



Deliverable 7.4:

Plan for Dissemination and Communication Activities



European
Commission

Horizon Europe
European Union funding
for Research & Innovation

Document ID:	D 7.4	Main author:	Clara Zederman (CNRS)
Work Package:	WP7: Communication, Dissemination		
Document version:	1	Dissemination level:	Public
Project:	High-Tc Josephson Neurons and synapses: towards ultrafast and energy efficient superconducting neuromorphic computing		
Short name:	JOSEPHINE	Grant number:	101130224
Coordinator:	CNRS	Project coordinator:	Dr. Javier E. Villegas
Call identifier:	HORIZON-EIC-2023-PATHFINDEROPEN-01		

Disclaimer:

The Josephine project has received financial support from the European Union's Horizon Europe research and innovation programme under grant agreement No. 101130224. However, this document reflects only the Josephine Consortium's view and the Commission cannot be held responsible for any use that may be made of the information it contains.



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Introduction

The document is addressed on the one hand to the consortium partners and on the other hand to the European Commission so that it can take note of the measures taken with regard to dissemination and communication.

The purpose of the document is to establish common practices within the consortium for dissemination and communication in order to maximise the impact of the EU-funded research project, and to pave the way for the exploitation (see deliverable 6.1 for more details on the exploitation strategy). Moreover, the plan will ensure that the members of the consortium will take a proactive role in the effort to maximize the outreach of the project by participating in relevant workshops and conferences, as well as publishing project results in relevant scientific journals and conference proceedings to allow for high international visibility of Josephine.

This document also recalls **the main guidelines** contained in the Josephine Grant Agreement no. 101130224 (hereafter GA), especially its Article 17 and the Description of Action (DoA), as well as the guidelines contained in the Consortium Agreement (hereafter CA).

This document is the **first version** of the Plan for Dissemination and Communication Activities. It can be revised if necessary and will have an updated final version at the end of the project, which will be delivered at month 48 (i.e. April 30th, 2028) (deliverable no. D7.5).

The updated version will consider the **progress** of the project (and its possible limits/obstacles), the remarks of the Commission and the partners during the course of the project, the evolution of the context (scientific, industrial...) as well as the emergence of new opportunities.

The work package 7 is dedicated to the dissemination and the communication of the project results. The task 7.1 specifically addresses this point: *Dissemination of results; media, conferences, publications, schools, fairs, networking.*



1 General guidelines

The first aspect of crucial importance for the dissemination strategy is to apply some general guidelines to the activities undertaken, and to respect the contractual obligations (cf. GA/CA). These guidelines should be verified before any outreach by the partner responsible for the given outreach activity.

The main provisions that absolutely must be considered by all partners are the following:

Related to EU legal obligations:

- To carefully **read the EC JOSEPHINE Grant Agreement**
- To guarantee the **proper use of the funding** for maximum efficiency, to demonstrate value for money for all dissemination activities conducted;
- To **comply with the project's procedures**, scope, objectives according to contractual documents;
- To **use the official project material** in presentations and to dispatch the **logo** of the project (and if possible the logo of the partners' institutions)
- To properly **display the EU and EIC emblems** and the **acknowledge EU support**
 - In all communication, dissemination and exploitation activities (including IPR protection and standards) as well as on all equipment, infrastructure and major results financed by the project
 - The only exception is for scientific publications. In order to respect the convention on this matter, it is **not necessary** to include the project logo, the EU emblem or the disclaimer, but the grant must be acknowledged in the acknowledgement section.
 - Wording: "This project has received funding from the European Union's Horizon Europe research and innovation programme under grant agreement No 101099098". (art 17.2 GA).
- To display a **disclaimer excluding Commission responsibility.**
 - Wording: Any dissemination of results must indicate that "it reflects only the author's view and that the European Commission is not responsible for any use that may be made of the information it contains";
- To **use British English** and in case the communication is done in another language, always add an English abstract.
- To **ensure open access** to peer-reviewed scientific publications relating to their results
- **Inform the EIC** before engaging in a communication or dissemination activity expected to have a **major media impact**
- To guarantee **archiving** of all dissemination material;



