



# D1.2 Internal test of EMERGE

## Website

WP1 Management- MGT



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## List of abbreviations

ALMA – ALMASCIENCE  
AMs – Activity managers  
CA – Consortium Agreement  
CO – Project coordinator  
CERTH – Ethniko Kentro Erevnas Kai Technologikis Anaptyxis  
EMERGE - Emerging Printed Electronics Research Infrastructure  
FLAPEP - Flexible Large-Area Printed Electronics and Photonics  
FZJ – Forschungszentrum Jülich GmbH  
FZJ/DCFI – Forschungszentrum Jülich GmbH/ Dynamics of Complex Fluids and Interfaces  
FZJ/HPG – Forschungszentrum Jülich GmbH/ High-throughput Processing Group  
HMU – Hellenic Mediterranean University  
ICN2 – Institut Català de Nanociència I Nanotecnologia  
ID – Identification  
JOR – Joanneum Research Forschungsgesellschaft mbH  
KBest – Knowledge and Best practice  
MCL – Materials Center Leoben Forschung GmbH  
Networking activity – NA  
RISE – Research Institutes of Sweden AB  
SCB – Selection Committee Board  
SEP – Single-Entry Point  
TA – Transnational access  
TLO – Technical liaison office  
TUD – Technische Universität Dresden  
TUD/FM – Technische Universität Dresden/ Molecular Functional Material  
TUD/IAPP – Technische Universität Dresden/ Dresden Integrated Center for Applied Physics and Photonic Materials  
UNOVA – Instituto de Desenvolvimento de Novas Tecnologias - UNINOVA  
UoA – Units of access  
WP – Work package  
WPL – Work package leader  
WUT/CEZAMAT – Warsaw University of Technology/ Centre for Advanced Materials and Technologies

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## 1. Executive Summary

This deliverable describes the results achieved within task 1.6 “Communication and Dissemination Management” (led by ALMA), being also connected to the dissemination purposes of the project (WP2). The work done aimed at setting up the main information and functionalities of the website as a Single-Entry Point (SEP) to find out about the project and access the services and infrastructures made available through EMERGE research infrastructure. Herein, a detailed structure of the EMERGE website is presented.

## 2. Phases for implementation

The current version resulted from a dialogue between the coordination (UNOVA), partners (represented by TLO board) and the ALMA team, in charge of setting up this SEP. The final version of the website is currently being developed by the company Boutik Studio (<https://boutik.pt/>) and will be online by the end of March 2022.

### 2.1. Step 1: Provisional single page of EMERGE

November 2021: A provisional single page website including the basic information about the project was setup and access credentials were provided to project partners. This website was setup through a free platform available at UNOVA, and its link is: <https://sites.fct.unl.pt/emerge/>. The purpose was to make early tests of the platform and exchange ideas with project partners to define the website structure. A snapshot of the homepage is shown in the Figure below.



*Figure 1 – Homepage of EMERGE provisional single page developed in November 2021.*

## 2.2. Step 2: Full website development

February 2022: The ultimate website is currently being developed by the company Boutik Studio, selected from multiple proposals based on the combined analysis of development/maintenance costs, implementation time, and track record.

## 2.3. Step 3: Full website in testing mode

March 2022: The test version of the full website will be shared among partners to test all functionalities and correct eventual issues detected. The testing phase will include submission of project proposals. Further specifications on the submission functionality are reported in deliverable report D2.1 “Implementation of online proposal submission tool”.

## 2.4. Step 4: Full website online

End of March 2022: The website will be made public, including the announcement of the first call for projects.

