

The re-MODULEES Project: an innovative vision for the effective deep renovation of the European building stock

14-16 June 2023 - Sustainable Places, Madrid





REMODULES

flexible building renovation shared solutions

At a glance...

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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

Topic 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 **30 April 2024**

Overall budget **€ 2 099 518,75**

Consortium Leader | Huygen Engineers & Consultants, HI&A

15 Partners from Italy, the Netherlands, Greece, Spain, France, Bulgaria & 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











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











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 cost-reduction, business spillovers and local impact



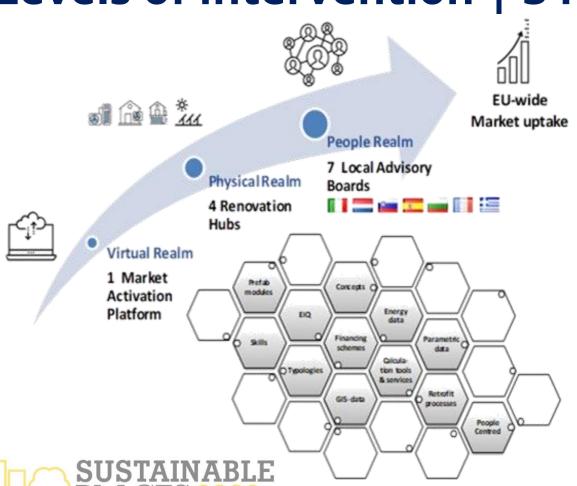








Levels of intervention | 3 market domains



- 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









Planned and Ongoing Activities | 3 Transition Paths

From Project "exploitation" to market practice

- 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.

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











Vision | Hands on Approach

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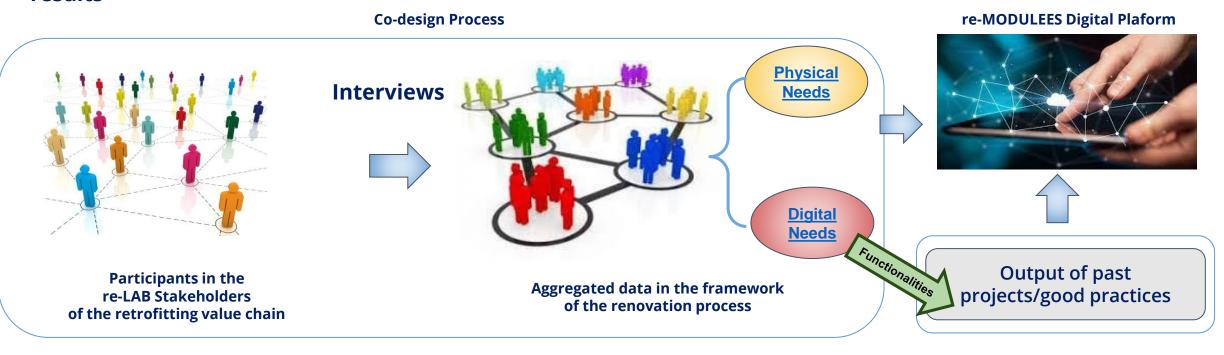




Vision

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"











...Development of the co-design process...



Vision | Hands on Approach

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"

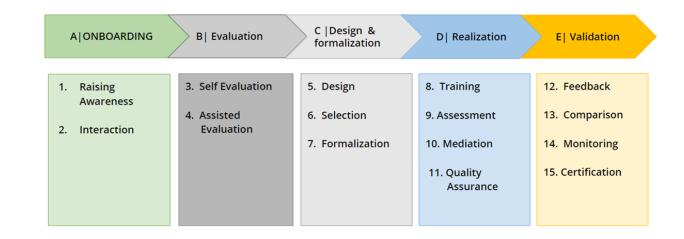
A. **Starting point** | Renovation Market profiling and Analysis of the renovation process in its phases and sub-phases

Two different ways of intervention:

- a. Study and Analysis of market data and literature
- b. Interviews with re-LAB participants

Laying the foundations for

- assessing the degree of innovation and market potential of tools, solutions, and approaches to be capitalized on
- devising efficient strategies to effectively use the results on the market











...Development of the co-design process...



