

EMPOWERING CITIZENS
THROUGH STEAM
EDUCATION WITH
OPEN SCHOOLING

### **DELIVERABLE 5.5**

# OSHub. Network Summit

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# **REVISION HISTORY**

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0.2	29 July 2021	All partners	All partners	Content input and review
0.3	01 August 2021	Maria Vicente and Pedro Russo	ULEI	Final version

# LIST OF ACRONYMS

ACRONYM	DEFINITION
IH	Impact Hub
OSHub	Open Science Hub
OSHub-AU	Open Science Hub – Austria
OSHub-CH	Open Science Hub – Switzerland
OSHub-FR	Open Science Hub – France
OSHub-GR	Open Science Hub – Greece
OSHub-IE	Open Science Hub – Ireland
OSHub-NL	Open Science Hub – The Netherlands
OSHub-PT	Open Science Hub – Portugal
OSHub.Network	Open Science Hub Network
STEAM	Science, Technology, Engineering Art and Mathematics
ULEI	University of Leiden
WP	Work Package

### **EXECUTIVE SUMMARY**

The OSHub Summit aimed at bringing together all partners, students, teachers and key stakeholders, to consolidate the outcomes of the project, share best practices and discuss the sustainability and legacy of local OSHubs (Grant Agreement, Description of Action – Part B). The event took place in the village of Figueira de Castelo Rodrigo – where OSHub-PT was established – from 18-20 July 2022.

This deliverable corresponds to D5.5 OSHub.Network Summit Report and describes the programme of the OSHub.Network Summit and the main outcomes and outputs from the meeting.

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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.

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

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

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 Summit Report

The OSHub Summit aimed at bringing together all partners, students, teachers and key stakeholders, to consolidate the outcomes of the project, share best practices and discuss the sustainability and legacy of local OSHubs (Grant Agreement, Description of Action – Part B). The event took place in the village of Figueira de Castelo Rodrigo, where OSHub-PT was established, from 18-20 July.

In this deliverable we describe the programme of the OSHub.Network Summit and the main outcomes and outputs from the meeting.

# 2. OSHUB.NETWORK SUMMIT



Figure 1: Photo of the OSHub.Network Summit participants.

# 2.1 Participants of the OSHub.Network Summit

The participants of the OSHub.Network Summit (Table 1) included 4 different kinds of profiles:

#### Consortium partners

All consortium partners participated in the meeting, except the partners from Czech Republic (Science In) due to a last minute unpredictability, which did not allow them to travel.

#### Local OSHub partners

Each local OSHub was accompanied by a local partner with whom they have collaborated throughout the project. Due to budget constraints, each partner was only 10 able to bring, on average, one partner. The majority of local partners that participated in the event were teachers (OSHub-IE, OSHub-AU, OSHub-FR, OSHub-PT, OSHub-GR), but there were also teacher trainers (OSHub-FR) and University students (OSHub-NL).

#### **Advisory Board members**

From the seven members of the Advisory Board that have been invited, two of them were able to participate in the OSHub.Network Summit: Annamaria Lisotti (Secondary Math and Physics teacher) and Ana Pires (Centro Regional Coordination and Development Commission – CCDR-C<sup>2</sup>)

#### **Invited guests**

2

We invited several guests that have not participated previously in the OSHub project with the objective of playing the role of external observers, thus promoting the discussion and having a critical eye about the work developed by OSHub partners. As such, invited guests were selected based on the criteria of creating a diverse panel with elements coming from different societal areas – parents, teachers, professionals from universities, fablabs, social innovation entities.

In addition, we also invited a designer that facilitated the sessions entitled "Zine mind-on/hands-on". These slots constituted reflection moments, individual and in group, by using zines as a tool (also used as evaluation tools in OSHub), thus fostering competencies related with observation, expressions and the arts.

NAME	COUNTRY OF WORK	PROFILE
Pedro Russo	The Netherlands	Consortium Partner
Maria Vicente	The Netherlands	Consortium Partner
Sanne van Gammeren	The Netherlands	Consortium Partner
Julia Gomez Lama	The Netherlands	Consortium Partner
Kim den Ouden	The Netherlands	OSHub-NL Partner – University student
Shaun Ussher	Ireland	Consortium Partner
Marie-Jan Buckley	Ireland	OSHub-IE Partner – Teacher
Aisling Bolger	Ireland	OSHub-IE Partner – Teacher
Chris O'Connell	Ireland	OSHub-IE Partner – Teacher
Rosario Sapienza	Italy	Consortium Partner
Elisabetta Carrubba	Italy	Consortium Partner
Alba Bellofiore	Italy	Consortium Partner
Cristina Olivotto	Switzerland	Consortium Partner
Patrick Condevaux	Switzerland	Consortium Partner
Katharina Hof	Austria	Consortium Partner
Michaela Schober	Austria	OSHub-AU Partner – Teacher
Catherine Demarcq	France	Consortium Partner
Nathalie Vuillod	France	OSHub-FR Partner – Teacher trainer

