

EMPOWERING CITIZENS
THROUGH STEAM
EDUCATION WITH
OPEN SCHOOLING

### **DELIVERABLE 6.2**

# OSHub.Network Digital Platform

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| Keywords                     | OSHub, Open Schooling, Communication, Dissemination, Digital platform   |  |

## **REVISION HISTORY**

| REVISION | DATE          | AUTHOR                              | ORGANISATION | DESCRIPTION   |
|----------|---------------|-------------------------------------|--------------|---------------|
| 0.1      | 25 March 2020 | Maria Vicente<br>and<br>Pedro Russo | ULEI         | Initial Draft |
| 0.2      | 15 May 2020   | All partners                        | All          | Review        |
| 0.3      | 30 June 2020  | Maria Vicente<br>and<br>Pedro Russo | ULEI         | Final version |

## LIST OF ACRONYMS

**DEFINITION ACRONYM** Application Programming Interface API Horizon 2020 HO2020 Open Science Hub **OSHub** Science, Technology, Engineering, Arts and Mathematics **STEAM TCD** Trinity College Dublin ULEI University of Leiden Work Package **WP** 

## **EXECUTIVE SUMMARY**

This document corresponds to Deliverable 6.2: OSHub.Network Digital Platform. The OSHub.Network Digital Platform aims at sharing the OSHub expertise, resources, and best practices with all OSHubs, their partners and the communities they serve, namely managing, sharing, distributing and disseminating information and news, open resources, open schooling projects of the OSHub. Network project, as well as initiatives and other relevant information for OSHubs and the wider Open Schooling community.

The OSHub.Network Digital Platform will be available in 8 languages, corresponding to the language of the partner countries:
Dutch, English, Italian, French, Austrian,
Czech, Portuguese, Greek.

In this deliverable we describe the Structure and Content of the website according to the outlined objectives.

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## 1. INTRODUCTION

## 1.1 Background: about OSHub.Network

The Open Science Hub Network (OSHub.Network), a consortium of nine partners across Europe, engages schools and local stakeholders in research and innovation as a tool for sustainable community development.

More specifically, the OSHub.Network is establishing a European network of community hubs – OSHubs, in communities that traditionally do not engage with research and innovation due to various barriers, geographical location, socio-economic status, or ethnic minority group background. OSHubs inspire, empower and engage citizens – from school children to senior citizens – in STEAM (Science, Technology, Engineering, Arts and Mathematics) learning and research opportunities, grounded on collaboration with societal agents.

As such, local OSHubs work as mediators in their local communities, positioning schools as active agents for collaboration between civil society, enterprises, research institutes, and families. This is performed by promoting an open schooling approach grounded in community-based participatory research practices: throughout this process, schools and communities identify local relevant challenges, which are then be transformed into relevant research and innovation projects, led by students and teachers, in collaboration with local stakeholders.

The OSHub.Network is developing a common methodological framework, that allows each OSHub to identify and analyse local needs, issues, opportunities and relevant actors, in order to address socio-economic, geographical, gender equity issues, and untapped growth potential. Inspired by the "Mission-Oriented Research & Innovation in the European Union" approach, developed by Mariana Mazzucato, OSHub.Network will define a set of Open Schooling Missions, aimed at addressing local relevant challenges linked to the Sustainable Development Goals. These Open Schooling Missions will then constitute the basis for the creation and development of the open schooling projects, enabling real collaboration across communities.

Importantly, to ensure diversity, inclusion and sustainability, in each OSHub location, there will be a local management board with representatives from local stakeholder groups – schools (including students), families, research institutes and universities, enterprises, industry, media, local governments, civil society organizations and wider society – which will be involved in all key processes and decisions regarding local OSHub programmes and initiatives.

Mariana Mazzucato (2018), Mission-Oriented Research and Innovation in the European Union – A problem solving approach to fuel innovation-led growth', European Commission, Retrieved from: https://ec.europa.eu/info/sites/info/files/mazzucato\_report\_2018.pdf

By supporting local schools and communities with the tools and network to tackle relevant challenges, OSHub.Network aims to create local impact while simultaneously promoting an active global citizenship attitude, thus contributing to community development, innovation and well-being.

