

# Web portal (second stage)-Vocabulary- Case study library- ESR profiling (first stage)

Deliverables 5.2-5.5-5.6 and 5-7

**Lead Beneficiary:** FUNITEC (La Salle-URL) **Due date:** September 30, 2021 (month 12)

Submission date: October 28, 2021 (month 13)

Version: 1

**Dissemination level: Public** 

#### www.re-dwell.eu



RE-DWELL "Delivering affordable and sustainable housing in Europe" has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No 956082

The European Commission's support for the production of this publication does not constitute an endorsement of the contents, which reflect the views only of the authors, and the Commission cannot be held responsible for any use which may be made of the information contained therein.

#### **RE-DWELL**

Deliverable 5.2 Web portal (first stage)
Deliverable 5.5 Vocabulary
Deliverable 5.6 Case study library
Deliverable 5.7 ESR profiling (first stage)

Version 1

### **Authors:**

Álvaro Sicilia (FUNITEC-La Salle URL)

Marta Salgado ((FUNITEC-La Salle URL)

Laura Membrado (FUNITEC-La Salle URL)

Leandro Madrazo (FUNITEC-La Salle URL)

Version	Date	Changes
1	October 28, 2021	First version

## Table of contents

Ex	ecutive	sum	nmary	6		
1.	Introd	luction				
2. Project website				7		
	2.1.	Hon	nepage	7		
2.2. Main menu		Mair	n menu	9		
	2.3. About		ut	10		
2.4. ESRs		ESR	<sup>9</sup> s	14		
	2.4.1.		ESR profile	14		
	2.5.	Sup	ervisors	16		
2.5.1		5.1.	Supervisor profile	.17		
			ning	18		
			earch	19		
2.8.1. Vocabulary		Kno	wledge base	23		
		3.1.	Vocabulary	23		
		3.2.	Case Studies	24		
	2.10. News		g	26		
			vs	28		
			tact	29		
	2.12.	Bac	k office	.31		
3.	Techn	chnical specifications3				

## **Executive summary**

This report contains the work corresponding to four deliverables:

- Deliverable 5.2 Web portal (second stage), follow-up of Deliverable 5.1 "Web portal (first stage)"
- Deliverable 5.5 Vocabulary, online glossary of the networks' research
- Deliverable 5.6 Case study library, online collection of documented references
- Deliverable 5.7 ESR profiling (first stage), continuous reporting of the work done by ESRs

The four deliverables refer to components of the project website that are interrelated. To facilitate the understanding of these interrelationships, the four deliverables are presented in a single document.

## 1. Introduction

This document provides a description of the interfaces and functionalities of the RE-DWELL website, in its second stage of development. A previous release of the website was reported in Deliverable 5.1 "Web portal (first stage)" in month 6.

The design and programming of the website has been undertaken by the ARC Engineering and Architecture research group from La Salle-URL (FUNITEC), coordinator of the project.

The second stage of the web development was carried out in successive iterations, starting in June 2021 with the version reported in Deliverable 5.1, and ending with the latest release in September 2021. During this development process, mock-ups of the website were shared with partners to get their feedback.

The development of the website has run in parallel to the project activities of the project (e.g., ESRs profile, Career Development Plan, and the creation of the vocabulary). In addition, as new needs emerged during the implementation of the work programme, the development of the digital platform had to be continuously adapted to respond to them.

## 2. Project website

A first version of the website (www.re-dwell.eu) was operational in the first months of the project (see Deliverable 5.1). In successive developments, the initial structure was upgraded with new functionalities. Although it can be considered completed, the website described in this report is still subject to further improvements during the remainder of the project.

