

Community Building Strategy

Deliverable D5.1

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Executive Summary

During the initial months of DILAPRO project, a strategy of community building was defined in order to guide all partners on their responsibilities for the activities of the project being implemented at this level. This deliverable report, D5.1, gathers all the community-building strategies that will be implemented during the project duration. The primary objective of the strategy presented below is to expand the outreach of the DILAPRO project. This will be achieved by actively engaging all partners of DILAPRO in a collective plan. Each partner plays a crucial role in the value chain of the DILAPRO system, considering the structure in which the consortium was established.

Introduction

This Deliverable report includes a detailed breakdown of each strategy, its objectives, and how it will be implemented, with the aim of creating an engaged and supportive community. Stakeholder requirements will be met through streamlined knowledge transfer. Community workshops will educate on digital technology implementation in laser processing. DILAPRO will confidently take part in a wide variety of events, either as a consortium or as single partner; and will address dedicated engagement actions and knowledge transfer activities to networks, delivering results and open data directly to key European platforms (such as Zenodo, Funding Results Platform and Horizon Results Booster).

The main pillars of the Community Building Strategy include:

- Mobilization of networks and associations.
- Participation on external events and fairs.
- Knowledge transfer to the participants.
- Clustering and plan for co-organization of events with fellow EU projects and initiatives.

Community involvement is an on-going activity in the project is crucial for its success and long-term sustainability. When a community actively engages in a project, the likelihood for investment and takeover of ownership of results is higher. This ensures that the developments are a response to the needs and priorities of the community.

The community building strategy will be strongly supported by the involvement of the social media and website to be created in the framework of the project (as part of T5.2 implementation).

To facilitate the sharing and updating of events in which DILAPRO can participate, an Excel document will be used as a common and dynamic working platform. Throughout the project, this file will be continuously updated with the knowledge and expertise of the partners involved. This will help to ensure that the Community Building Strategy is on track and that DILAPRO partners are able to make informed decisions

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at every step of the way. The goal is to effectively manage financial and personnel resources, to expand the reach of the DILAPRO Community.

1. Networks and associations

The project partners in DILAPRO are highly experienced and proactive in both the academic and industrial domains. It is their firm intention to leverage this expertise to effectively **mobilize networks and associations**. It is intended to capitalise the already existing membership of some of our partners in renowned networks and associations, and actively evaluate and participate in new ones. The involvement of DILAPRO partners in European and International networks and associations will be reviewed regularly and will be structured in a three-stage plan, as detailed in table 1.

Table 1 – A phased plan for mobilising the network and associations.

Stages	Main Objective	Main Action	How? Activities to be conducted
First year	Raising and engaging members for the network	Create a network dedicated to the DILAPRO to promote the results through dissemination	✓ DILAPRO's partners (with EWF's mentoring) to contact potential interested parties. ✓ Organise interactive workshops with the network under development (at least one per year). ✓ Active completion of the Community Building Strategies file (available on DILAPRO's TEAMS Channel) by all members of the consortium. ✓ Review actions will be taken at the WP5 and WP10 periodic meetings. ✓ One-on-one Meetings with associations listed and identified projects (at least 4 meetings with associations and 4 meetings with similar projects). ✓ Creation of a section in the project website dedicated to the community
Second Year	Boosting the network	Boost and strengthen the network as dynamically as possible through the active participation of the DILAPRO project partners.	✓ Pitching the project at various events. ✓ Population of a section in the project website dedicated to the community; enabling network members to have visibility on the project's website (e.g., including the organisation's information and relevant information). ✓ Targeted sending of newsletters and notification of project activities to network members (in accordance with data protection regulations). ✓ Organise interactive workshops with the network under development (at least one per year and linked with the project's most relevant milestones).

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Stages	Main Objective	Main Action	How? Activities to be conducted
			✓ Participation in events to disseminate results (fairs, joint synergies with similar European projects, etc)
Third Year	Consolidate the network	Consolidate the participation of network members to ensure the sustainable dissemination of results (in particular DILAFACT and DILACERT) after the completion of the project.	✓ Organise interactive workshops with the network under development (at least one per year) and one final workshop with the engaged community. ✓ Participation in events to disseminate results (fairs, joint synergies with similar European projects, etc). ✓ Assessment by the network of the possibility of exploiting the results for future collaborations.

