# IPERION HS

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GA n. 871034

## D.8.2 Dissemination Plan

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## Abstract

*(300-500 words)*
*IPERION HS is a consortium of 24 national nodes in 23 countries, including 67 organisations. It contributes to establishing a pan-European research infrastructure on Heritage Science named E-RIHS (www.e-rihs.eu). It offers training and access to a wide range of high-level scientific instruments, methodologies, data and tools for advancing knowledge and innovation in Heritage Science.*
*IPERION HS is the follow-up of previous projects in the field of Heritage Science, such as Labs-Tech, EU-Artech, CHARISMA and IPERION CH. Thanks to the EU support, this long-term tradition built a consistent community.*

*Effective dissemination of the project achievements and research results will maximise the impact of the IPERION HS project and thereby improve the prerequisites for research and management of cultural heritage.*

*All participants of IPERION HS are strongly committed to disseminate the results and achievements from transnational access projects (TNA in WP2, WP3, WP4) and joint research activities (JRA in WP5). The main route for dissemination is peer-reviewed, open access publication in high impact journals. Particularly effective dissemination will also be achieved through international conferences organised or chaired by partners, e.g. by organising sessions dedicated to the project, but also by organising national events. In addition, several types of events organized by IPERION HS will disseminate project achievements and will be used for outreach to the scientific community, to the cultural heritage sector, potential users and industry. Success stories, project results and best practices will be presented at focused events (WP6), at workshops (WP8), through the user forum (WP7), training camps and summer schools (WP7). Events will promote using social media, the user forum and web tools, when practical events will be video streamed or organised as entirely online events.*

*This document provides the initial plan for dissemination actions to be implemented by the consortium members. The document will be periodically revised on the basis of the progress of the project and the evaluation of its impact and effectiveness of dissemination activities.*

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## Abbreviations

| Abbreviations | Expansion |
|---|---|
| CERIC ERIC | Central European Research Infrastructure Consortium |
| CERN | European Organization for Nuclear Research |
| CHARISMA | Cultural heritage Advanced Research Infrastructures: Synergy for a Multidisciplinary Approach to Conservation/Restoration |
| Clarin | European Research Infrastructure for Language Resources and Technology |
| DARIAH | |
| ERIC | Digital Research Infrastructure for the Arts and Humanities - European Research Infrastructure Consortium |
| DiSSCo | Distributed System of Scientific Collections is a new world-class Research Infrastructure |
| DMP | Data Management Plan |
| DOI | Digital object identifier |
| EHRI | European Holocaust Research Infrastructure |
| E-RIHS | European Research Infrastructure for Heritage Science |
| ESFRI | European Strategy Forum for Research Infrastructures |
| EU-Artech | Access, research and technology for the conservation of the European cultural heritage |
| FAIR | Findable, Accessible, Interoperable, Reusable |
| HS | Heritage Science |
| ICCROM | International Centre for the Study of the Preservation and Restoration of Cultural Property |
| IPERION | |
| CH | Integrated Platforms for the European Research Infrastructure on Cultural Heritage |
| IPERION | |
| HS | Integrated Platforms for the European Research Infrastructure on Heritage Science |
| IPR | Intellectual Property Right |
| JPI CH | Joint Programme Iniatiative Cultural Heritage |
| JRA | Joint Research Activities |
| KPI | Key Performance Indicator |
| Labs-Tech | Laboratories on Science and Technology for the conservation of the European Cultural Heritage |
| OpenAIRE | |
| PID | Persistent Identifier |
| ResInfra | Research Infrastructure - Europe/Latin America |
| TNA | Trans National Access |
| UNESCO | United Nations Educational, Scientific and Cultural Organization |
| WP | Work Package |

## Narrative (technical) description

### 1. Introduction

IPERION HS is a consortium of 24 national nodes in 23 countries, including 67 organisations. It contributes to establishing a pan-European research infrastructure on Heritage Science named E-RIHS (www.e-rihs.eu). It offers training and access to a wide range of high-level scientific instruments, methodologies, data and tools for advancing knowledge and innovation in Heritage Science.

IPERION HS is the follow-up of previous projects in the field of Heritage Science, such as Labs-Tech, EU-Artech, CHARISMA and IPERION CH. Thanks to the EU support, this long-term tradition built a consistent community.