Inês Saavedra	Portugal	Consortium Partner
Paulo Lourenço	Portugal	Consortium Partner
Ana Peso	Portugal	Consortium Partner
Célia Paraíso	Portugal	OSHub-PT Partner – Teacher
Tina Perpétuo	Portugal	OSHub-PT Partner – Teacher
Maria João André	Portugal	OSHub-PT Partner – School Psychologist
Ana Isabel	Portugal	OSHub-PT Partner – Teacher
José Miguel	Portugal	OSHub-PT Partner – Teacher training center
Theo Anagnostopoulos	Greece	Consortium Partner
Pandora Sifnioti	Greece	Consortium Partner
Katerina Vafea	Greece	OSHub-GR Partner – Teacher
Annamaria Lisotti	Italy	OSHub.Network Advisory Board
Ana Pires	Portugal	OSHub.Network Advisory Board
Sunamita Iris	Portugal	Invited guest – Founder of QXote <sup>3</sup>
Hans Lodders	Portugal	Invited guest – Founder of QXote <sup>3</sup>
Bernardo Peixoto	Portugal	Invited guest – Former masters student at OSHub-PT, on open schooling and stake- holder engagement

João Retrê	Portugal	Invited guest – Head of Science Commu- nication Office, Instituto de Astrofísica e Ciências do Espaço <sup>4</sup>
Nuno Domingues	Portugal	Invited guest – Teacher
Alice Gama	Portugal	Invited guest – Parent
Ana Lúcia	Portugal	Invited guest – Parent
Santiago Mourão	Portugal	Invited guest – PhD student Design, Faculty of Fine Arts of University of Porto <sup>5</sup>
Tauan Bernardo	Portugal	Invited guest – Co-founder and Director, VivaLab Porto <sup>6</sup>
Jan Pomierny	Poland	Invited guest – Chief Executive Office / Creative Producer, Science Now <sup>7</sup>
Katarzyna Swietochowska	Poland	Invited guest – Creative Producer, Science Now <sup>7</sup>

Table 1: Participant List

### 2.2 Program

The programme of the OSHub.Network Summit – which can be found in the following link: https://docs.google.com/document/d/157icWzT2LV5FHOCXtzHhdTjgk4N6LgPuCxdH4ZpCfm0/edit?usp=sharing – consisted of four parts, leading to a continuous building-up from one part to the next:

- 4 Instituto de Astrofísica e Ciências do Espaço: https://www.iastro.pt/
- 5 University of Porto: https://sigarra.up.pt/up/pt/web\_base.gera\_pagina?p\_pagina=home
- 6 VivaLab Porto: https://www.vivalabporto.com/
- 7 Sciencenow: https://www.sciencenow.studio/

#### 1. Who are we and why have we embarked in the OSHub journey?

Short presentations from OSHubs and local partners describing the value proposition of each OSHub in their local communities, partner motivations for joining the project and respective entry points and overview of the work developed together.

#### 2. What have we – OSHubs and partners – built together?

Thirty minute interactive sessions where each OSHubs and respective partners share, in a workshop format, what has been developed throughout the project.

These interactive sessions were preceded by exhibition stands from each OSHub, that included relevant information, tools and materials, creating a convenient setting for participants to engage in informal conversations around open schooling while having an after lunch coffee (OSHub coffee corner).

#### 3. Legacy and sustainability – What will and will not remain? Why and why not?

Participatory session to critically reflect about the real value, relevance and meaning of the work developed during the project and the potential for sustainability and scalability.

### 4. Contaminations and collaborations: what is the added value of being part of a network?

Co-creation session to think and develop together specific actions and projects that could be developed locally from the learnings, connections, tools gathered internationally and how to keep this network alive in a functional and meaningful way.

In the following sections, we describe each part of the programme.



Figure 2: Photo of the participants in one of the sessions that took place in the Historical Village of Castelo Rodrigo, in front of the main church (which was the venue of "Who are we and why have we embarked in the OSHub journey?").

