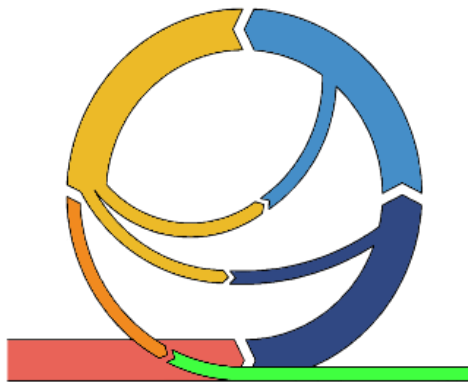


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|----------------------------|--|--------------------|--------------|
| <b>Deliverable number</b>  | D2.1   | <b>Due date</b>    | 31/07/2019   |
| <b>Deliverable title</b>   | Project website and communication infrastructure | <b>Issue date</b>  | 03/08/2019   |
| <b>WP number</b>           | WP2  | <b>Author(s)</b>   | UNICAL       |
| <b>Lead Beneficiary</b>    | UNICAL   | <b>Reviewer(s)</b> | All partners |
| <b>Deliverable type</b>    | Report   | <b>Status</b>      | Revision 1.1 |
| <b>Dissemination level</b> | Public   |                    |              |

2020-MSCA-RISE-2018

**REMIND: Renewable Energies for Water Treatment and Reuse in Mining Industries**



Deliverable D2.1

## Project website and communication infrastructure

| Version | Modifications  | Date       | Author(s) |
|---------|----------------|------------|-----------|
| 1.1     | Final          | 03/08/2019 | UNICAL    |
|         | Final/Approved |            | UNICAL    |

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## 1. Introduction

REMIND Project website ([www.remindproject.eu](http://www.remindproject.eu)) is built on top of Django (<https://www.djangoproject.com/>), a renowned Open Source Python Web Framework.

Django encourages rapid development and clean, pragmatic design. It's built by experienced developers and takes care of much of the hassle of Web development, it focuses on writing softwares without needing to reinvent the wheel.

It's free and open source, it's one of the most secure, fast and scalable system of these days.

One of the special feature of REMIND project website that came from Django is the Search Engine Optimization. The search engines do use some algorithms which sometimes doesn't cooperate much with the web-developer; this won't happen with this website because Django clears that concept by maintaining the website through URLs rather than the IP addresses on the server, which makes it easy for SEO engineers to add the website to the server while the web-developer won't need to convert the URL into some numeric code. These and other features filled in by Django framework are well described in the Django official documentation, this paper will describe instead the Remind Project specification in relation of its technical goals often referring to the framework on which it was developed.

### General technical specifications

- Hosted by Università della Calabria, ICT Datacenter;
- Server O.S.: Linux Debian Buster;
- Database: MariaDB;
- Httpd: Nginx;
- Server side language: Python.

### Features

- Frontend and backend interfaces;
- Showcase system;
- Content Management System;
- Custom HTML5 Responsive template;
- GDPR Compliant.

## **2. Logical structure of the project**

The logical project structure follows the MVT patterns (Model View Controller) giving us the files it is providing with a solid foundation which can then be used to make whichever application we want to create. All that with integration with almost all the technologies out there with upgradations is by fulfilling the industry standards. It allows extending the developed project with all the technologies we work with and also with the upcoming ones.

This also introduces a High Security Asset by default. It covers the loopholes which were once left open for the backend developer to complete.

The writing of this project started totally from scratch while that accounts for its other features as well, but it also accounts for the security standard implementation with this framework.

We can also say that we can't get the security at such a huge scale with this much expertise level of code in other technologies, it's been written by web-developers keeping in mind what problems are faced by the same and with that to get a rapid development speed.

## **3. Frontend and backend interfaces**

REMIND project website comes with two interfaces, frontend and backend.

The first one is intended for public audience and contains and represent the landing page and all the public content available through internet.

The backend is a completely different interface where staff users can publish and make changes on the website (frontend) contents.

Every interface is deployed behind TLS httpd secure socket layer, using "Let's Encrypt" Consortium renewable certificates.