Effective dissemination of the project achievements and research results will maximise the impact of the IPERION HS project and thereby improve the prerequisites for research and management of cultural heritage.

All participants of IPERION HS are strongly committed to disseminate the results and achievements from transnational access projects (TNA in WP2, WP3, WP4) and joint research activities (JRA in WP5). The main route for dissemination is peer-reviewed, open access publication in high impact journals. Particularly effective dissemination will also be achieved through international conferences organised or chaired by partners, e.g. by organising sessions dedicated to the project, but also by organising national events. In addition, several types of events organized by IPERION HS will disseminate project achievements and will be used for outreach to the scientific community, to the cultural heritage sector, potential users and industry. Success stories, project results and best practices will be presented at focused events (WP6), at workshops (WP8), through the user forum (WP7), training camps and summer schools (WP7). Events will promote using social media, the user forum and web tools, when practical events will be video streamed or organised as entirely online events.

This document provides the initial plan for dissemination actions to be implemented by the consortium members. The document will be periodically revised on the basis of the progress of the project and the evaluation of its impact and effectiveness of dissemination activities.

### 2. Objectives

The overall objective of dissemination is to maximize the impact of the results and achievements of the IPERION HS project through:

- Improving the understanding of what IPERION HS does and offers to the heritage science community and policy-makers.
- Raising awareness about the results of the IPERION HS project through publications and presentations aimed at our target audiences.
- Engaging, integrating and developing the heritage science community through training activities and focused events.

Specific goals of the dissemination plan for IPERION HS are to:
- Ensure open access to IPERION HS publications and associated data.
- Publish an open-access, peer-reviewed, journal special issue with selected projects from the three platforms and the JRAs in the larger context of the impact of an infrastructure for heritage science.Monitor the dissemination activities and measure the impact of the IPERION HS dissemination through a set of selected KPIs.

All project members and IPERION HS users are involved in dissemination and are expected to actively contribute by:
- Publishing their results and data in a timely manner.
- Organising dissemination events in agreement with the coordination office (workshops, webinars, etc.).
- Identifying and informing the coordination office about dissemination opportunities (conferences, publications, etc.).
- Promoting IPERION HS access and training activities via their national / thematic channels (social media, mailing lists etc.).
- Sharing their results with contents for the IPERION HS website (images, videos, etc.).
- Reporting all dissemination activities to the coordination office for inclusion in the monitoring list.

### 3. IPERION HS documents related to dissemination

Table 1. IPERION HS documents related to dissemination

| Deliverables and Milestones | Title | public |
|---|---|---|
| D1.1 | Quality Monitoring Plan with KPIs | yes |
| D6.1 | Data Management Plan for IPERION HS | yes |
| D6.2 | Exploitation Plan | yes |
| MS12 | Interim report on exploitation | no |
| D6.4 | Implementation strategy for Intellectual Property Rights Management | yes |
| D7.1 | IPERION HS training plan | yes |
| D7.2 | Detailed engagement plan for new users' communities | yes |
| D8.1 | IPERION HS communication plan | yes |
| MS8 | Guidelines on IPR protection practice | no |

### 4. Rules on dissemination in the Grant Agreement

The IPERION HS consortium is obliged to disseminate and possibly exploit the results of the project by appropriate means. The articles of the Grant Agreement (IPHS n.871034) n.28, 29 and 38.1.3. describe in detail the obligations.

**Open access**

The article 29.2 states that each beneficiary must ensure open access to all peer-reviewed scientific publications relating to its results. The rules for open access are described in the guidelines *IPERION HS How to do - Open Science: EU rules and tips* [Benassi 2021]. The guidelines can be downloaded from Zenodo: http://doi.org/10.5281/zenodo.4444799.

**Acknowledgement of EU funding**

As stated in the Grant Agreement, articles 29.4 and 38.1.2, all the communication and dissemination materials should give information on EU funding in the following way:

- Display the EU emblem and
- Include the following text: "IPERION HS has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement n. 871034.

When displayed together with another logo, the EU emblem must have appropriate prominence. According to the GA article n. 38.1.3

**Disclaimer excluding Commission responsibility**

Any communication activity related to the action must indicate that it reflects only the IPERION HS view and the Commission is not responsible for any use that may be made of the information it contains.

