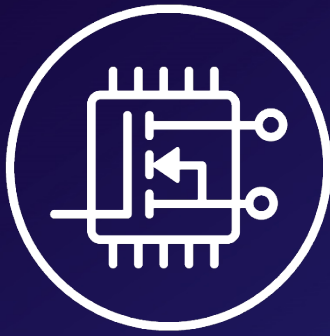




FLAGCHIP

FLAGSHIP SOLUTIONS IN POWER ELECTRONICS

D7.1 Dissemination and Communication Plan and Activities

Q-PLAN INTERNATIONAL

29/11/2024



Funded by
the European Union

Document Information

Issued by:	Q-PLAN INTERNATIONAL
Issue date:	29/11/2024
Due date:	29/11/2024
Work package leader:	Q-PLAN INTERNATIONAL
Dissemination level:	PU - Public

Document History

Version	Date	Modifications made by
0.1	01/11/2024	First version shared with partners for review
0.2	25/11/2024	Updated version based on partners' feedback
1.0	29/11/2024	Final submission-ready version

Authors

First Name	Last Name	Beneficiary
Christina	Balla	Q-PLAN INTERNATIONAL
Nikolay	Premyanov	Q-PLAN INTERNATIONAL
Petros	Papadionysiou	Q-PLAN INTERNATIONAL

In case you want any additional information, or you want to consult with the authors of this document, please send your inquiries to: balla@qplan-intl.gr

Quality Reviewers

First Name	Last Name	Beneficiary
Moritz	Wehrle	Hitachi Energy Ltd
Tobias	Keller	Hitachi Energy Ltd
Cyril	Buttay	INSTITUT NATIONAL DES SCIENCES APPLIQUEES DE LYON

Marcelino	Gallego Garcia	FUNDACION CIRCE CENTRO DE INVESTIGACION DE RECURSOS Y CONSUMOS ENERGETICOS
Maria	Santiago Sanchez	FUNDACION CIRCE CENTRO DE INVESTIGACION DE RECURSOS Y CONSUMOS ENERGETICOS
Johann	Renner	HOCHSCHULE FUR ANGEWANDTE WISSENSCHAFTEN KEMPTEN

Disclaimer

Funded by the European Union under GA no. 101172794. Views and opinions expressed are however those of the authors only and do not necessarily reflect those of the European Union or CINEA. Neither the European Union nor the granting authority can be held responsible for them.

© **FLAGCHIP Consortium, 2024 - 2028**

Reproduction is authorised provided the source is acknowledged.

Disclaimer of Warranties

This document has been prepared by FLAGCHIP project partners as an account of work carried out within the framework of the GA contract N° 101172794.

Neither Project Coordinator, nor any signatory party of FLAGCHIP Project Consortium Agreement, nor any person acting on behalf of any of them:

- makes any warranty or representation whatsoever, express or implied,
 - o with respect to the use of any information, apparatus, method, process, or similar item disclosed in this document, including merchantability and fitness for a particular purpose, or
 - o that such use does not infringe on or interfere with privately owned rights, including any party's intellectual property, or
 - o that this document is suitable to any particular user's circumstance; or
- assumes responsibility for any damages or other liability whatsoever (including any consequential damages, even if Project Coordinator or any representative of a signatory party of the FLAGCHIP Project Consortium Agreement has been advised of the possibility of such damages) resulting from your selection or use of this document or any information, apparatus, method, process, or similar item disclosed in this document.

The methodology of FLAGCHIP for dissemination and communication builds on know-how, tools and templates that were developed internally by Q-PLAN as well as on good practices from the literature. As in previous EU-funded projects, tailored modifications to the methodology were implemented for FLAGCHIP as well, in order to comply with the conditions of the Grant Agreement (GA) and the particularities of the project. Along these lines, this deliverable presents the adjusted methodology as it was further developed and applied in FLAGCHIP as well as presents the results from its application during the project.

Executive Summary

This document constitutes the first version of the FLAGCHIP project's Dissemination and Communication Plan and Activities deliverable (DCP).

FLAGCHIP is a 42-month Research and Innovation Action funded by the European Climate, Infrastructure and Environment Executive Agency (CINEA) under the Horizon Europe Programme (2021-2027). FLAGCHIP will validate wide band gap (WBG) and ultra wide band gap (UWBG) semiconductor technologies and their integration into more compact and cost-effective power modules, combining these developments with upgraded condition and health monitoring of power electronic components. FLAGCHIP's approaches will be demonstrated through AC/DC and DC/DC applications at two pilot sites in France (DC/DC MVDC Converter) and Norway (AC/DC Offshore Wind Turbine and Substation Converter). As a result, FLAGCHIP will enhance the efficiency of Power Electronics components, facilitating the creation of a new generation of inverters, converters, and other power equipment for the energy sector.

This report, titled "D7.1 Dissemination and Communication Plan and Activities", aims to design the strategy, plan and activities to be implemented under the FLAGCHIP project, with a view to maximising the project's visibility and successfully convey its key messages and content to target audiences, identifying and employing the most suitable channels to spread them. Keeping that in mind, this deliverable outlines the approach to (i) effectively communicate the project and disseminate its results, (ii) guide the partners in designing, planning and implementing their individual dissemination activities and (iii) continuously monitor the efficiency and the timely planning of the actions. In that frame, the deliverable outlines:

1. What to disseminate – Chapter two is devoted to the project-related information that will be conveyed throughout the project.
2. To whom – Chapter three consists of the key stakeholder groups that will serve as the main audiences for the project's dissemination and communication activities.
3. How – Chapter four includes all the channels and tools that will be utilised by project partners in order to successfully implement the dissemination and communication activities.
4. When – Chapter five provides a time frame to ensure that the timing of the dissemination and communication activities is appropriate, during the lifespan of the project and beyond.
5. Monitoring of the process – Chapter six identifies the indicators to measure success of dissemination and communication actions, enabling partners to refine efforts and actions over the course of the project.

The DCP will be updated in M18 and its final version will be available at the end of the project (M42). The updates will include results and metrics of the dissemination and communication activities by the time of reporting.

Table of Contents

1. INTRODUCTION	8
1.1 SCOPE OF DELIVERABLE.....	8
1.2 STRUCTURE OF DELIVERABLE	8
2. DISSEMINATION ASSETS	10
3. TARGETED STAKEHOLDER GROUPS.....	11
4. CHANNELS & TOOLS.....	12
4.1 GRAPHICAL IDENTITY AND PROMOTIONAL MATERIAL	13
4.1.1 <i>Project Logo</i>	14
4.1.2 <i>Project Leaflet and Poster</i>	15
4.1.3 <i>Templates</i>	17
4.2 FLAGCHIP'S DIGITAL PRESENCE	19
4.2.1 <i>FLAGCHIP's website</i>	19
4.2.2 <i>Social Media Accounts</i>	19
4.2.2.1 <i>LinkedIn</i>	20
4.2.2.2 <i>X</i>	20
4.2.2.3 <i>YouTube</i>	21
4.2.2.4 <i>Facebook</i>	21
4.2.3 <i>Online newsletter</i>	22
4.2.4 <i>Press releases and other publications</i>	22
4.3 FLAGCHIP'S EVENTS	24
4.3.1 <i>The Final Conference</i>	24
4.3.2 <i>External Events</i>	24
4.4 NETWORKING AND JOINT ACTIVITIES WITH RELEVANT INITIATIVES	25
4.5 EU DISSEMINATION CHANNELS	26
5. TIMELINE AND IMPLEMENTATION PLAN.....	27
6. KEY PERFORMANCE INDICATORS AND MONITORING	28
7. CONCLUSIONS	29
ANNEXES	30
ANNEX I – FLAGCHIP DISSEMINATION AND COMMUNICATION GUIDELINES	30
ANNEX II – FLAGCHIP DISSEMINATION AND COMMUNICATION REPORTING TEMPLATE	31
A) <i>Communication Activities</i>	31
B) <i>Dissemination Activities</i>	31
C) <i>Publications</i>	32
D) <i>Future events</i>	33
ANNEX III - SYNERGY LIST	34

