INFINITE

Aerospace composites digitally sensorized
from manufacturing to end-of-life

D7.2
Preliminary Plan for the Exploitation and Dissemination of Results (PEDR)

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ABSTRACT / EXECUTIVE SUMMARY	
Abstract	The Plan for the Exploitation and Dissemination of Results (PEDR) is a strategic document that incorporates the strategic activities for the successful commercialization of INFINITE results. As defined by EU Horizon Europe program, it is a document that summarises the beneficiaries´ strategies and concrete actions related to protection, dissemination and exploitation of project results. The deliverable D7.2 outlines the plan adopted within the INFINITE project to develop an effective dissemination and exploitation of projects results, maximizing their impact. For that, initially the project makes use of the Communication plan already described in deliverable D7.1. Based on that, this D7.2 document completes the communication and dissemination plan including the foreseen communication and dissemination actions, their planning, tools and sources and the expected communication and dissemination KPIs. Regarding Exploitation, this deliverable describes the exploitation plan that will be followed with the description of tasks, tools, workshops, etc. to be implemented during the project and the expected deadlines for their completion. This exploitation plan is based on the EXPLOITT methodology developed by IDEKO. Which offers a comprehensive guidance to all partners from the project's inception to its completion. In addition, the document summarizes the work done by INFINITE consortium partners in these fields and the achieved outcomes during the first reporting period (initial 18 months) of the project.
Keywords	PEDR, Communication, Dissemination, Exploitation, Key Exploitable Results, IPR.

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1. INTRODUCTION

1.1 COMMUNITY UPTAKE AND SUSTAINABILITY, DISSEMINATION, EXPLOITATION AND STANDARD

The overall objective of Works Package 7 in INFINITE project is to ensure the results from the project are available to the general public and professionals in the manufacturing industry and related sectors, as well as delivering a route to exploitation in appropriately related applications.

The specific objectives are:

1. Develop dissemination assets; raise awareness through engagement in effective outreach activities.
2. Ensure widespread use of INFINITE within the manufacturing industries and target market segments; maximise exploitation opportunities for partners and see for follow-up investments.
3. Make INFINITE standards compliant; contribute to standards update and future standards formulation.
4. Analyse market segments and produce effective customer adoption plan; elaborate and manage business risks.
5. Manage INFINITE innovation effectively and take appropriate actions to protect IPR (Intellectual Property Rights) knowledge.

Regarding this last point (IPR), safeguarding the outcomes of the project stands as a pivotal aspect of the exploitation activity, playing a crucial role in transforming innovative concepts and inventions into competitive products and services. In pursuit of this, project partners will be engaged in thorough discussions to determine the optimal IPR strategy for safeguarding the solutions attained by the INFINITE project.

1.2 SCOPE AND OBJECTIVES OF THIS DELIVERABLE

The Plan for the Exploitation and Dissemination of Results (PEDR) is a strategic document that incorporates the strategic activities for the successful commercialization of INFINITE results. As defined by EU Horizon Europe program, it is a document that summarises the beneficiaries´ strategies and concrete actions related to protection, dissemination, and exploitation of project results. The PEDR follows the progress of the project from the proposal until the submission for the final project report.

To achieve these goals deliverable D7.2 outlines the methodology adopted within the INFINITE project to develop an effective dissemination and exploitation plan, maximizing the impact of the project's results. To achieve an effective communication and dissemination of INFINITE project result, the project makes use initially of the Communication plan already described in the deliverable D7.1. which is going to be the first input for a proper definition of INFINITE Communication and Dissemination plan.

The communication plan detailed in D7.1 is structured in three main phases.

- Initial Phase (M1-M12): Build Awareness and Attract the audience.
- Intermediate Phase (M13-M24): Interest and desire of the target audience to know more about the project.
- Mature/Final Phase (M25-M36): Action for the interested audiences to get involved.