**Intellectual property rights and embargo of data**

Rules relating to the possible embargo of data are described in D6.1 IPERION HS Data Management Plan. IPR and data ownership issues are addressed in the Grant Agreement article 23a and elaborated in the Guidelines on IPR protection Practice MS8.
Data not to be disseminated
Some results should not be disseminated publicly, it is important to classify such results as "restricted" or "confidential". The articles 26 and 27 of the Grant Agreement state that some results can be protected. This may be the case for:

- Documents containing personal data must follow the rules of the GDPR 2016/679;
- Contents subject to Intellectual Property Rights restrictions, for example, if results can have a commercial or industrial exploitation.

### 5. Audiences

IPERION HS dissemination is addressed towards the whole heritage science community as well as other projects, research infrastructures and policymakers in related fields.

**Global dimension**

Communication and joint initiatives with European or international organisations are led by the Project Coordinator with the support from WP8 Task 8.5 Relations and synergies with European bodies and initiatives and Task 8.6 International dimension. These include:

- International organisations such as UNESCO, ICCROM and JPI CH;

- EU Research Infrastructures such as DARIAH ERIC, CERIC ERIC, Clarin, DiSSCo, EHRI;
- ESFRI initiatives such as the ERIC forum;
- EU thematic clusters such as EOSC, SSHOC, PANOSC;
- EU projects and networks working in similar domains such as ResInfra, ARIADNE Plus, TimeMachine, 4CH;
- Non EU institutions and networks on a global dimension such as the Getty Conservation Institute and the Alliance for Science and Heritage along the Silk Road.

**Policymakers**

Communication with member states and observers involved in building E-RIHS ERIC is led by the E-RIHS interim Governmental Assembly and supported by the National Coordinators. WP6 Task 6.2 Sustainability: a strategy for smart future innovation based on identification of specialisations across national nodes and the Advisory Board for Regional Development Strategies will be instrumental in disseminations aimed at policymakers.

Heritage Science community

The heritage science community is composed of a vast array of disciplines and professions, Figures 1 and 2. The Users Forum online, the establishment of a heritage science User Organisation and the training activities, as described in WP7 will ensure dissemination within the heritage science community. The IPERION HS consortium has identified specific new communities with whom engagement is driven by WP7 Tasks 7.3 to 7.6, explained in D7.2 Detailed engagement plan for new users' communities:

- Social sciences and humanities;
- Built heritage;
- Archaeology;
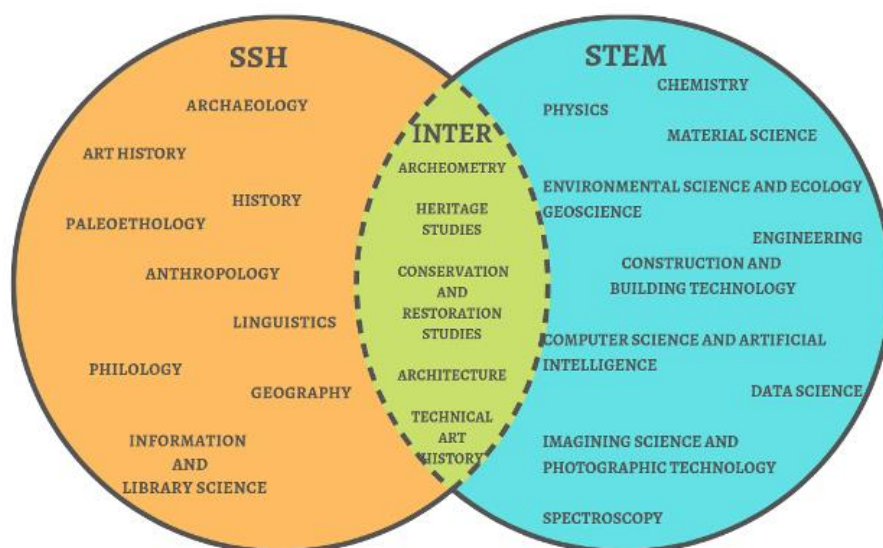- Palaeontology and Palaeoanthropology.



