m3 gas		1321	1321	1321
Elektriciteit individueel	kWh		2323	2323	2323
ENERGIEGEBRUIK gemiddeld			bestaand	aanbieding	All-E
Gasverbruik	m3 gas		1321	653	0
GJ warmte	GJ		0	0	0
Elektriciteit gebruik	kWh/jaar		2323	2423	4992
Elektriciteit PV	kWh/jaar		0	-2746	-5148
Variant nieuw			bestaand	aanbieding	All-E
CO2 woning bestaand	ton CO2/jaar	bestaand	3,7	3,7	3,7
CO2 woning nieuw	ton CO2/jaar	nieuw	3,7	2,1	2,1
CO2 woning compensatie	ton CO2/jaar	compensati	0,0	-1,2	-2,2

bestaand nieuw compensatie -01 -02 -03

Tender

zero energy ready Heat demand < 25 kWh/m2 Prefab approach





Selected solution

Goede gevelschil vanuit de trias energetica en de stapsgewijse mogelijkheid om van NOM ready naar NOM te gaan met installatie

afwerking.

componenten.

- New roof U-value 0,14 W/m².K
- Facade U-value 0,14 W/m².K
- Ground floor U-value 0,14 W/m².K
- 12 integrated PV 325 Wp panels
- **Optional shading**
- Heat recovery ventilation
- Summer night ventilation

 Brede ontwerpmogelijkheden en architectuurvrijheid in
 Geprefabricende

Geprefabriceerde gevelementen en dakplaten worden in 1 dag aangebracht (excl. voorbereidende werkzaamheden en afwerking).

Hoge kwaliteit door prefab productie onder optimale

omstandigheden.







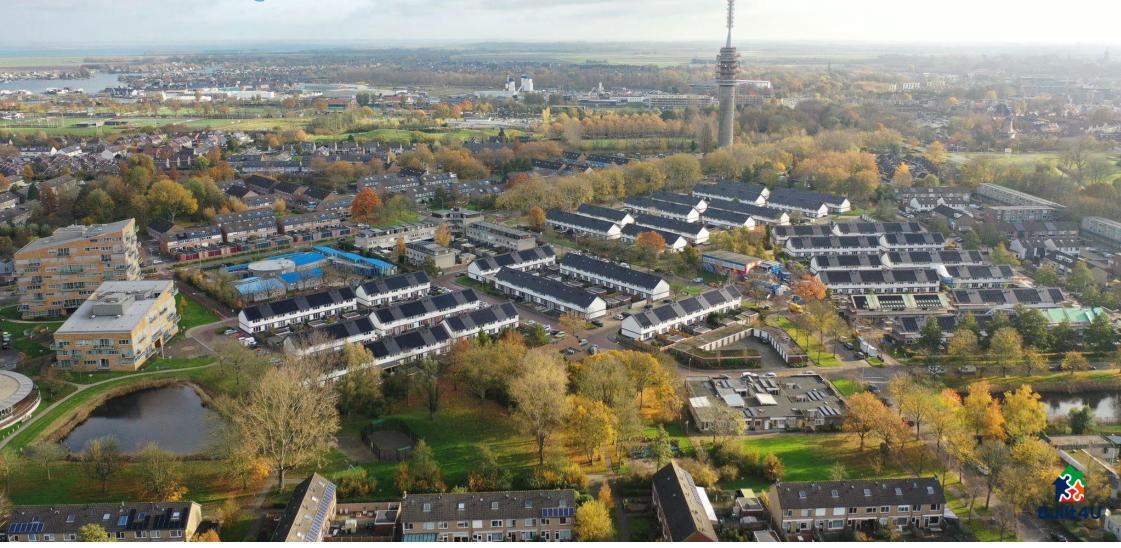








PROVEN QUALITY



Performance in comparison to standard practice in NL

Trecodome		DOL Existing	Standard ¹	New construction	Partial	Desired	Goese Polder	<pre>21</pre>
Roof	U-value		0,3	0,17	0,17	0,12	0,14	0,12
Long facades	U-value		0,7	0,21	0,7	0,21	0,14	0,14
End facades	U-value		0,7	0,21	0,7	0,21	0,14	0,14
Floor	U-value		0,3	0,3	0,3	0,3	0,14	0,14
Windows			lowE	lowE	triple	triple	0,8	0,8
Ventilation			CO2 exhaus	t CO2 exhaust	balanced	balanced	balanced	balanced
Airtightness	n50		2	1,5	1,5	1,5	1	0,6

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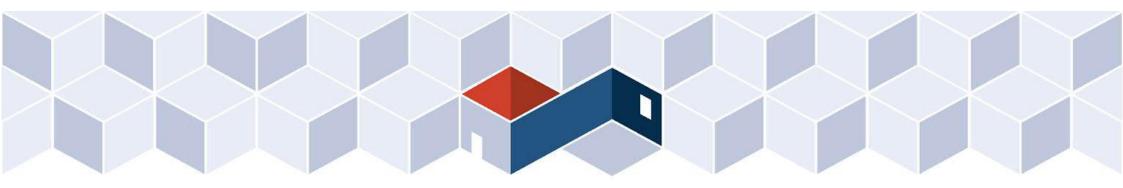
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flexible building renovation shared solutions