## 2.1. Homepage

The home page (Figure 1) is vertically structured in the following areas:

- Menu and sub-menus
- Header, composed of two parts:
  - A carrousel of reference examples on affordable and sustainable housing
  - o Events and news highlights
- Latest blog entries, created by ESRs and supervisors
- News
- Information about the consortium
- Brief description of RE-DWELL, highlighting the main features of the project
- Footer with shortcuts to main menus, legal disclaimers



Figure 1. RE-DWELL Homepage

### 2.2. Main menu

The main menu is structured in the following sections and sub-menus:

#### **About**

- <u>Network:</u> Description of the network objectives, its methodological approach, and research areas.
- Work packages: Description of the five work packages of the project and how they are related to the research areas. Each work package is introduced, and a detailed description can be downloaded in PDF format.
- Selection process: Explanation of how the recruitment process was carried out at the beginning of the project. The number of applicants of each stage is shown for transparency purposes.
- <u>Consortium:</u> beneficiaries and partner organizations, within and outside the consortium, engaged in the project activities.
- Early Stage Researchers (ESRs): List of the ESRs participating in the project.
- <u>Supervisors:</u> List of supervisors from higher-education institutions and experts from partners organisations in which ESRs will carry out the secondments.

#### **Training**

- <u>Courses</u>: Description of the courses to provide basic knowledge to carry out research on affordable and sustainable housing and the basic skills required to carry out individual research projects.
- Activities: Network activities such as workshops, summer schools, conferences, and secondments in which ESRs, supervisors and secondments will meet regularly in person during the project lifetime.

#### Research

- <u>Programme</u>: Description of the three research areas in which the individual research projects will be carried out.
- Projects: Description of the fifteen research projects to be carried out by the ERSs.

#### Knowledge base

- Vocabulary: List of terms and descriptions provided by ESRs in the course of their research.
- <u>Case studies</u>: List of case studies described and compiled by ESRs for their personal research projects.

#### Blog

Entries written by ESRs and supervisors.

#### Naws

Information about the network activities and events such as recruitment process, courses, and workshops.

#### **Contact**

A contact form to send a message to the official email address of the project.

## 2.3. **About**

About contains a sub-menu including network, work packages, the selection process, and consortium.

The **Network** page contains information about the research programme, its holistic approach to the affordability and sustainability of housing through a transdisciplinary perspective (Figure 2).



Figure 2. Network page

The **Work packages** page contains the list of work packages with their main components: title, description, main beneficiary, duration, and a downloadable document with a detailed description of tasks, subtasks, and deliverables (Figure 3).

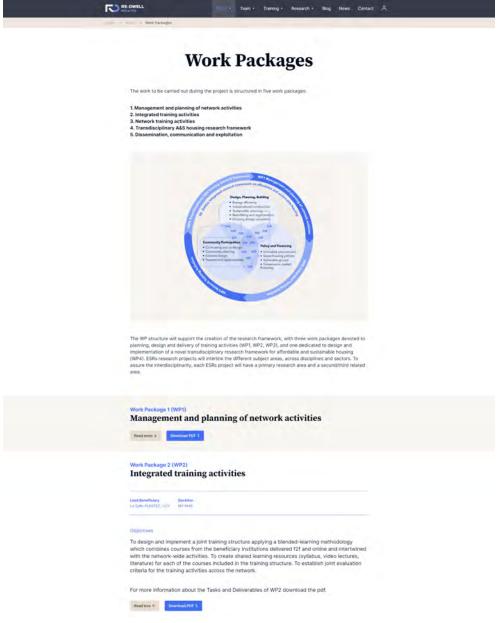


Figure 3. Work packages page

In the **Selection process** contains information about the recruitment process, preselection (November 2020 – March 2021) and final selection (mid-march 2021). For each stage, there is a summary of the number of applicants and countries, and the number of selected fellows (Figure 4).

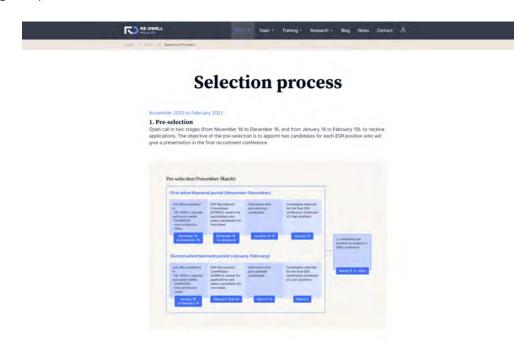


Figure 4. Selection process page

The **Consortium page** includes the profiles of the 10 beneficiaries from higher education institutions and the 12 partner organisations where the ESRS will carry out their secondments. (Figure 5).