### 3. Technology

The website will be responsive, meaning it will allow users from any device (computer, smartphone, tablet) to navigate it easily, with contents and layout automatically adjusted to the screen size of the device used. The website will be built using the WordPress® platform, given its user friendliness, representing >30 % websites of WWW sites. The same platform will be used both for the public and private (proposal submission and management) areas of the website. Technological modules to be integrated include:

- Revolution Slider – sliders with images and/or videos
- Google Analytics – monitoring of visitor statistics
- Itheme Security – security
- Backupbuddy – backups
- SEO by Yoast – optimization (links, meta keywords...)
- GravityForms – contact/registration forms, allowing for database export

### 4. Architecture

The basic information about the project is all structured on a single home page, while the tools offered for transnational access activities, their description, geographical distribution among **EMERGE** access sites, and the guidelines and procedures to submit access proposals are built on separate pages, as detailed in the next sections.

#### 4.1. Homepage

The homepage includes the following contents:

- Header with access to the partners-restricted area (intranet, see section 5); log-in/sign-up options for potential users who are going to submit access proposals, as



this is a password protected area; summary of the tools potentially selected by the user in his/her wish list, and proposal submission button;

- Navigation bar with project logo, access to the tools catalogue (services and infrastructures), news section, project information (FLAPEP technologies) and proposal application guidelines (apply for innovation);
- A first, highlighted section of the homepage with the project headline and the 4 groups of installations;
- A map illustrating the **EMERGE** laboratories offering access to the tools offered.
- A slideshow of the logos of all EMERGE partners;
- The contacts section, stating the e-mail, telephone, fax number and postal address to get in touch with the project coordinating institute;
- The acknowledgement of funding for the project, including the EC flag, the funding program, contract number and duration of the project;
- The link to the privacy and cookies policy.

A schematic of the description above is shown in Figure 2.



Figure 2 – Website structure – upper portion of EMERGE web portal homepage.