Integrating tried-and-tested solutions for deep renovation of the EU building stock

7 September 2022 - Sustainable Places, online







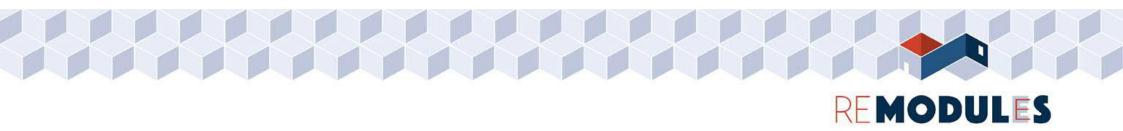
re-MODULEES at a glance

re-MODULEES | the **Re**trofitting Market Activation Platform based on the generation of standard **modul**es for **e**nergy **e**fficiency and clean energy **s**olutions

Торіс	LC-SC3-B4E-1-2020 - Towards highly energy efficient and decarbonised buildings	
Funding Scheme	CSA - Coordination and support action	
Start date	1 November 2020	
End date	31 October 2023	
Overall budget	€ 2 099 518,75	
Consortium	tium Leader Huygen Engineers & Consultants, HI&A	
	15 Partners from Italy, the Netherlands, Greece, Spain, France, Bulgaria and Slovenia	

Funded under Programmes

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



flexible building renovation shared solutions

Overall mission & scope

• Creating and developing a platform to facilitate the activation of the EU market for energy renovation of buildings

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

Five main objectives





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**



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



To facilitate decision making on deep renovation by tackling demand and supply sided **social, financial and legal barriers**



To foster the implementation of the re-MODULEES actions in **seven demonstration pilot markets**



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

Methodology adopted | Modularity

Modularity is to be understood as

flexible building renovation shared solutions

Multi-level

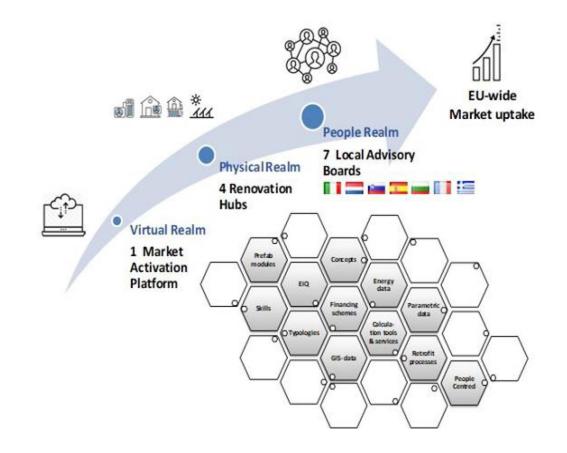
regarding the **"breakdown"** of the overall renovation process into standardized segments, energy efficiency and clean energy solutions, to select the most effective tools and approaches

Multi-target

regarding the **"customization"** of renovation solutions according to regional climatic, building, socio-economic and market conditions, to maximize costreduction, business spillovers and local impact



Levels of intervention | 3 market domains



- the "virtual realm" meant as the domain of digital services aimed at fostering and enhancing the market uptake of deep retrofitting
- the "physical realm" meant as the concrete conditions of local EU retrofitting markets
- the "people realm" meant as the human component of retrofitting market

From Project "exploitation" to market practice

- 1
- CAPITALIZING available outcomes, both technical and non-technical from recent EU projects on deep renovation



- Making "capitalized" results ACCESSIBLE through the re-MODULEES Digital HUB.
- Impactful and concrete implementation of "capitalized" SOLUTIONS in national markets.



ODU

flexible building renovation shared solution:

- Market activation platform
- Diagnosis tools and definition of intervention scenarios
- 4 Physical Renovation Hubs
- 7 re-LABs | Local Advisory Boards



CAPITALIZING available outcomes, both technical and non-technical from recent EU projects on deep renovation

Sustainable Place 2018 (link) – Cluster workshop: Barriers and Lesson Learned from

H2020 Deep renovation projects

Sustainable Place 2019 (link) – Cluster workshop: Exploitation of Business Models

for Deep Renovation. Follow up of the SSERR services

Sustainable Place 2021 (link) Paper Session: Renovation Cases and Tools

Consortium expertise and re-LAB Members' feedback





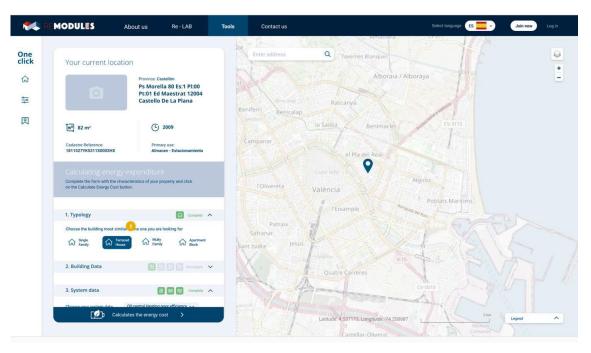


2

Making "capitalized" results ACCESSIBLE through the re-MODULEES Digital HUB

re-MODULEES Market activation Platform

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



MODULES

3

(LSNs)