The purpose of the Communication and Dissemination plan is let the audience know that our project exists, what are the project objectives, how the project outcomes are relevant to industrial companies, scientific community or to general public, and how European collaboration achieves more than would have otherwise been possible. In addition, it makes available for relevant stakeholders (scientific, industrial, and other communities) of other dissemination activities (scientific publications, conferences, training, etc.) to inform them about the INFINITE technologies and results details.

On the other hand, focusing on the Exploitation plan, the EXPLOITT methodology focused on Exploitation activities will be used as reference and adapted to INFINITE projects´ needs, which offers a comprehensive guidance to all partners from the project's inception to its completion. While regarding to Exploitation, the EXPLOITT methodology encompasses two main phases for a proper exploitation of INFINITE project results:

- Technology Assessment: At the outset of the project, the Technology Identification commences. For that, EXPLOITT facilitates the identification of project exploitable results, characterizes the technologies to be developed, and prioritizes these results based on factors like innovation, exploitability, and potential impact

on the industry. The outcome provides the consortium with a clear overview of the Key Exploitable Results (KER) for the project.

Within Technology Evaluation, it takes place, a more in-depth analysis, and an initial use option and roadmap definition of the identified Exploitable Results is performed. EXPLOITT offers guidance for conducting this analysis and main templates to be used will be based on those provided by the Horizon Results Booster.

- Business Plan: Using the insights gathered in the previous phase, the consortium can select a subset of KERs with higher exploitability and proceed to develop a business plan for them. This plan includes detailed analyses of the target market, potential competitors in the sector, Intellectual Property Rights (IPR) considerations, and major risks associated with these KERs. The Business Plan focuses on analysing all aspects related to creating a new business centred around the selected KERs from phase 2. The analysis results in a comprehensive business model, including a marketing plan and a business risk management strategy. Additionally, the methodology provides a guide to define an action list to achieve the new business goals effectively.

Throughout the project's lifecycle, the EXPLOITT methodology integrates an additional crucial phase:

- Clustering Activities: To promote business competitiveness, the Clustering Activities foster collaboration among multiple project partners, aiming to jointly exploit existing opportunities. These activities focus on supporting precompetitive technologies (and families of technologies) within current and future manufacturing paradigms. By combining cross-sectorial research results that share the same scope, the goal is to amplify impact, add additional value, and facilitate better exploitation for industrial competitiveness.

The methodology's key outcomes are compiled in a roadmap that establishes the connections between these phases and guides the project's overall progress. By following the defined dissemination and Exploitation the INFINITE project aims to achieve a successful dissemination and exploitation strategy for its results, ultimately maximizing their impact and contribution to industrial advancement.

Finally, mention that the detailed description of scheduled plan for the dissemination and exploitation of results presented in this deliverable will be focused on activities to be carried out until the end of the first reporting period (Month 18). Moreover, this deliverable D7.2 will also detail the actions and results achieved because of the implementation of the above-mentioned methodology during this first period.

At the end of the project, deliverable “D7.3 – Final PEDR” will focus on the detailed description of the activities planned for the second reporting period and the description of the results achieved as a result of their implementation.

2. SECTION A: EXPLOITATION PLAN

2.1 METHODOLOGY

EXPLOITT is a methodology for industrial exploitation and take-up developed by IDEKO. It is a structured and guided process, composed by different modules and divided into two main parts (see Figure 1): Technology Assessment and Business Model Draft & Plan.