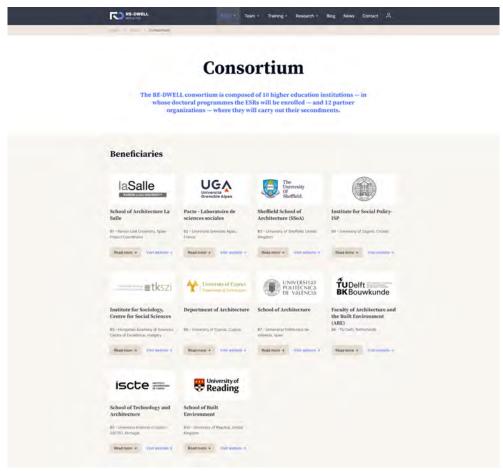


Figure 5. Consortium page

## 2.4. **ESRs**

This section provides information about the ESRs (Figure 6).

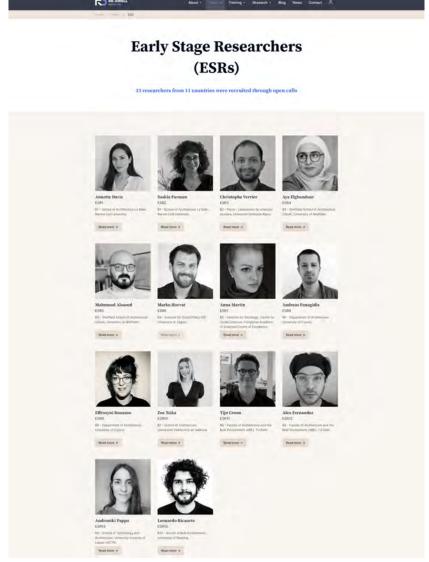


Figure 6. ESRs list page

### 2.4.1. ESR profile

The single view of an ESR profile contains the following information (Figure 7):

- Name of the ESR and a picture
- Host university
- Supervising team: one supervisor and two supervisors (Linked to supervisors' profile)
- Secondments (Linked to partners organisation profile)

- Related research project (Linked to research section)
- Social media links (Instagram, Twitter, LinkedIn, email) of the ESR
- A short CV of the ESR

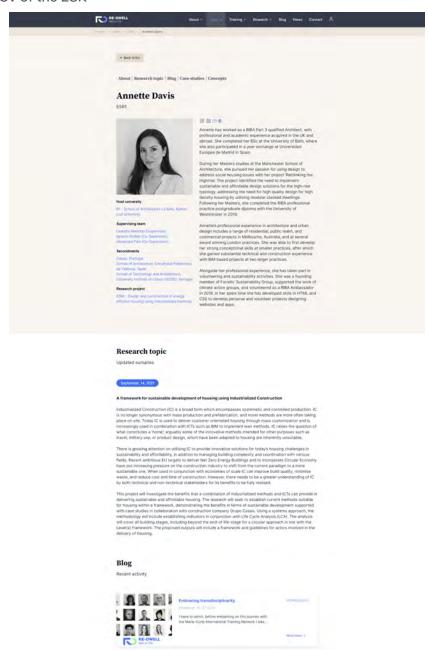


Figure 7. Individual profile of a ESR

Furthermore, the following sections publish the outcomes of the ESR:

- Research topic section describes the research of the ESR. It might include different version when the ESR makes progress on her/his research.
- Blog section shows the latest entries written by the ESR (linked to the blog page)
- Case studies section containing the case studies initiated by the ESR
- Concepts sections that describes the concepts described by the ESR

## 2.5. Supervisors

This section provides information about the supervisors and co-supervisors (Figure 8).