Impactful and concrete implementation of "capitalized" SOLUTIONS in national markets

 1
 Pilot Markets
 7 European countries (Italy, Bulgaria, Spain, France, Greece, the Netherlands and Slovenia)

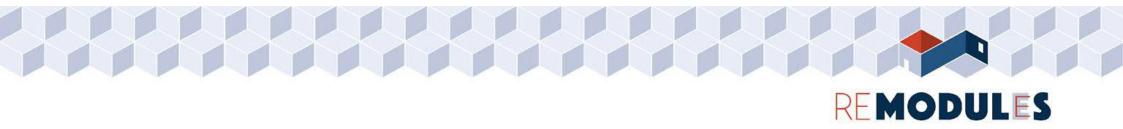
 2
 Renovation HUBs
 7 digital and 4 physical to test/implement re-MODULEES results: platform, tools and services

 3
 Renovation Local Advisory Boards (re-LABs)
 Established at local level to help make re-HUBs operational (test, steer, engage). Formed of 12-20 members - stakeholders from demand, supply, institutions and finance

To enlarge the number of actors engaged at Member State and European level: 100 members

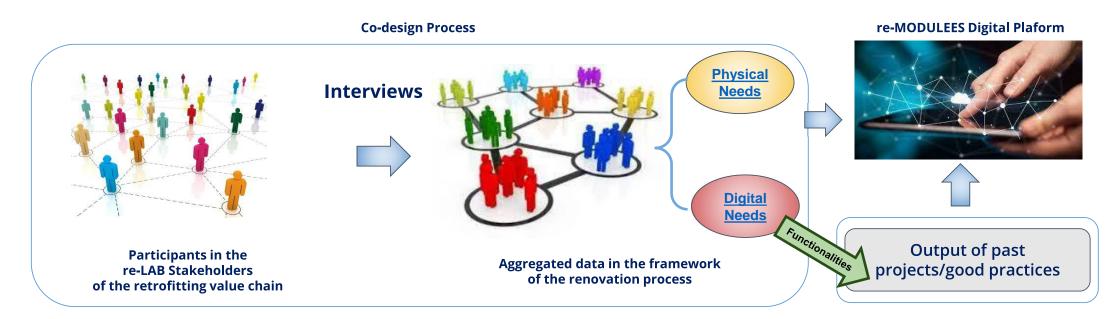
MODULES

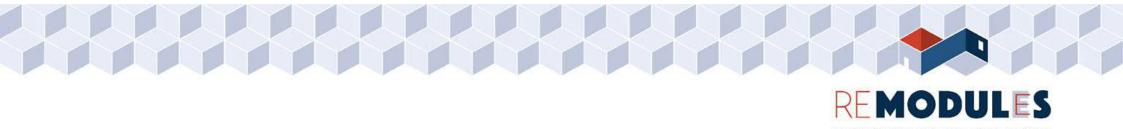
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Vision How to activate and concretely impact on renovation processes?

Going beyond the traditional concept of "user - platform - content" to a new one of **"community** - utility - results"

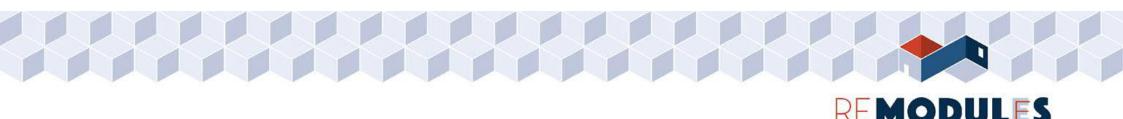




Vision How to activate and concretely impact on renovation processes?

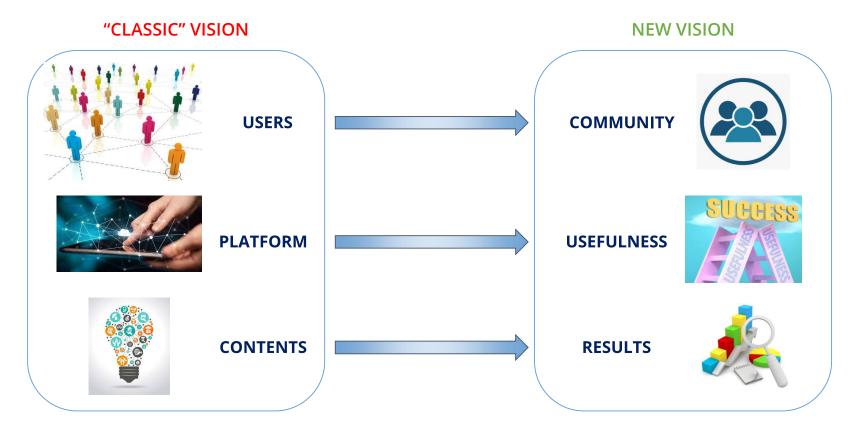
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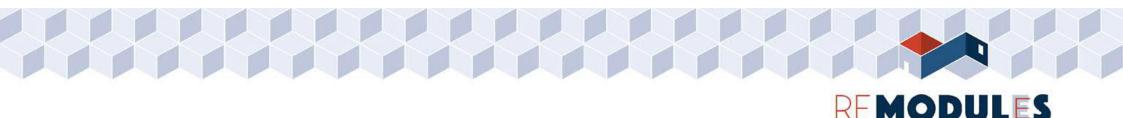




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Vision How to activate and concretely impact on renovation processes?