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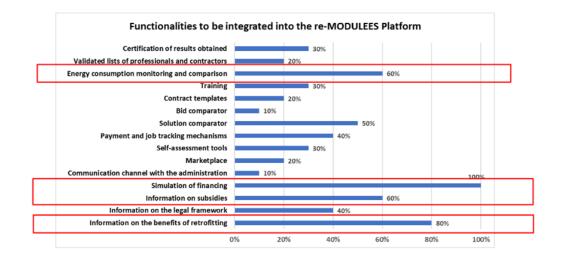
B. Through the **interaction with re-LAB participants**, it was possible to define **in each pilot market** and for **each target group**

Interviews

- needs
- difficulties
- benefits
- innovation trends
- main improvements to be made to processes

Questionnaires

 functionalities needed to be implemented in the platform











...Development of the co-design process...



Vision | Hands on Approach

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- C. On this basis, the re-MODULEES Partners, in collaboration with the re-LAB participants, selected, through specific criteria, the resources (tools, solutions, approaches, and success stories) to be implemented in the re-MODULEES digital platform so as to:
- effectively meet the specific needs of the pilot markets
 - for each target group
 - in each stage and sub-stage of the process
- make the platform a **GENERATOR OF USEFULNESS FOR USERS**.















Vision

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results"









COMMUNITY





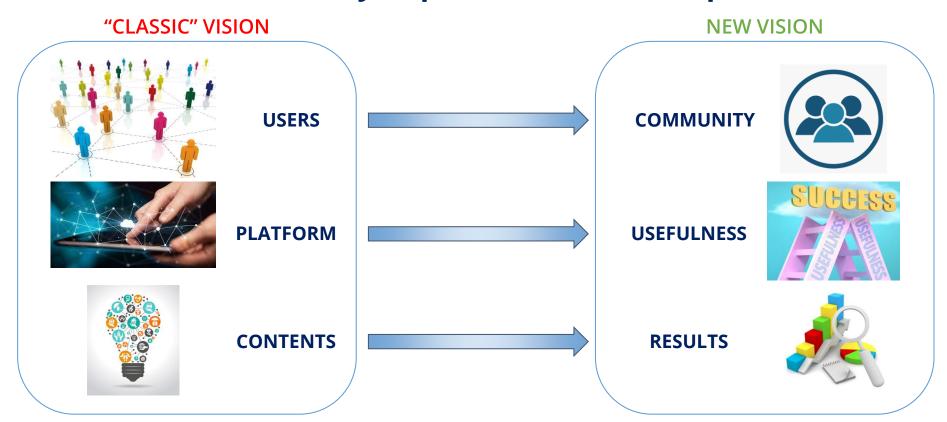






Vision

How to activate and concretely impact on renovation processes?













Contacts



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Where everything converges

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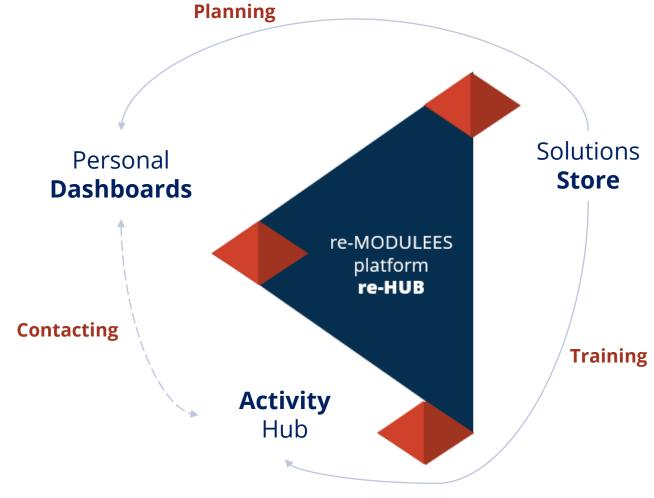