#### 4. Showcase system

REMIND project website frontend comes with a showcase publication system that composes the main part of its landing page.

In this interface each section can be represented like a fragment of the business card, used to show the project activities and goals to a potentially infinite public Internet audience.

Project goals, activities, members of the team, consortium, can be dynamically represented and modified in real-time by staff users.

This project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement No 823948.

**REMIND**  
Renewable Energies for Water Treatment  
and REuse in Mining Industries

Call  
H2020-MSCA-RISE-2018  
Start Date  
2018 | 11 | 01

HOME CONSORTIUM PROJECT ACTIVITIES PUBLICATIONS DATA SOURCES LINKS CONTACTS

European Commission | Horizon 2020 European Union funding for Research & Innovation

REMIND Is a Horizon 2020 Research and Innovation Staff Exchange (RISE) Project – i.e a Marie Skłodowska-Curie Actions. This project aims to develop a new paradigm in the mining management to address a zero water–energy balance.

The REMIND collaborative network among European Union, Chile and Ecuador is in line with EU policy and strategy for raw materials supply; moreover, this partnership supports the economic and research efforts of Latin American countries towards a more eco-friendly and RES-driven development.

26 July 2019  
**See you in Seville - December 2019**  
The next REMIND progress meeting will be held at University of Seville (Spain)  
[Read more »](#)

#### 5. Content Management System (CMS)

A content management system (CMS) is at the root of the publication engine and it manages globally the creation and modification of digital contents, also supporting multiple users in a collaborative environment.

For REMIND project website we choose to build a CMS to have the following features:

- Intuitive indexing, search and retrieval features index all data for easy access through search functions and allow users to search by attributes such as publication dates, keywords or author.
- Format management facilitates turn scanned paper documents and legacy electronic documents into HTML or PDF documents.
- Revision features allow content to be updated and edited after initial publication. Revision control also tracks any changes made to files by individuals.
- Publishing functionality allows individuals to use a template or a set of templates approved by the organization, as well as wizards and other tools to create or modify content.

As already seen in REMIND project website we developed a backend section and a frontend interface.

The backend with a reserved access to site administrators, this allow to publish/edit/remove news and events/activities, in order to generate dynamic contents in frontend section and update users with the latest project facts.

Select Evento to change

◀ All dates March 2019 April 2019

Action: -----  0 of 5 selected

| TITOLO  | DATA INIZIO                | DATA FINE                 | PUBBLICATO |
|---|----------------------------|---------------------------|------------|
| <input type="checkbox"/> Circular Economy Seminar   | April 11, 2019, 11:41 a.m. | May 30, 2029, 11:41 a.m.  | ☑          |
| <input type="checkbox"/> Creating Value from Seawater Desalination Brine: An Integrated Membrane-Based Approach | March 22, 2019, 11 a.m.    | March 22, 2029, noon      | ☑          |
| <input type="checkbox"/> Seminar ABB  | March 21, 2019, 11:37 a.m. | May 30, 2029, 11:37 a.m.  | ☑          |
| <input type="checkbox"/> Seminar UAI  | March 15, 2019, 11:35 a.m. | May 30, 2029, 11:35 a.m.  | ☑          |
| <input type="checkbox"/> Kick-off REMIND  | March 1, 2019, 11:24 a.m.  | March 1, 2029, 11:24 a.m. | ☑          |

5 Eventi

## Events/Activities list

Change Evento

Titolo:

Slug:

Location:

Banner: Currently: [events/2019/creating-value-seawater-desalination-brine-integra/etrem.jpg](#)   
Change:  Nessun file selezionato

Pubblicato

Data inizio:

Date:  Today

Time:  Now 🕒

Data fine:

Date:  Today

Time:  Now 🕒

Descrizione breve:

Descrizione lunga:

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Universidad Tecnologica Metropolitana. Edificio de Ciencia y Tecnologia (ECT-UTEM) Ignacio Valdivieso 2409, San Joaquin (Chile).  
 22 Marzo 2019, 11:00-12:00.  
 Eftrem Curcio, UNICAL. Invited Lecture: «Creating Value from Seawater Desalination Brine: An Integrated Membrane-Based Approach»