Related to IP and strategic interests protection:

- To make sure confidentiality is preserved in the dissemination and communication activities, the **Governing Board will be consulted** if required;
- To avoid publication of one's work without **proper referencing**;
- To avoid publication of restricted and/or commercial data and to ensure that all the necessary procedures prior to any publication have been followed. Even if the project is collaborative, **the partners own the results generated**. Partners must notify and obtain the agreement of the proprietary partners before disseminating their results.

The Coordinator, i.e. the CNRS, with the help of CSIC, as WP 7 leader, are responsible for ensuring the diffusion and compliance of these guidelines. The Coordinator will also make the project and European logos available.



2 Dissemination and communication content

2.1 Dissemination of Project Results

Results of the project are “any tangible or intangible output of the action, such as data, know-how or information whatever its form or nature, whether or not it can be protected, as well as any rights attached to it, including intellectual property rights” (Art 16.2 of the GA).

In this section, we present the main results generated by the project to be disseminated:

- Scientific publications

The project aims to generate scientific publications:

- High-impact multidisciplinary journals (Science, Nature, PRL...) in which the partners publish regularly
- And more specialized ones (PR Applied, APL...)

The project is part of the Open Science approach. Publications will be presented in journals in open access (whether Gold or a Green) and available on repository sites in full open access.

- Associated Datasets:

The project aims to comply with the FAIR principles (Findability, Accessibility, Interoperability and Reusability). Datasets associated with scientific publications will also be made public according to the Data Management Plan (Deliverable no. 1.4 – month 6).

- Public Report:

In accordance with the GA, there are 14 public deliverables. They will be made available on the project website and on the Cordis platform in order to be used or mentioned during other dissemination activities.

- Content associated with participation in events/workshops

Presentations/videos or any other material associated with the participation in an event or workshop can be considered as an outcome.

The project also includes the organization of an international workshop – one of its goals is to disseminate the project results, as it aims at gathering scientific communities in superconducting and neuromorphic computing.

Particular attention should be paid to the legal issues surrounding these outputs. If these materials come from events exclusive to the project and are not confidential (and image rights have been granted by the participants), they can be disseminated. If not, *it must be ensured that partners have the rights to use them*. Either with the agreement of the owner or if they are free of license, or by paying using fees. The payment of additional costs must be in line with the project budget and must demonstrate value for the money spent.



2.2 Communication: the main messages

The goal of communication activities is broader than the dissemination. While the latter makes knowledge and project results openly available for the public, within the FAIR principles, the communication activities are meant to inform, promote and communicate about the project itself.

Since we hold a low TRL project in fundamental physics, the strategy in communication activities is divided into technical and non-technical topics. It will be adapted of course on the audiences (see section below).

2.2.1 Technical topics

The benefits of the JOSEPHINE project in terms of application:

- **Create a new neuromorphic computing paradigm:** faster, more compact, orders-of-magnitude more energy-efficient, and with key novel capabilities –such as optical sensitivity.
- **Applicable to a wide range of strategic, economic and sensitive sectors:** our project would dramatically enhance the impact of neuromorphics and multiply its projected applications (from artificial intelligence to autonomous vehicles and medical devices), which constitutes the long-term vision for the science we propose. Ultimately, we aim at making high-TC quantum electronics a game-changer in the new generation of computing, communication, and sensing technologies.
- **EU-owned platform and skills creation within Europe:** JOSEPHINE goal is to provide a radically new and EU-owned novel class of high-temperature Josephson junctions (JJs). The Intellectual Property of all underlying processes and technologies to be developed will be in the hands of European stakeholders, and will train young researchers in the underlying technologies within European labs.

