

D8.1 Dissemination and Communication Plan

Version 1.0

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Change Log

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V0.3	Internal review
V1.0	Final version



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1. Executive Summary

This document defines the dissemination objectives for the eFlows4HPC project and the main target audiences, along with the main dissemination activities and channels. It also includes the policy to disseminate the results. It is a "dynamic" document that should be revised periodically by the WP8 team, over the course of the project.

The dissemination strategy defined in this plan intends to raise awareness and interest in the developed technologies and solutions among the target groups such as the developers, industry stakeholders, embedded/HPC community, policy makers and the general public. The presence of leading research HPC institutions ensures the wider dissemination potential through scientific channels, while industrial partners will focus more on the exploitation and technology transfer activities (as in WP7).

2. Introduction

The main purpose of the Dissemination and Communication work package (WP8) is to disseminate project's results in order to connect with and receive the attention of stakeholders about the eFlows4HPC technology. The team also aims at engaging with academics and the general public to disseminate the project's main features and benefits.

This deliverable will cover the dissemination and communication plan. The communication strategy was developed taking into account:

- Definition and identification of target audiences
- Messages and channels
- Activities and communicational tools

This plan aims to:

- Identify a list of potential stakeholders and customers as identified in the SoW
- Describe the development of dissemination material
- Define the participation in industrial and academic forums

3. Dissemination strategy

3.1. Objectives

The overriding objective of the dissemination strategy is to maximize the visibility of the project as well as to transfer knowledge and technology created in the project out of the eFlows4HPC industrial ecosystem.

In order to accomplish this, the following actions will take place:

- Raise awareness about the project and its results reinforcing the message about the key role of the eFlows4HPC in building European expertise in the design of dependable and physically entangled systems and bolstering competitiveness in productive parallel programming
- Update key stakeholders on project progress



• Build a strong community around the eFlows4HPC technology

The training strategy will include training courses, focusing on the users, developers and other related communities. The exploitation strategy will build a deep understanding of the project market and exploitation context, aiming at providing a solid base for further exploitation actions. These will be described in separate deliverables by WP7 Outreach to Communities and Exploitation: D7.1 Training Plan, D7.2 Market analysis, D7.3 Exploitation strategy, D7.4 Report of the organisation of community workshops, and D7.5 Exploitation report. Both WP7 and WP8 have to interact regularly in order to align messages to the industrial audiences, as well as make sure that all key exploitable results (KER) are well communicated to the corresponding target audience, as both WPs are working towards a well-disseminated project impact.

3.2. Target audiences

During the project, the WP8 team aims to communicate the project to key industrial and scientific communities, policy makers and the wider public, and disseminate the results so that they can be used by stakeholders such as researchers and application developers.

The main value of the project to each target audience has been identified and key messages drafted based on this value proposition, along with the most appropriate communication channels for each audience.

Target audience	Value proposition	Key messages	Channels
HPC users of	Engagement of	eFlows4HPC	Website
manufacturing, natural hazards,	newcomers to HPC by increasing the	facilitates the deployment and	Social media
climate	productivity and reducing the learning curve, Applicable to other potential HPC sectors beyond the ones in the proposal Bridges the gap between end users and HPC experts	usage of complex workflows in federated HPC environments	 Events, such as SC conference, ACM International Conference on Supercomputing, IEEE Cluster, Euro-Par, IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing, Euromicro International Conference on Parallel, Distributed and Network-Based Computing, Computational Science - ICCS, IEEE Big Data Conference, ENES HPC Workshops, ECMWF events including the Workshops on HPC in meteorology, Coupled Problems Conference, Computational Science and AI in industry, ECCOMAS Congress, World Congress in Computational Mechanics, European Geosciences Union General Assembly, Annual Meeting of Seismological Society of America, American Geosciences Union meeting, AGU Fall Meeting, IUGG General Assembly, Platform for