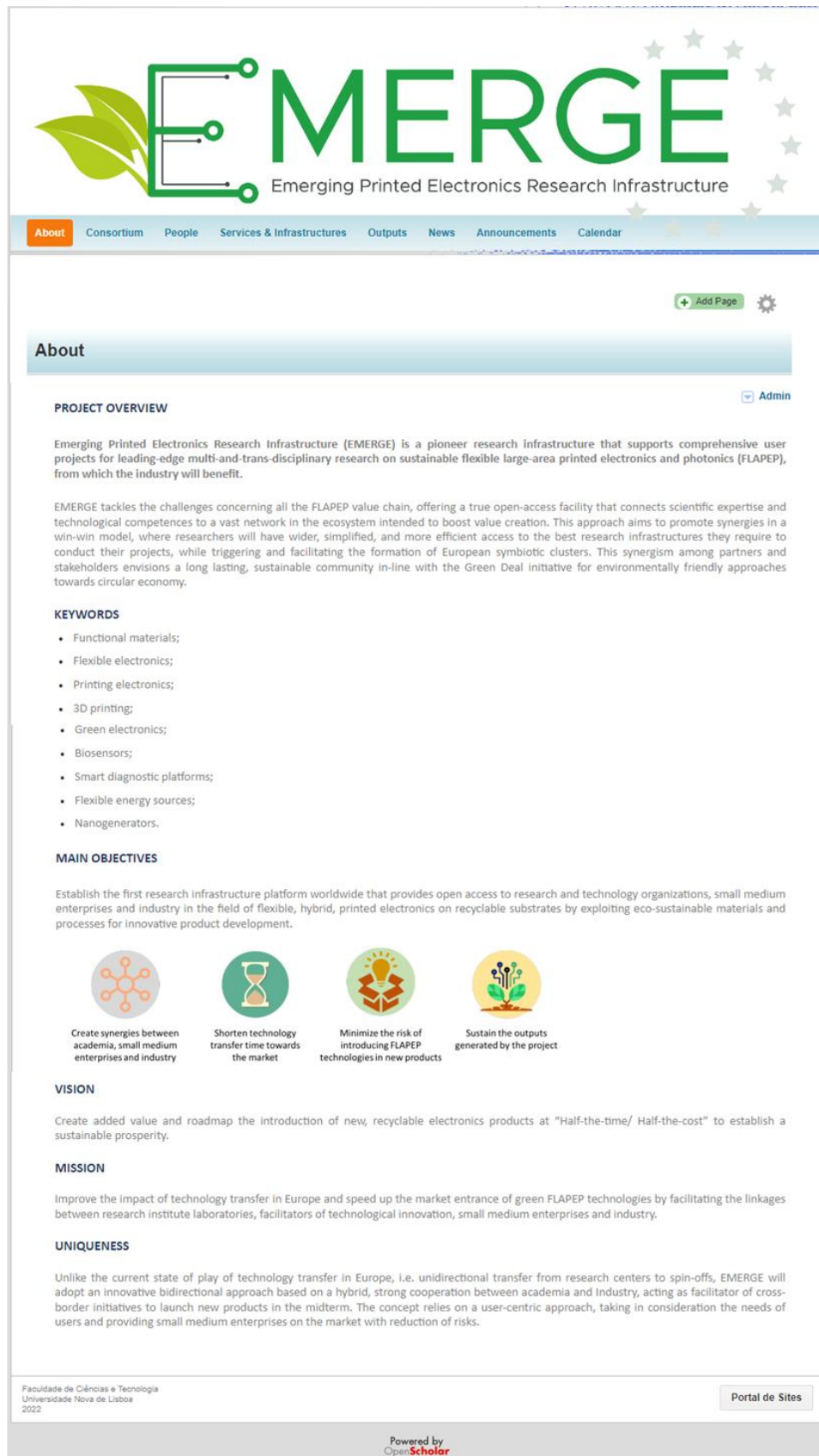
## 4.2. About

This section includes the main information about the project, such as the concept, the main objectives, its mission and the consortium geographical distribution.

This section is then divided in the subsections bellow and a screenshot of the *About* section of the provisional website is presented in Figure 3.

- Project overview;
- Keywords;
- Main objectives;
- Mission;
- Vision;
- Uniqueness;
- Consortium (Figure 4).

In the Consortium sub section all the persons involved in the project will be presented, as well as their contacts.



**About**

Consortium People Services & Infrastructures Outputs News Announcements Calendar

[+ Add Page](#)

**About**

[Admin](#)

**PROJECT OVERVIEW**

Emerging Printed Electronics Research Infrastructure (EMERGE) is a pioneer research infrastructure that supports comprehensive user projects for leading-edge multi-and-trans-disciplinary research on sustainable flexible large-area printed electronics and photonics (FLAPEP), from which the industry will benefit.


EMERGE tackles the challenges concerning all the FLAPEP value chain, offering a true open-access facility that connects scientific expertise and technological competences to a vast network in the ecosystem intended to boost value creation. This approach aims to promote synergies in a win-win model, where researchers will have wider, simplified, and more efficient access to the best research infrastructures they require to conduct their projects, while triggering and facilitating the formation of European symbiotic clusters. This synergism among partners and stakeholders envisions a long lasting, sustainable community in-line with the Green Deal initiative for environmentally friendly approaches towards circular economy.

**KEYWORDS**


- Functional materials;
- Flexible electronics;
- Printing electronics;
- 3D printing;
- Green electronics;
- Biosensors;
- Smart diagnostic platforms;
- Flexible energy sources;
- Nanogenerators.

**MAIN OBJECTIVES**


Establish the first research infrastructure platform worldwide that provides open access to research and technology organizations, small medium enterprises and industry in the field of flexible, hybrid, printed electronics on recyclable substrates by exploiting eco-sustainable materials and processes for innovative product development.



Create synergies between academia, small medium enterprises and industry



Shorten technology transfer time towards the market



Minimize the risk of introducing FLAPEP technologies in new products



Sustain the outputs generated by the project

**VISION**

Create added value and roadmap the introduction of new, recyclable electronics products at "Half-the-time/ Half-the-cost" to establish a sustainable prosperity.