To encourage usage and maximise impact in Europe and beyond, all resources, products and solutions developed by OSHub.Network will be fully based on Open Standards, such as open education, open technology, open science, open hardware, open design and open architecture. Also, OSHub. Network will create an online platform to share OSHub expertise, resources, and best practices with all OSHubs, their partners and the communities they serve. To ensure the legacy and reach of the project, all OSHub.Network resources will also be shared on existing large online educational repositories, and relevant national networks and repositories.

Finally, OSHubs will develop a legacy and sustainability plan, and will work closely with local governments, to ensure that each local OSHub has the tools and resources to continue beyond the lifetime of the project, and that the Open Schooling approach is incorporated in the school vision and organizational structure.

By the end of the project, it is expected that the OSHub.Network will have impacted 25 000 students, 1 250 teachers and 4 000 members of the community, through involvement in more than 150 school-university-industry-civil society partnerships in open schooling projects and activities.

In the long-run, we envision OSHubs as education brokers in their local communities, supporting local school networks to incorporate Open Schooling in their vision and organizational structure, leading to sustainable quality of education. Most particularly, OSHubs will facilitate the bridge between the needs and realities of schools and their local context and resources, as well as brokering for implementing national/regional policies, passing along signals from schools when policies are failing and advocating for context-sensitive policies.

## 1.2 Objectives of the OSHub.Network Digital Platform

The OSHub.Network Digital Platform is part of the Communication and Dissemination Plan outlined in "Deliverable 6.1 Communication and Dissemination Strategy", whose objectives are the following:

#### Communication objectives:

- To increase the understanding about the role of Open Schooling and building community partnerships – between schools, families, universities, research institutes, industry, enterprises, government, civil and wider society – in contributing to the development, innovation and well-being of local communities, by promoting a more scientifically interested and literate society while fostering responsible citizenship
- To clearly communicate the role of local OSHubs as mediators in local communities, positioning schools as active agents for collaboration between different societal actors, by promoting an open schooling approach grounded in community-based participatory research practices through STEAM learning opportunities
- To raise student awareness and interest in scientific careers
- To engage and support teachers and school heads in implementing Open Schooling initiatives in their teaching practices, leading to a change in the institutional culture of schools – to promote and increase the involvement of local actors in Open Schooling initiatives – to communicate the educational and societal relevance of the Open Schooling approach to policy-makers
- To promote sharing, networking and long-term partnerships within and between the communities where the OSHubs will be established, equalising educational opportunities regardless of geographic location or socio-economic background, via open standard materials and resources.

#### Dissemination objectives

- To build and run an effective and tailored communication and dissemination plan to engage the identified target groups and ensure the best impact of the project in each OSHub location and across the network
- To develop a comprehensive set of communications tools and materials to ensure an effective establishment of Open Schooling networks in each OSHub location and sharing across the network
- To communicate and disseminate the results within the project to identified target groups, through relevant dissemination channels, to ensure a successful positioning of the project, exposure and delivery of its results in each OSHub location and across the network to create the foundations for a robust legacy and sustainability beyond the end of the project to ensure good internal communication amongst partners, with regular updates on progress and achievements.

In particular, the OSHub.Network Digital Platform aims at sharing the OSHub expertise, resources, and best practices with all OSHubs, their partners and the communities they serve, namely managing, sharing, distributing and disseminating information and news, open resources, open schooling projects of the OSHub.Network project, as well as initiatives and other relevant information for OSHubs and the wider Open Schooling community.