Figure 1. Disciplines in the heritage science domain

Source: Vignetti, Silvia, Pezzati, Luca, Striova, Jana, Benassi, Laura, Bossi, Monique, Drdácký, Miloš, & Dal Molin, Martina. (2020). E-RIHS PP D6.1 Cost Benefit Analysis and socioeconomic impact assessment (Version 1.0). DOI 10.5281/zenodo.3946206
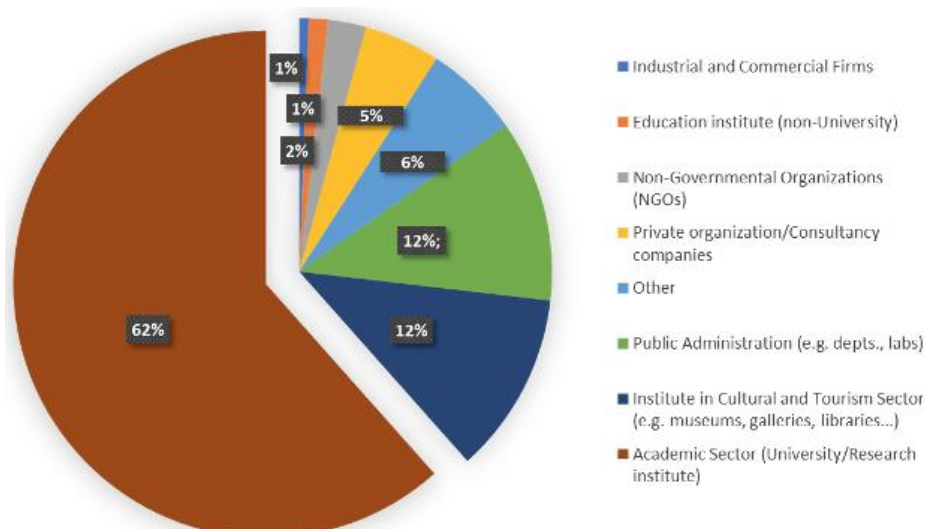
Figure 2. Heritage science community working institutions

Source: Vignetti, Silvia, Pezzati, Luca, Striova, Jana, Benassi, Laura, Bossi, Monique, Drdácký, Miloš, & Dal Molin, Martina. (2020). E-RIHS PP D6.1 Cost Benefit Analysis and socioeconomic impact assessment (Version 1.0). DOI 10.5281/zenodo.3946206

## 6. Dissemination activities

### Open access peer-reviewed publications

The IPERION HS consortium will publish its achievements with open access in peer-reviewed journals. For each transnational access project and results obtained within the joint research activities, the decision to publish will be taken once the results are fully evaluated and intellectual property rights (IPR) protected. The rules for open access are described in the Annex 1. The following practices of open access publication will be used:

- green open access, also through online self-archiving as part of the IPERION HS website repository, Zenodo and OpenAIRE;
- gold open access, where access to scientific papers is made open by publishers themselves.

### Special issue journal publication

The IPERION HS consortium is planning on publishing a combined, open access, peer-reviewed, special issue journal that sets selected projects from the three platforms (FIXLAB, MOLAB, ARCHLAB) plus possibly DIGILAB and the JRAs in the larger context of the impact of an infrastructure for heritage science. For this purpose, a special issue (article collection) is under discussion with the Editor-in-Chief of Heritage Science (SpringerOpen); the publisher is in principle interested and is likely to be able to offer a discount.

- The IPERION HS budget includes €10,000 for this purpose, managed by the Swedish National Heritage Board.
- We are aiming for 2 papers per platform + DIGILAB + WP5,  possibly one per task. Some articles can be covered from the IPERION HS budget for open access, others may have institutional or national deals with the publisher for open access fees, others may have to pay for inclusion in the special issue.
- The administrative organisation of the special issue and the drafting of an editorial to set the context will be the responsibility of an editorial committee (suggested members: Matija Strlic, Jana Striova, Marei Hacke).
- The selection of articles for the special issue will be the responsibility of the Steering Committee.

## Conferences

The IPERION HS partners have already taken preliminary agreements to organise special sessions within existing conferences to disseminate the results of the joint research and access activities, specifically:

- LACONA 2021
- TECHNART 2021
- TechnoHeritage 2021
- SPIE 03A (Optics for Art, Architecture and Archaeology)
- Gordon Research Conference on Scientific Methods in Cultural Heritage Research 2022

It is anticipated that results will be disseminated at several more conferences either as individual contributions or as special sessions. These may be identified by the user engagement activities within WP 7, specifically within D7.2 Detailed engagement plan for new users' communities.

## Reports and Documentation

This includes all non-formally published reports and documentation relating to the work carried out within IPERION HS. Where practicable and appropriate these will be published on the project website and with the Zenodo Repository. This will include all of the completed User Reports generated as a result of IPERION HS accesses.