Contacts

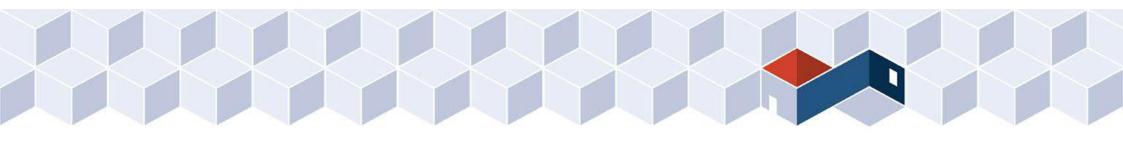


Eng. Giulia De Aloysio, PhD

Senior Researcher and PM



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REMODULES

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Thank you



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- Kiki Papadopoulou, SMAFIN project / CRES

PART 2

- Q&A
- Moderated virtual roundtable discussion

VILLE DE NICE

Moderator: Alexander Deliyannis, re-MODULEES project, Sympraxis Team



SAVE THE HOMES

One-Stop Shops as Citizens' Hubs to support the decision-making process for integrated home renovations









Objectives

- 1) To make home renovation easier, faster and more affordable
- 2) To introduce an attractive and transparent customer journey
- 3) To offer easy access to affordable **financing** for deep renovation
- 4) To deliver real benefits to citizens and other stakeholders
- 5) To roll out the Citizen Hub concept on a wider **scale** (regional, national and European)











Climate emergency... Buildings... **Renovation!**

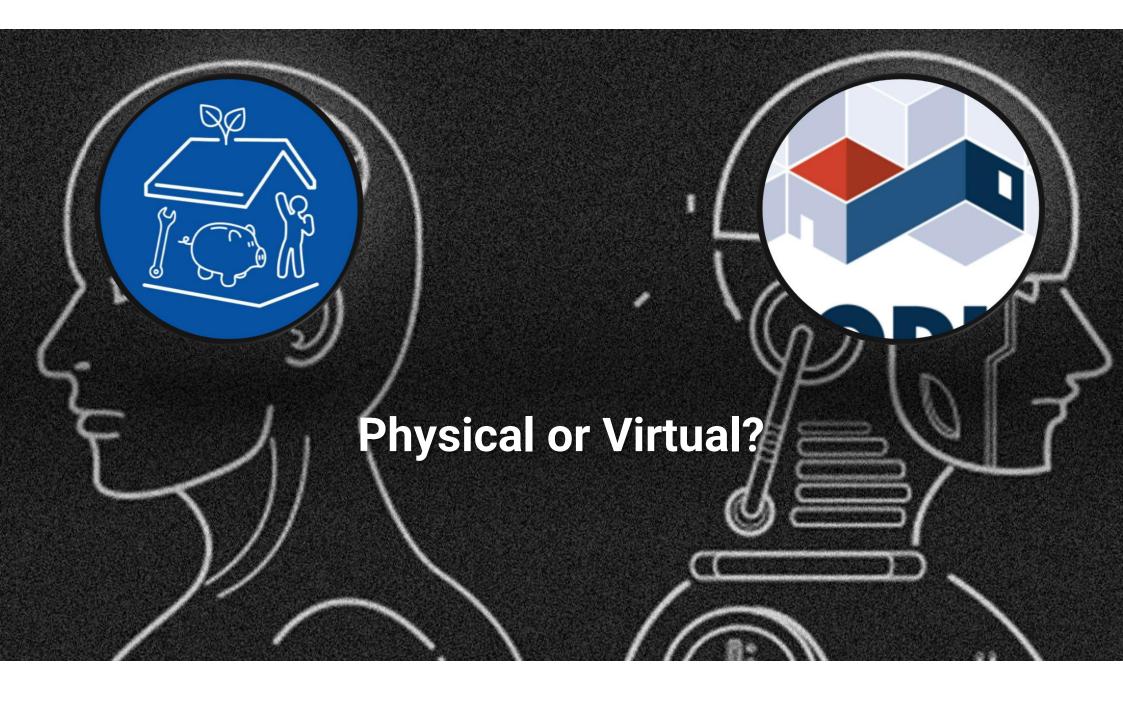
Barriers... Motivations.... **One Stop Shop!**