Namely, the OSHub.Network Digital Platform has the following objectives, according to the different target publics:

#### **Local OSHubs:**

- To promote communication and collaboration amongst OSHub.Network partners by creating dedicated spaces for each local OSHub to post information about their teams and expertise, the OSHub Management Board (MB), the community challenges they will be tackling and the corresponding Open Schooling projects.
- To promote capacity building by making available the OSHub.Network Bluerint, which will include guides for full development and implementation of the OSHub.Network model through local OSHubs spaces, including technical details, activities, facilitation guidelines, operational plans, professional development guides for educators, academic research, business plan template and gender equity recommendations for OSHub.Network managers. The OSHub.Network Blueprint will be fully based on Open Standards.

#### Open Schooling international community:

- To promote communication and collaboration between the OSHub.Network and Open Schooling projects by sharing best practices and resources, such as webinars/videos on Open Schooling best practices, open source projects, news.
- To promote capacity building by making available the OSHub.Network Blueprint.

## Partners: schools, families, research institutes and universities, enterprises, industry, media, local governments, civil society organizations and wider society:

- To promote the partners that will be part of the local OSHub MBs, and their work, by having a dedicated space for them
- To communicate the engagement and involvement of the different community stakeholders in the Open Schooling projects
- To promote communication and collaboration between partners across different countries through sharing of the Open Schooling projects, which will be fully based on Open Standards

The OSHub.Network Digital Platform will be available in 8 languages, corresponding to the language of the partner countries: Dutch, English, Italian, French, Austrian, Czech, Portuguese, Greek.

The website will be available after the project lifespan and relevant content (toolkit, documentation material) will be made available to archives and repositories (e.g. Ars Electronica Archive, Scientix, etc.).

## 2. THE OSHUB. NETWORK DIGITAL PLATFORM

#### 2.1 Development and Management

The OSHub.Network Digital Platform – oshub.network – , has been developed and managed by ULEI, based on an open source web framework.

This framework will allow the authors to update the content of the resources and automatically produce the necessary output files in the necessary formats (example: html, print ready PDFs) and also source files and doc files for translations). This will also allow a direct update of the activities through an API (application programming interface) to the generic resources databases (such as OERCommons, Scientix, TES, ISSU, Slideshare).

#### 2.2 Structure and content

Figure 1 shows the top portion of the OSHub.Network landing page.

On the top-right region there is a navigation menu that is common for all pages, and that indicates the main sections of the website, which we describe below in more detail.



Figure 1: OSHub.Network website landing page

#### 2.2.1 Project

In the "Project" page (Figure 2), we present the main pillars of the OSHub.Network project. By clicking on the "read more" (Figure 3), the visitors will be able to read a more detailed description of the project.

Home Local OSHubs • OSHub Projects OSHub Blueprint OSHub Partners Open Schooling Community Get Involved Eng •

#### **OSHUB.NETWORK PROJECT**

read more

#### OSHUBS AS SCHOOL-DRIVEN SCIENCE SHOPS

The Open Science Hub Network (OSHub Network) engages and supports schools and local stakeholders in research and innovation, as a tool for tackling local relevant challenges and contributing to sustainable community development.

Local OSHubs work as mediators in each local community, positioning schools as active agents for collaboration between families, universities, research institutes, industry, enterprises, media, local governments, civil society organizations, and wider society, by engaging in real-life projects that meet societal needs.





#### SCHOOLS AS COLLABORATION HUBS FOR COMMUNITY DEVELOPMENT

Across the different OSHub locations, schools and their communities identify local relevant challenges, linked to the Sustainable Development Goals, which are then combined in shared global Open Schooling Missions, enabling real collaboration across communities.

In each OSHub location, Open Schooling Missions are transformed into relevant research and innovation projects, led by students and teachers, in collaboration with local stakeholders.

### OPEN SCHOOLING MISSION WITH LOCAL IMPACT

By supporting local schools and communities with the tools and network to tackle relevant challenges, OSHub. Network aims to create local impact while simultaneously promoting an active global citizenship attitude, thus contributing to community development, innovation and wellbeing.