workspaces

- ◆People → follow-up
- ◆Buildings → search
- ◆Market → interact

& relations







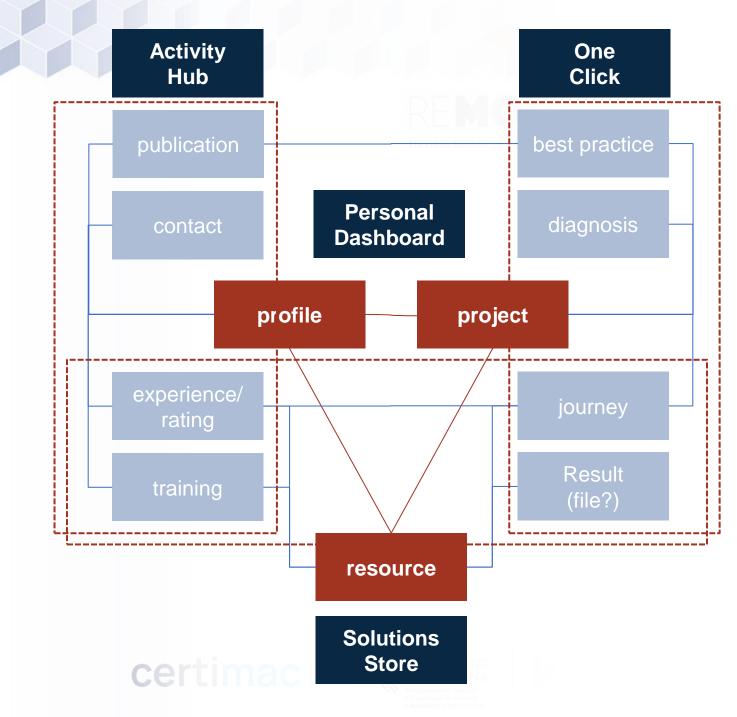




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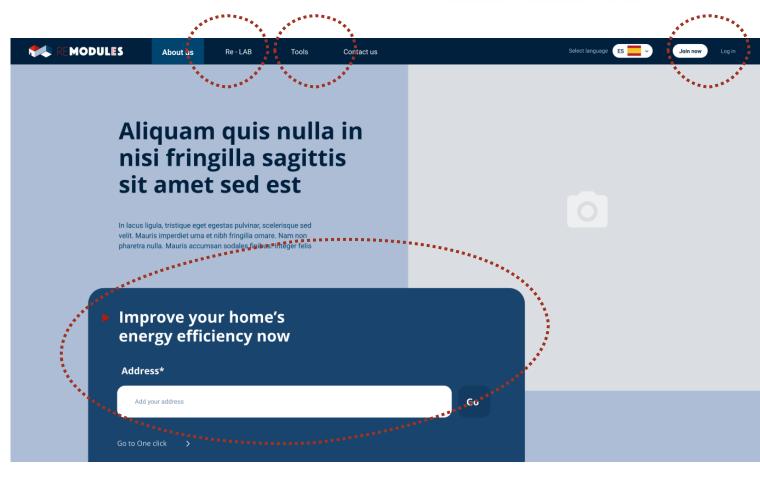


Landing page

- ◆People → follow-up
- ◆Buildings → search
- ◆Market → interaction

Featured apps

◆One Click







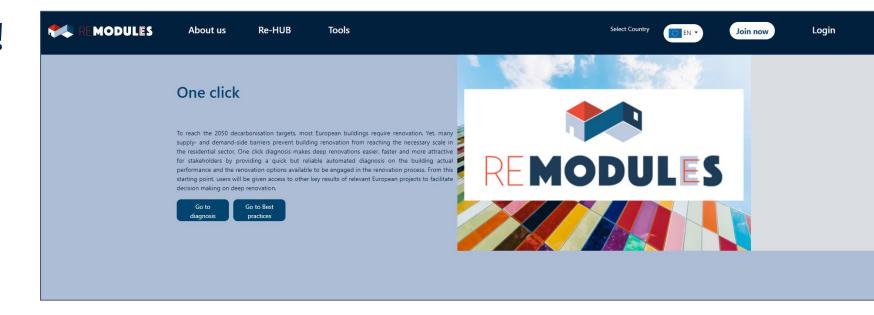






Let's take a look!