The outcome of this review will be recorded in a "Community Building Strategy" file created in DILAPRO TEAMS and will be discussed at Dissemination and Exploitation meetings (WP5 and WP10), during the lifetime of the project. Preferential contacts between associations (such as EFFRA, EuroAM, CECIMO, ISO IIW…) and DILAPRO's partners already exist. The strategy should be to capitalise on these cemented contacts and research and engage with new stakeholders. Table 2 will be placed in a common repository to be populated by DILAPRO partners along the project implementation to expand the network. The aim is for each partner to leverage the contacts already existing and create new alliances within DILAPRO.

Table 2 – Community building Network

Stakeholder Type	Name	Description	Point of interest for DILAPRO	Deadline to contact	Partner responsible for the contact	Notes
Associations	EFFRA				EWF/CRM	
	AM-Platform				EWF	
	AILU				EWF	
	IIW				EWF	
	CECIMO				EWF	
	PHOTONICS21				EWF	
	IEEE Photonics Society				EWF	
	SPIE.				EWF	
	EWA				EWF	
	OSSHA				EWF	
	AILU				EWF	
	Laser Photonics				EWF	
	(…)					
Universities	POLIMI				EWF	
	Cranfield University				EWF	

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Stakeholder Type	Name	Description	Point of interest for DILAPRO	Deadline to contact	Partner responsible for the contact	Notes
	IST				EWF	
	(…)					
RTO's	TWI, UK				EWF	
	AIT, Austria				EWF	
	Fraunhofer IWS				EWF	
	(…)					
Laser and AM manufactures	EOS				EWF	
	NIKON				EWF	
	HMT				EWF	
	EFFEE				Fieldmade, DTI	
	(…)					
Standardisation and regulatory bodies	ISO/TC 261				EWF	
	ISO/TC 44				EWF	
	CEN/TC 438				EWF	
	CEN/TC 121				EWF	
	Nadcap				EWF	

By mobilizing networks and associations, the technological advances and results achieved at DILAPRO will be actively disseminated and exploited. These developments are particularly relevant to DILAFACT and DILACERT due to their novelty, as well as their ability to meet current industry needs.

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2. External Events & Fairs

Participating in external events and technology related fairs is crucial to building a strong community around the DILAPRO project. Partners are requested to share any upcoming relevant events and fairs that will occur in the three years following the project's commencement. Certain events have been previously selected due to their relevance to the project (such as FORMNEXT, AM EXPO, DRUPA, RapidTech 3D, AMTC, AM Forum), although the mapping should be continuous and involve the active engagement of all partners. This prospecting will be periodically updated and reviewed in the "Community Building Strategy" file shared on the DILAPRO project TEAMS, during Dissemination and Exploitation meetings (WP5 and WP10).

Table 3 provides an example of the inputs that DILAPRO's partners should provide to map DILAPRO's participation in events over the next 3 years of the project. The objective is to participate in a maximum number of events and fairs, while minimizing costs and ensuring sustainable practices are always followed.

Table 3 – Map of DILAPRO partners' participation in events.

Event Type	Name	Date	Location	Participating Partner and how
Fair	FORMNEXT		Germany	
	Laser World of Photonics		Germany	
	EuroBlech		Germany	
	Schweissen & Schneiden		Germany	
	3D Additive Expo		Portugal	
	Hannover Messe		Germany	
	Addit3D		Spain	
	(…)			
Conference	I-AM Conference 2025		Portugal	
	IIW Conference		Greece	
	ICAMM		UK	
	AMC		Turkey	
	AM Forum		Berlin	
	AdvaMap		Lisbon	
	(…)			
Workshop	Annual DILAPRO workshop			
	Webinar – DAT4.ZERO and OPTIMAI Standardisation Workshop		online	
	(…)			

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The involvement of DILAPRO's partners in these events will assist to establish stronger ties with the community. Through close and direct interaction, partners can effectively communicate the results achieved and even engage in brainstorming sessions with potential future users and stakeholders regarding the technologies (DILAFACT) and certification process (DILACERT) that are under development.

It is intended that the **events and fairs** in which DILAPRO's partners will participate also be opportunities of technology transfer. Additionally, the most prominent results derived from DILAPRO will be published in open access journals, technical magazines, and other channels of communication.

The assessment of the best publication venues will be the responsibility of the author of the publication, albeit with the assistance of the other partners and the project coordinator. A register of publications will be maintained in “Community Building Strategy” file shared on the DILAPRO project TEAMS, designed for this purpose, which will later be included in the DEC report.

Table 4 describes the main dissemination routes set up for DILAPRO. This will enable DILAPRO to leverage the transfer of technology within the to be established network. Table 4 will also be a mean to track progress against the objectives. The detailed newsletter plan can be found in table 5.