Figure 2: OSHub.Network website "Project" page





SCHOOL-LED COMMUNITY DEVELOPMENT THROUGH RESEARCH AND INNOVATION

The pace of change in society - from technological innovation to global interconnectedness - is rapidly changing and has been fundamentally altering the way people live, work and learn. Moreover, the societal challenges of the 21st century render urgent the need to integrate the knowledge and expertise of different societal actors, and to develop meaningful and inclusive ways of connecting schools, universities, enterprises, civil society, governments and local communities using more innovative, efficient and open methodologies.

## OPEN SCIENCE HUB NETWORK - BRIDGING BORDERS AND BARRIERS ACROSS EUROPE

The Open Science Hub Network (OSHub Network), a consortium of nine partners across Europe, engages schools and local stakeholders in STEAM (Science, Technology, Engineering, Arts and Mathematics) research and innovation, as a tool for tackling local relevant hellenges and contributing to sustainable community development.

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More specifically, the OSHub Network is establishing a European network of community hubs - OSHubs, in communities that traditionally do not engage with research and innovation due to various barriers, geographical location, socio-economic status, or ethnic minority group background.



## Mission Mission

#### GLOBAL OPEN SCHOOLING MISSIONS WITH LOCAL IMPACT

The OSHub Network is developing a common methodological framework, grounded in open schooling and community-based participatory research practices. Throughout this process OSHubs, schools and local communities identify and analyse local needs and opportunities, in order to address environmental, socio-economic, equity issues and untapped growth potential, through relevant research and innovation projects, led by a relevant research and innovation projects, led by a stakeholder.

Inapied by the "Mission-Oriented Research & Inapied to the "Mission-Oriented Research & Inapied in the European Union" approach, developed by Mariana Mazzucato. OSHtub Newrok is defining a set of Open Schooling Missions, aimed at addressing local selvant rhallanges linked to the Sustainable Development Gasla. These Open Schooling Missions constitute the basis for the creation and development of the open schooling projects, enabling real collaboration across communities.

#### How do OSHUBS SUPPORT LOCAL SCHOOLS?

Local OSHubs work as mediators in each local community, positioning schools as active agents for collaboration between families, universities, research institutes, industry, enterprises, media, local governments, civil society organizations, and wider society, by engaging in real-life projects that meet societal needs.

As such, OSHubs support schools identifying specific needs and implementing the different phases of the Open Schooling process, amely through the co-development and implementation of research and innovation projects and activities, facilitation of continuing professional development programmes for teachers and school leaders, and by assessing which practices work and under what circumstances.

Moreover, OSHubs foster the development and sustaining of local networks and strategies for schools and community stateholders to exchange their knowledge and experiences, and to collaborate on joint projects at different levels, both at the national and European levels.





#### INCLUSION AND ACCESSIBILITY THROUGH OPEN STANDARDS

To encourage usage and maximise impact in Europe and beyond, all resources, products and solutions developed by the OSHub. Network are fully based on Open Standards, such as open education, open science, open technology, open science, open software, open hardware, open architecture. To ensure the legacy and reach of the project amongstall OSHubs, their partners and the communities they serve, all OSHub. Network resources and best-practices will be shared in a declicated section of this website - OSHub
Blueprint - and on existing large output.

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#### LEGACY AND SUSTAINABILITY

To ensure diversity, inclusion and sustainability, in each OSHub location, there is a local management board - OSHubMB - with representatives from the control of the contr



By the end of the project, it is expected that the OSHub network will have impacted 25 000 students, 1 250 teachers and 4 000 members of the community, through involvement in more than 150 school-university-industry-civil society partnerships in open schooling projects and activities.

In the long-run, we envision OSHubs as education brokers in their local communities, supporting local school networks to incorporate Open Schooling in their vision and organizational structure, leading to sustainable quality of education. Most particularly, OSHubs will facilitate the bridge between the needs and realities of schools and their local context and resources, as well as brokering for implementing national/regional policies, passing along signals from schools when policies are failing and advocating for context-sensitive policies.

Figure 3: OSHub.Network website "Read More" subpage

#### 2.2.2 Local OSHubs

The "Local OSHubs" page (Figure 4) will be the space dedicated to the different local OSHubs.