Table 1: Target audience



			Advanced Scientific Computing (PASC), etc.
			Press releases
			Trainings (as described in D7.1 Training plan) and workshops (as described in 6.4.1 section of this document)
Application/workflow	Increase on application	Ease the	Website
developers who want to combine HPC, High	development productivity in	development of complex workflows	Social media
Performance Data Analytics (HPDA) and Artificial Intelligence (A)	distributed computing systems Integrated platform for HPC, HPDA and AI Ease of deployment and usage	that include HPC, HPDA and AI components Access to an execution platform that automatically parallelize the workflows	Events, such as SC conference, EuroHPC Summit Week, ACM International Conference on Supercomputing, IEEE Cluster, Euro-Par conference, IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing, European Congress in Computational Mechanics, Coupled Problems, Platform for Advanced Scientific Computing (PASC), BDEC events, the EuroHPC Summit Week conference series, FocusCoE events and RDA conferences, etc.
			Journals, such as Future Generation Computing Systems, Journal of Grid Computing, International Journal of High Performance Computing Applications, IEEE Internet Computing, Computer Methods in Applied Mechanics and Engineering, Computational Mechanics, Journal of Computational Physics etc. Press releases Trainings and workshops
HPC and related	Potential new users of	Availability of	Website
research community, with special	the HPC CoEs' applications engaged by	workflow methodologies and	Social media
emphasis on HPC CoEs	availability of new workflows ready to use	specific application workflows that can be reused and easily	Events, such as ACM, IEEE, SC, ISC, EuroHPC Summit Week, FocusCoE, etc.
	definition for policy	tailored to other	Press releases
	makers	potential use-cases	Trainings and workshops
	Methodologies that can be exploited towards HPC CoEs sustainability		
	Increased recognition of workflow technologies		

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Industry stakeholders	Improved competitiveness for European companies and SMEs through access to ready to-use applications.	Provide real-time methodologies in manufacturing design by using digital twins that reduce costs and speed-up production Increase competitiveness of European HPC vendors	Website Social media Events, such as SC conference, ACM International Conference on Supercomputing, Int. Conference on High Performance Computing and Simulation, BDEC events, the EuroHPC Summit Week conference series, FocusCoE events and RDA conferences, etc. Press releases Workshops
Policy makers	Opening up opportunities to enhance European competitiveness in burgeoning new markets. Investment on innovation increases competitiveness and progress of society	 Provide techniques that reduce power consumption Proposal of protocols for urgent computing in natural hazards using HPC Building upon European expertise in HPC Promotion of European software, expertise and know- how Provide tools to federated HPC platforms for complex and critical workflow executions 	Website Social media Events, such as SC conference, ACM International Conference on Supercomputing, Int. Conference on High Performance Computing and Simulation, EuroHPC Summit Week, etc. Press releases Multimedia material
Society and general public	Improvement of hazard mitigation protocols thanks to European HPC Contribution to the processes that evaluate climate change impact Reduction of acquisition price of manufactured products	Reduction on time to react on a natural hazard (for tsunamis and earthquakes) Reduction of climate modelling time Improvement on manufacturing processes	Website Social media Press releases Videos Outreach activities, such as Open Days at partner institutions, local museums or technology centres, visits from schools

4. Dissemination team

The WP8 team is led by BSC and includes all partners. The total number of Person Months (PMs) for each partner are shown in Table 2 below.



Table 2: Dissemination team

Participant short name	BSC	UPV	Atos	CIMNE, FZJ, DtoK, CMCC, INRIA, SISSA, PSNC, UMA, INGV, AWI, ETHZ, Siemens, NGI	Total
PMs per participant	9	2	2	1 each	26

5. Branding and project identity

5.1. Corporate image

A common graphic identity in all dissemination tasks allows for better visibility and recognition as well as branding of the project. All dissemination material will include the name of the project, the website URL and the graphic elements described in this section such as the logo and corresponding template features, if applicable.

The brand of the eFlows4HPC project includes its corporate image, brand and style. Guidelines will be given to all partners to ensure coherence and consistency.

5.2. Logo

The main image of the project is the logo, which comes in different formats:

- Logo with the whole name of the project: this will be the first logo used, as in the beginning the aim is to build a brand and the whole name acts as a full description.
- Logo with URL: this logo will be used once the project is well recognized and content has been created and uploaded to the website, which will be used as a reference for information.
- Logo: this logo may be used on promotional materials when printed small and once the brand is well recognized and established.



Figure 1: Different formats of the eFlows4HPC logo





Figure 2: Logo in black & white and positive/negative

The name of the project refers to the main aim to deliver a workflow platform that consists of the eFlows4HPC software stack and an additional set of services that will enable the integration of HPC simulation and modelling with big data analytics and machine learning in scientific and industrial applications.