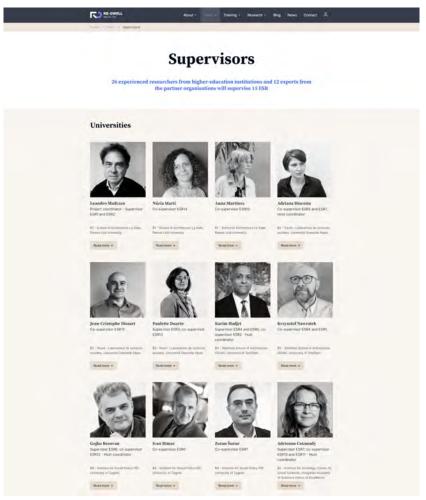


Figure 8. Supervisors page

### 2.5.1. Supervisor profile

The single view of a supervisor profile contains the following information (Figure 9):

- Name of the supervisor and picture
- Roles in the project (e.g., coordinator, host coordinator, supervisor, co-supervisor)
- Host university
- A short bio of the supervisor

Furthermore, there are sections to highlight the activity carried out by the supervisor within the project such as:

- Courses that the supervisor has participated in as lecturer
- Activities that the supervisor has participated in
- Blog section shows the latest entries written by the supervisor (linked to the blog page)

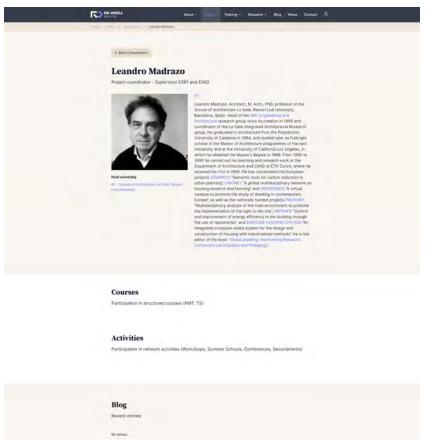


Figure 9. Individual profile of a supervisor

## 2.6. Training

This section is divided into courses and activities to be carried out in the network. (Figure 10).

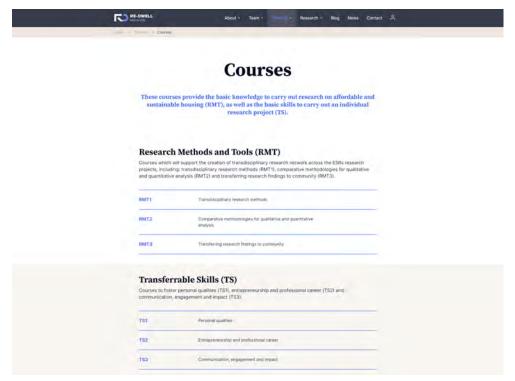


Figure 10. Courses page

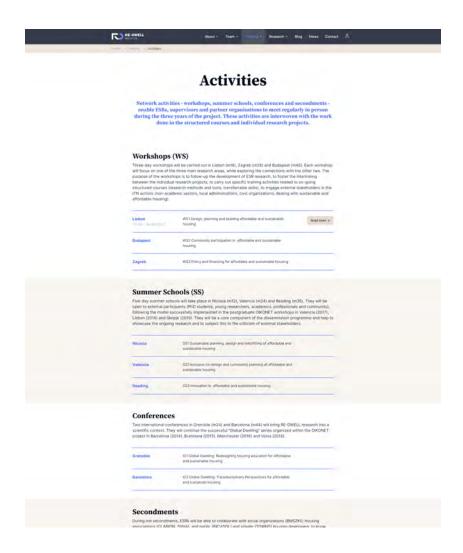


Figure 11. Activities page

## 2.7. Research

This section is divided into the research programme and the individual research projects.

The programme page describes the three areas in which the research projects will be conducted: "Design, planning, and building"; "Community participation"; and "Policy and financing" (Figure 12).