- ◆ Mock-up
- ◆ Demo

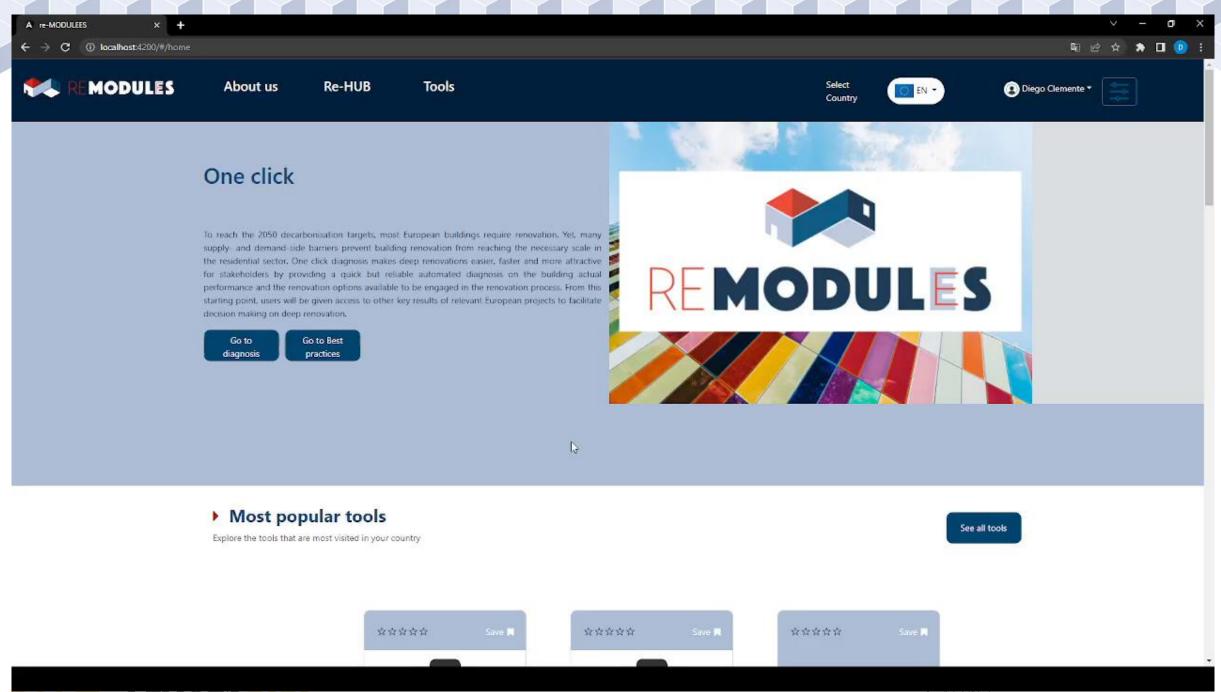












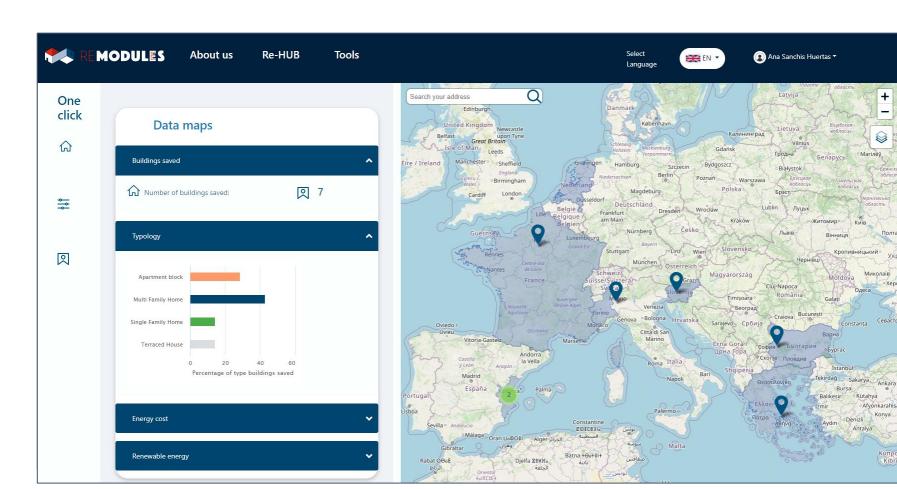


One Click - Diagnosis

Status

- **◆**Layers
- → Multilanguage
- Appearance
- **◆**Still TABULA



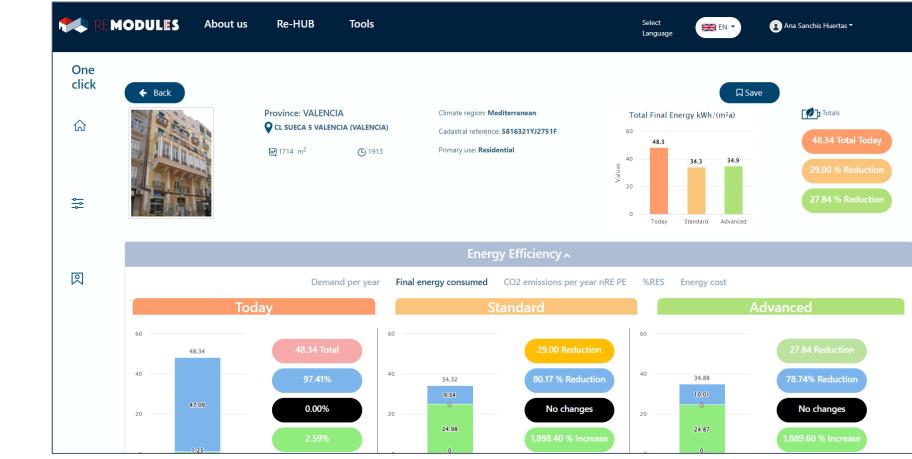




One Click - Diagnosis

To improve

- **◆**Layers limits
- **◆**Indicators
- **◆**Errors