# 2.2.1 Who are we and why have we embarked in the OSHub journey?

This session aimed at establishing a common ground of communication, so that all OSHubs and respective partners could meet the teams from the different partner countries and know the kind of approach and work that has been developed throughout the last years.

In Table 1 we provide the links for the presentations from each partner country.



Figure 3: Photo of the session "Who are we and why have we embarked in the OSHub journey?", which took place in the main church of the Historical Village of Castelo Rodrigo.

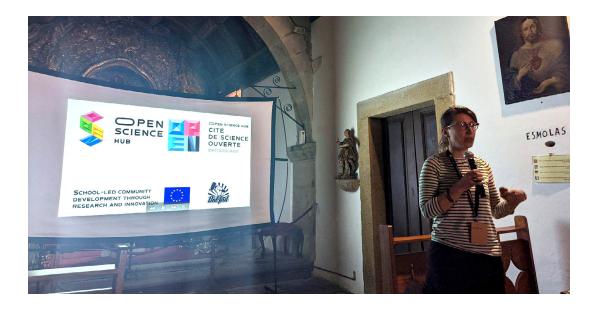


Figure 4: Presentation of OSHub-CH (Cristina Olivotto, Onl'Fait).



Figure 5: Presentation of OSHub-AU (Michaela Schober, teacher – presenting; Katharina Hof, Ars Electronica).

PARTNER COUNTRY	PRESENTERS	PRESENTATION
The Netherlands	Sanne van Gammeren, OSHub-NL Kim den Ouden, University student	https://drive.google.com/file/d/1lkSD_ tMaBY4qM8mXjAC7U2G9NOa9j1du/ view?usp=sharing
Ireland	Shaun Ussher, OSHub-IE Marie-Jan Buckley, teacher Aisling Bolger, teacher Chris O'Connell, teacher	https://docs.google.com/presenta- tion/d/1ftFPuGO1m3A06AeahbE- aWYCQB5oTO2Q9/edit?usp=sharing&o- uid=115201186919942401979&rtpof=tru- e&sd=true
Switzerland	Cristina Olivotto, OSHub-CH	https://drive.google.com/file/d/10xJ- nG3E8_nUATSXy6r7ui4Hr85hdLhK5/ view?usp=sharing
Austria	Katharina Hof, OSHub-AU Michaela Schober, teacher	https://docs.google.com/presenta- tion/d/1WfVTnkNC23Jt99kjXD4VLJ- CEAIFJmd8I/edit?usp=sharin- g&uid=115201186919942401979&rt- pof=true&sd=true

France	Catherine Demarcq, OSHub-FR Nathalie Vuillod, teacher trainer	https://drive.google.com/drive/ folders/19nU5vfa5wU5ayI9i- HAQUnsxvF-5USsL0?usp=sharing
Portugal	Inês Saavedra, OSHub-PT Ana Cristina Perpétuo, teacher	https://drive.google.com/file/d/1Dz7gj- 8C5hgMMirgp0OYYg9ouB6Aff1HH/ view?usp=sharing
Greece	Pandora Sifnioti, OSHub-GR Katerina Vafea, teacher	https://docs.google.com/presen- tation/d/1fFCzpv0IEy02feA9ltfop- k8BLh_8E0lv/edit?usp=sharing&o- uid=115201186919942401979&rtpof=tru- e&sd=true

Table 2: Presentations from partners.

#### 2.2.2 What have we – OSHubs and partners – built together?

As mentioned earlier, the interactive sessions from this part of the program were preceded by the OSHub coffee corner, which allowed each OSHub and respective partners to share practical examples, tools and resources, in an exhibition stand format.

After these informal conservations, each partner country facilitated a workshop, which had the dual objective of sharing best practices but also, most importantly, to incentivize partners, in a practical way, to reflect on how to adapt and implement the projects developed by a given OSHub in their own communities and realities.

Below, we provide a short description of the sessions facilitated by each partner country.

#### The Netherlands

During this session, we focused on steps towards Open Schooling projects for students' growth and how they can strengthen the role of (University) students in society, reviewing the best practices of the Open Schooling project Studenten voor Educatie. During the first part of the session, the participants were walked through the success formula of "Studenten voor Educatie" and were encouraged to reflect on their own project using this format. The success formula is SvE = C (Collaboration) + P (Preparation) + S (Support) + A (Attention) + T (Trust) + M (Monitoring and Evaluation). The second part of the session consisted of an exercise in which the participants delved deeper into the Collaboration aspect of the formula. With the help of three steps, they reflected on the role university students could play in their projects.