The design of the logo has a unique visual identity that shows the three main features of the project: the HPC workflow as a service, the eFlows4HPC software stack, and the architectural optimizations. The three colours of the logo refer to these exact characteristics as blue, green, and orange, respectively. This visualization follows the technical graphs in the Grant Agreement.

This logo will be included in all documentation related to the project and should be ideally used in colour. All versions of this logo are downloadable in different formats on the <u>Branding page</u> of the website as well as in the project's intranet. It will be included in all material related to the eFlows4HPC project made available to the public. Both the branding guide and logos will be sent to all partners and will also be available in the project's internal repository.

5.3. Typography

The logo font defined is Myriad Pro, which has a rounded finish that provides a "flow" character. The complementary font is Omnes.

The recommended font to be used for all dissemination documentation is Calibri because it is available on the vast majority of computers. Calibri should be used in all dissemination material.

5.4. Language

The official language of the eFlows4HPC project is British English (UK). However, the dissemination material should be translated into the different languages within the consortium, where possible. Each partner should ensure that the materials are adequately translated into the local languages,

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e.g., in the case of the press releases for the local media. Funding for this is not included in the dissemination budget.

5.5. Project templates

A set of designed templates will be used in the project.

5.5.1. Presentation template

The presentation template will be used in all presentations done by all partners and will be added to the internal repository for all partners to use. The presentation template is available both in Microsoft PowerPoint and Open Office, as well as in format 16:9 and 4:3 for different projectors (see image below). This template gives some design guidelines, as well as a general-purpose eFlows4HPC PowerPoint content template that can be incorporated into other presentations in order to disseminate the project and its results.



Figure 3: Presentation template

5.5.2. Poster template

The poster template is in PowerPoint format and will be used in all poster presentations in different events. It is a basic layout template which the partners fill in with different scientific and technical content depending on the presentation objective and audience. It will be included in the internal repository for all partners to use.



Figure 4: Poster template



5.5.3. Deliverable template

WP8 prepared a template for all deliverables with the logo and its structure. The font used is Calibri font. The template will be uploaded on the intranet and sent to all partners to use.

	eFlows4HPC Enabling dynamic and Intelligent workflows in the Laure Euroi+PC ecosystem
	DX.X Deliverable Name Version X.X
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Author	Name (Partners' short name)
Contributors	Name (Partners' short name)
Reviewer	Name (Partners' short name)

Figure 5: Deliverable template



6. Dissemination tools and channels

In order to efficiently reach the targets for dissemination and to maximize the visibility of the project, a broad spectrum of communication channels and dissemination tools will be used. The role of the dissemination tools and activities shall ensure that the different target audiences are aware of the eFlows4HPC project.

The public website is the first point of contact and plays a significant role in dissemination followed by a carefully chosen list of scientific conferences, as well as the rest of the external communication tools. Moreover, communication activities include a dissemination pack, organisation of and participation in events, press coverage and scientific publications are part of the dissemination strategy to increase awareness from technical and non-technical audiences.

6.1. Website

The project website will be hosted at <u>www.eflows4hpc.eu</u>. Barcelona Supercomputing Center (BSC) is responsible for the construction and maintenance of the website. The hosting and corporate design has been outsourced.

The main objectives of the website are to:

- Provide a source of technical information: technical details, deliverables and academic papers will be made available during the project.
- Provide news and updates: to reflect the activity of the project and demonstrate an active community and progressive project.
- Call to action: the website will encourage its audience to engage with the project, possibly (in the later stages of the project) through some interactive examples, videos, trainings, workshops or similar material if deemed appropriate.



Figure 6: eFlows4HPC website homepage



All partners were notified once the public website went live. The WP8 leaders, in collaboration with the dissemination team, are responsible for editing the website content, uploading public deliverables, and monitor its web statistics. Moreover, an editorial plan will be developed for partners to create content and populate the website with technical and generic news pieces.

The website will be designed as a multi-device experience that works well across different device types: PCs, tablets and mobile phones and will integrate any multimedia material, such as social media accounts and videos, as well as host the internal repository (intranet) for the project. It will also take into account the EC encouragement for diversity and inclusion in research projects and provide subtitles in the audiovisual material, when possible, as well as promote gender equality in the project's lifecycle, by publishing interviews with the women working in the project (including the project coordinator) and their achievements.