## Training and Engagement

Results and achievements from IPERION HS transnational access projects and joint research activities will influence the training and engagement activities organised through WP7 and IPERION HS Academy. Details of activities are specified in D7.1 IPERION HS training plan and D7.2 Detailed engagement plan for new users' communities. Planned activities where results may be disseminated include:

- User Forum meetings
- Doctoral Summer Schools
- Onsite Training Camps
- Remote training modules (webinars)

7. **Archiving and monitoring of dissemination activities**

## Data Management

Details about the handling of data and associated metadata are given in D.6.1 Data Management Plan for IPERION HS.

## Repository for IPERION HS data

To facilitate open access, IPERION HS has created an account in Zenodo as a community (https://zenodo.org/communities/871034/?page=1&size=20) where IPERION HS partners and users can upload publications, reports, presentations, posters, datasets, etc. and attribute them a Persistent Identifier (PID) such as DOI (digital object identifier). Zenodo is a repository developed and operated by CERN and OpenAIRE.

## Monitoring of dissemination activities

The attribution of PIDs to IPERION HS results is relevant to activate the measurement of the impact through Altimetric, a web tool that tracks online mentions beyond citations and includes Twitter,

Wikipedia, press releases, policy documents and more. This tool can also help identify people who engage with IPERION HS research.

All planned and completed events and meetings where results from IPERION HS are disseminated need to be reported to the coordination office who collect the following data: Description of IPERION HS Engagement/ Dissemination Activity (workshop, conference, training, etc.); WP; Place; Starting date; Ending date; Title of the event; Organised by; Is it a IPERION HS partner or third party?; Participated by (name and surname); Type of audience; Size of the audience; Web address of the event; Link to paper, session, slides; Is the contribution (article, poster, video…) available on Zenodo IPERION HS community?; Outcomes; Comments. The coordination office will share a link to the monitoring file for organisers to fill in.

The coordination office has prepared a "toolkit for events", which includes the post-event report for organisers and the post-event feedback for participants. The feedback may be collected on paper during in-person events or digitally (SurveyMonkey) for webinars and online conferences. The post-event report and the participants' feedback are crucial to measuring the impact of the IPERION HS events and improving the organisation of future ones.

## 8. Editorial Committees

At the first IPERION HS interim meeting in November 2020 the setting up of various editorial committees to actively promote dissemination was discussed and it was decided that the overall responsibility for the quality and impact of dissemination activities lies with the Steering Committee consisting of the Project Coordinator and the Work Package leaders. The Project Coordinator may consult the Scientific Advisory Board for advice on general project strategies, including dissemination opportunities, and evaluations of the effectiveness and impact of the project.

A specific editorial committee for a special issue publication (suggested members: Matija Strlic, Jana Striova, Marei Hacke) will be responsible for the administrative organisation of an open-access, peer-reviewed, journal special issue that sets selected projects from the three platforms (FIXLAB, MOLAB, ARCHLAB) plus possibly DIGILAB and the JRAs in the larger context of the impact of an infrastructure for heritage science.

Further specific editorial committees may be established as appropriate and in agreement with the Coordination Office and possibly the Steering Committee, as and when dissemination activities are planned and carried out. It will be the responsibility of such editorial committees to organise the activities and to report details to the Coordination Office.

## 9. Communication strategy supporting dissemination

The IPERION HS Communication Plan D8.1 describes in detail the tools used for internal and external communication. Specific tools supporting dissemination are:

- IPERION HS website: www.iperionhs.eu;
- IPERION HS Social media (Facebook, Twitter, Linkedin, Youtube, Vimeo);
- Mentimeter to engage users and create interactive presentations and webinars;
- SurveyMonkey to collect feedback from users;
- Visual Identity Book for consistent communication and image of the project;

- Digital communication toolkit with templates for presentation, letterhead, leaflet, poster, etc.;
- Toolkit for IPERION HS events.