List of Figures

<i>Figure 1: FLAGCHIP's Project Logo</i>	14
<i>Figure 2: The colour palette of FLAGCHIP</i>	14
<i>Figure 3: The EU flag and funding acknowledgement.....</i>	15
<i>Figure 4: Presentation template.....</i>	18
<i>Figure 5: FLAGCHIP's deliverable template cover.....</i>	18
<i>Figure 6: FLAGCHIP SMAs</i>	21
<i>Figure 7: FLAGCHIP's 1st press release.....</i>	23
<i>Figure 8: FLAGCHIP's press release on other platforms</i>	<i>¡Error! Marcador no definido.</i>
<i>Figure 9: Dissemination and communication time plan.....</i>	27

List of Tables

<i>Table 1. Terms and Definitions</i>	7
<i>Table 2. FLAGCHIP's main assets/results</i>	10
<i>Table 3. FLAGCHIP's main target groups</i>	11
<i>Table 4. FLAGCHIP's dissemination channels</i>	12
<i>Table 5: Key messages and tools used for FLAGCHIP's targeted stakeholder groups</i>	13
<i>Table 6. Social media accounts</i>	20
<i>Table 7. Indicative journals for dissemination of FLAGCHIP's results.....</i>	23
<i>Table 8. FLAGCHIP indicative external events for the dissemination of the project's outcomes</i>	24
<i>Table 9. Consortium networks for dissemination and exploitation of results.....</i>	25

List of Terms and Definitions

Table 1. Terms and Definitions

Abbreviation	Definition
DCP	Dissemination and Communication Plan
KPIs	Key Performance Indicators
SMAs	Social Media Accounts
SotA	State of the Art
PE	Power Electronics
C&HM	Condition and Health Monitoring
RES	Renewable Energy Sources

1. Introduction

1.1 Scope of Deliverable

This report, titled “D7.1 Dissemination and Communication Plan and Activities”, aims to design the strategy, plan and activities to be implemented under the FLAGCHIP project, with a view to maximising the project's visibility and successfully convey its key messages and content to target audiences, identifying and employing the most suitable channels to spread them. Keeping that in mind, this deliverable outlines the approach to (i) effectively communicate the project and disseminate its results, (ii) guide the partners in designing, planning and implementing their individual dissemination activities and (iii) continuously monitor the efficiency and the timely planning of the actions. In this respect, the deliverable aims to:

- Describe the types of dissemination channels and tools to be utilised and the required actions and resources
- Define responsibilities among partners
- Summarise the internal monitoring, evaluating, and reporting of dissemination activities
- Provide an indicative timetable/ work planning of promotion activities during the project

1.2 Structure of Deliverable

Taking the above into consideration, the “Dissemination and Communication Plan and Activities” is structured as follows:

- **Chapter 1 – Introduction:** Provides introductory information with respect to the DCP
- **Chapter 2 – Dissemination assets:** Presents the main assets and information of the project during and beyond its span
- **Chapter 3 – Targeted stakeholder groups:** Presents the key stakeholder groups that will serve as the main audiences for the project's dissemination and communication activities
- **Chapter 4 – Channels and tools:** Encompasses all the channels and tools that will be utilised for the dissemination and communication activities of the project, such as the project's website, social media accounts (SMAs) etc.
- **Chapter 5 – Timeline and implementation plan:** Provides the timeframe for the communication and dissemination activities of the project partners
- **Chapter 6 – Key Performance Indicators (KPIs) and monitoring:** Identifies the indicators to measure success in the dissemination and communication actions, enabling partners to refine efforts over the course of the project
- **Chapter 7 – Conclusions:** Pertains to the main decisions and aspects of the Dissemination and Communication Plan as well as the way forward

The Annexes include the dedicated forms for the implementation and reporting of the dissemination and communication activities (guidelines, dissemination and communication reporting lists, etc.) to facilitate efficient collaboration within T7.1.

2. Dissemination Assets

The assets that follow will be disseminated by all partners with a view to maximising the project's impact and visibility. This information will be conveyed in a meaningful way and well-tailored to each stakeholder group (these groups will be further described in Chapter 3).

- **Vision, objectives, strategic relevance, and key facts:** The vision, aim and strategic objectives of the project will be widely disseminated along with all the conceptual aspects of the project, including our progress beyond the state of the art and FLAGCHIP's innovative characteristics.
- **News and achievements:** During the project, news, achievements, and results will be published through scientific publications, press releases, on the project's website or partners' websites to inform stakeholders about the project.
- **Key project results and assets:** Key project assets, as depicted in the following Table 2, will be disseminated as widely as possible in order to stimulate the interest of prospective end-customers and nurture the ground for their post-project rollout.

Table 2. FLAGCHIP's main assets/ results

Main Assets / Results
Medium Voltage SiC MOSFET Chipset for 3.3kV and 6.5kV
Novel packages with integrated cooling as well as sensors for condition and health monitoring
TCAD and behavioural models for wide band gap and ultra wide band gap devices to predict reliability
Estimation of the junction temperature based on Temperature Sensitive Electrical Parameters and on Fiber Bragg Grating
Strategies and methodology for precise and timely enabling of the limp mode
A model to predict the remaining useful life of the power module
A digital twin of the power module for non-conventional condition and health monitoring
Technoeconomic cost models for offshore wind farm maintenance
Research data and scientific publications
Lessons learnt and guidelines

3. Targeted Stakeholder Groups

The key stakeholder groups targeted via dissemination and communication activities of FLAGCHIP are outlined in the following table:

Table 3. FLAGCHIP's main target groups

Stakeholder Type	Groups
Group 1 - Business	• Commercial/ Industrial entities that may serve as end-users/ adopters of FLAGCHIP's solutions: (i) manufacturers, (ii) system designers, (iii) RES systems' operation and maintenance actors, (iv) electricity (smart) grid operators, and (iii) technical and economic stakeholders / decisionmakers in leading PE, Solar and Wind energy businesses that can adopt our solutions (e.g., CEOs, CTOs, CIOs, etc.), starting from the end-users involved in the FLAGCHIP pilots. • Technology Providers who may develop their applications based on FLAGCHIP's solutions or businesses that may serve as partners/ collaborators (e.g., technology and s/w providers, and h/w manufacturers). • Networks and Associations such as WindEurope, EPE, ECPE, EREF, EUREC, EERA, etc.
Group 2 - Academia	• Academia, researchers, and experts focused on advancing the FLAGCHIP cross-cutting scientific fields (e.g., Condition and Health Monitoring, Wide Band Gap and Ultra-Wide Bandgap PE, Stress Steering, etc.). • Related EU-funded projects/initiatives (e.g., FOR2ENSICS, AdvanSiC, SiC4GRID, etc.), including Horizon Europe (sister projects or relevant e.g., Chips-2023-RIA-CPL-4), Digital Europe, and other programmes.
Group 3 - Policy	• National and EU regulators and policymakers (e.g., industry committees, ministries and regional councils). • EU Institutions and Agencies (e.g., the EC, European Science Foundation, MEPs).
Group 4- Public and other	• General public, media outlets and open platforms and databases for sharing data, lessons learnt, best practices, etc.