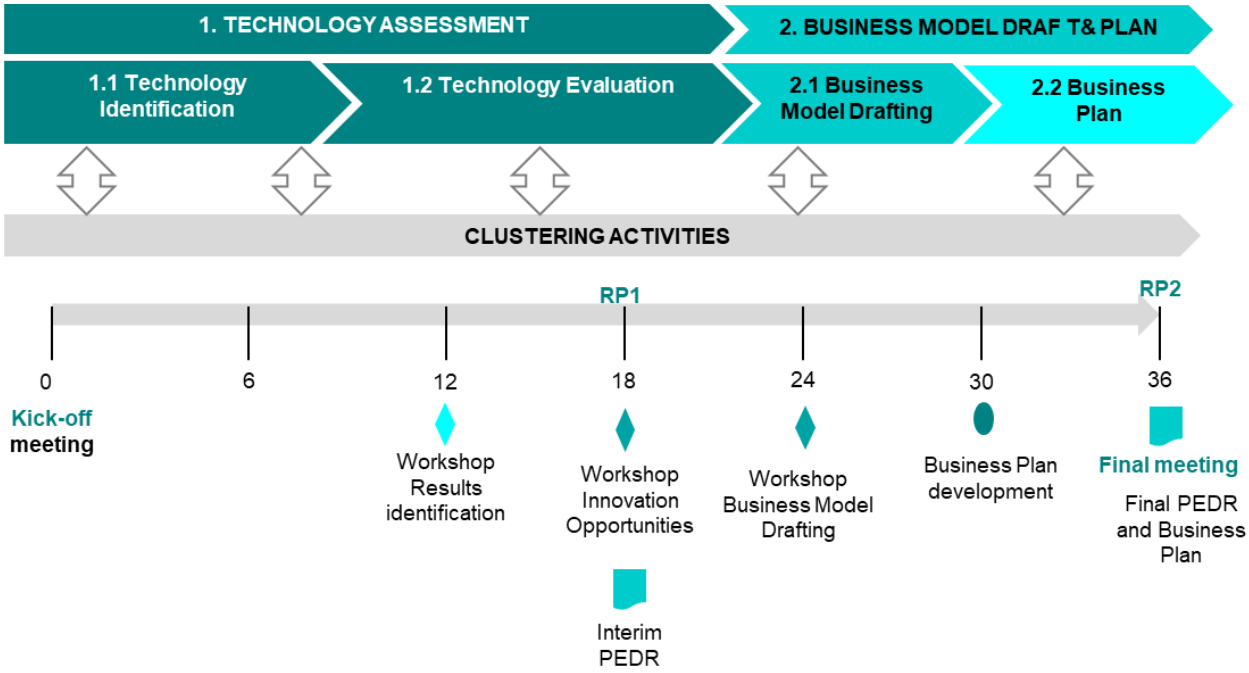

Figure 1 - EXPLOITT methodology for INFINITE

The main objective of EXPLOITT is to drive strategies and actions for an effective industrial exploitation and take-up of the results generated within an R&D EU Project such as INFINITE. Also, the methodology is designed to be integrated with the development and management of European Research Projects (committees, seminars, deliverables, milestones and teams among others). It is carried out by different teams, which are defined depending on the involvement of each participant in the exploitation of each result.

EXPLOITT methodology assumes that all partners are committed to putting a significant effort towards the exploitation of the project's results, aiming at integrating it into industrial tools and at exhausting any new market opportunities. The strategy based on EXPLOITT method will be implemented by the consortium members for the exploitation of the acquired knowledge and technologies to ensure market uptake of results. The PEDR, including detailed and individual parts for each type of the task's result, will be revised as a living document throughout the project. Its aim is the smooth transition from the RTD work to the industrial use of the results derived from the project research.

Regarding the EXPLOITT methodology, the first stage is the Technology Assessment. In this stage, initially the exploitable results of the project and their potential to be commercialized in the market should be identified and a detailed description and characterization of the results is carried out. Then, an initial exploitation roadmap of each result and analysis of the used option are outlined. To conclude with a prioritisation analysis of the results, with the objective of identifying which will be the most promising exploitable results of INFINITE project. The so called Key Exploitable Results (KERs).