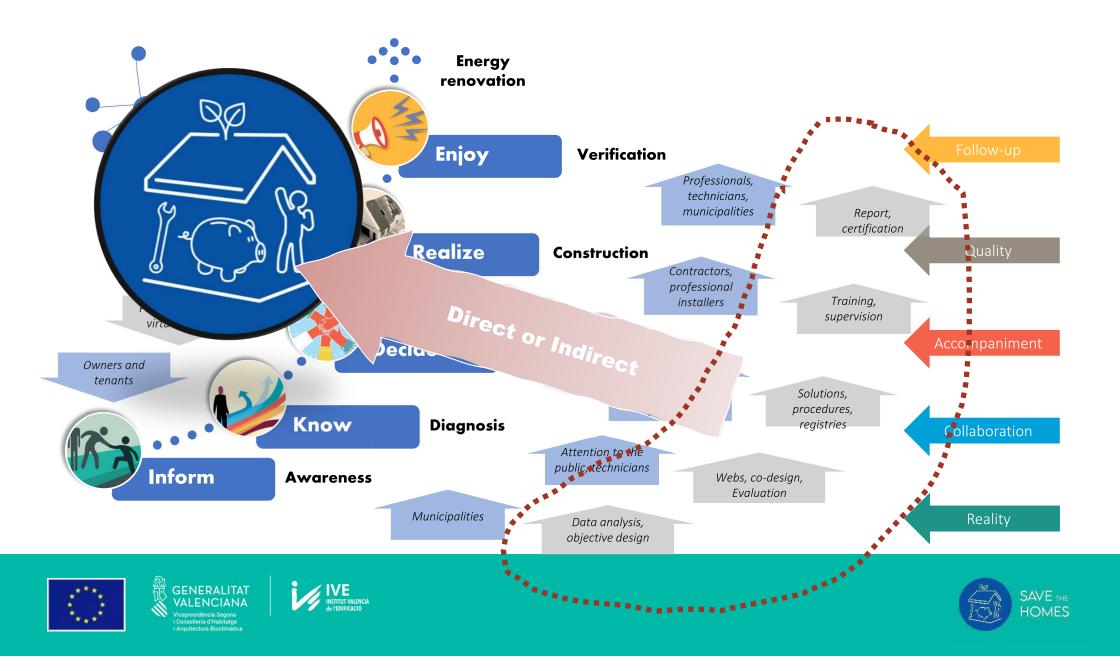


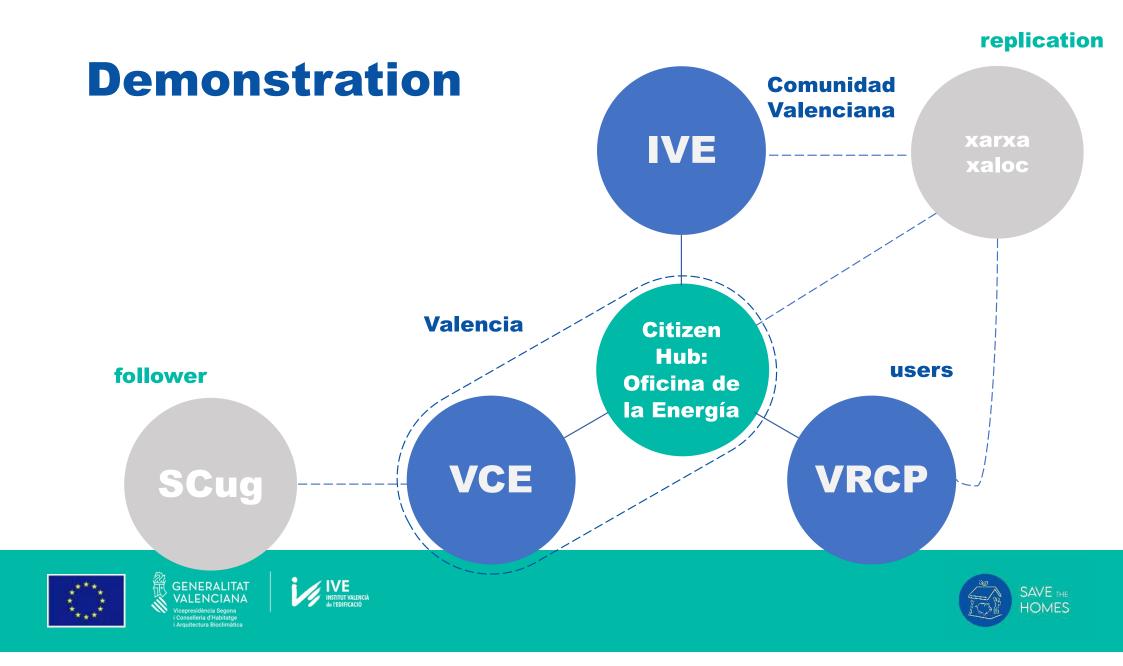












Locations

Physical office

- Valencia (Energy Office)
- Existing offices (Municipality premises, Neighbors' Associations, etc.)