4. Channels & Tools

The FLAGCHIP project uses a blend of online and offline communication channels and activities with a view to maximising the project's visibility to its stakeholders. These channels and activities are presented in the list as follows:

- Graphical identity (logo, branded templates for reports and presentations)
- Promotional material (leaflet, poster), videos and newsletters
- Project website
- Project social media accounts on Facebook, X, LinkedIn and YouTube and partner's social media accounts
- Participation in external events and conferences
- Scientific and non-scientific publications
- FLAGCHIP's workshops and final conference
- Synergies with relevant initiatives

The dissemination and communication assets of the project will be distributed through the above-mentioned channels and tools to all targeted groups. Q-PLAN has provided dedicated guidelines for the expected use of communication and dissemination channels to the consortium. These are listed in Annex I.

The following table lists key channels for dissemination to be used throughout the course of the project.

Table 4. FLAGCHIP's dissemination channels

Channel	Description	Groups*
Publications in scientific journals	FLAGCHIP's outputs, having research interest and impact, will lead to high-quality publications disseminated to top relevant high ranked journals and conferences.	1,2
3rd party events & conferences	FLAGCHIP partners retain access and will attend major PE and RES exhibitions and trade fairs to disseminate FLAGCHIP's outcomes.	1,2, 3
Final conference	The FLAGCHIP final conference organised by the project will promote the exploitation of its outcomes to all FLAGCHIP stakeholders.	1,2,3,4
Consortium networks and synergies	FLAGCHIP partners have access to key stakeholder networks and will participate in networking activities to disseminate the project's outcomes.	1,2,3,4

Communication activities	FLAGCHIP's communication activities (video, newsletter, web portal, social media, press releases, etc.) will communicate and disseminate key project results	1,2,3,4
--------------------------	--	---------

*1= Technology providers, commercial/ industry stakeholders; 2=Academia & Researchers; 3=Governmental/policy stakeholders; 4=Other stakeholders.

In addition, the following table summarises a preliminary set of the key messages addressed towards each targeted stakeholder group of FLAGCHIP as well as the set of dissemination and communication tools of the project used to convey them.

Table 5: Key messages and tools used for FLAGCHIP's targeted stakeholder groups

Target Group	Tools and Channels	Key Messages
Commercial/ Industrial Adopters	FLAGCHIP events; Trade fairs & exhibitions; Synergies with other projects; Social media; Web portal.	Technical and cost efficiency gains; Cost models and replication potential; (U)WBG evolution, needs and challenges; PE market trends.
Technology Providers	Publications & conferences; trade fairs & exhibitions; FLAGCHIP events;	Opportunities to improve existing C&HM solutions and research practices; Novel approaches on Tj estimation; New digital twin and prediction models
Academia & Researchers	Publications & conferences; Open platforms & repositories; Synergies with other projects.	Opportunities to improve research capacity; Improvements of the SotA in PE and C&HM solutions, outcomes for educating future professionals.
Policymakers & Regulators	FLAGCHIP events; External events; Personal contacts.	Socio-economic and environmental benefits of FLAGCHIP's solutions; regulatory and standardisation concerns that need to be addressed.
General public	Promotional material, video and newsletters; press releases; traditional media; social media; web portal; trade fairs and exhibitions.	Economic and societal potential from novel PE technologies and improved C&HM solutions for RES; New EU-funded research on cutting edge semiconductors.

4.1 Graphical identity and promotional material

The design and creation of the project's graphical identity (i.e., logo, templates, etc.) aim to ensure consistency in the project communication and promotional material throughout its duration. Moreover, press releases (on ad hoc basis), newsletters (on a bi-annual basis), leaflets, posters and infographics will stress and demonstrate with evidence the benefits of FLAGCHIP, providing incentives for the involvement of different stakeholder groups in project activities, as well as foster their exploitation and uptake beyond the end of the grant.

Keeping that in mind, the main promotional material of the FLAGCHIP project is described in the following sub-sections. Each partner will be responsible for translations (if considered necessary) and

printing the material according to its specific needs. Partners should always consult and request approval from the Dissemination Manager/ T7.1 Leader Q-PLAN before producing any kind of promotional material.

4.1.1 Project Logo

The FLAGCHIP project logo was developed at the outset of the project (M1) to meet its visual and graphic requirements. During month 1 various logo options were presented to the project partners in order to allow them to express their preferences and select their preferred design. The selected logo of FLAGCHIP was adopted in agreement with the majority of partners. There are two versions of FLAGCHIP's logo which are presented on white and dark background below.



Figure 1: FLAGCHIP's Project Logo

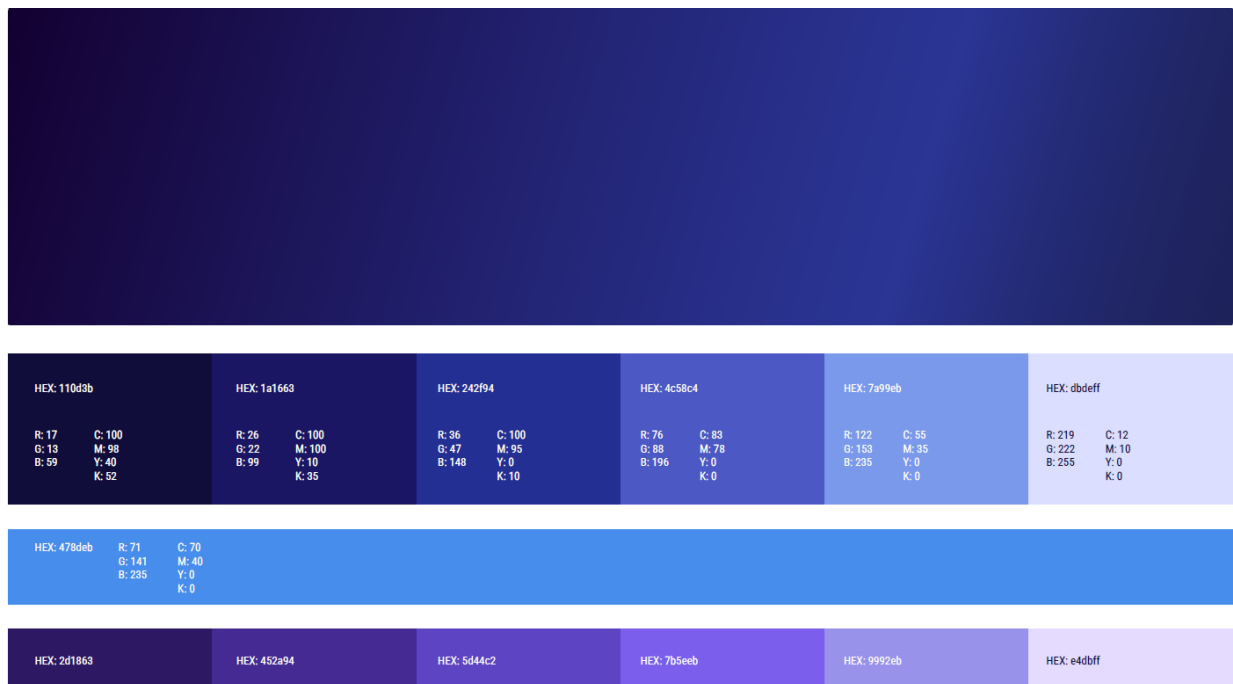


Figure 2: The colour palette of FLAGCHIP

The project's logo is comprised of a combined wordmark and a distinctive pictorial/ icon mark. The icon and text are integrated together to create an image.