2.2.2 Non-technical topics

- **Raising awareness on science-related topics:** Many of the researchers involved in the consortium teach in EU Universities, a channel to communicate the advances in the area of superconducting electronics and neuromorphics to a new generation of engineers and scientists. In addition, they intend to participate in Schools (such as those organized by the EU-COST action SUPERQMAP) and in outreach events organized for raising awareness of science-related topics (for instance “Science Festival” or “From infinitely large to small” at U. Paris-Saclay).
- **Highlighting EU support in research and innovation:** in top of the contractual obligations to acknowledge the EU support and display the logo, the presentation of the Josephine project will always be an opportunity to **make known Horizon Europe and EIC’s programmes**. The consortium is implemented in EU Universities, and can thus encourage their networks, i.e. fellow researchers and students, into these opportunities to get their research funded, pushed to new levels of TRL or even market, etc.



2.3 Targeted audiences

We will propose general dissemination and communication content adapted to the different target audiences: the scientific communities on one hand, and side targets groups on the other hand.

2.3.1 The Scientific Community:

The JOSEPHINE project is a low TRL fundamental research project in physics. The subject of the project, which is very technical and specialised, is therefore primarily aimed at scientists working in the same or related fields. This scientific community is the core target of the dissemination and communication activities.

The results of our project are aimed in particular at scientists in the fields of super conducting, neuromorphic computing, electrical engineering and nanotechnology. These are the scientists most concerned by a possible re-use of results. Dissemination

The Scientific Community includes – but is not limited to – the following sub-groups:

- Josephine partners institutions;
- Network groups: Spintronic Factory, American Society of Physics, etc.
- Young researchers / Future scientific community: students, PhD candidates, other young researchers in the area.
- Industry and possible stakeholders: Despite the low TRL level, the project aims to generate results that could be exploited commercially or through licensing, particularly with the incubators within Thales group (programs to increase the TRL of an innovation) and the help of the external advisory board (see Exploitation Plan, deliverable 6.1).

2.3.2 Side target groups:

- Decision makers and politicians:

The project does not produce outputs directly designed to change public policy, but general communication can help mobilise decision-makers at the project level and make them aware of the possibilities offered by the project's further applications

- Broader civil society (citizens science networks) and general public:

In the same way, the project can provide a general awareness of science, develop interest for research and the industry of the future in Europe, and make people aware of the possibilities offered by collaborative research in the EU area. Specific content will be dedicated to the general public.

Given the technical nature of the project, the communication messages will focus primarily on the expected results of the project and the possible applications, with the guidance of the External Advisory Board and the Thales specialized programs.



3 Dissemination channels and tools

The following section presents the main tools and dissemination channels that will be used throughout the project. The list is not exhaustive and other tools and channels may be used as appropriate.

3.1 Online presence

- **Website:**

The website of the project has been created under <https://josephine-project.eu/>. The website is the cornerstone of the dissemination and communication activities. It contains general information about the objectives, approach, and results. The website will post information regularly about the project's progress and publish news, as well as public reports. The development of the website and the logo has resulted in Deliverable D7.1, which presents more detailed information on the development and main features of the website.

- **Social Networks:**

We have chosen to limit our presence on social networks with a project account to 2 networks:

- X / Twitter ([Josephine Project \(@JosephineEurope\)](#))

X / Twitter will be used to relay all project news, publication of new articles etc.

- Partners' networks

The consortium partners have built strong and relevant communities on their social networks, gathering researchers, students, potential industrial stakeholders, other organisms, journals, etc. We plan to rely strongly on their networks while they will share the main project news (for instance LinkedIn for recruitments within the project).

- **Online seminars:**

As part of achieving the various objectives of the project, the consortium will hold a series of seminars called [Josephine Seminars](#), in which consortium members, as well as external guests working on topics related to the project's objectives, will give scientific talks.

The seminars will be online and open, meaning scientists from all over the world can participate. Between 3 and 4 seminars will be organized annually. The first seminar is expected to be on Wednesday, November 6th, 2024.