**MISSION**

Improve the impact of technology transfer in Europe and speed up the market entrance of green FLAPEP technologies by facilitating the linkages between research institute laboratories, facilitators of technological innovation, small medium enterprises and industry.

**UNIQUENESS**

Unlike the current state of play of technology transfer in Europe, i.e. unidirectional transfer from research centers to spin-offs, EMERGE will adopt an innovative bidirectional approach based on a hybrid, strong cooperation between academia and Industry, acting as facilitator of cross-border initiatives to launch new products in the midterm. The concept relies on a user-centric approach, taking in consideration the needs of users and providing small medium enterprises on the market with reduction of risks.

Faculdade de Ciências e Tecnologia  
Universidade Nova de Lisboa  
2022

[Portal de Sites](#)

Powered by 

**Figure 3 – About section of the provisional website.**



Figure 4 – Partners logos.

### 4.3. FLAPEP technologies

This section will present information about the FLAPEP technology behind the mission of the EMERGE project. Videos and images of prototypes fabricated by EMERGE partners will also be displayed in this section.

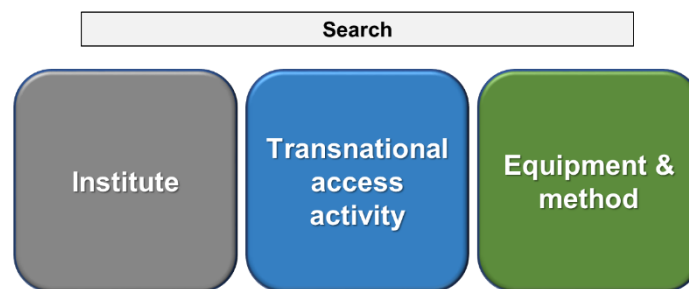
### 4.4. Services & Infrastructures

A user-friendly and aesthetic online catalog is going to be provided as a dedicated platform via the EMERGE portal, considering the variety of users and their needs, to create a structure that assures high visibility of instruments and techniques that are available within the EMERGE Consortium, as well as an easy-to-use search tool to explore the facilities. Further specifications on the search in this section are reported in deliverable report D2.1 “Implementation of the online two-step proposal submission”.

The search can be done from a drop-down menu in the way that the user finds most convenient, either by host institution (level 1), type of transnational access (TA) activity and installation (level 2), or equipment/ method (level 3), and then is allowed to further refine the search. After selecting the equipment/method, the user can compare technical specifications of the selected equipment /technique provided on the different sites (level 4)

and select the one the user prefers. Far more than getting valuable information about the offer from the online catalog, the user can select all desired options available in “equipment / method” section that better fit the needs of the project intended to be developed, by clicking on the small star button on the top right of each toolbox, which are automatically included in a “Wishlist”.

## Services & Infrastructures



Level 1: Country/ Institute  
Level 2: Transnational access activity/ installation  
Level 3: Equipment / method

*Figure 5 – Basic schematic of Services & Infrastructures section.*

### Level 1

The tools are divided into four installation groups (TA activities) on the home page and in the first level of the offer catalogue page, accessible by clicking on the “Services & Infrastructures” button of the navigation bar.

The four main categories of the TA activities are described below and represented in Figure 6.

- **Theory: Modelling, simulation, and design of materials, devices and systems:**
  - Device design and architectures
  - Modelling & simulation
- **Materials synthesis and ink formulation:**
  - Physical formulation techniques
  - Chemical formulation techniques
  - Materials characterization

- **Prototype fabrication:**
  - Industrial printing
  - Nanoimprinting and laser patterning
  - Vacuum assisted deposition
  - Functional 2D and 3D printing
- **Characterization of FLAPEP prototypes and demonstrators:**
  - Device metrology and characterization
  - Validation and standardization