The logo design for this project is primarily centred around a font-based approach, emphasizing the project's acronym. The name itself is catchy and memorable so, when combined with strong typography the logo helps create strong brand recognition. Furthermore, since the focus is on the project's acronym, a modern font was chosen in order to capture the essence of what the project does. The logo colours are used in all possible circumstances to ensure consistency and to reinforce the visual identity of FLAGCHIP.

In any communication material, deliverable, presentation, etc., produced within the scope of the FLAGCHIP project, the EU flag and funding acknowledgement, as depicted in Figure 3, must be prominently displayed.



Figure 3: The EU flag and funding acknowledgement

In compliance with the EU requirements on dissemination of results, as set in Grant Agreement number 101172794, Article 17, any dissemination of results (in any form, including electronic), must display the EU emblem with appropriate prominence and also include the following disclaimer:

Funded by the European Union under Grant Agreement 101172794. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or CINEA. Neither the European Union nor the granting authority can be held responsible for them.

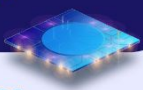
4.1.2 Project Leaflet and Poster

The project leaflet and poster illustrated in Figures 4, and 5 serve as pivotal components within the framework of communication activities, disseminating crucial project information encompassing its expected results, objectives, partners, and other pertinent details.

In addition to the overarching project leaflet and poster, additional promotional materials will be developed to bolster FLAGCHIP events throughout the project duration, in accordance with the needs of the respective partners. This adaptive approach ensures responsiveness to the specific requirements articulated by individual partners, thereby enhancing the efficacy of communication initiatives associated with the project.

In a Nutshell

FLAGCHIP will validate wide band gap (WBG) and ultra wide band gap (UWBG) semiconductor technologies and their integration into more compact and cost-effective power modules, combining these developments with upgraded condition and health monitoring of power electronic components. FLAGCHIP's approaches will be demonstrated through AC/DC and DC/DC applications at two pilot sites in France and Norway. As a result, FLAGCHIP will enhance the efficiency of power electronics components, facilitating the creation of a new generation of inverters, converters, and other power equipment for the energy sector.



Project objectives

- Revolutionise current semiconductor technologies delving into innovative wide band gap and ultra-wide band gap power electronics.
- Develop the next-generation wide band-gap power modules with increased performance, compact packaging and sensor integration.
- Demonstrate on-the-ground performance of FLAGCHIP innovations in two different Renewable Energy System generation architectures.
- Advance the state-of-the-art in temperature measurement and degradation estimation for WBG semiconductors, specifically targeting SiC MOSFET devices.
- Enhance the resilience and operational efficiency of power electronic systems.

Who we are

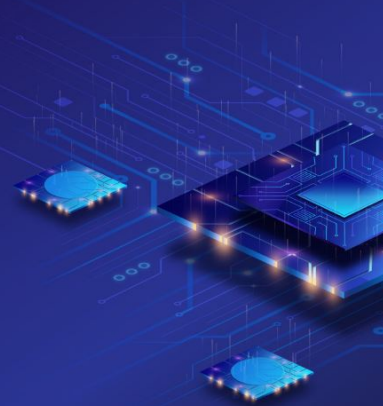
	CIRCE - TECHNOLOGY CENTRE www.circe.es	Spain
	SINTEF ENERGI AS www.sintef.no	Norway
	SUPERGRID INSTITUTE www.supergrid-institute.com	France
	MITSUBISHI ELECTRIC R&D CENTRE EUROPE B.V. www.mitsubishielectric-roe.eu	Netherlands
	THE UNIVERSITY OF NOTTINGHAM www.nottingham.ac.uk	United Kingdom
	INSTITUT NATIONAL DES SCIENCES APPLIQUEES DE LYON www.insa-lyon.fr	France
	CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS www.cnrs.fr	France
	ECOLE CENTRALE DE LYON www.ec-lyon.fr	France
	HOCHSCHULE FÜR ANGEWANDTE WISSENSCHAFTEN KEMPTEN www.hs-kempten.de	Germany
	Q-PLAN INTERNATIONAL ADVISORS PC qplan-int.gr	Greece
	CYPRUS UNIVERSITY OF TECHNOLOGY www.cut.ac.cy	Cyprus
	HITACHI ENERGY LTD www.hitachienergy.com	Switzerland
	MOSMI AG www.mosmi.com	Switzerland

Funded by the European Union under Grant Agreement 101172794. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or CINEA. Neither the European Union nor the granting authority can be held responsible for them.



FLAGCHIP

Flagship Solutions
in Power Electronics



Key expected results

- Medium Voltage SiC MOSFET Chipset for 3.3kV and 6.5kV
- Novel packages with integrated cooling as well as sensors for condition and health monitoring
- TCAD and behavioural models for wide band gap and ultra wide band gap devices
- Estimation of the junction temperature based on Temperature Sensitive Electrical Parameters and on Fiber Bragg Grating
- Strategies and methodology for precise and timely enabling of the limp mode
- A model to predict the remaining useful life of the power module
- A digital twin of the power module for non-conventional condition and health monitoring
- Technoeconomic cost models for offshore wind farm maintenance

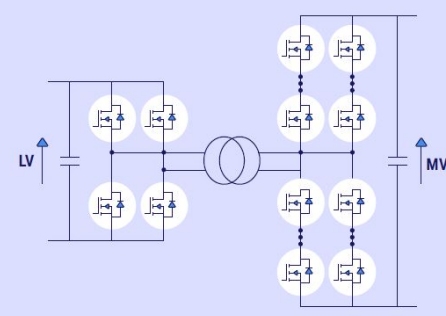
The FLAGCHIP pilots

FRANCE

SUPERGRID

Bidirectional MV DC/DC converter

Demonstration in DC MVDC Converter for energy distribution architecture (Solar, Offshore Wind, Electric Vehicle, etc.)

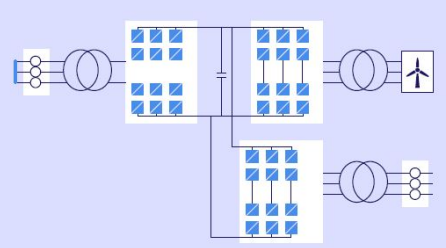


NORWAY

SINTEF

Bidirectional HVDC network

Demonstration in AC/DC Offshore Wind Turbine and Substation Converter architecture



Project Identity

Project Title:
Flagship advanced solutions for Condition and Health monitoring in Power electronics

Grant Agreement No: 101172794

Start: 1st September 2024

Duration: 42 Months

Budget: €3,989,562.75

Find Out More
Visit: www.domain.eu
Contact us: email@email.eu

Follow us:






Figure 4 - FLAGCHIP's leaflet



Figure 5 - FLAGCHIP's poster

4.1.3 Templates

Templates have been created for the consortium partners to be able to produce their deliverables and presentations. Branded templates are designed to give slide presentations a consistent appearance and ensure uniformity. The branded templates enhance audience brand recognition. FLAGCHIP's presentations include the logo, brand colors, fonts, and brand elements from the project's visual identity. In particular, templates for the project's deliverables and partners' presentations have been created and are available to project partners.