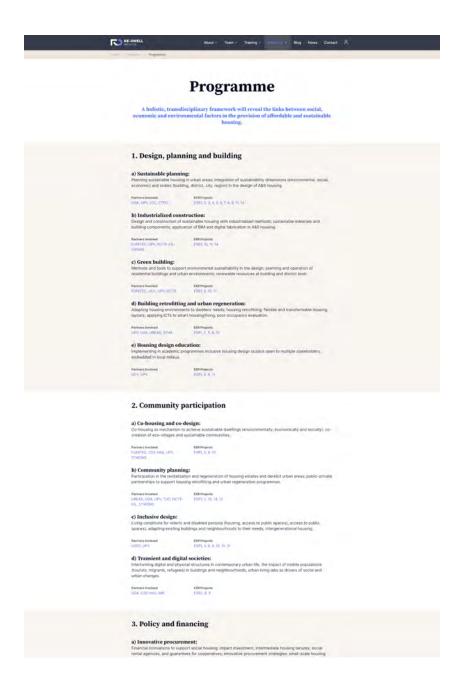


Figure 12. Programme page

In the research projects ESRs projects are summarized, as they were written in the proposal. (Figure 13).



Figure 13. Research projects page

The individual research project page contains the details of the project (Figure 14):

- Supervising team (supervisor, co-supervisors, and secondments)
- Description of the project
- List of tasks to be carried out
- Description of the host university
- Contact person.

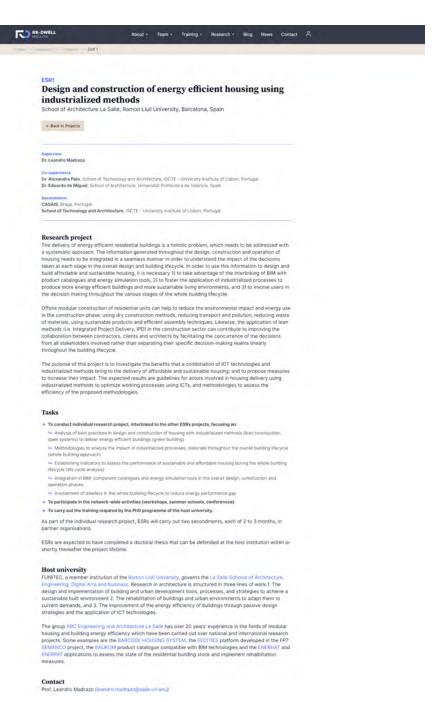


Figure 14. Individual research project page

## 2.8. Knowledge base

This section is divided into the Vocabulary and the Case studies sections.

### 2.8.1. Vocabulary

The vocabulary contains a list of terms that are related to the research conducted in the network (Figure 15). Each term can have multiple definitions related to the three research areas.

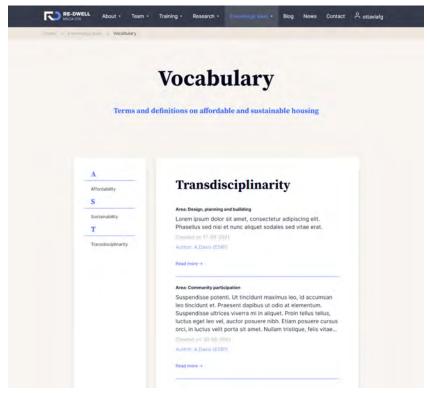


Figure 15. Vocabulary page

The single view of a term definition contains its name, description, research area and the author of the entry (Figure 16).

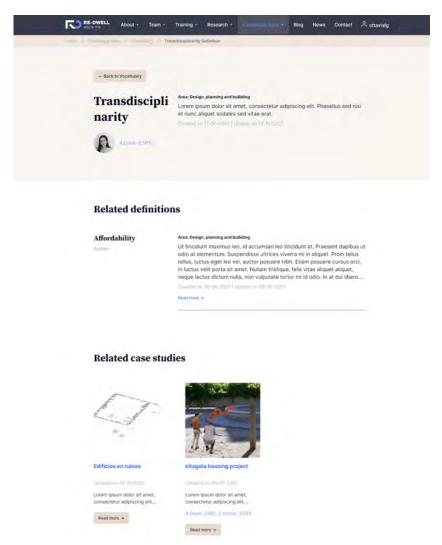


Figure 16. A term definition page

### 2.8.2. Case Studies

This section is a library of documented examples collected by the ESRs in the course of their research on affordable and sustainable housing.