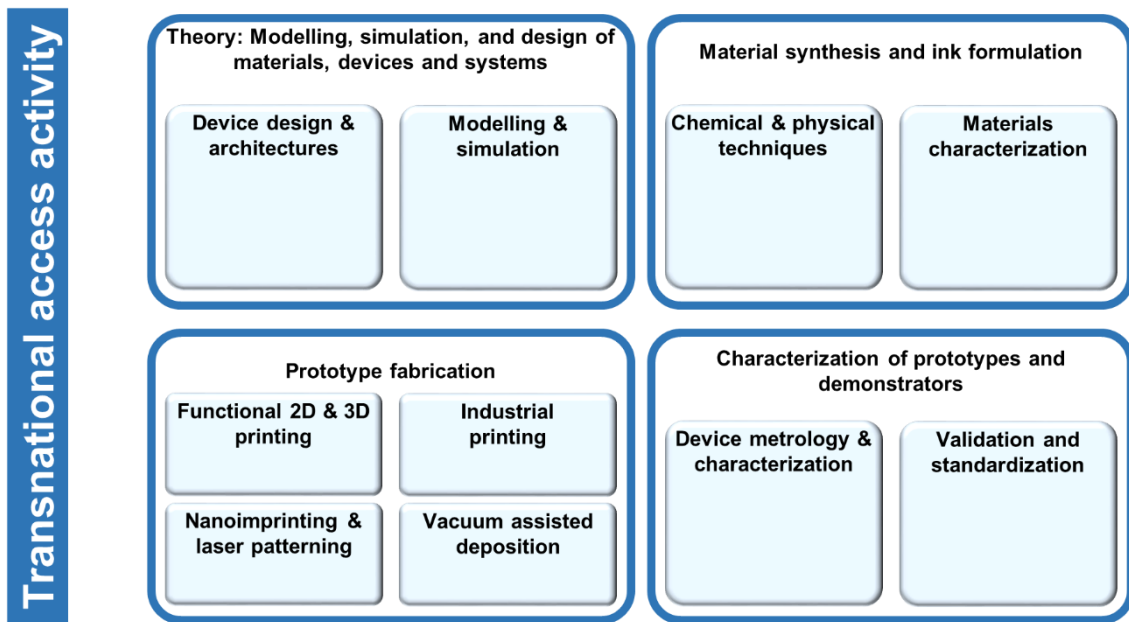
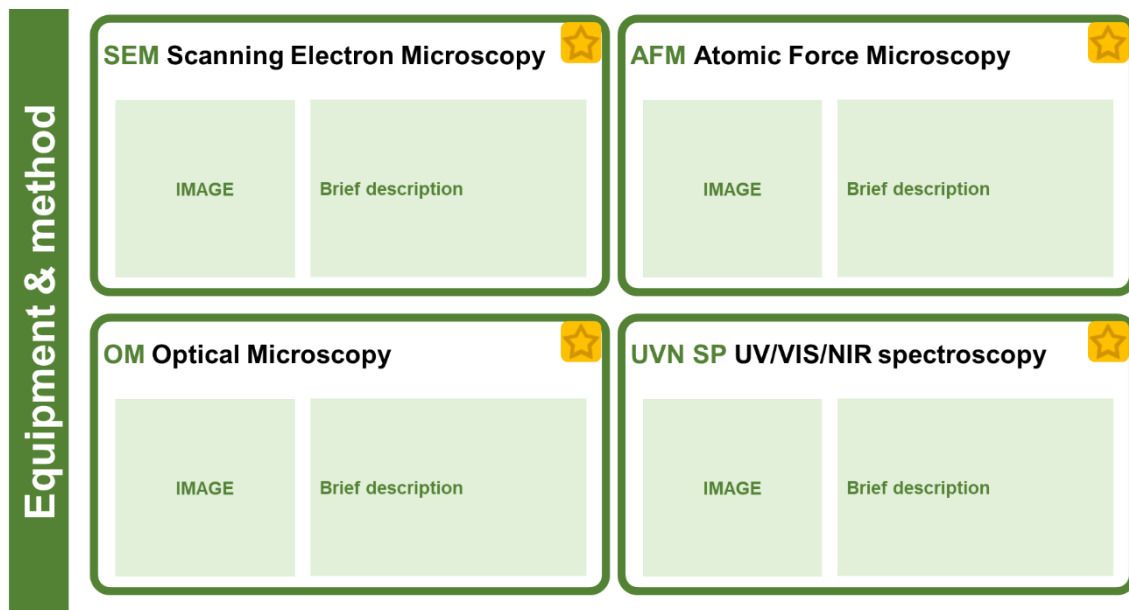