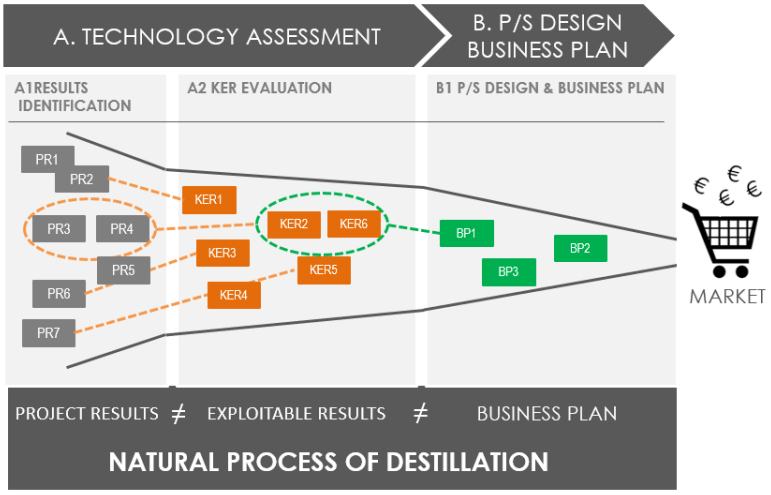

Figure 2 - Natural process of destillation: From Project Results to Business plan

This is an important milestone since next steps of the exploitation plan (Business model draft and plan) will only be focused on these KERs.

Workshops that should be programmed during this first "Technology assessment" stage are:

- Results and Key Exploitable results Identification Workshop (M12)
- Innovation opportunities Workshop (M18)

Then, during the Product/service design and Business plan development stage, initially a more detailed analysis of Technology Evaluation done during the project results characterisation task, should be made (Key Exploitable Results should be analysed in aspects such as market research, competitors, IPR assessment, standardisation, regulations, etc.) with the objective of developing a preliminary business model of the most interesting Key Exploitable Results. The relevant activities include:

- B1 PRODUCT/SERVICE DESIGN
  - B1.1 Description of the Value Proposition
  - B1.2 Description of Competitors landscape & Benchmarking (patent & competitors)
  - B1.3 Market Analysis
  - B1.4 Technology Status

  All this information will be the basis for a proper development of KERs Business plans.

Finally, a Business Plan will be designed, considering next steps:

- B2 BUSINESS PLAN
  - B2.1 Business Model Design
  - B2.2 Stakeholders analysis
  - B2.3 Financial Analysis
  - B2.4 Risk Analysis

Two workshops should be programmed during the execution of this task:

- Product and Services Design Workshop (M24)
- Business Plan Development Workshop (M30)

Thanks to the work performed during and after these workshops, business profitability and potential sales will be estimated, and the best exploitation strategies will be chosen for the exploitable results (creation of spin-offs, licensing of products/services, patenting, etc.).

The EXPLOITT methodology also suggest Clustering Activities to promote business competitiveness by exploiting opportunities jointly. Within this context, creating clusters of EU R&D project activities, according to their objectives and addressed themes, is an effective way to enhance the impact of EU R&D projects. Clustering Activities aim to support new precompetitive technologies (and family of technologies) within actual and future manufacturing paradigms, to combine different and cross-sectorial research results that share the same scope. In turn this facilitates achieving bigger impact, additional added value, better exploitation, and take-up for industrial competitiveness.

The subsequent section provides a comprehensive breakdown of the initial phase of the EXPLOITT methodology. This includes an elaborate account of the planned tasks along with their respective execution methods, as this phase is scheduled for implementation within the project's first reporting period (M0 – M18).

2.1.1 TECHNOLOGY ASSESSMENT

The initial stage of the EXPLOITT methodology is Technology Assessment. Within this stage, four primary tasks are executed: firstly, Results Identification, where exploitable outcomes are identified. Secondly a characterisation of the exploitable results, which is a detailed analysis and evaluation of the outcomes previously identified. Then an initial use option analysis and exploitation roadmap definition of each result. To finally conclude with a prioritisation task to select the Key Exploitable Results of INFINITE project.