Step 1: Write down which groups worked together in your program and what their role is.

**Step 2:** "Which higher education institutions are near your initiative/location and what is their expertise?"

**Step 3:** "What (potential) role could university students have in your project? How do their characteristics contribute to the higher goal of your project?"

During the discussion of the exercise, some groups concluded that university students could indeed play a role in their projects. For the last part of the session, participants were introduced to the participatory evaluation method "Artistic Mapping". Using the example of a map created by a student in this project, the merits of this method and how to use it were explained.

Materials: https://drive.google.com/drive/folder-s/10s16IDF-nkqKBltVBBs1BVogyqVjCpt\_?usp=sharing



Figure 6: Session facilitated by OSHub-NL (Kim den Ouden, University student – presenting, Sanne van Gammerem, OSHub-NL, online).

#### **Ireland**

The sessions was an opportunity for the rest of the OSHub consortium to have hands-on experiences of taking part in OSHub Ireland. OSHub Irelands is centred on a year long curriculum, a pivotal point in the curriculum are "Ideation Session", whereby students and teachers transition from competence development classes into project based work. The ideation sessions are designed to assist the classes in creative and design thinking as well as fairly choosing what project idea to take forward.

Participants were divided into 3 groups of approximately 6 people each. The aim of the exercise was to come up with project based ideas to respond to the questions "What does Open Schooling need to be successful?". The session was divided into 3 parts – List Generation; Rapid Ideation; Voting.

**List Generation:** Participants had to generate a list for each of the following 3 domains ISSUES (Challenges or problems), USERS (Beneficiaries or stakeholders) and PRACTICES (Methodologies, activities or coordination) all related to Open Schooling. Participants had 30 seconds to generate a list for each one.

Rapid Ideation: Participants had to pick one item at random for each of the lists. Therefore they had 1 issue, 1 user and 1 practice. Participants had to come up with an action, initiative or event to solve the issues that involve the user, through the practice. Participants had 3 minutes to come up with a project idea, they did this 3 times.

**Voting:** In the last stage participants voted on what idea they thought was the best, using graphs that are included in the OSHub.IE handbook as well as D2.1 – Training Workshop Report.

This was a very fast way (30 minutes) of showing participants what occurs during project ideation over 2 hours in OSHub Ireland.

**Materials:** https://drive.google.com/drive/folders/1I5PD3ahryjespTUHoJmCz3sdbRB-WRvze?usp=sharing

#### **Switzerland**

The session was based on the phases of the OSHub projects that we co-developed in Geneva: brief, research, make and share and on the characteristics of an OSHub project: what, who, where, with. By showing material and using plastified cards, participants were engaged in a discussion on concrete examples of a OSHub project. A couple of examples:

- 1) by picking the card "share" we explained how we involved the Natural Science History Museum and the miniexpo that we built with the teachers;
- 2) by picking the card "what" we explained how the topics that we worked on (carbon dioxide, fresh water and biomaterials) were chosen together with students, teachers and/or stakeholders.



Figure 7: Participants discussing during one of the interactive sessions.

#### **Austria**

Climate Change in Stop Motion: Tell your Story! Taking their current interests and hobbies as a starting point, participants of the workshop explore how these are connected to climate change and protection. They are coached by a storyboard to tell stories about their topic and to produce them as stop motion videos.

**Materials:** https://drive.google.com/drive/folders/1v6nwluQ4qOlhcMD\_fhUz7nurBI-9HA2YQ?usp=sharing

#### **France**

Fablabs are places of imagination and creation, where teachers can develop tailored pedagogical tools for their students. Over the last years, OSHub-FR and La Maison pour la science have been developing and implementing training courses for teachers to learn how to use FabLabs. During this session, teachers and OSHubs will reflect and identify educational needs in their schools and communities and design possible solutions that could be developed in a Fablab.



Figure 8: Participants discussing during one of the interactive sessions.

#### **Portugal**

This session was divided into three parts. In the first one we presented some strategies and key factors we believe are essential to replicate OSHub – PT, such as: embed OS in an existing structure in the school, earn teachers trust, capacitation of teachers, school board open to the implementation of new methodologies, among others. In the second part we presented the OSHub-PT canvas, based on the business model canvas, with the following items: motivation, why, what for, how, will it work, with whom.

To show how we use these canvas, two practical examples were shown by the two teachers who were in the workshop. Last but not least, the two groups were invited to fill this canvas, starting from their motivation and then ran through the other items in their prefered order, and to share the results they produced.