Figure 6 – Level 1 of the Services & Infrastructures catalogue.

### Level 2

By clicking on one of the four installation groups, the single tools available within each installation group appear, with an image and a description of the functionalities and technical specificities of each tool (as shown in Figure 7). Each tool can also be added to the wish list by clicking on a small starred flag appearing at the top right corner of the tool box.



**Figure 7 – Portion of level 2 of the Services & Infrastructures catalogue.**

### Level 3

The following level, accessible by clicking on the box of one specific tools available within an installation group, will take the user to a more detailed description, together with some illustrations and a map indicating the EMERGE sites offering access to this tool. It is possible to add the tool to the wish list also from this level.

## 4.5. Apply for Innovation

This page consists of information in hypertext for potential applicants. It explains:

- the eligibility criteria;
- the role of the technical liaison network;
- the proposal requirements;
- the online procedure to submit a proposal;
- how this is then evaluated and ranked;
- how EMERGE can support travel & subsistence costs for users in case the proposal is accepted.

Besides the information text, this page also allows switching back to the offer catalogue and forth to the online submission tool, which is part of Deliverable 2.1 “Implementation of online 2 step proposal submission”, and is therefore illustrated in Deliverable Report no. D2.1.

## 4.6. Dissemination

In this page the users will find several dissemination options ([Figure 8](#)). Besides the research projects, that will be funded by EMERGE, this project also aims to organize workshops, summer schools and conferences/symposiums. All this information will be announced in this area of the website. Moreover, the results obtained in the scope of EMERGE will also be publicized here. Other news related with the project will also be included in this section.

### Dissemination

- Virtual Training Courses
- Practical training courses
- Workshops
- Summer schools
- Conferences
- Publications
- News

*Figure 8 – List of dissemination options.*

## 4.7. Wishlist

As explained above, while browsing the offer catalogue, it is possible to add one or more tools to the wish list. By then navigating to the button “your wish list” in the header, it is possible to see the tools selected in the wish list, similarly to the shopping cart of an online shopping website. The next step, shown at the bottom of the wish list page, is to log-in and submit the access proposal, reported in Deliverable Report D2.1.