Mobile Office

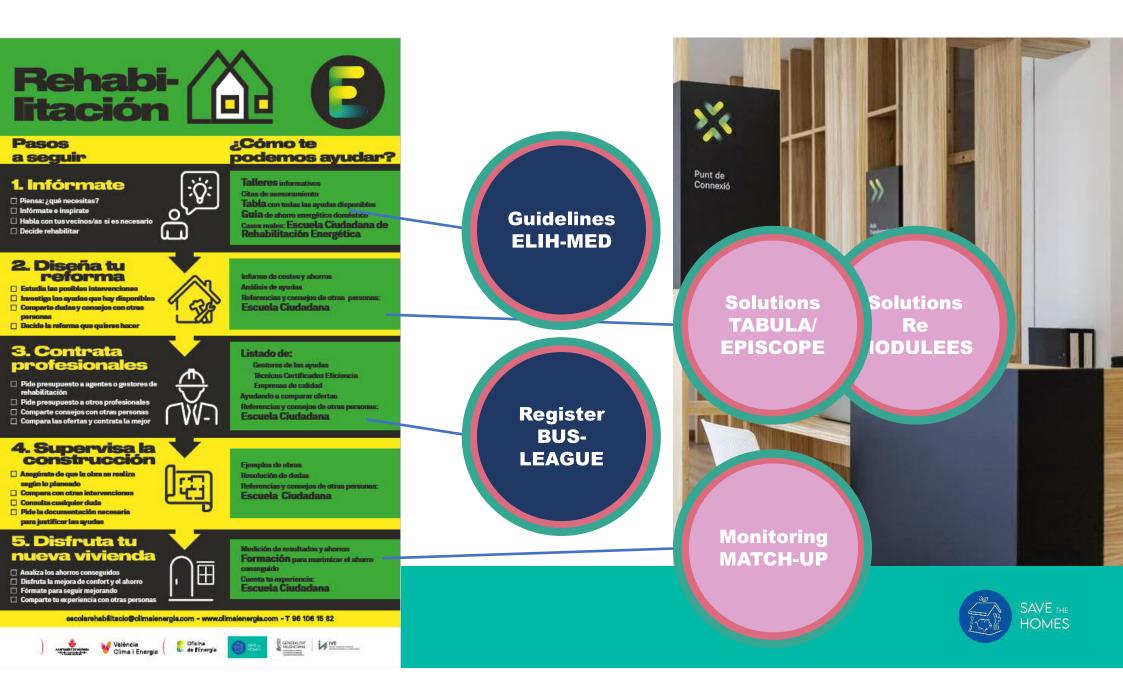
- smaller municipalities with less infrastructure and resources
- Virtual office?