#### Greece

The session involved two main parts. The first one focused on the key factors that made the OSHub-GR successful: passionate teachers, open tools and platforms for the projects like Arduino, App Inventor and Tinkercad, necessary equipment (sensors, microcontrollers, 3D printers, etc), freedom to co create and make decisions/take initiatives but also guidance and training when needed, strong partnerships with other stakeholders, provision of extra opportunities (eg. presentation/participation in the National STEM conference). During the first part, we also went into detail on the projects created by the Hub and the science and technology behind them. The second part focused on the broader area of the need to communicate science and your results. The participants had the opportunity to focus on public speaking and put in practice what they learnt through games and activities.



Figure 9: Session facilitated by OSHub-GR (Pandora Sifnioti, OSHub-GR, Katerina Vafea, teacher).

## 2.2.3 Legacy and sustainability – What will and will not remain? Why and why not?

The objective of this session was to critically reflect about the real value, relevance and meaning of the work developed during the project and the potential for sustainability and scalability.

As such, this session, facilitated by the Impact Hub (IH) team, was organized in two different parts:

1) Impact perception by the OSHub teams and respective partners. In this exercise, OSHubs and partners were divided in two separate groups and asked the same questions: a) The biggest impact the OSHub project had on schools/teachers; b) What didn't work as expected; c) One thing that will last.

After answering these questions separately, each partner country was asked to share their thoughts and to compare the impact perceptions between the OSHub teams and the respective partners (Figures 10 and 11).

2) Ownership 3D spectrogram. Taking the sustainability model developed by the IH team, grounded on three main dimensions – space, activities, network – , schools were asked to position themselves on an ownership axis in regard to these three different dimensions. For example: from 0 to 100%, how much ownership do you feel regarding the activities developed during the project (i.e. how much autonomy do you feel so that these activities will last?).

After creating this Ownership 3D spectrogram, schools now together with OSHubs, re-positioned themselves by answering to the following question: considering the real support that OSHubs can provide in the future (even in the absence of funding), what are the dimensions that schools and OSHubs see as the most likely to improve in the near future? (Figure 12).

The detailed exercise can be found in the following link: https://docs.google.com/document/d/1RigqWKwYe3fdacLdVS3ohvfxGcPj5D7h2iTf1EQ1mA4/edit?usp=sharing

The results of these exercises are currently being analyzed and will be discussed in Deliverables D2.4 Self-assessment and monitoring and D7.3 Monitoring reports.





Figure 10: Participants working on the exercise "Impact perception by the OSHub team and respective partners".

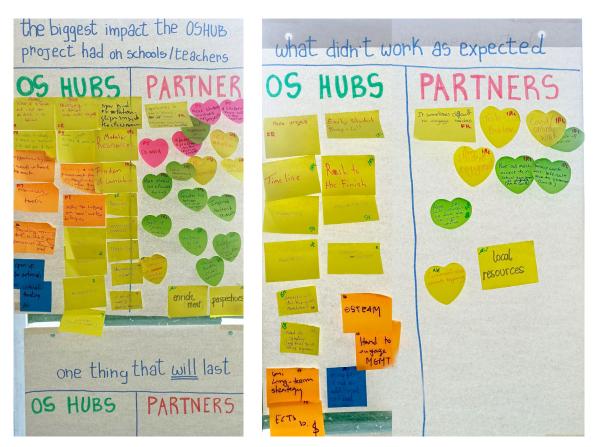




Figure 11: Outputs of the exercise "Impact perception by the OSHub team and respective partners".





Figure 12: Exercise "Ownership 3D spectrogram".

# 2.2.4 Contaminations and collaborations: What is the added value of being part of a network?

This session was devoted to actively thinking about how to keep this network alive in a functional and meaningful way. For that, participants were divided in groups and asked to think about the following dimensions: Scope, Content, Channels, Organization, Governance, Formalization (Figure 13 and 15).

The detailed exercise can be found in the following link:

https://docs.google.com/document/d/1QmSXCnVm12sYwPvkA9dJKSTBham7887P/edit?usp=sharing&ouid=115201186919942401979&rtpof=true&sd=true

Which will be the aim(s) of our network? Decide for the minimal scope and find the best balance with your ambition and expectations.

What, in practical terms, we will share? What themes, topics will be the core of our activities?

How much we will exchange? With which regularity and using which channel? How much it will cost? Who is going to pay for it (human resources, infra-structures, fix costs...)