- **◆**Still TABULA







One Click - Diagnosis

Who can do what?

◆Diagnose

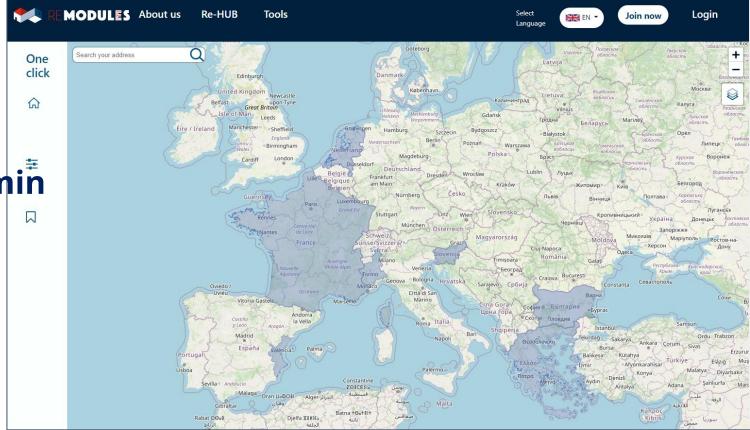
◆Save

→Edit

Visitor

Registered

Regional admin





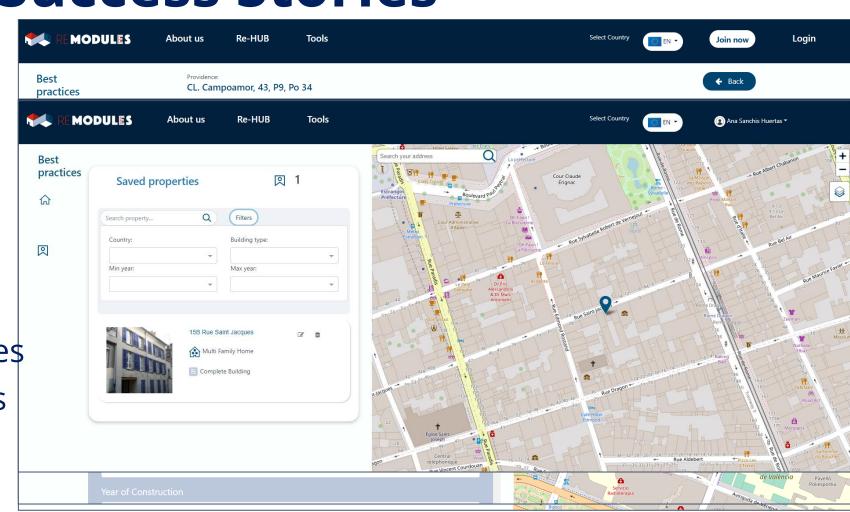


One Click - Success Stories

Status

- ◆General map
- ◆Get info
- Add story
- ◆Save story
- Filter owned stories
- ◆Edit owned stories