## 10. Dissemination initiatives in WP6 Innovation and Exploitation

Effective dissemination is key in supporting innovation and exploitation. This is addressed in WP 6, which includes several dissemination activities to engage with the heritage science community, industry, SMEs, policy makers and other stakeholders, specifically within Tasks:

- T6.1 Innovation: To formulate an innovation strategy to impact the industrial environment around cultural heritage and in the clustering of a community of industry representatives ready to consider future heritage science public-private partnerships.
- T6.2 Sustainability: To promote sustainability of the RI by developing a partnership strategy for smart future innovation based on identification of excellence and specialisation across Europe and by identifying a framework of sustainable collaboration to promote the presence of cultural heritage in the national agendas for research and innovation.
- T6.4 Exploitation towards the E-RIHS: To exploit all aspects of innovation achieved within IPERION HS and its preceding projects in the future E-RIHS by mapping key achievements and diverse expertise across the partnership, identifying research and application areas that require further development and by engaging the user community in the enhancement of access services.

## 11. Timing

The communication and dissemination activities can be assigned into three phases:

04/2020-06/2021 Initial phase: Predominantly communication activities
- Create and update the project website;
- Create visual identity, promotional materials, templates;
- Organise and plan events, participate in events;
- Create short videos;
- Launch mailing campaign launch the first TNA call.

06/2021-12/2022 Strategic phase: Initial TNA projects have been carried out and the JRAs have results to report
- Start disseminating results (publications, reports, open access to data);
- Begin selection of articles for the special issue journal publication;
- Inform key stakeholders about project results (conferences, workshops, events);
- Carry out engagement and training activities (User Forum meetings, Doctoral Summer Schools, Onsite Training Camps, Remote training modules);
- Initiate collaborations to promote exploitation of results and sustainability of the RI.

01/2023-09/2023 Exploitation phase: Final TNAs are being carried out, JRAs are being concluded
- Continue to disseminate results;
- Continue engagement and training activities;
- Finalise publication of the special issue;
- Organise a final conference;
- Disseminate the following reports to the relevant stakeholders and policy-makers:
  - D1.2 Quality outcomes;
  - D2.1 and D2.2 ARCHLAB Access Reports;

- D3.1 and D3.2 FIXLAB Access Reports;
- D4.1 and D4.2 MOLAB access reports;
- D6.3 Final report on innovation, exploitation and interoperability;
- D6.5 Agenda for smart future innovation in E-RIHS;
- D7.5 User Forum and Organisation report on activities:
- D7.6 Report on engagement with user communities and on user research needs;
- D8.4 Final Report on International Activities.

## 12. Quality monitoring and Key Performance Indicators

The IPERION HS consortium will measure the impact of its activities and aim to improve performance based on feedback and KPIs. The purpose and process of quality monitoring is described in D1.1 Quality Monitoring Plan with KPIs.

The following text is quoted from D1.1:

*KPIs used in IPERION HS are of two kinds: i) ratios of e.g. feedback results against a perfect score; ii) numbers reflecting some operational aspect meaningful for an evaluation of performance. The second type is in line with most KPIs recently proposed by ESFRI for the monitoring of Research Infrastructures performance [2] and may, or may not, be assessed against a target goal. Such KPIs are particularly useful when considered chronologically, calling for a succession of results to be available from which positive progress, decline or stagnation may be inferred. Deliverable 1.1 is contractually submitted during a particularly difficult period of the COVID-19 crisis, when a partial transition, from face-to-face to remote access and events, is being attempted but not yet implemented and therefore, because of the uncertainty attached to the evolution of the present situation, no fixed targets were formally proposed on most KPIs.*

The following KPIs are relevant for measuring dissemination and are described in more detail in D1.1

$KPI_{Apublication}$ = nr. of publications in at least pre-print form acknowledging access through IPERION HS / nr. of accesses granted
Initial target:
$KPI_{Apublication} \geq 0.8$ at 24 months after first access.

$KPI_{E5}$. Yearly total nr. of participants in dissemination events organized by IPERION HS partners;

$KPI_{E6}$. Yearly nr. of attendees in education events (Training Camps and Summer Schools);

$KPI_{E7}$. Yearly nr. of webinar hours offered within IPERION HS.

$KPI_{Opublication}$ = nr. of own publications in at least pre-print form of IPERION HS partners related to work funded by the Project

$KPI_{Dfeedback}$ = feedback score from all attendees of IPERION HS events
$KPI_{Dfeedback} \geq 0.70$ at 12 months after the first event.

IPERION HS

# References

Benassi, Laura. (2021, January 16). IPERION HS How to do - Open Science: EU rules and tips (Version 1.0). Download from Zenodo: http://doi.org/10.5281/zenodo.4444799