The following templates have been prepared for the FLAGCHIP project:

- FLAGCHIP presentation template.

- Project deliverables and reports template.

The templates are shown below in Figures 6, & 7:

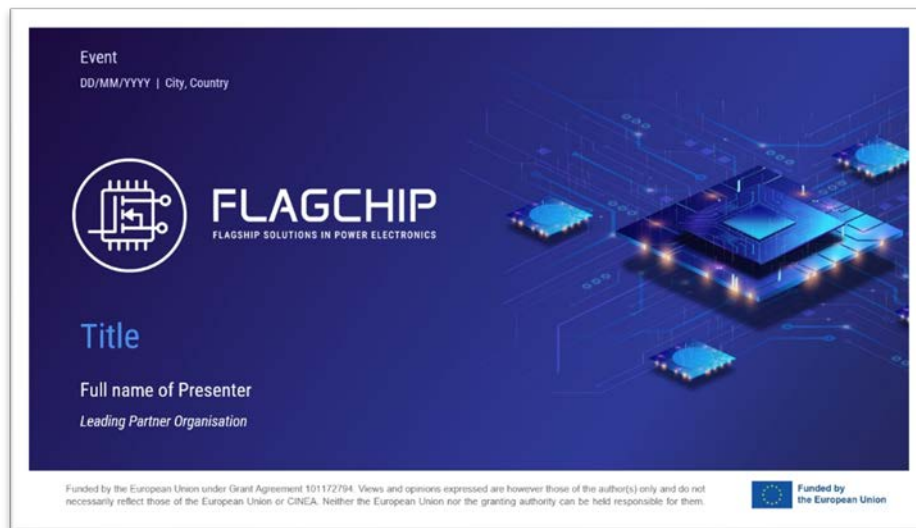


Figure 6: Presentation template



Figure 7: FLAGCHIP's deliverable template cover

4.2 FLAGCHIP's digital presence

4.2.1 FLAGCHIP's website

The project's official website will be accessible online by M4 (December 2024) catering to users on all devices without any limitations or restrictions.

The website will provide a centralised platform for information dissemination and engagement. Users will be able to access the portal seamlessly, fostering an inclusive and user-friendly experience.

It will constitute the main gateway to FLAGCHIP activities, publications, news and events. Specifically, it will contain information about the project's concept and objectives, the main developments and pilot activities, the consortium, relevant initiatives, as well as project news. Links to social media accounts of the project and to project partner's webpages but also relevant initiatives will also be included. In addition, it will be equipped with an online newsletter subscription for visitors/ users.

As the project evolves, the website will be further enriched with all public deliverables and promotional material. The news section of FLAGCHIP's website will be updated regularly, whenever an action/ activity is taken.

Site visits, statistics and other information on visitors' views (e.g. number of pages per visit, time on site, most viewed pages, etc.) will be measured using Google Analytics 4, to which the website is registered since the first day of its operation.

Q-PLAN is responsible for the design, operation, and update of the project's website. The project website will be mentioned in all publicity material generated by the project consortium. Taking this into consideration, the website will be monitored periodically to assess visibility and outreach on whether the project is on the right path or if increased efforts are needed.



4.2.2 Social Media Accounts

In today's society, the use of social media has become a necessary daily activity, therefore the project's social media accounts (SMAs) are among the main pillars of promoting project's news, events and activities. FLAGCHIP utilises social media accounts on Facebook, LinkedIn, X and YouTube. The above-mentioned accounts were launched in M1 (September 2024). If any needs arise, other social media may be used in the future. Table 6 contains URL links to the existing social media accounts of FLAGCHIP.

Table 6. Social media accounts

Social media platform	Account name	URL
LinkedIn	FLAGCHIP Project	https://www.linkedin.com/company/flagchip-project/
X	FLAGCHIP Project	https://x.com/Flagchipproject
YouTube	FLAGCHIP Project	https://www.youtube.com/@FLAGCHIPproject
Facebook	FLAGCHIP EU Project	https://www.facebook.com/profile.php?id=61565428628434

The project's social media will be continuously updated in English with news about the project's activities and results, events, scientific news, and updates from several organisations/ associations that promote semiconductor technologies and power electronics as well as news from related EU projects, etc. The frequency of social media posts will depend on the availability of news about the activities and results of the project.

In addition, hashtags are used on the project's posts to help stakeholders easily find them and encourage interaction. The hashtags used on the project's social media accounts are:

- #flagchip-project
- #HorizonEurope
- #PowerElectronics
- #Semiconductors
- #PowerModules

Q-PLAN is responsible for the administration of FLAGCHIP's social media accounts. All partners are requested to follow the social media accounts, disseminate the posts through their own networks, as well as to publish posts and news about the project regularly, through the social media of their organisation.

4.2.2.1 LinkedIn

LinkedIn constitutes a significant networking tool for professionals, offers a more institutional approach and has therefore been selected as the core social media channel. The project's LinkedIn page was set up in M1 (September 2024) and it focuses on presenting the project, its objectives and results. All partners are responsible for timely updating and sharing their input to ensure their activities are duly promoted.

4.2.2.2 X

An X account was also launched in M1 aiming to build engagement with stakeholders and other European projects through the exchange of quick, frequent messages. X is known for communicating via short messages. That helps project stakeholders understand, quickly and easily, what FLAGCHIP is and what it does. In addition, X can be used as a promotional tool for the project's events and workshops as it can create a buzz around the activity in a short period of time.

4.2.2.3 YouTube

The FLAGCHIP YouTube channel was established also in Month 1. This channel is chosen to consolidate project videos in a singular, easily accessible location. The primary objective behind creating the YouTube channel is to disseminate promotional videos, leveraging the platform to expose the project to a broader audience.

4.2.2.4 Facebook

Finally, a Facebook account was also created in M1 with the aim of building a strong community in various ways such as posting key project information, upcoming events and other useful, relevant and interesting links. Facebook provides a fast, free connection to significant number of stakeholders, so it gives the FLAGCHIP project an opportunity to share news and results. Like all FLAGCHIP social media accounts, the project's Facebook page will be regularly updated either with posts related to the project or other related projects and initiatives.