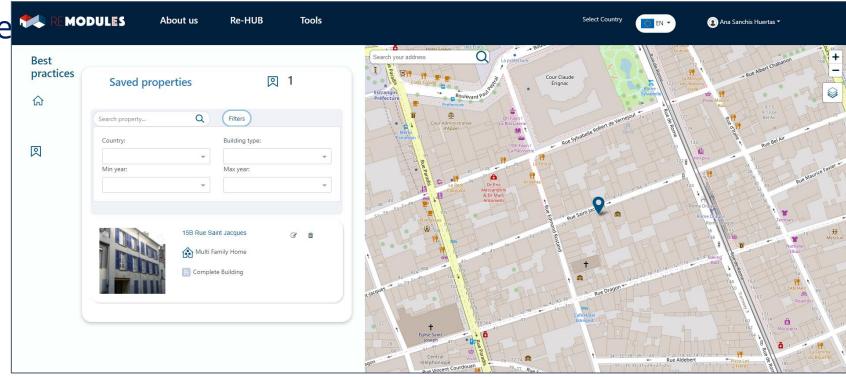
One Click - Success Stories

To improve

◆Filter general storie

→Multilanguage

Add monitoring







One Click - Success Stories

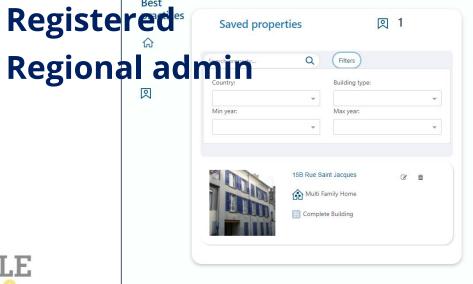
Who can do what?

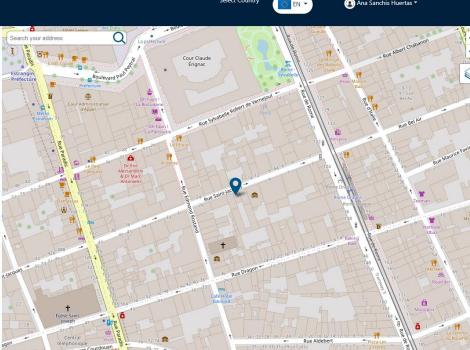
◆See story

◆Validate

Visitor ◆Save/ edit Registered Registered Save/ edit Registered Registere









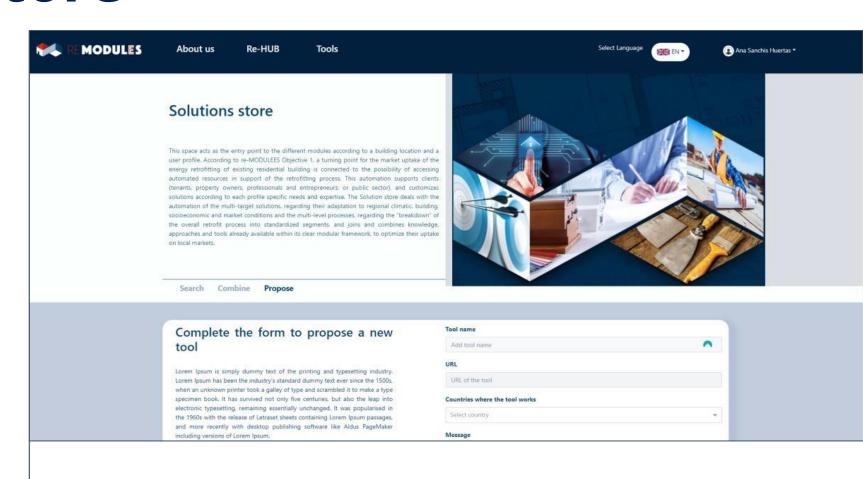


Solutions Store

Status

- **◆**Catalogue
- **→**Filters
- Search by word
- ◆Order by
- → Menus
- ◆Propose new