## **Case Studies**

Library of documented and collaboratively studied cases on affordable and sustainable housing

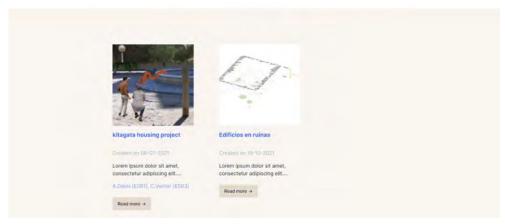


Figure 17. Case studies page

A single view of a case study contains the title, description, owners, an iconic image, and other images to document the case. There are also sections for the related concepts, reference documents and related blog entries.

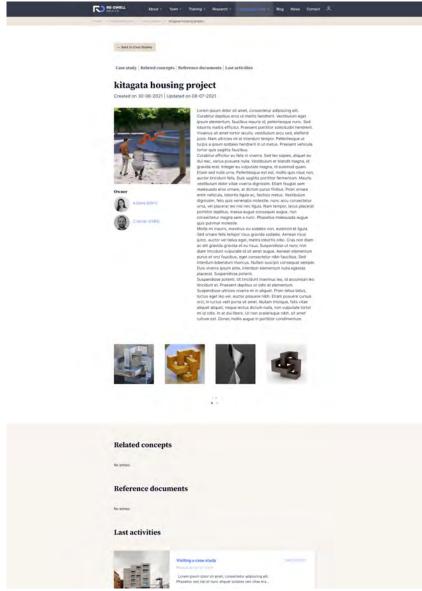


Figure 18. A case study page

## 2.9. **Blog**

The blog posts are intended to contain the findings and reflections of ESRs and supervisors in the course of the network's research activities. (Figure 19).

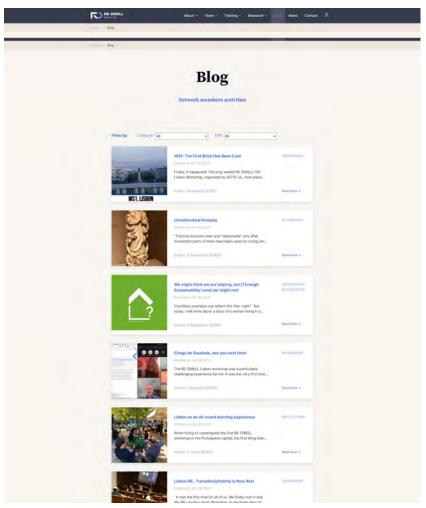


Figure 19. Blog page

The single view of the blog includes the related information (Figure 20). The blog entries are classified into categories (e.g., workshops, reflections...), can have attached documents, and can be related to case studies.



Figure 20. View of one of the posted blog entries

## 2.10. News

News items are published in the website as well as in the social media channels (Figure 21).

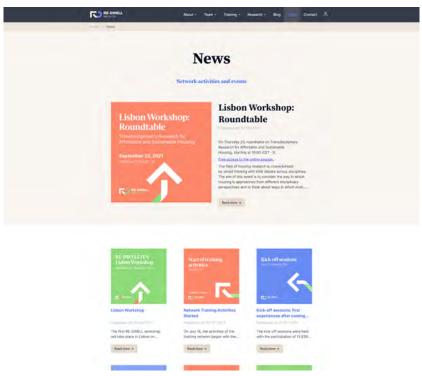


Figure 21. News

The single view of the News includes the related information (Figure 22).

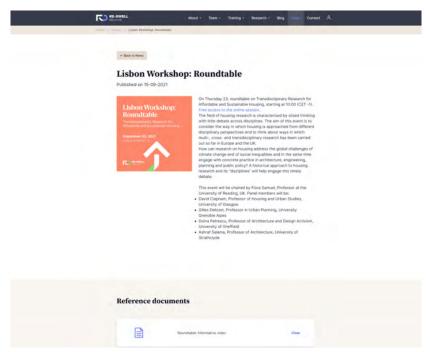


Figure 22. View of one of the posted news

## 2.11. Contact

Visitors of the web portal can write an email to the official mail address (<u>info@re-dwell.eu</u>) using an integrated form (Figure 23).