Figure 4: OSHub.Network website "Local OSHubs" page

Regarding the national logos, each local OSHub will have a customized version, where they will be able to create, at their own will, their configuration of the "O", "P", "E", "N" elements, and have a dedicated colour palette.

Each of the different OSHub icons will lead to a different subpage, which will be managed by the corresponding project partners, and will be organized as follows – please see Figure 5 for a template a Local OSHub subpage:

- Team: this will provide information about the people behind the local OSHubs, in order to provide a more humane and personal touch – who they are, and their motivations and expertise on Open Schooling.
- Social and Educational Landscape: in this subpage, each OSHub will include information about their location and the respective assessment of the socio-economic and educational landscape.
- Management Board: who are the entities/people involved and their contribution to the OSHub.Network project.
- Challenge and Mission: here each local OSHub will describe the local relevant challenge and the corresponding mission, that were selected and defined together with their local partners.
- Open Schooling Projects: this will have information, together with
  the corresponding open source resources, about the open schooling
  projects that will be developed in collaboration with the local partners,
  aimed at tackling the challenge and mission outlined before.





#### PARTNER SCHOOLS

Caracha de Engage

17

#### LOCAL MANAGEMENT BOARD

The OSHub Management Board consists of a group of representatives from different local stakeholder groups, – schools, families, research institutes, enterprises, industry, civil and wider society - that will be involved in all key processes and decisions of the local OSHubs.



Gabinete de Ambiente do Município de Figueira de Castelo Rodrigo



Gabinete de Educação do Município de Figueira de Castelo Rodrigo Education Office - Municipality



Serviços de Psicologia do Agrupamento de Escolas de Figueira de Castelo Rodrigo Psychology Office - School



Associação Transumância e Natureza NGO



Universidade de Aveiro



Associação de Pais de Figueira de Castelo Rodrigo



Agrupamento de Escolas de Figueira de Castelo Rodrigo -AEFCR School Group



Associação de Estudantes de Figueira de Castelo Rodrigo

#### CHALLENGE AND MISSION

OSHub-PT is located in a low-density territory in the border between Portugal and Spain, traditionally with low access to science, technology and innovation, low collaboration between entities and reduced citizen participation in community challenges. In addition, the territory's wildermess faces several anthropogenic-driven threats, such as the quality of the Douro river due to tourism pressure. As such, we want to: reduce geographic solution and increase student's global connectedness by fostering digital literacy skills; increase student's active citizenship while promoting teacher's autonomy on collaborative, participatory-based and research-driven educational approaches; and to involve the school community in improving the freshwater quality of the region.



#### **OPEN SCHOOLING PROJECTS**



ACTIVE CITIZENSHIP THROUGH OPEN SCHOOLING: A TEACHER CONTINUING TRAINING PROGRAM-BASED STRATEGY

With the goal of increasing student's active citizenship and promoting teacher's autonomy on Open Schooling practices, we have been codeveloping and implementing, in partnership with the school group of Figueira de Castelo Rodrigo, and the school group of Figueira de Castelo Rodrigo, are respective manual, based on methodologies that promote co-creation and innovation, such as Design-thinking and Social Business Model Carvas. These resources, which are being implemented in the disciplinar of Citizenship and Development, provide guidance to students and Development, provide guidance to students and Development in the identification of local challenges to the design, implementation and communication of projects in collaboration with the local partners and community.