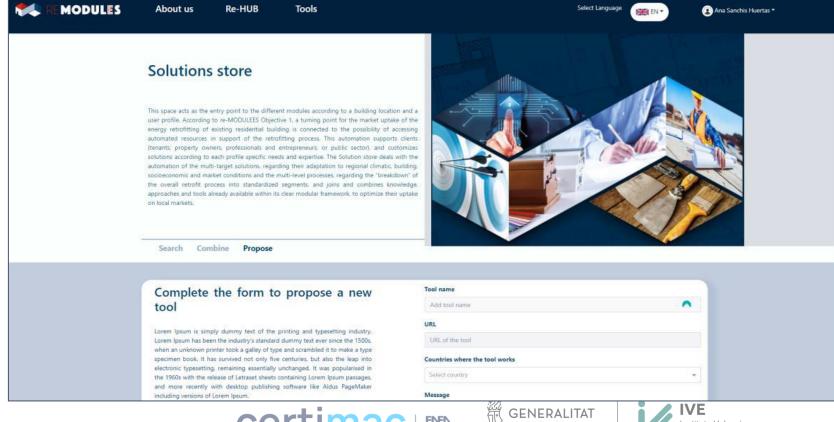




Solutions Store

To improve

- ◆Validate tool
- Create new menu
- → Multilanguage













Solutions Store

Who can do what?

- **◆**Search **Visitor**
- **→**Propose
- **◆**Combine

MODULES Registered Regional admin

Solutions store This space acts as the entry point to the different modules according to a building location and a user profile. According to re-MODULEES Objective 1, a turning point for the market uptake of the energy retrofitting of existing residential building is connected to the possibility of accessing automated resources in support of the retrofitting process. This automation supports clients solutions according to each profile specific needs and expertise. The Solution store deals with the automation of the multi-target solutions, regarding their adaptation to regional climatic, building, socioeconomic and market conditions and the multi-level processes, regarding the "breakdown" of the overall retrofit process into standardized segments, and joins and combines knowledge. approaches and tools already available within its clear modular framework, to optimize their uptake

Tools

Search Combine Propose

Complete the form to propose a new tool

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages. and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum.

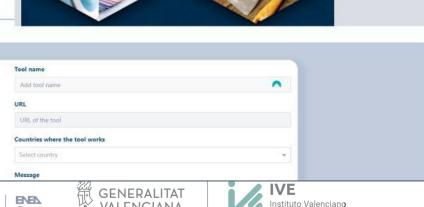






Ana Sanchis Huertas ▼





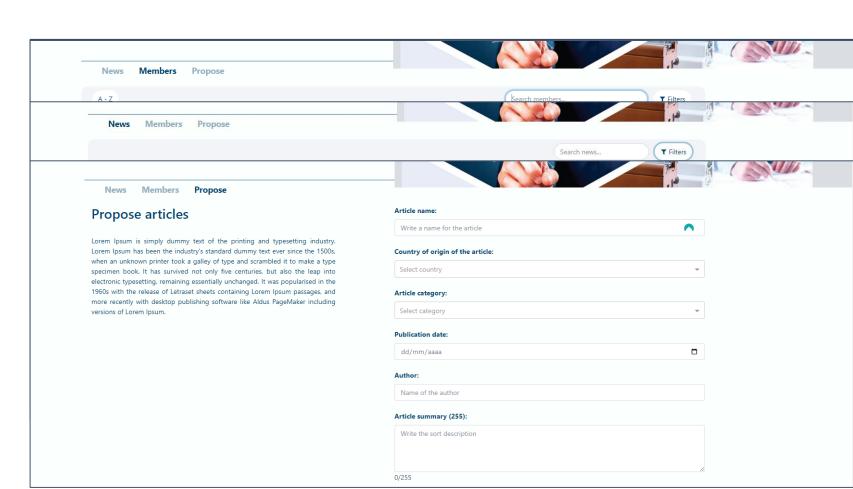


Activity Hub

Status

- ◆Register user
- **◆**Search
- **→**Filter
- Search by word
- ◆Order by
- **→**Propose