It will also use a visitor statistics monitoring system from Google Analytics. This information will help to improve the content and structure of the site, as well as enrich the team's knowledge about its target audiences. The analytics will be used for reporting purposes.

6.2. Social media

Nowadays social media can be considered to be a good dissemination channel to reach the project's target audiences. Social media provide a way to raise awareness about eFlows4HPC and engage a wider range of potential stakeholders.

As the world's largest professional networking site, LinkedIn offers an excellent way to connect with developers, researchers and the wider public. The eFlows4HPC <u>LinkedIn page</u> will be used to post news and information about the project's participation in events. The goal is to share technical discussions with industry-related stakeholders in order to engage with the project. The LinkedIn activity is monitored via LinkedIn Analytics, which show general information on followers, visitors, and visitor demographics, such as their sector background.

In order to be able to have access to networking on the go and communicate with everyone in real-time an eFlows4HPC <u>Twitter account</u> will be used. Twitter will be used as a platform to create synergies with other similar stakeholders and influencers in order to boost the impact of the project's dissemination activities. Through this channel the objective is to reach academia and, if possible, industry. Twitter Analytics will provide information about the account's performance and analyse the effect of and reaction to different communication activities, which will help improve our future actions.

The main hashtags related to the project are: #eFlows4HPC #HPCworkflows #HPCWaaS #software #softwareworkflow #machinelearning #dataanalytics #HPC #naturalhazards #manufacturing #climate #urgentcomputing #digitaltwins #tsunamis #earthquakes.

At the same the dedicated project hashtag #eFlows4HPC will be used to create a point of reference in the social media as well as a way of tracking its impact on the web.

As eFlows4HPC counts on its partners that have an excellent network of contacts in each field in social media, the eFlows4HPC dissemination team will ask the team members to always help disseminate news, updates, dissemination material, videos, etc. on their own social media channels focusing mainly on Twitter and LinkedIn.

Finally, the WP8 team will also ask the EC Project Officer and communication responsible associated to eFlows4HPC to help us disseminate the eFlows4HPC related news on their own social



media channels and news services such as EuroHPC JU, Digital Single Market, EU Science & Innovation and FutureTechEU Twitter accounts.

6.3. Dissemination pack

Basic collateral for use by project partners will be produced including:

- Leaflet: The general leaflet will provide information about the eFlows4HPC project, its objectives and future achievements and its impact or benefit to society. The leaflet will be uploaded to the Branding section of the website so that project partners can easily download and print it for their own dissemination purposes. It will also be distributed at events.
- Poster: A general overview poster will be developed to be used by all partners. The first
 version of the poster will include a general description of the project and its aims, as well
 as the use cases and a brief description of the technology. The poster could be periodically
 updated as the first results are published and will be used in all events where eFlows4HPC
 needs to be promoted. It will be uploaded on the project's internal repository.
- Overview presentation: A presentation with a general overview of the project will be designed. It will be used by all partners in dissemination activities in which the project needs to be presented for the first time to an audience. This presentation is useful in order to transmit the project's objectives, key messages and KPIs in an aligned fashion, regardless the presenter. The presentation will be periodically updated if needed. Along with the rest of the dissemination material, the presentation will be uploaded on the eFlows4HPC intranet.
- Infographics: A new way of communicating through images is nowadays preferred, so that scientific results should also be well explained in a single or various images, especially for online communication channels, such as social media and websites. In eflows4HPC, WP8 plans to create infographics about the workflows of the project, how these are related to the use cases of the Pillars, and the impact they may have on the different applications.
- Videos: Understanding that our society is increasingly consuming information by visual means, the dissemination team will produce videos during the project, in English with subtitles. These videos will be an engaging and informative means of communicating the project's objectives and results, and may animate the above-mentioned infographics. All partners will contribute to disseminate the videos. They will be widely shared with the partners, technical media, and other online channels.
- Whitepaper: It provides information about the project, but it is more comprehensive and therefore it is aimed at a more technical and scientific audience. The objective is to develop one a factsheet/whitepaper relevant to the business and scientific communities. The choice of factsheet or whitepaper will be made depending on the type of material and the target audience.

6.4. Events

Another important dissemination channel will be attendance and presentations at high-level peerreviewed conferences in the field of HPC, Internet of Things, embedded systems, computer design, automation, and machine learning, etc. as well as the pillar-oriented sectors. Presenting the latest updates of the project at such events, meetings or workshops will be an effective means of involving industry leaders in the discussion of standards early on.