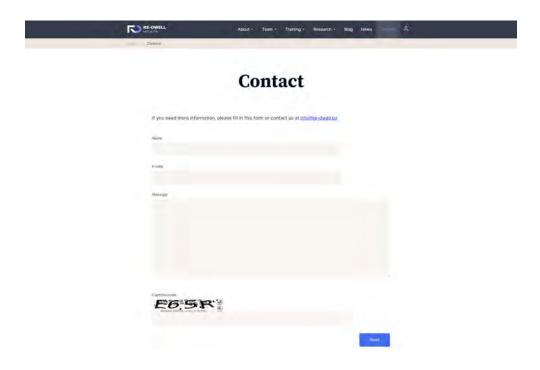


Figure 23. Contact form

### 2.12. Back office

The contents of the web portal are introduced by registered users (ESRs and supervisors) using a back office. For each content type (e.g., blog entries, vocabulary, case studies, news) there is a table for listing the contents (Figure 24) and a form for adding/editing them (Figure 25).

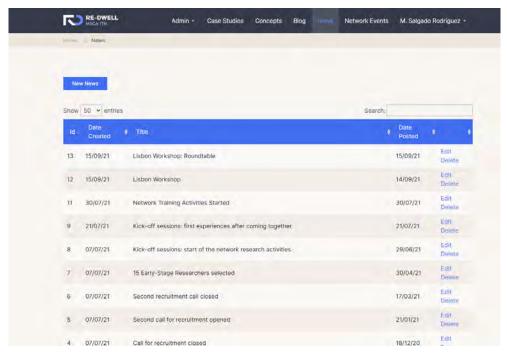


Figure 24. An example of table to list the news

With the adding/editing form, the related information can be introduced. For example, when a case study is created, it can be related to existing terms and blog entries (Figure 25). Through the interwoven forms, it is possible to create the networked contents.

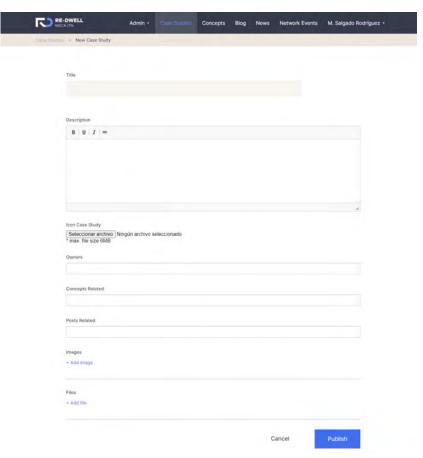


Figure 25. Case study new form

## 3. Technical specifications

To develop the RE-DWELL web portal, we have used the Symfony PHP framework. This framework will enable the further development of the website components, without having to redo the entire application. It will also facilitate the maintenance and upgrading of the system.

Symfony was chosen among other options because:

- Its modularity enables the creation of a complex system based on small components.
- Its bundle system provides functionalities that can be used in different projects, which makes it easy to extend the system without having to redo everything.
- Its stability; it has a large active community of user that assures its continuous improvement.

Symfony follows an MVC (Model-View-Controller) software architecture model, that is to say, it separates the data, the event and communication management from their representation in the application. Twig is used as the application template system. Symfony is linked to a library called Doctrine, a set of tools to facilitate the interaction with the MySQL database. For the front-end we have opted for the use of Javascript libraries, which facilitate the

required dynamism of the user interaction. Finally, to comply with the graphic design specifications we have adopted the CSS3 graphic design language, using Sass compiled extension language which facilitates the management of styles in complex applications.

To improve the quality of the RE-DWELL web portal, tools are used to audit performance, accessibility and optimisation for different search engines. These tools perform a test according to current standards and recognised best practices, and the result tells you which points can be improved in order to increase the quality of your system. Currently, A-Place uses the open-source tool Google Lighthouse to obtain an overall assessment of the application and a specific tool to measure accessibility, called axe DevTools - Web Accessibility Testing. Further usability tests have not been performed at the moment of writing.