2.1.1.1 TECHNOLOGY IDENTIFICATION

Although exploitable results identification can be carried out at any phase of a research project, it is preferable to do it as early as possible (hopefully during the project's first year of activity). The process of identifying exploitable results is performed in a workshop attended by all project partners in M12. The starting point for this workshop will be the initial analysis of project results done during the proposal preparation stage.
During the workshop, initially, the Exploitation Manager will send to the project consortium a brief overview of common concepts about exploitation:

- "To exploit" means "make use of and derive benefit"
- Project results ≠ KER ≠ Business Plan
- From which project results can we get benefits?
- Type of Results
- Not every Result can be transformed into a KER
- Not every KER can be transformed into a Business Plan
- ….

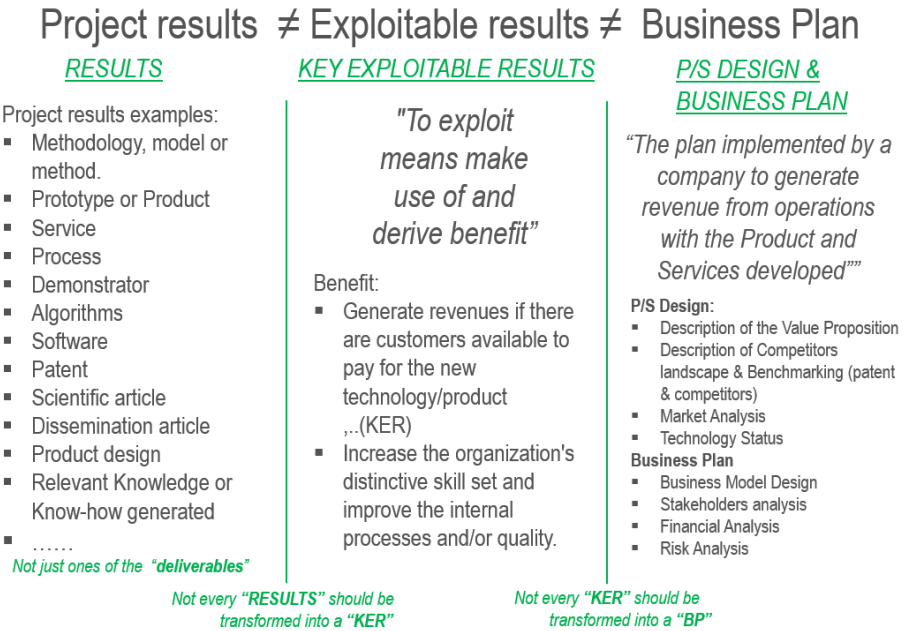

Figure 3: Differences from project results, project KERs, and business plan

During the workshop (M12) there will be some tasks which project partners must perform individually, while other ones will be performed in a group. The workshop will be led by the Exploitation Manager (WP7 leader) who will guide the partners to a common understanding of Exploitation Terms and Facts. The experience and capacity of the Exploitation Manager will help encouraging the attendants, building consensus, and solving critical points. The Exploitation Manager will facilitate and guide the project partners along the process.

For INFINITE project exploitable results identification, a template based on tools provided by the Horizon Results Booster of the European commission will be used where each partner describes the project results expected from each INFINITE work package. The information to be added in these templates is the following:

- Result Nº
- Title
- WP in which the project result is developed.
- List of deliverables where and when details can be identified.
- Lead Partner

- Nature of the result
- Level of achievement nowadays
- Expected completion date
- Partners interested in exploitation
- Partners with Background for this result
- Partners with Foreground for this result
- Description of the result
- Brief description for a wider community
- Natures of the exploitation
- Form of the exploitation
- Confidentiality level
- Dependency analysis between the exploitable results

IPR should be also evaluated from the very beginning of results identification in order to identify any conflict and establish all required actions to reach a consensus and agreement among consortium partners. That´s why during this initial project results description, a first analysis of partners with background or foreground for the result is done.

After that, all partners discuss the exploitability of the results, and, at the end of the workshop, a draft list of potential project results is identified. In the last part of the workshop, partners openly discuss, explain, and share their considerations and thoughts. It is very important an active participation of all partners.