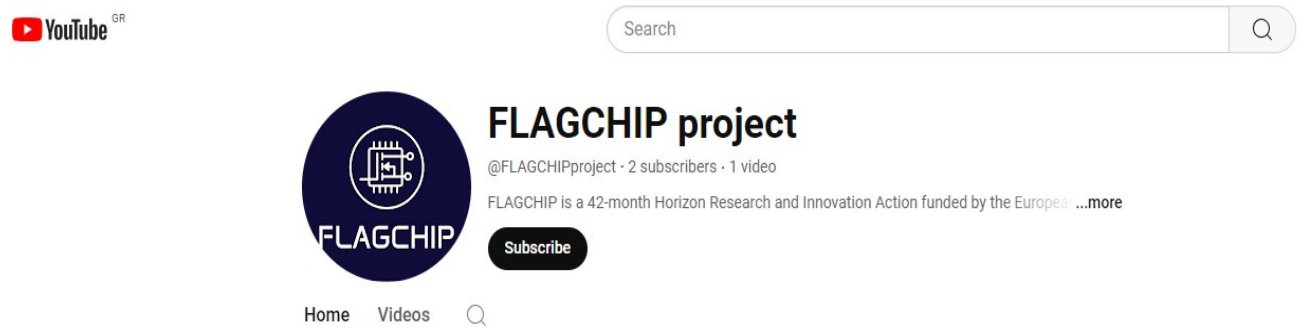
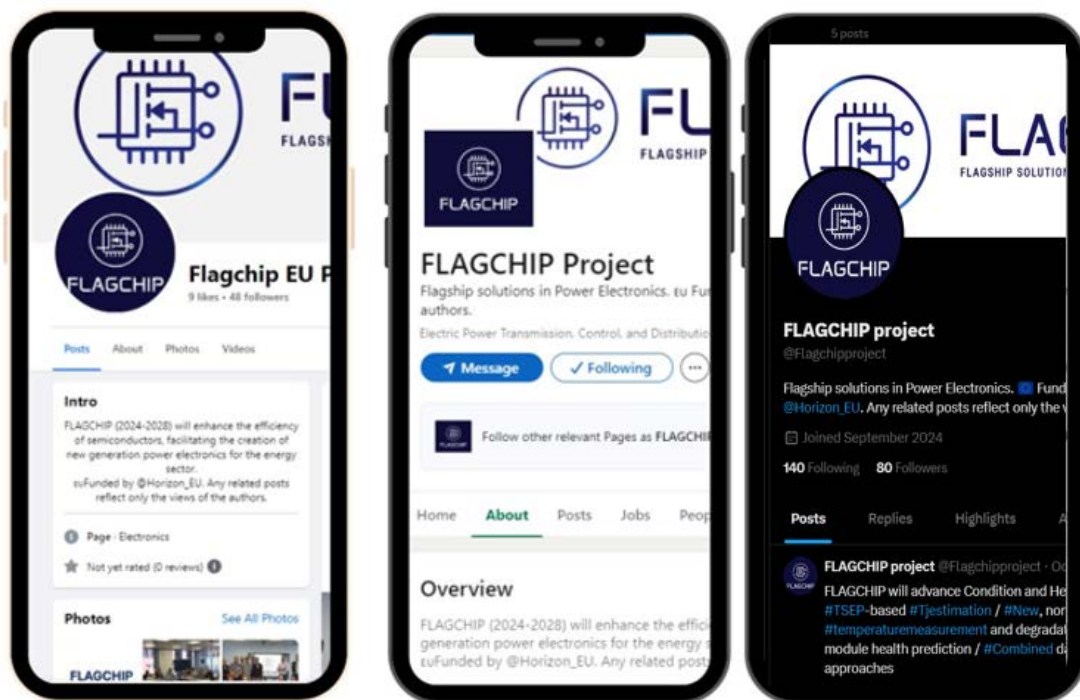


Figure 8: FLAGCHIP SMAs

Some key insights from the social media accounts of FLAGCHIP up to November 2024 can be seen in Table 7.

Table 7. Insights from social media platforms

Social media	Statistics	
Facebook	45 page likes/ 163 followers	7 posts (1.598 views)
LinkedIn	114 followers	9 posts (9.389 impressions)
X	98 followers	8 posts (148 views)

4.2.3 Online newsletter

An online newsletter will be prepared and distributed through Mailchimp, presenting among others the results achieved, upcoming activities and events, news from similar initiatives and news in the relevant scientific fields. The frequency of newsletter issues will depend on the amount and importance of news to be presented, with the target to produce a newsletter at least every 6 months, however additional ad-hoc newsletters may be added if deemed necessary.

The recipients' list will be administered by Q-PLAN. The list will be continuously updated during the project, therefore everyone who is interested will be able to subscribe to the recipients' list by registering on the newsletter section of the project's website or unsubscribe, according to GDPR rules.

The newsletter issues will be prepared by Q-PLAN, with the contribution of all partners regarding the content. The content of each issue will be decided and agreed among the consortium members. Partners are also required to disseminate the newsletter issues through their own channels.

4.2.4 Press releases and other publications

During the project, at least 12 scientific publications are expected to be published in international journals and conferences. Publication in impactful peer-reviewed scientific journals is one of the project's key channels for dissemination. The beneficiaries must ensure open access to peer-reviewed scientific publications relating to their results.

In addition, all authors are responsible for identifying any publishing opportunities and for carrying out all necessary actions to ensure the publications of project news and results. Each partner will make effort to produce publications of the highest quality, which not only reflects on the consortium's reputation but also on the FLAGCHIP project as a whole. All publications must cite or/and refer to the EU contribution and project grant agreement number, as required in Article 17 of Grant Agreement No. 101172794.

An indicative list of journals that can be used under the context of the project is given by the following table:

Table 8. Indicative journals for dissemination of FLAGCHIP's results

Title	Impact Factor	Title	Impact Factor
IEEE Transactions on Smart Grids	8.96	IEEE Transactions on Power Electronics	6.7
Wind Energy Science	4	IEEE Transactions on Power Systems	6.6
Journal of Renewable and Sustainable Energy	2.5	Renewable Energy	8.7
IEEE Transactions on Industrial Electronics	7.7	Wind Energy	4.1
IEEE transactions on Components, Packaging and Manufacturing Technology	2.3		

During M1 (September 2024), the FLAGCHIP project first press release was issued and generated by Q-PLAN. It communicated the identity of the project, the consortium constellation, the project's purpose and overall objective. The press release was shared with the consortium to be used through their channels for the announcement of the start of the project.



FLAGCHIP HAS OFFICIALLY STARTED!

FLAGCHIP is a 42-month Horizon Research and Innovation Action funded by the European Climate, Infrastructure and Environment Executive Agency (CINEA) under the Horizon Europe Programme.

The project is implemented by a competitive consortium of 11 partners, from 8 different countries (Spain, Norway, France, United Kingdom, Germany, Greece, Cyprus and Switzerland), with a strong research group collaborating with key stakeholders that include industrial players such as manufacturers.

FLAGCHIP will validate wide band-gap (WBG) and ultra wide band-gap (UWBG) semiconductor technologies and their integration into more compact and cost-effective power modules, combining these developments with upgraded condition and health monitoring of power electronic components.

FLAGCHIP's approaches will be demonstrated through AC/DC and DC/DC applications in France (DC/DC MVDC Converter) and Norway (AC/DC Offshore Wind Turbine and Substation Converter).

As a result, FLAGCHIP will enhance the efficiency of Power Electronics components, facilitating the creation of new generation inverters, converters and other power equipment for the energy sector.

FLAGCHIP's website and social media will be out soon, so stay tuned!

Funded by the European Union under Grant Agreement 101172794. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or CINEA. Neither the European Union nor the granting authority can be held responsible for them.

Funded by the European Union

Figure 9: FLAGCHIP's 1st press release

On October 2024 a second press release was prepared and shared with partners in order to communicate the successful completion of the project's kick-off meeting.

4.3 FLAGCHIP's Events

4.3.1 The Final Conference

A final conference will be (co-)organised near the end of the project to spread the accumulated knowledge and present the final achievements to scientists, industry, policymakers and all other interested parties as well as to promote their uptake across Europe, and beyond. To optimise the event's reach and impact, concerted efforts will be made to arrange it as a satellite event within the framework of a prominent international event.