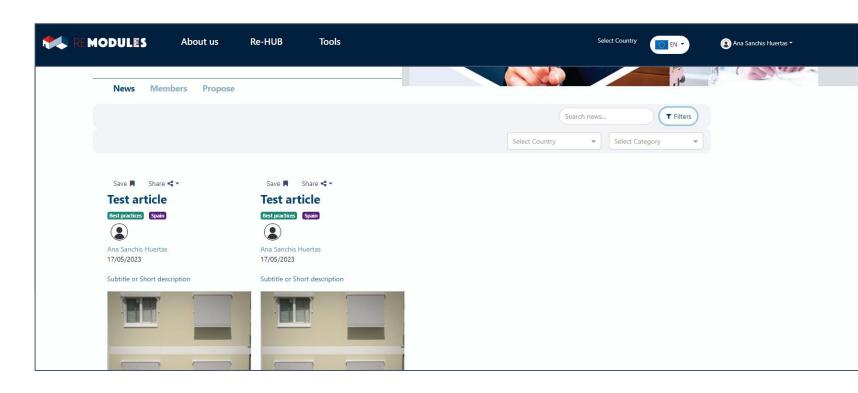




Activity Hub

To improve

- Complete registry
- → Multilanguage
- ◆More filtering









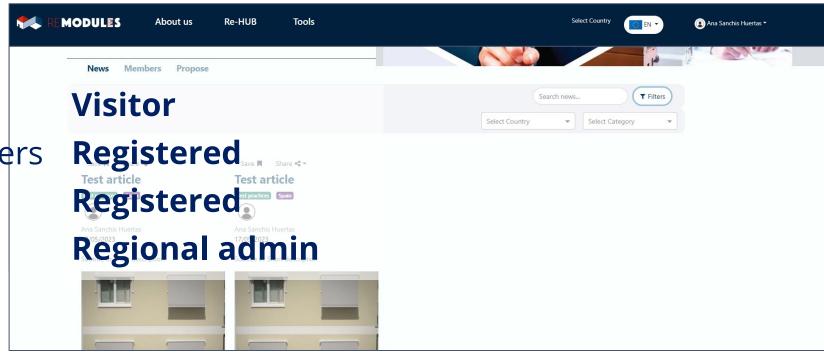




Activity Hub

Who can do what?

- ◆See news
- ◆See/ contact members
- Propose news
- **◆**Validate







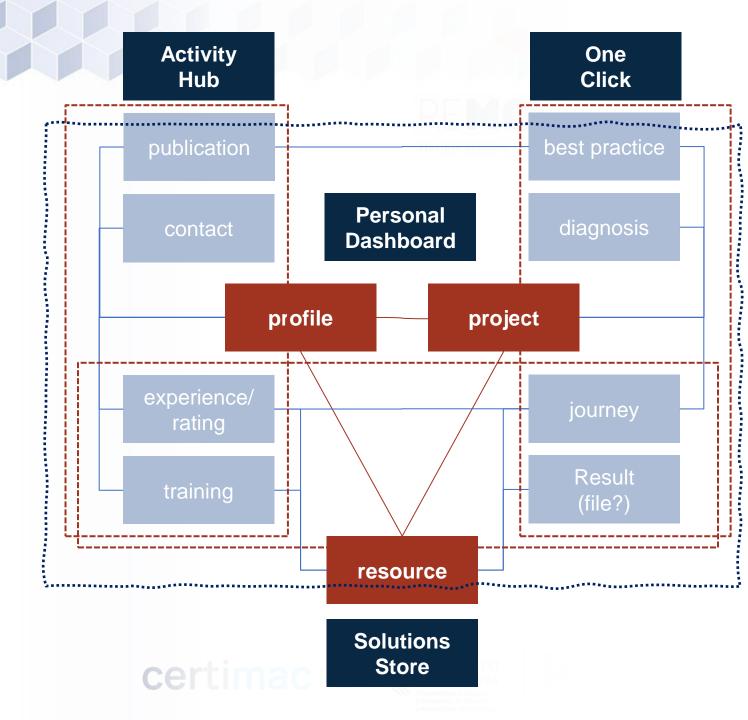




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Thank you



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