#### **ORGANISATION**

#### **GOVERNANCE**

#### **FORMALISATION**

How we will organise our structure? How simple, minimal it will be, in order to make it self-sustainable? Are we going to set up a turn over system in the organisation? How we will perform the desicion-making process? How will lead the process? Are we going to set up a turn over system in the governance too?

Do we need to formalise something? To underwrite this strategy once it is finalised? Do we need our organisations to sign too or it will remain a personal agreement between participants today? Do we need to create MoU or a more formalised agreement?

Figure 13: Dimensions of the Network exercise.

The result of this exercise is currently being analyzed and will be discussed in Deliverable D7.4 Dissemination strategy.





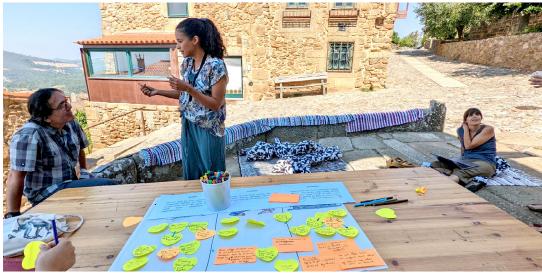
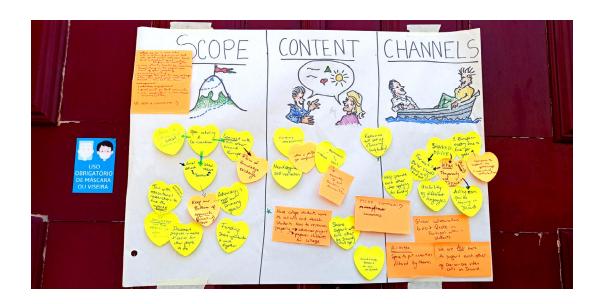


Figure 14: Participants working on the Network exercise.



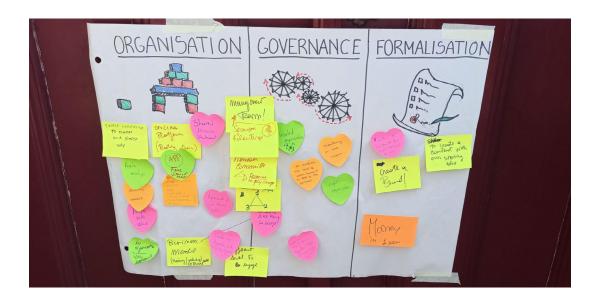


Figure 15: Outputs of the Network exercise.

#### 2.2.5 Social program and community engagement

The social program of the OSHub.Network Summit was a reflection of the relations that OSHub-PT has established with their local partners. As such, the interactive sessions were planned to happen at local cafes in Castelo Rodrigo, as well as several of the coffee-breaks, all with local products (Figure 16). The local community participated in both of the meeting dinners, the first one in Castelo Rodrigo (Figure 17) and the second one in Barca D'Alva (Figure 18). Finally, on the last day, before the start of the daily program, the majority of the participants joined on a sunrise hike to explore the nature reserve Faia Brava, the first national private reserve managed by the local partner Associação Transumância e Natureza.



Figure 16: Coffee-break at a local cafe in Castelo Rodrigo.



Figure 17: Dinner on July 18th in the village of Castelo Rodrigo together with the local community.



Figure 18: Dinner on July 19th in the village of Barca D'Alva together with the local community.



Figure 19: Sunrise hike in the natural reserve of Faia Brava, managed by the local partner Associação Transumância e Natureza.



Figure 20: Group photo at the end of the hike.

## 3. CONCLUSION

The OSHub Summit aimed at *bringing together all partners*, students, teachers and key stakeholders, to consolidate the outcomes of the project, share best practices and discuss the sustainability and legacy of local OSHubs (Grant Agreement, Description of Action – Part B). The event took place in the village of Figueira de Castelo Rodrigo – where OSHub-PT was established – from 18-20 July 2022.

In this deliverable we described the programme of the OSHub.Network Summit as well as the main outcomes and outputs from the meeting.

In particular, regarding the sustainability and legacy of local OSHubs, the results of the sessions "Legacy and sustainability – What will and will not remain? Why and why not?" and "Contaminations and collaborations: what is the added value of being part of a network?" are currently being analyzed and will be discussed in Deliverables D2.4 Self-assessment and monitoring, D7.3 Monitoring reports and D7.4 Dissemination strategy.





# EMPOWERING CITIZENS THROUGH STEAM EDUCATION WITH OPEN SCHOOLING



### **DELIVERABLE 5.5**

**OSHub.Network Summit**