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Table 4 – Dissemination Routes and KPIs.

Dissemination means	Activities Planned	Target group	Success criteria/KPIs	Activities Schedule	Organizer & Status
Workshops & Conferences	Annual DILAPRO workshop with industrial stakeholders	Industrial stakeholders, regulatory bodies	20 relevant attendees per event min. 5 new attendees per event	DILAPRO Annual Workshop 2024 DILAPRO Annual Workshop 2025 DILAPRO Annual Workshop 2026	
	Conference on the theme of Laser or additive magazine	Industrial stakeholders, researchers in the fields of AM	50 attendees 6 published presentations in Scopus registered journals by 2026	DILAPRO Conference 2025	
	Interactive workshops to foster synergies with EU R&I projects focusing on similar topics to facilitate knowledge exchange (KE)	R&I projects in the same field as DILAPRO	2-3 interactive workshops	KE Interactive Workshop 1 KE Interactive Workshop 2 KE Interactive Workshop 3	
	Technical working group/committee meetings and themed sessions	National and EU policy makers and standardisation bodies (as an example: ISO meetings)	1-2 themed sessions per organised conference		
International trade shows	Exhibit the DILAPRO technologies in trade shows	Industrial stakeholders, research and academia in the field of 3D printing and AM	At least 5 exhibits	Exhibit 1 Exhibit 2 Exhibit 3 Exhibit 4 Exhibit 5	
Newsletters & press releases	Regular press releases following DILAPRO milestones Regular items in the project and partners online newsletters; plus DILAPRO own emailed newsletter	The press; thus general public and political actors Researchers in the fields of laser and AM	A total of 2000 hits on news websites describing PROJECT's developments by project end A total of 10,000 subscribers contacted over the course of DILAPRO	1st newsletter – May 2024 2nd newsletter – July 2024 3rd newsletter – October 2024 4th newsletter – December 2024 5th newsletter – April 2025 6th newsletter – July 2025 7th newsletter – October 2025 8th newsletter – December 2025 9th newsletter – April 2026 10th newsletter – July 2026 11th newsletter – October 2026 12th newsletter – December 2026	The partner responsible for each Project Result reached, based on the responsibility already defined in the Milestones, will be tasked with developing outputs that will be included in the newsletters and press releases

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Dissemination means	Activities Planned	Target group	Success criteria/KPIs	Activities Schedule	Organizer & Status
Project website and social media	Video diary of members and explainer video describing benefits of innovative technology	End-users, general public - dedicated communication with the community	A total of 100 views per video over the course of DILAPRO	1st video – April 2025 2nd video – June 2025 3rd video – July 2025 4th video – June 2026 5th video – July 2026 6th video – October 2026 7th video – November 2026	The partner responsible for each WP, will be tasked with developing outputs that will be included in the video
	Digital material including infographics summarizing the main benefits of innovative technology	End-users of the use case studies designed taking into account the materials used, the laser technologies and the operational production lines, general public	~2,000 views on project's website and social media accounts		
	Presentation of non-confidential results of use-case demonstration on project website, highlighting the direct business benefits that were accrued by end-users	End-users	~2,000 views on project's website and social media accounts		
Demo events	Organise open day events at partners' facilities to showcase the demonstrator hybrid manufacturing production line	All targeted audiences	2-3 information/open day events involving 20-25 target customers		
Final event	Final DILAPRO event including closed stakeholder meetings and public presentations and tech demos. It will also include group discussions around different aspects of the project compared to the users interests	All targeted audiences	20 relevant attendees beyond project members at stakeholder meetings; 80 attendees for public presentations and tech demos. 500 members at the end of the project.		

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Table 5 - Newsletter Plan.