4.3.2 External Events

Partners will participate in several external conferences and events (>15) of great interest to the project's target stakeholders to keep in touch with them, exchange knowledge, and communicate the project value propositions and results. In addition, the targeted events, both scientific and business, will relate to the knowledge fields of the project, the sectors it covers as well as the interests of the project's primary stakeholders. The goal is to keep in touch with the latest advances in research and industry across Europe, share knowledge with respective communities, and establish contacts and interactions with key stakeholders, while at the same time communicating the results of the project. External events in which partners will participate include, among others, business events, exhibitions, scientific events and conferences. Partners should follow the guidelines below:

- If a partner is presenting, the FLAGCHIP project presentation template should be used, unless the external event's organisers mandate speakers to use a different template;
- During the event, it is important to disseminate the project's promotional material (leaflets, poster, etc.);
- A number of photos must be taken;
- The partner is requested to update the dissemination and communication manager about their participation in the event and to share the photos taken, no later than ten days after the event;
- All partners are requested to fill the tab located in the 'Dissemination and Communication reporting' file concerning their participation in external events. Submission is required no later than three weeks after the event. The table can be found in the annexes as well as on the project's repository;

In the table below, an indicative list of external events relevant to FLAGCHIP is provided.

Table 9. FLAGCHIP indicative external events for the dissemination of the project's outcomes

External Events		Description
WindEurope, FOWT, PCIM Electronica, InterSolar, ENLIT Europe	EUSEW, Europe, CIRED, ENLIT Europe	Some of the largest events related to Renewable Energy, Offshore Wind farms, and Power Electronics in Europe.

PES Europe, APEC, EPE ECCE, EEEIC, SmartGridComm, ISGT, CIPS, ISPSD, ICSCRM	Well-known and with significant scientific value large conferences on Power Electronics, Smart Grids, RES and wide bandgap semiconductors.
HMS, Euromaintenance	Major international and European events for predictive maintenance.
Other European Events	Energy Tech Summit, World Sustainable Energy Days, E-world energy & water are some broader events in which key stakeholders and experts in the energy domain gather and transfer knowledge, networks, and collaborations.

4.4 Networking and Joint Activities with Relevant Initiatives

In order to reach a wider pool of stakeholders, FLAGCHIP will leverage the consortium partners' extensive reach to establish synergies with key networks and initiatives, including the European Energy Research Alliance, as well as Horizon Europe projects, and projects funded under other EU programmes. Q-PLAN, with the support of all partners, will create communication pathways with those projects for collaboration, knowledge exchange, and joint activities.

Table 10. Consortium networks for dissemination and exploitation of results

Networks and Initiatives	
European Energy Research Alliance (CIRCE)	Wind Europe (HITACHI)
International Network for Harmonised and Recognised Measurements in Wind Energy (CIRCE)	Association of European Renewable Energy Research Centers (CIRCE)
Power Electronic Conversion Technology Annex PECTA (HITACHI, MQSEMI)	European Factories of the Future Research Association (SINTEF)
Friends of Sustainable Grids (SUPERGRID)	European Center for Power Electronics (HITACHI, MERCE, SUPERGRID, INSA)
SEEDS - Systèmes d'énergie électrique dans leurs dimensions sociétales/ Electrical Energy Systems and their Impact on Society (INSA)	European Business and Innovation Network (Q-PLAN)

A template synergy list, a copy of which is available in the annexes has been created to facilitate efficient categorization of potential synergies. Throughout the FLAGCHIP project's lifespan, this list will be enriched, and the revised version will be part of the next version of this deliverable. Emphasising collaborative activities is vital for unlocking the full potential of the FLAGCHIP project. In this respect, the consortium should remain vigilant, actively seeking new collaborations and joint actions to ensure the project's success.

4.5 EU dissemination channels

A tentative list of EU dissemination channels that may be utilised by FLAGCHIP throughout its duration is provided below:

- CORDIS is the EC primary source of results from projects funded by the EU's framework programs for R&I;
- The Horizon Results Booster addresses projects eager to go beyond their dissemination and exploitation obligations under Horizon funding schemes;
- Horizon Results Platform is a repository of Key Exploitable Results of EU-funded research and innovation projects;
- Open Research Europe is an open access publishing platform that beneficiaries can use to publish any research results coming from R&I funded programs, and it is in line with the EU's open science policy;
- Horizon Dashboard is an interactive knowledge platform where statistics and data on EU Research and Innovation programs can be extracted.
- Zenodo is a general-purpose open repository developed under the European OpenAIRE program and operated by CERN. It allows researchers to deposit research papers, data sets, research software, reports, and any other research related digital artefacts.

6. Key performance indicators and monitoring

To measure the success of FLAGCHIP's dissemination and communication strategy, the following KPIs will be employed, and all dissemination activities will be monitored with their results being compared to the KPIs so as to assess whether is on the right path or if increased efforts need to take place.

Indicator	Target (impact)	Indicator	Target (impact)
Stakeholders participated in project events	>100	Followers on social media	>1,000
External events/conferences attended	>15	Views of the promotional video	>1,500
Synergies with initiatives & networks	>10 joint actions	Number of newsletters released	7
Publications in int. Journals/conferences	≥8 / ≥4	Promo (e-)material distributed	>300
Stakeholders' outreach/engagement	10,000/500	Online Articles / Press Releases	≥4 / ≥8

To meet target values, project partners are expected to continuously carry out publicity actions and report all publicity and communication outcomes regularly. Q-PLAN will be responsible for monitoring and evaluating FLAGCHIP dissemination activities.

Partners are required to provide details on all communication and dissemination actions through the FLAGCHIP "Dissemination and Communication Reporting", which will be in the project's repository. The table can be found in the annexes. Q-PLAN will notify all partners in advance for input collection.

Any promotional material related to the project produced by a partner should be reviewed and approved by the WP7 leader, Q-PLAN. Each project partner should promptly contact Q-PLAN if they identify opportunities, problems, or risks during the planning or implementation of publicity actions.

7. Conclusions

This document, titled “Dissemination and Communication Plan and Activities”, provides the framework and guidelines for the successful implementation of dissemination and communication activities throughout the lifespan of the project and beyond. As the project evolves, this document will be updated and refined in order to provide a more detailed analysis of the dissemination actions and plans. The actions and plans of this deliverable answer to the following questions:

- What to disseminate?
- To whom?
- How?
- When?

This document also provides the monitoring mechanism of the dissemination activities, which is based on targeted KPIs. By communicating the project’s tangible and intangible assets through the most effective channels and tools to timely reach the targeted groups, FLAGCHIP will be able to not only go beyond these ambitious KPIs but most importantly lay the foundations for the sustainability of its outcomes. As the project evolves, the DCP will be updated, results will be presented and progress against targets will be measured in the interim, and final versions of this deliverable (M18 and M42 respectively).

Annexes

Annex I – FLAGCHIP Dissemination and Communication Guidelines


FLAGCHIP
FLAGSHIP SOLUTIONS IN POWER ELECTRONICS
 Contact Details: baltaj@euplan.intl.gr

Dissemination & Communication Guidelines

Q-PLAN International

10/10/2024

Funded by the European Union under Grant Agreement 101172794. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or CINEA. Neither the European Union nor the granting authority can be held responsible for them.

Funded by the European Union

@flagchip-project


GA 101172794

FLAGCHIP D&C Guidelines

This document provides you with key initial guidelines regarding communication and dissemination activities and introduces the main dissemination monitoring tools that you are kindly asked to use throughout the project.

Main Guidelines

1. Actively contribute to the dissemination of project results and key messages.
2. Do not forget to include the FLAGCHIP logo and website URL, together with the EU logo and the disclaimer.

Funded by the European Union under Grant Agreement 101172794. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or CINEA. Neither the European Union nor the granting authority can be held responsible for them.