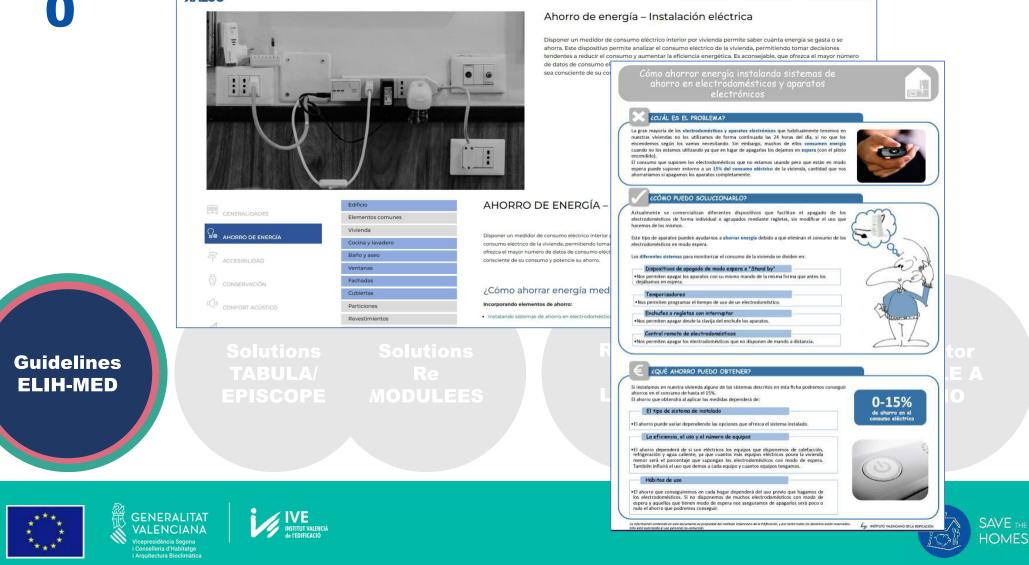




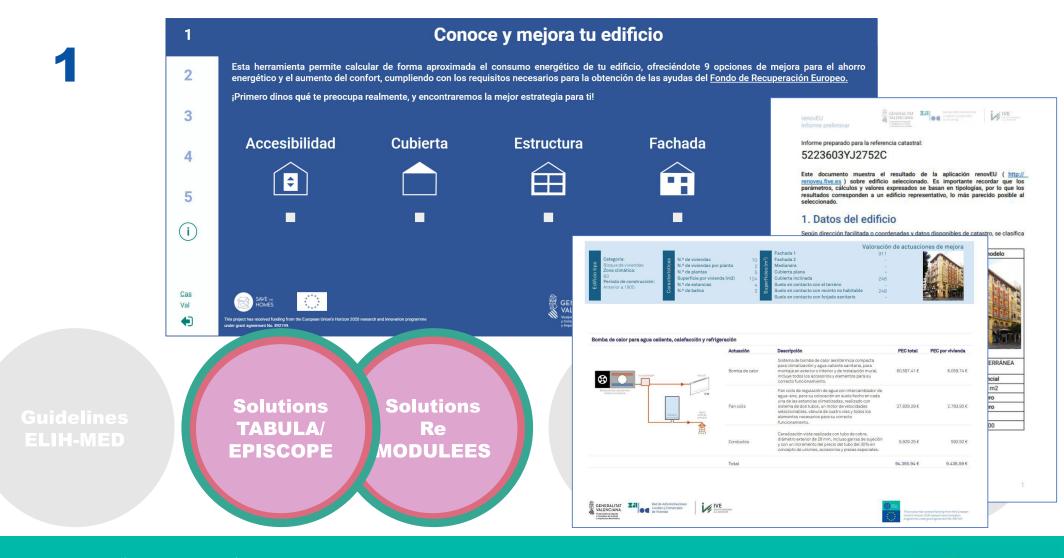


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INFORMACIÓN ASESORAMIENTO AYUDAS ECONÓMICAS

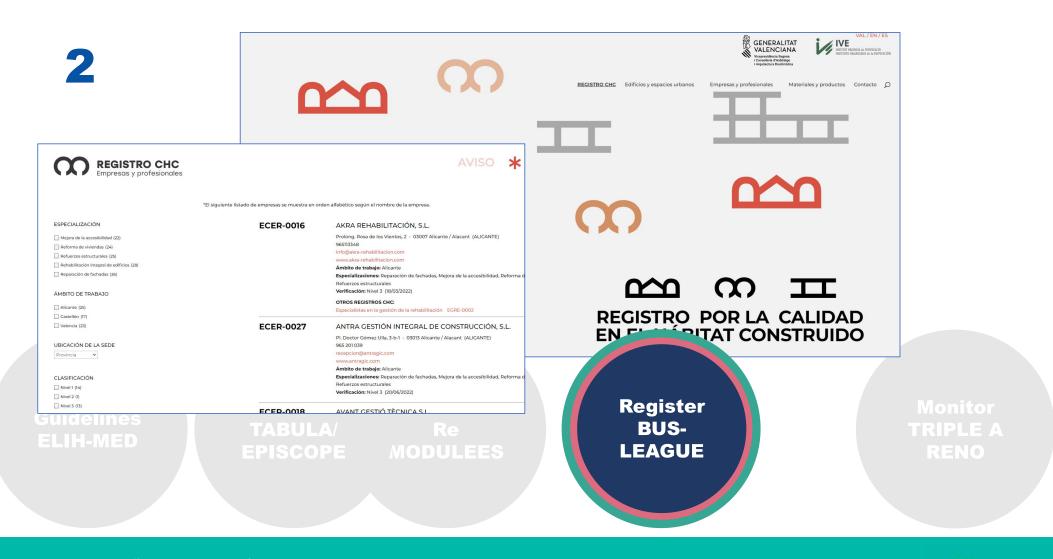




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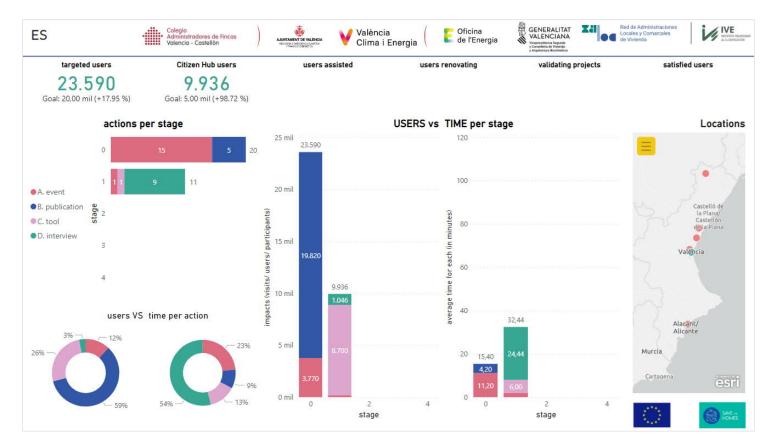




Results so far...

- 21 Citizen Hubs
- 74 Municipalities
- 9.000 Visitors
- Renovations?