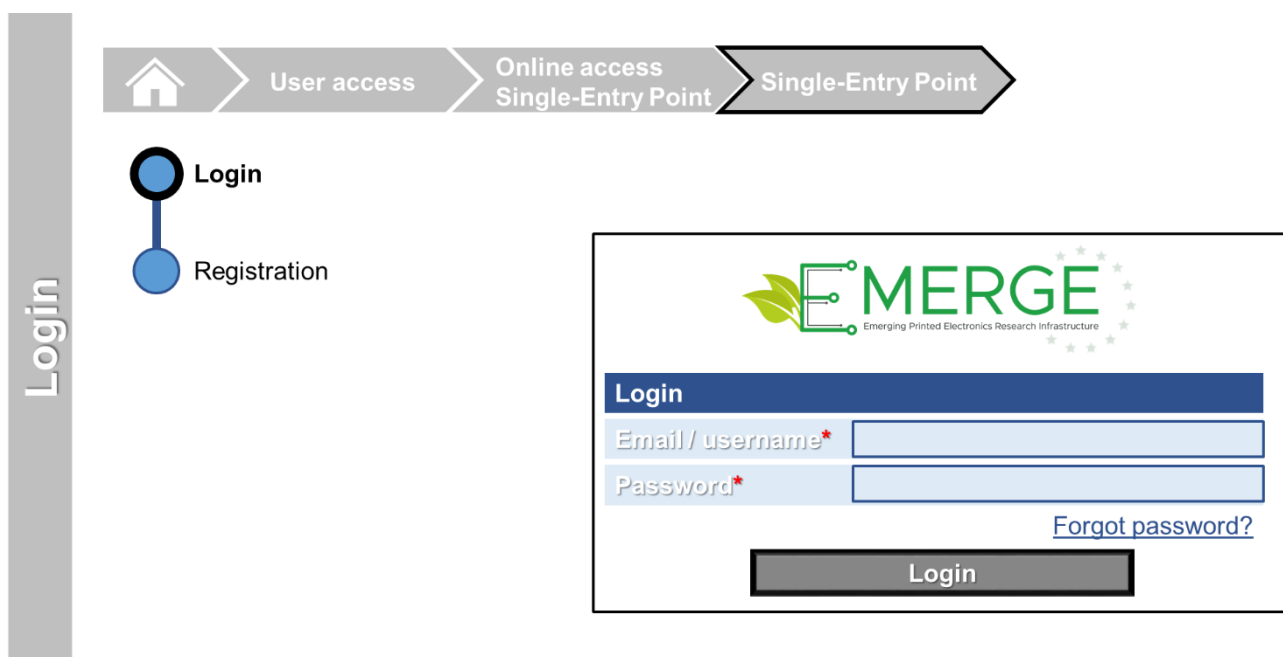
## 5. Intranet

All the pages explained above are publicly assessable. Moreover, EMERGE web portal also features a password-protected intranet ([Figure 9](#)) to be used by project partners and



selected users only defined by the system administrator. This intranet serves as a project and document management system, and its main features are summarized here below:

- Project management and deadline monitoring: the system allows users to view a representation of the work plan and timelines by work packages, and to see the deadlines for the following deliverables and milestones;
- Document repository: project partners and selected users obtain access to this content management system through username and password. They can be given different access permissions by the system administrator, such as downloading only, reading and writing new files, modifying the existing ones, deleting files. The purpose of this tool is to provide project partners with all the project-related documents into one single platform, where these are categorized according to the project-specific document types.



The screenshot shows the EMERGE Intranet login interface. At the top, a navigation bar includes a home icon, 'User access', 'Online access Single-Entry Point', and 'Single-Entry Point'. On the left, a vertical sidebar labeled 'Login' contains 'Login' and 'Registration' links. The main content area displays the EMERGE logo and a login form with the following elements:

- Header: Login
- Input field: Email / username\*
- Input field: Password\*
- Link: [Forgot password?](#)
- Button: Login

**Figure 9 – View of the login area in EMERGE Intranet.**

## 6. Final Remarks

The structure and initial tests of the EMERGE website (the Single-Entry Point, SEP) were established and the final website page is, at this stage, under development and it is expected to be finished in the next few weeks. The website will present all the information about the

project, its description, main goals and mission, as well as it will contain all the needed information to the users' applications to the projects that will be supported by the EMERGE project. Moreover, the restricted area of the EMERGE website will serve as an internal communication and information platform for exchanging all project information, also providing a workplace for internal tasks including consensus and decision making, it will be used as a structured document repository inside the KBest. It will also host the electronic pre-submission and submission of Transnational Access proposals.

During the website testing phase, it is planned to carry out some internal tests to perform all the necessary updates and improvements until the official launch of the website. In addition, a detailed tutorial on how to use the online submission tool by potential users will be available in the form of an instruction manual document and presented in a short video. Further optimization of the website will rely on users' feedback after submission of the first proposals.