In practice, it should look like this:

Funded by the European Union under Grant Agreement 101172794. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or CINEA. Neither the European Union nor the granting authority can be held responsible for them.

Funded by the European Union

When displayed with another logo, the EU emblem must have appropriate prominence.

You can download the needed EU emblem in the desired resolution following this link: https://ec.europa.eu/regional_policy/en/information/logo_downloadcenter/

3. If possible, follow the style guide concerning writing style, formatting options, numbers and currency, abbreviations and acronyms, capitals, electronic cross-references, naming conventions, and citation style. In general:
 - Use Arial for all text in documents.
 - Always use the same style for references, both for in-text citations and in the bibliography/footnotes.
 - Be consistent in using currency references (for example, use EUR instead of € throughout).
 - Be consistent in the numbering format: comply with the British usage (e.g. 75,000,230.23), unless differently indicated by the bid manager.
 - Make sure to introduce each abbreviation and acronym the first time you use it and create an abbreviation/acronym list at the beginning of the document.
 - Review the language and the coherence of the structure of the text you drafted.
4. Whenever possible, use the templates that are provided to you, i.e. letterhead, presentation, and publication. A leaflet, a poster and a roll-up will be prepared for you to use throughout the project. Other communication materials will be prepared ad-hoc if needed.

Funded by the European Union under Grant Agreement 101172794. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or CINEA. Neither the European Union nor the granting authority can be held responsible for them.

Funded by the European Union

@flagchip-project

Page 1 of 3


GA 101172794

5. Always inform Q-PLAN regarding every dissemination and communication activity that you plan to carry out (e.g., organising an event, writing articles for websites or magazines, participating in an external event, etc.) at least one week prior to your activity. This will enable us to publicize it through the FLAGCHIP communication channels in a timely manner.
6. You will have to report in detail all the communication and dissemination actions you undertake (see FLAGCHIP Dissemination & Communication Reporting Template for instructions). This template is in line with the new Horizon Europe programme needs and is sent to all partners by email.
 - Always report about meetings and events you organised and/or participated to "D&C Reporting" template.
 - The initial expectation for input collection is every 6 months and Q-PLAN will notify the consortium in due time to start collecting input as well as in case of any changes.

Important Note: The reporting information for all D&C activities on the SYGMA platform has been officially defined by the European Commission (EC). This template is mandatory for reporting all such activities.

7. A Synergies List is provided for all partners to fill. Please follow the instructions provided by Q-PLAN via email on deadlines for initial input. For updates during the project period, when suitable opportunities arise, please contact Q-PLAN as soon as there is a list update.
8. In compliance with GDPR requirements, always gather consent, when collecting, using, and storing personal data (i.e., email, photos, etc.) during your events/conferences.

Guidelines for enhancing FLAGCHIP's online presence

This section provides you with some key initial guidelines regarding your expected contribution and use of the FLAGCHIP website and social media accounts (SMAs).

Website

1. Actively contribute to the news section of the website. Please send each news item to Q-PLAN. For all FLAGCHIP activities collect high-quality photos, and videos if possible, and share them with Q-PLAN. This will enable us to use them on the project website and project SMAs. For generic images, that do not pertain to implemented project activities, simply outline your expectations together with content about the activity and Q-PLAN will select a suitable royalty-free image for the post.
2. Inform Q-PLAN regarding every event you organise or take part in for the purposes of the project (e.g., conferences, workshops, seminars etc.) and provide Q-PLAN with a link to the event if available, so that it can be posted online in the dedicated section of the website.
3. Inform Q-PLAN about news articles (e.g., newspaper article, blogpost, etc.) mentioning your pilot area or the FLAGCHIP project and provide Q-PLAN with a linkscan for giving it more visibility online.

Funded by the European Union under Grant Agreement 101172794. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or CINEA. Neither the European Union nor the granting authority can be held responsible for them.

Funded by the European Union

@flagchip-project

Page 2 of 3

Social Media Accounts (SMAs)

1. Register to all FLAGCHIP SMAs (i.e. LinkedIn, Twitter and YouTube) and use them: monitor announcements and posts, comment, like and retweet/repost - share.
2. Do make your own posts to foster discussion and keep the page alive, either in English or in both English and your native language – Make sure to tag FLAGCHIP so that we can follow up accordingly.
3. Promote the FLAGCHIP SMAs within your network of contacts.
4. Suggest FLAGCHIP relevant profiles that we could follow (on Twitter, LinkedIn).
5. Select among the project hashtags when posting on SMAs and add any that you feel is appropriate for your post. Available hashtags are:

Mandatory: #flagchip-project

Optional: #HorizonEurope #PowerElectronics #Semiconductors #PowerModules #WBG #WBG #Condition&Health_Monitoring #REGeneration #OCOnds #R&I #Innovation
6. If you make a short video, edit it to enhance the project identity (add the name of the project, the logo, the EU emblem and the disclaimer "Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or CINEA. Neither the European Union nor the granting authority can be held responsible for them"). Q-PLAN will upload it on YouTube.

The above-mentioned points will be updated, when necessary, to be in line with the project's requirements and progress.

Funded by the European Union under Grant Agreement 101172794. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or CINEA. Neither the European Union nor the granting authority can be held responsible for them.

Funded by the European Union

@flagchip-project

Annex II – FLAGCHIP Dissemination and Communication Reporting Template

A) Communication Activities

Last Updated		DD/MM/YYYY					
#	Communication Activity Name	Description	Who? Target Audience	How? Communication Channel	Outcome	Status	Comments

B) Dissemination Activities

Last Updated			DD/MM/YYYY				
#	Dissemination Activity Name	What? Type of dissemination activity	Who? Target audience reached	Why? Description of the objective(s) with reference to a specific project output (max 200 characters)	Status of the dissemination activity	Comments	

C) Publications

Last Updated		DD/MM/YYYY		
#	Type of PID	PID (publisher version of record)	PID of deposited publication	Type of publication

Link to publication	Title of the scientific publication	Authors	Title of the Journal or equivalent	Number

ISSN or eISSN	Publisher	Month of publication	Year of publication	Was the publication available in open access through the repository at the time of publication

Peer-reviewed	PID of Book (if applicable)	Book Title	Did you charge OA publishing fees to the project?	Article processing costs that will be charged to the project (EUR)

D) Future events

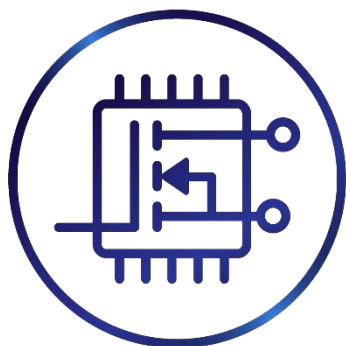
Type (External attended or Future)	Event's Name	Thematic Focus	Date	Location	Registration fees	Specific requirements for participation (e.g. abstract submission etc)

Deadline for abstract submission (if applicable)	URL	Event Image (png, jpg)	Attendees (approximate)	Added by (Partner)	Status

Annex III - Synergy List

Last Updated		DD/MM/YYYY			
No	Name of Initiative	When does it end?	Type of initiative (e.g. Horizon 2020 & Horizon Europe project, network, standardisation body, association, technology platform, etc)	Short description	Website

Responsible FLAGCHIP partner(s)	How can this initiative feed into our activities?	Name of main contact	Role	E-mail



FLAGCHIP

FLAGSHIP SOLUTIONS IN POWER ELECTRONICS

GA 101172794

Partners