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SAVE THE HOMES

Thanks for your attention

Miriam Navarro Escudero – mnavarro@five.es Lucía Ramírez Pareja – Iramirez@five.es Ana Sanchis Huertas – asanchis@five.es https://www.five.es

https://savethehomes.org/



This project has received funding from the European Union's H2020 framework programme for research and innovation under grant agreement no 841850





DEEP RENOVATION

Integrating tried-and-tested solutions for deep renovation of the EU building stock SEP. 7TH, 14:45-16:15 CET, ONLINE

SUSTAINABLEPLACES.EU

PART 1

- Welcome by moderator
- Jérôme Chardon, EUROPA project / AGEDEN •
- Etienne Vekemans, OutPHit project / PROPASSIF
- Chiel Boonstra, outPHit project / Trecodome
- Giulia De Aloysio, re-MODULEES project / CERTIMAC
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VILLE DE NICE

Moderator: Alexander Deliyannis, re-MODULEES project, Sympraxis Team



Structured dialogue and cooperation to support the financing of energy-efficient buildingsSustainable Places 2022 (online)7 September 2022

Kiki Papadopoulou, CRES SMAFIN Coordinator



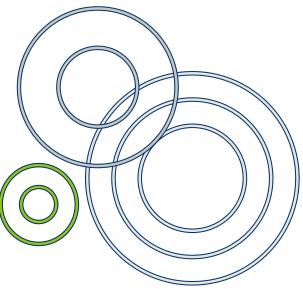


The project has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement No. 955857

Introduction to SMAFIN Project

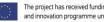


SMAFIN is a three-year project, financed by HORIZON 2020, and implemented in 4 countries -Greece (CRES & INZEB), Bulgaria (EnEffect), Croatia (REGEA), and Romania (ENERO & PRONZEB)- with the aim of supporting financing for energy investments mainly in private and public buildings, but also in SMEs, industry, and infrastructure, organising roundtable discussions, at least once per year in each country.



Specific objectives:

- Capitalisation of Sustainable Energy Investment Forums (SEIFs) results;
- Drafting policy recommendations for energy efficiency measures and/or financing tools;
- Connecting relevant initiatives and stakeholders through roundtable discussions and the project's online platform www.smafin.eu.



The project has received funding from the European Union's Horizon 2020 research nd innovation programme under Grant Agreement No. 955857

Achievements up to now (1/2)



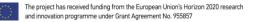
4 Technical Reports: Analysis of previous initiatives, Market analysis, Best practices and financing tools for energy upgrading of buildings, Selection of policy measures for redesign.



4 Roundtable Discussions of the 1st cycle and 4 more from the second one in Bulgaria, Croatia, Greece and Romania have been organised up to now.

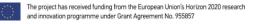


10 Meetings of the external Working Groups of the project.





- **The online platform** of the SMAFIN project (<u>www.smafin.eu</u>) with:
 - \circ News
 - Toolbox (10 technical reports, 55 financing tools, 19 best practices to support stakeholders in capitalising on energy efficiency projects)
 - E-Forum for the exchange of views and communication material
- **10 Satellite events** and participation in relevant workshops and conferences;
- 4 issues of the SMAFIN Newsletter with 1600 recipients in the 4 project countries;
- **80 references** (articles/press releases) for the project only in Greece;
- 6 communication campaigns on the project's social media accounts.



Roundtables Indicative Topics



Financing energy efficiency in public & residential buildings

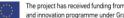
Financing energy efficiency in industry

Taxonomy

New European Bauhaus as an incentive for sustainable financing for buildings

Energy poor households

Energy Efficiency Auctions for tertiary sector companies



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SMAFIN 2022-Discussion Highlights (1/2)



Bulgaria

I. The most sustainable solution to reduce energy poverty is building renovation.

II. There is a need for quality assurance of materials as well as transparency of procedures throughout the whole renovation process.

Croatia

I. Continuous and regular publication of calls for financing are often more critical for building co-owners than the co-financing rate.

II. One of the future challenges will be motivating and convincing the building coowners to start the renovation using their own funds.

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SMAFIN 2022-Discussion Highlights (2/2)



Greece

I. Banks consider that the investment process can be smoother if other actors are also involved in activities such as in preparing a credible dossier.

II. Main problems for ESCOs to fund energy efficiency projects for public buildings are lack of energy consumption data, high initial costs in terms of project design and lack of various information regarding the buildings.

Romania

Need for actions to:

I. Increase building owners' and tenants awareness & trust towards products, services and players in the renovation market.

II. Improve standardised technical procedures to reduce costs and improve the quality of services offered by market operators.

III. Improve the financing conditions of the investment plans targeting the renovation of the houses offered by OSS.

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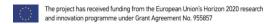
- Acts as an **informal consultation** before the introduction of new measures.
- Identify solutions and measures that encourage the financing of sustainable energy projects.
- Provides feedback deriving from the roundtables & the Working Groups' discussions to European and national policy makers.
- Supports technically the development of the new policy measures/financing tools.
- Introduce new concepts to stakeholders.
- Facilitates dialogue between the financial sector, public authorities, and all stakeholders involved in energy sustainable investments.
- Inform about energy policy developments/calls/events.

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How one can participate to SMAFIN discussion?



- Visit the project website (www.smafin.eu) and join the discussion in the E-Forum
- Subscribe to newsletter recipients
- Follow us on social networks:
 - twitter.com/smafin_eu
 - in www.linkedin.com/company/smafin-h2020-project
 - **f** www.facebook.com/smafinproject











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