Year	Newsletter #	Release Date	Articles	Tasks Associated	Contributors	Deadline for Info.
2024	1	15th May	1	1.1;1.2	CRM	15th April
			2	1.3	Fieldmade	
			3	1.4	Pepite	
			4	1.5, 1.6	AM.E	
			5	5.2	EWF	
	2	30st July	1	2.1	IMDEA,	14th June
			2	4.1	DTI	
			3	5.2	EWF	
	3	1st October	1	3.1	AMIQ	13th September
			2	3.3	CRM	
			3	2.2	DTU	
			4	5.2	EWF	
	4	2nd December	1	3.5	DCU	15th November
			2	4.2	DTI	
			3	4.3	DTI	
			4	5.2	EWF	
2025	5	1st April	1	4.4	DTI	17th March
			2	6.1	DTI	
			3	5.2	EWF	
	6	1st July	1	2.3	Pepite	16th June
			2	3.2	DCU	
			3	3.6	PRIMA	
			4	5.2	EWF	
	7	1st October	1	8.1	AME	15th September
			2	6.3	DTI	
			3	5.2	EWF	
	8	1st December	1	10.2	EWF	17th November
			2	5.2	EWF	
2026	9	1st April	1	8.2	AME	15th March
			2	7.3	PEPITE	
			3	7.4	DTU	
	10	1st July	1	7.1	DTU	15th June
			2	9.1	DTI	
			3	9.2	PRIMA	
			4	5.2	EWF	
	11	1st October	1	7.2	PEPITE	18th September
			2	8.3	AME	
			3	8.5,8.6	AME	
			4	5.2	EWF	
	12	1st December	1	9.3	DTI	16th November
			2	9.4	EWF	
			3	9.5	DTI	
			4	8.4	AME	
			5	5.2	EWF	

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3. Knowledge Transfer Activities

DILAPRO partners come from varying technological backgrounds, each with their own unique knowledge and expertise. Table 6 details their main competences and knowledge. The primary goal is to proactively share knowledge, among themselves and with potential stakeholders.

Table 6 - Mapping of general expertise of DILAPRO partners.

Partner	Expertise & Knowledge
DTI	Multi Laser Technologies; LCA and Environmental Considerations; Materials Characterization
CRM	Multi Laser Technologies; Materials Characterization
DTU	Multi Laser Technologies; Modelling of laser technologies; Machine Learning algorithms, Digital twins; Materials Characterization
DCU	Digital Twins; Multi Laser Technologies; Machine Learning
EWF	Digital Certification and Standardization
Fieldmade	Machine Manufacturers
Prima Additive	Machine Manufacturers; on-line control
Pepite	Data Analyses; Soft. and Data Communication
AM.E	Certification
IMDEA	Multiscale physics-based models; Materials Characterization
AMIQUAM	In-situ Sensoring

To address the internal needs of the DILAPRO project, questionnaires will be distributed among the partners. These questionnaires will serve as a means to assess the effectiveness of our current practices and identify any areas that may require internal training for further improvement. The feedback will inform our ongoing commitment to knowledge transfer.

To ensure transparency in technology transfer between partners, all partners are committed to openly sharing information. Periodically, informal and voluntary workshops will be held to discuss the different technologies being applied in the project. Ideally, the goal is to hold at least three technical workshops per year. Ensuring that each partner has the opportunity to hold a workshop in order to actively share their expertise. The participation typology (online or face-to-face) should be discussed with DILAPRO's partners, depending on the specific nature of the workshop. The ultimate aim is to nurture knowledge sharing, ensuring that is accessible and democratic as possible.

To better monitor and implement Knowledge transfer activities, the tables below will be used as a useful planning and accompanying tools. The fields will be adjusted as needed.

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Table 7 – Internal Training Sessions

Partner	Date	Schedule	Location	Subject	Description of workshop					Type and Number of participants	Availability of Training Materials	Notes
					Title	Objectives	Content	Approach	Topics			
example	10.10.2030	9h – 13h	Partner X Facilities	AR/MR Tools						15 participants from end-users	Yes, from partner X	N/A
DTI												
CRM												
DCU												
DTU												
EWF												
Fieldmade												
Prima Additive												
Pepite												
AM.E	13/03/2024	14h-15h (CET)	online	Certification process								
IMDEA	24/04/2024	14h-15h (CET)	online	Physical simulation tool								
AMIQUAM												

Table 8 – External Training Sessions

Partner	Date	Schedule	Location	Subject	Description of workshop					Target Groups	Number of participants	Registration Forms	Notes
					Title	Objectives	Content	Approach	Topics				
DTI													
CRM													
DCU													
DTU													
EWF													
Fiedlmade													
Prima Additive													
Pepite													
AM.E													
IMDEA													
AMIQUAM													

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4. Clustering Plan

Clustering and co-organizing events under the EU umbrella is a strategy to strengthen the community around the DILAPRO project. A review of potential projects within the same call topic that DILAPRO's has been completed and related initiatives, 22 projects have been identified at this stage. This network will be expanded to include other ongoing projects. In order to cluster the events of the projects identified, a working group from similar projects should be set up to convene on a regular basis (annually or biannually) and share (public content) on the progress of their respective projects. As a result, the review process will be ongoing and closely monitored throughout the project's duration. This process will be the responsibility of all the partners involved, with coordination from EWF.