#### FOSTERING DIGITAL LITERACY TO OVERCOME PHYSICAL DISTANCE

The remote location of Figueira de Castelo Rodrigo potentiates several challenges for youngsters, namely related with the small number of local role models and the reduced fluid models and the reduced fluid models and supplied to the reduced fluid flui



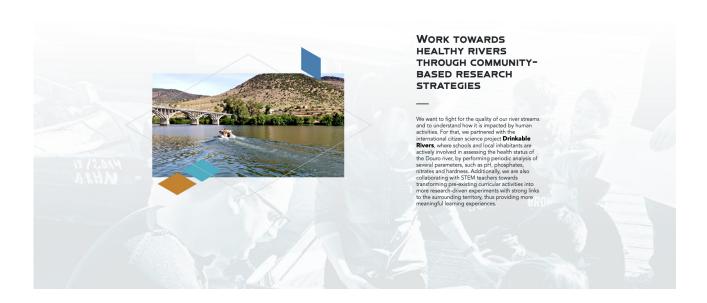


Figure 5: OSHub.Network website "Local OSHub" template page

#### 2.2.3 OSHub Blueprint

The "OSHub Blueprint" page (Figure 6) will be organized in different subpages – please see Figure 7 for the template of the OSHub Blueprint subpage:

- Open Design: this will include logo-related files, the OSHub furniture blueprints, promotional materials, and other design resources created during the project – Building Open Local Ecosystems: this subpage will include facilitation guidelines for community building, such as co-creation materials and recommendations for project co-design and development with local communities, diversity and equity recommendations, etc.
- Open Schooling Best-Practices: here we will publish curated, and peer-reviewed, resources developed by the OSHub.Network partners on Open Schooling. Open Schooling Projects: this will have information, together with the corresponding open source resources, about the open schooling projects that will be developed in collaboration with the local partners, aimed at tackling the local OSHub challenges and missions.
- Open Business Models: this subpage will include the business models and entrepreneurship tools that will be developed during the project together with each local OSHub team.
- OSHub Deliverables: in this subpage, we will add all the Deliverables produced throughout the course of the project.

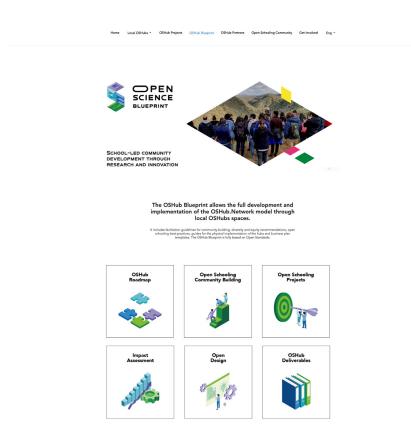


Figure 6: OSHub.Network website "OSHub Blueprint" page



This includes the OSHub Visual Identity elements and the Furniture blueprints of the OSHub spaces, that are made available in the sections below.

| VISUAL II   | DENTITY  |          |
|---|--|----------|
| The concept underlying the<br>grounded on developing a<br>language to communicate open science. Importantly, in<br>open science. Importantly, in<br>ownership over the deterily<br>created for own Logo using<br>created for own Logo using | clear and universal visual<br>he basic principles of<br>n order to ensure<br>and legacy of the<br>ed a national name and |          |
| and respective guidelines. The visual Identity has NOSIGNER.  | been designed by   |          |
|   |  |          |
|   | OSHub Guidebook  | download |
|   | OSHub Logo   | download |
|   | OSHub Pattern  | download |
|   | OSHub Font   | download |
|   |  |          |
|   |  |          |

| OPEN FU  | PNITURE   |                    |         |
|--|---|--------------------|---------|
| —  | RIVIORE   |                    |         |
| The concept underlying the<br>of the OSHub furniture is ba-<br>circular economy and sustain  | sed on the principles of  | NA.                |         |
| As such, OSHub.Network pa<br>NOSIGNER and Precious Precious Plastic Portuga<br>Geneva (Glitter) - with the<br>products that could be made<br>namely plastic, and produce | rtnered with Plastic - particularly,  å and <b>Precious Plastic</b> o objective of creating of from recycled materials, | W R                |         |
| Here we make available the<br>what we consider the basic s<br>stool, table, cabinet and too<br>reproduce or adapt.   | et to fumish an OSHub -   |                    |         |
| NOSIGNER   |   | Ø₽Ø-1_ <b>№</b> 19 | OLITTER |
|  | Table Blueprint   | soon               |         |
|  | Stool Blueprint   | soon               |         |
|  | Cabinet Blueprint   | soon               |         |
|  | Tool Board  | soon               |         |

Figure 7: OSHub.Network website "OSHub Blueprint" subpage

#### 2.2.4 Projects

Although the Open Schooling Projects developed by the local OSHubs will be part of the OSHub Blueprint (see 2.2.3 OSHub Blueprint), since this will be a pivotal part of the project, the projects will also be featured in the main page.