An indicative list of events that eFlows4HPC could potentially participate in is: Conferences and (industrial) events: SC conference, ACM International Conference on Supercomputing, IEEE Cluster, Euro-Par conference, IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing, Euromicro International Conference on Parallel, Distributed and Network-Based Computing, Int. Conference on High Performance Computing and Simulation, ACM High-Performance Parallel and Distributed Computing, IEEE International Parallel and Distributed Processing Symposium, Computational Science - ICCS, IEEE Big Data Conference, European Geosciences Union General Assembly, Annual Meeting of Seismological Society of America, American Geosciences Union meeting, AGU Fall Meeting, IUGG General Assembly, World Congress in Computational Mechanics, European Congress in Computational Mechanics, ISC conference, the EuroHPC Summit Week conference series, ENES HPC Workshops, ECMWF events including the Workshops on HPC in meteorology, Coupled Problems Conference, Computational Science and AI in industry, ECCOMASS Congress.

Most of these are regular annual events and we plan to continue to identify additional events throughout the project. In addition, as many of these could have a digital form due to the pandemic, the consortium is already prepared to facilitate and join virtual events, webinars, and online workshops and exhibitions.

6.4.1. Community workshops

A series of workshops are planned to be delivered jointly with HPC CoEs either as lone-standing events or co-located within CoE events. These CoEs could include <u>ChEESE</u>, <u>ESiWACE2</u> and <u>EXCELLERAT</u>, but since these finish relatively early (ChEESE in October 2021, ESiWACE2 in December 2022, and EXCELLERAT in November 2021), different options could be considered: the same CoEs in the case of their continuation, <u>Focus CoE</u> and other CoEs, such as <u>RAISE COE</u>, as well as relevant FET HPC projects and European initiatives: the PRACE Advanced Training Centers (<u>PATCs</u>) and Research Data Alliance (<u>RDA</u>) events.

These community workshops will be held during the period M30-M38, when the second version of the eFlows4HPC platform and workflows will have been delivered by the technical WPs and the Pillars respectively. They will be open to HPC and related research communities, potential end-users, and domain-specific stakeholders outside the consortium in order to reach a wide audience that would be familiarised with the eFlows4HPC technology and even use it in their own projects.

This activity is facilitated by WP7 Outreach to communities and exploitation Task 7.2 and the analysis of the workshops delivery and outcome will be described in D7.4 Report of the organisation of community workshops.

6.5. Publications

The consortium is committed to provide at least green open access wherever feasible following the provisions of Horizon 2020 guidelines. The project will guarantee open access to scientific peer reviewed publications by depositing a machine-readable electronic copy of the publisher's final version of the paper or a final peer-reviewed manuscript accepted for publication, always respecting the embargo period. Each publication will be accompanied by bibliographic information, publication date, metadata about project funding (name of the action, acronym and grant number), date of release in open access, and a persistent identifier. For the coordinating partner BSC, the institutional repository <u>UPCommons</u> will be used. For the rest of the partners' publications, the coordinator will remind them about the H2020 open access publication policy by



informing them about the available repositories such as <u>Zenodo</u> provided by OpenAire. In any case, both options enable third parties to access, exploit, reproduce and disseminate at no cost.

With regards to open source software, that is claimed to be the result of a project, it will also be available from the project page or open repository including a readme file with the acknowledgement sentence.

Based on these rules, all resulting publications (publications, white papers, technical reports, etc.), as well as dissemination materials, should include the following sentence:

"This project has received funding from the European High-Performance Computing Joint Undertaking (JU) under grant agreement No 955558. The JU receives support from the European Union's Horizon 2020 research and innovation programme and Spain, Germany, France, Italy, Poland, Switzerland, Norway."

The WP8 team will prepare publication guidelines and will share them with partners and upload them on the intranet. All publications will be added on the <u>Publications page</u>.

The following journals will be taken into account when deciding on where to publish the scientific results of the project: Future Generation Computing Systems, Journal of Grid Computing, International Journal of High Performance Computing Applications, Concurrency and Computation: Practice and Experience, IEEE Transactions on Parallel and Distributed Systems, Journal of Parallel and Distributed Computing, Journal of Supercomputing, IEEE Internet Computing, Geoscientific Model Development, Computer Methods in Applied Mechanics and Engineering, Computational Mechanics, International Journal for Numerical Methods in Engineering, Journal of Computational Physics, Journal of Advances in modelling Earth Systems, Solid Earth, Computational Geosciences, Computers and Geosciences. <u>Open Research Europe</u>, the free open access publication platform by the EC will also be considered as an important new publishing venue for EC-funded research.