3.2 Publications

For the distribution channels of the articles, we will prioritize publication in high impact factor journals. We envisaged a list of targeted journals which are suitable for the publications (such as Nature Publications Group, ACS Journals, APS Journals, MRS Journals, AAS Journals, Wiley, high impact journals, EPS Journals ...).

Should several journals of similar scientific reputation qualify for submission of manuscripts, preference will be given to open-access journals with a Gold open access mode through the scientific publisher to immediately provide the results of the article to everyone.

Articles will also be posted on repository sites. We will use common and trusted repositories such as ArXiv or HAL.

Associated data and metadata will be handled according to the Data Management Plan (D1.4) and the FAIR principles, especially through the Zenodo website and Openaire repository.

3.3 Conferences, Workshops and other events

Events are the most engaging activities because they provide the possibility to have direct or indirect contact with a wider audience and increase project visibility (physical and online). Opportunities to take part in events organized by the consortium, the European Commission and other partners will be continuously sought after. It is also a good occasion to carry out branding activities through the use of the logo and other project contents.

Here are the main categories of potential participation in events:

- Participation in conferences/symposia/fairs:
 - IEDM - International Electron Devices Meeting
 - ACS – American Chemical Society
 - APS – American Physical Society
 - MRS – Material Research Society
 - EMRS - European Materials Research Society
- Participation in schools and events meant for the broader public:
 - School organized by EU-COST action SUPERQMAP
 - outreach events organized for raising awareness of science-related topics, such as Science Festival” or “From infinitely large to small” at Paris-Saclay University (France)



4 Dissemination Management

The first step will be an initial awareness phase (still in progress): this includes establishment of project website and social media, analysis of relevant information resources, identification of communication and dissemination opportunities (activities and channels), creation of basic communication and dissemination channels and tools including graphical identity of the project (i.e. project logo, project website, templates for project documents and for project presentations), development of related plans including Data Management Plan.

During this initial phase, dissemination and communication activities are expected to focus on scientific publications and on the implementation of online seminars.

As stated, the plan will be updated to ensure the integration of feedback from communication and dissemination activities, to assure improved alignment with the project development and to respond to the contextual changes and a final updated version will be submitted (M48, D7.5).

According to the Annex 5 of the Grant Agreement: *“The beneficiaries must disseminate their results as soon as feasible, in a publicly available format, subject to any restrictions due to the protection of intellectual property, security rules or legitimate interests.”*

All partners of the consortium must contribute to the dissemination according to their foreseen role and effort and using all available tools, thus for instance by participating and giving presentations at conferences, publishing papers, holding press conferences, networking and similar activities and will strive to maximize the existing dissemination channels. All consortium partners are asked to report the results of each dissemination activity immediately after they are presented. Partners must report at least basic information on the activity performed (date, subject, attendance at least estimated...) to the management team

The CSIC, as WP 7 leader, and the CNRS, as Coordinator, will be the central point for the coordination of dissemination activities. The Management Team (CNRS) is responsible for the website management and the social networks accounts management.

Dissemination will be a special topic discussed at project and Governing Boards meetings to determine group actions and possible dissemination opportunities.

In order to avoid problems related to IP rights, the CA makes additional provisions, in particular in the Article 8.4 which mentions:

“Prior notice of any planned publication that comes out of the work done within the grant shall be given in writing to the other Parties at least 30 calendar days before the publication. Any objection to the planned publication shall be made in accordance with the Grant Agreement by written notice to the Coordinator and to the Party or Parties proposing the dissemination within 30 calendar days after receipt of the notice. If no objection is made within the time limit stated above, the publication is permitted. ”

It is the responsibility of the Governing Board members, helped by the External Advisory Board, to identify upstream possible issues related to IP rights that may arise in their laboratories. Decisions on whether or not to disseminate the results rest with the Governing Board.