As per the information shared in Table 4, one of the crucial activities that need to be incorporated in the Cluster Plan is organizing interactive workshops. These workshops serve the purpose of building collaborations with EU R&I projects that are focused on similar domains. The main aim of such workshops is to encourage the exchange of knowledge and ideas, which can lead to better outcomes and advancements in the field.

Similar to the other activities in the community-building strategies, these potential collaborations will be detailed in the “Community Building Strategy” file shared on the DILAPRO project TEAMS. The clustering strategy should include: the name and an acronym of the project, a brief description, an indication of its coordinator, whether there are any DILAPRO participants in this consortium and their role.

The list of projects identified so far is presented hereafter (more details on each project are available on the consortium common repository). In the first half of the DILAPRO project there will be a meeting dedicated to the distribution of tasks regarding the partner responsible for creating links with similar European projects. Preference will be given to partners who already are involved in the projects mentioned (such as EWF, DTU and Prima Additive). A standard presentation will be developed for this activity, where each liaison will present the DILAPRO project and the potential benefits of similar projects becoming part of the community.

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Table 9 - Projects map for Clustering Initiatives

Project Acronym	Project Title	Project Coordinator	DILAPRO Partners Involved	Type of Funding
GlobalAM	Enabling Laser Powder Bed Fusion for Large Scale Production of Multi-Material Components	ROBERT BOSCH	DTU	TT-01-02-2023
FLASH	Flexible Laser-based manufacturing through precision photon distribution	PRIMA ADDITIVE	PRIMA + EWF	TT-01-02-2023
Multimold	Multi-functional In-Mold Electronics	JOANNEUM RESEARCH	DTU	TT-01-02-2023
Wavetailor	Modular laser sources for sustainable production of short personalized production series	JOANNEUM RESEARCH		TT-01-02-2023
Biostruct	Manufacturing process for bio-based fibre-reinforced composite parts for structural applications	PROFACTOR		TT-01-02-2023
Alabama	Adaptive Laser Beam for additive manufacturing	SINTEF		TT-01-02-2023
Wise	Multi-scale multi-process machine for high value-added products with disruptive functionalities	PRIMA ADDITIVE	PRIMA	TT-01-02-2023
LaserWay	Extremely High-Speed Laser Processes For Sustainable And Flexible Manufacturing	IDEKO S COOP		TT-01-02-2023
Holistep	Sub-wavelength holographic lithography stepper for integrated circuit production	FRAUNHOFER		TT-01-02-2023

In terms of activities to operationalise the clustering plan, this will be implemented in several steps, as follows:

1. Mapping of Projects under the same call;
2. Mapping of other R&I relevant initiatives;
3. Develop standard material to engage with the project (including DILAPRO overview and the benefits to become part of DILAPRO community);
4. Allocate internal responsibilities for the project's engagement (the ones mapped in 1 and 2);
5. Schedule meetings with the coordinators of the identified initiatives;
6. Formalise the integration of the project in the community;
7. Maintain the project actively engaged by invitation to participation in the activities in the sections above and by communicating the project advancements and outcomes (through the means presented in the previous chapters)

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Conclusion

The Community Building report, D5.1, outlines the community-building strategies that will be implemented during the DILAPRO project. The objective is to expand the outreach of the project by actively engaging all partners in a collective plan. Strategies include mobilizing networks and associations, participating in external events, knowledge transfer, and co-organizing events with fellow EU projects.

For DILAPRO to succeed and for the efforts of all partners involved in its 11 Work packages to be sustained, it is essential that the community is actively engaged. Building a strong and vibrant community requires the participation and commitment of all stakeholders, including WP leaders, team members, and external partners. By fostering an environment of collaboration and inclusion, DILAPRO can benefit from the collective experience and resources of its community in order to achieve its goals and ensure the long-term relevance of the results obtained after the completion of the project.

For this purpose, DILAPRO will be leveraging the impact of social media and a dedicated website. Furthermore, an Excel file available in DILAPRO TEAMS will be used to simplify the sharing and updating of events. The primary goal is to optimally manage DILAPRO resources and to expand the outreach of the DILAPRO Community to a larger audience.

This document is the baseline for the Dissemination, Exploitation and Communication (DEC) Plan, as it outlines the strategy and schedule to be implemented. This Plan will be drawn up considering the strategy already outlined for Community Building and will be available in M6 of the DILAPRO project.

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