## ACTIVITIES



11 April 2019

### Circular Economy Seminar

Circular Economy Seminar

[Read more »](#)



22 March 2019

### Creating Value from Seawater Desalination Brine: An Integrated Membrane-Based Approach

Universidad Tecnologica Metropolitana

Universidad Tecnologica Metropolitana - San Joaquin (Chile)

[Read more »](#)



21 March 2019

### Seminar ABB

Seminar ABB

[Read more »](#)

## Activities



11 April 2019 11:04

### Circular Economy Seminar

None

Circular Economy Seminar

[Read more](#)



22 March 2019 11:03

### Creating Value From Seawater Desalination Brine: An Integrated Membrane-Based Approach

Universidad Tecnologica Metropolitana - San Joaquin (Chile)

Universidad Tecnologica Metropolitana

[Read more](#)



21 March 2019 11:03

### Seminar ABB

None

Seminar ABB

[Read more](#)



15 March 2019 11:03

### Seminar UAI

None

Seminar UAI

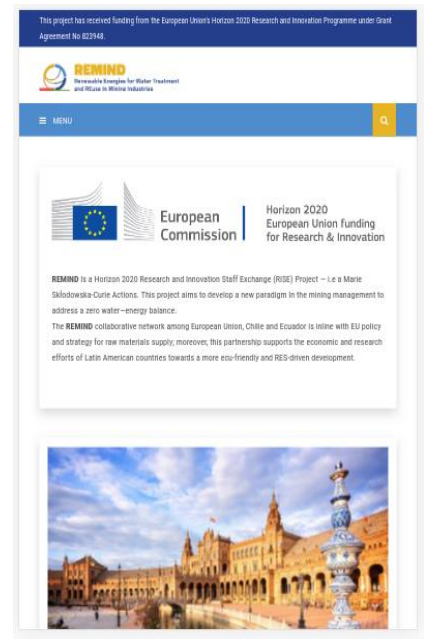
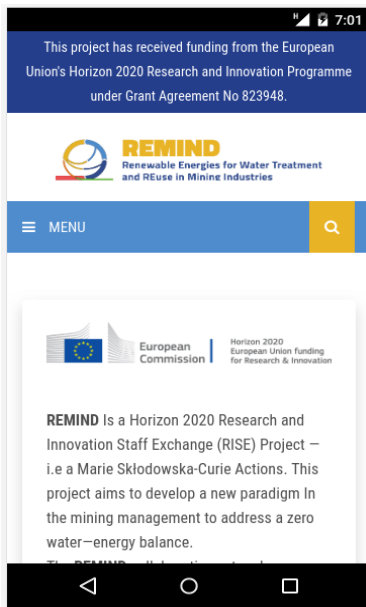
[Read more](#)

## 6. HTML5 Responsive template

REMIND project website is fully optimized for mobile devices.

It's Bootstrap (<https://getbootstrap.com/>) based template is responsive. Users can enjoy a smooth and fast browsing experience.

Some representation of the same landing page in different viewport size, these can be a mobile phone, a tablet and a workstation desktop.





## 7. GDPR Compliance

Backend user access is not allowed and website uses only session cookies for the staff users, there are any tracking cookies, passwords and backups are stored with the full respect of the General Data Protection Regulation ensuring security and privacy ([https://ec.europa.eu/info/law/law-topic/data-protection/reform\\_en?pk\\_source=google\\_ads&pk\\_medium=paid&pk\\_campaign=gdpr2019](https://ec.europa.eu/info/law/law-topic/data-protection/reform_en?pk_source=google_ads&pk_medium=paid&pk_campaign=gdpr2019)).

Any third party access to private users data will be not permitted, in addition to this REMIND project website won't collect any tracking data regarding user's behaviour, having in addition a strong data policy protection in place. Names, identification numbers, email addresses, location data, IP/MAC addresses or other network identifiers and one or more factors specific to the physical, physiological, genetic, mental, economic, cultural or social identity of that person are all examples of personal data that can directly identify a person won't be stored and classified by the system.

This permit us to avoid Data consent management but still have the possibility to export all its data in a human readable format (json), regarding all its users and published content to any other requesting and authorized controller, if needed.