#### 2.2.5 News

In the "News" page, relevant updates and announcements will be posted monthly. The announcements will be written by OSHub.Network partners and other activity leaders and participants. All relevant publications will also be posted on partners websites.

Each month there will be one partner responsible for producing a publication related to their OSHub or other topics associated with relevant Deliverables or Milestones, to be published in the website.

#### 2.2.6 Partners

The "Partners" page (Figure 8) displays the project partner's organizations, their geographical location, and the link for the corresponding websites.

Home Local OSHubs • OSHub Projects OSHub Blueprint OSHub Partners Open Schooling Community Get Involved Eng •



**OSHUB.NETWORK PARTNERS** 



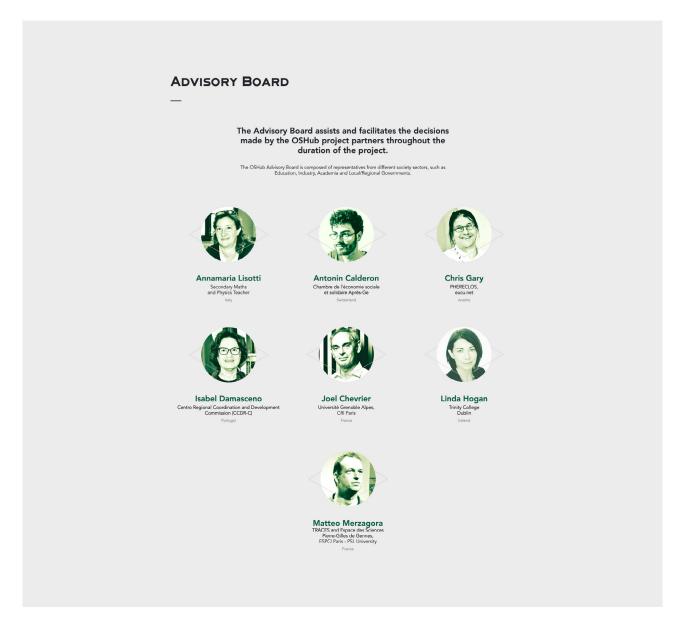


Figure 8: OSHub.Network website "Partners" page

#### 2.2.7 Get Involved

The "Get Involved" page (Figure 9) provides information on how the different community stakeholders can get involved with the OSHub project, as well as the OSHub.Network contacts.



Figure 9: OSHub.Network website "Get Involved" page

## 3. CONCLUSION

The OSHub.Network Digital Platform aims at sharing the OSHub expertise, resources, and best practices with all OSHubs, their partners and the communities they serve, namely managing, sharing, distributing and disseminating information and news, open resources, open schooling projects of the OSHub.Network project, as well as initiatives and other relevant information for OSHubs and the wider Open Schooling community.

In terms of structure, the OSHub.Network Digital Platform will comprise 7 main pages: Project, Local OSHubs, OSHub Blueprint, News, Projects, OSHub.Network Partners and Get Involved.

In particular, under the Local OSHubs page, there will be a dedicated page for each OSHub, which will contain information about the respective teams, local challenges and open schooling projects (which will also be featured in the main page under "Projects"). In addition, the OSHub Blueprint (fully based on Open Standards) will include facilitation guidelines for community building, diversity and equity recommendations, open schooling best-practices, guides for the physical implementation of the hubs and business plan templates.





## EMPOWERING CITIZENS THROUGH STEAM EDUCATION WITH OPEN SCHOOLING



### **DELIVERABLE 6.2**

**OSHub.Network Digital Platform**