6.6. Press strategy

The press strategy will be consistent with the dissemination strategy and its objectives. As one of the most relevant dissemination activities, the press strategy will last for the complete duration of the eFlows4HPC project.

Press releases are one of the most effective ways of communicating the existence of the eFlows4HPC project to a specific target audience. Press releases attract attention to the project's progress and its achievements. During the project, different press releases will be launched.

The initial press release is the most important one because it defines the eFlows4HPC project objectives as well as its working plan. Ideally, in the middle of the project, there should be another press release in order to explain its progress. A final press release will be launched at the end of the project to wrap up the works and present the final results.

The <u>first press release</u> has been published and shared with various technical media. All press releases will be included in the eFlows4HPC <u>News page</u> and all press mentions in the <u>Press</u> <u>Clippings page</u>. All partners have the opportunity to include them on their institutional websites in order to increase the click rates and referrals. In addition, all partners have been encouraged to translate the press releases in their national language and share it with local media channels as well as write their own press releases.



7. Exploitation

The preliminary exploitation plan for eFlows4HPC is drafted based on different axes according to the different solutions generated by the project and on the different roles played by the partners participating in the proposal. A first axis is based on the eFlows4HPC platform, composed of the eFlows4HPC software stack and the HPCWaaS concept, which together offer a unique opportunity to define a European platform for the development and deployment of workflows that combine HPC, HPDA and AI in supercomputing infrastructures, including EuroHPC pre-exascale infrastructures. With this objective, the eFlows4HPC software stack and HPCWaaS methodology will be deployed and demonstrated in production in the infrastructures available to the project (PRACE Tier-0 and Tier-1 supercomputers). By demonstrating these technologies in the premises accessible to the project, the partners as a whole aim at promoting this solution for all EuroHPC infrastructures. This exploitation will be done initially with the workflows developed in the project, but others will be added according to the centres' and communities' needs.

The exploitation task will begin with the analysis and exploration of relevant eFlows4HPC applicable markets, which will be turned into an in-depth market analysis. This analysis will be presenting the competitive landscape with regard to solutions coming out of the three Pillars' use cases and for the main technological components, i.e. software stack, workflow services, etc. This will allow carving a niche positioning for the eFlows4HPC outcomes and build the value proposition for the adoption of the project's key exploitable assets by the community.

The next step will be to define a comprehensive exploitation strategy, laying out exploitation scenarios for the sustainable uptake of the different components and an action plan to realize this. In addition, the strategy will incorporate the individual exploitation perspectives of the different partners. Atos will lead the exploitation activities with the contribution of all industrial and research partners with different exploitation interests and will describe this process in D7.3 Exploitation strategy.

Each partner will carry out exploitation activities relating to their own achievements during the project. The industrial partners, especially, will commercialise their results in accordance with the framework agreed between the project partners.

8. Key Performance Indicators

All dissemination activities and tasks will be carefully monitored in order to measure their effectiveness. Quantitative and qualitative indicators could be as follows:

Table 3: KPIs

Dissemination channel	КРІ	Measure
Scientific Publications	Papers published, both in scientific venues and Journals	At least 15 publications in total
Academic and industrial events	Events partners participate in, including conferences, exhibitions, booths, etc. (with	At least 6 events and a booth in an industry-related event



	significant attendance, i.e. above 25 people)	
Website	Visitor statistics as captured by Google Analytics	At least 5% increase in website sessions each year
Dissemination material	Number of posters Number of project videos	At least four poster presentations At least three short videos
Training courses (More information to be found in D7.1 Training plan by WP7 and T7.1)	Number of training courses Number of attendees of the Hackathon	Three training courses One hackathon across Pillars Over 25 Hackathon attendees
Joint community workshops (More information to be found in D7.4 Report of the organisation of community workshops by WP7 and T7.2)	Organisation of workshops for the Pillars	Three workshops to engage with the related community of each Pillar or one joint course for all three Pillars

The above mentioned KPIs will be carefully monitored and revised yearly, as they might change or evolve based on the project progress.