Once obtained the initial project exploitable results list. It is analysed and some results can be eliminated, other merged and new one introduced to increase its market potential impact.

2.1.1.2 CHARACTERIZATION METHODOLOGY OF EXPLOITABLE RESULTS

The characterization of exploitable results is the second task within the Technology Assessment phase of the EXPLOITT methodology. It started usually at M12. In this phase a deep analysis of Exploitable Results identified in the previous phase is made. For that, next tasks are performed:

- Characterization table
- IPR and Exploitation claims
- Use Option
- Roadmap

2.1.1.2.1- CHARACTERIZATION TABLE

For each Exploitable Result, a detailed characterization table (Table 4) will be completed. The identified results will be characterized from a market-oriented viewpoint, considering aspects such as:

- Customer detection (focus on factors that affect purchasing decisions).
- Features of the target market (size, growth rate, share that the technology/product could reach, driving factors likely to change the market, legal, technical and commercial barriers, other technologies likely to emerge in the near future, etc.).
- Positioning (how the company entitled to the technology exploitation is positioned or should be positioned in the market).

The table is prepared to make easier the characterization of the results and describes the main characteristics of each exploitable result identified. An Example of the tool used is showed.

Table 1 – Characterization of Exploitable Results

ER Nº	Title
XX	*xx*
Lead Partner	All partners involved
XX	*XX, YY, ZZ*

*You have below some explanations and questions that can help you filling the characterization table.

Brief Description	Briefly describe main characteristics and functionalities of this exploitable result. - What core value does it deliver to the customer? - What customer needs is it satisfying?

Innovativeness introduced compared to already existing Products/Services	Describe innovativeness compared to internal and market state of the art. - What specific need (unsatisfied until now) does this result satisfy? - What customers' expectations does this result satisfy?
Unique Selling Proposition (competitive advantages)	Describe how your solution differs from competitors'. - What is your competitive advantage? - What's different about your solution?
Product/Service Market Size	Describe the qualitative and quantitative dimension of the market you are going to. - What is your target customer? - Make an estimation of the number of target customers. - Determine your penetration rate. - What is the volume and value of the market taking into account the target customer?
Market Trends/Public Acceptance	Try defining market trends and the public acceptance. - What are market trends related to technologies, sector, sales, etc. associated to his KER? - Is there any ethical issue that can affect to the acceptance of this solution?
Product/Service Positioning	Describe how you will present the solution to different target audiences. - What is the best way to communicate products' attributes to target customers? - What are customers' needs? - What available communication channels do you have? - What is the crafted key message you want to transmit?
Legal or normative or ethical requirements (need for authorisations, compliance to standards, norms, etc.)	Report about legal/normative/ethical requirements that could affect positively or negatively the exploitation of the product/service. Take always into account the market you identified above, info provided should be consistent.
Competitors	Identify most important competitors and describe the current available solutions from these competitors. - Who is offering a solution for this problem? - What are the current available solutions for identified customers' need? - Is there any company that isn´t currently within the same market but because of its brand image, available resources (people & money & infrastructures), "power" could rapidly enter in your market and become a competitor?
Prospects/Customers	Identify and describe who your target customers are. - Have you got any customer that can buy your solution? - Is there any potential customer (prospect) that could buy your solution?
Cost of Implementation (before Exploitation)	Describe the cost of implementation of the solution you are developing. - What are the costs contemplated before the exploitation?
Time to market	What is the estimated time to market?
Foreseen Product/Service Price	Based on product costs and your strategy to market, try thinking your pricing strategy. Higher price: more economic strategy; you are going somehow to select your customers but those will be more loyal in the future. Any case a higher price should be justified with additional features. Lower price: more financial strategy; reach a bigger market share in less time. In any case, when thinking to final price, take into account potential transition costs.
Adequateness of Consortium Staff	Are the right skills and the needed human resources already in place? If not, what/who is missing?
External Experts/Partners to be involved	If the consortium staff is not adequate, what external experts or partners will be involved?
Exploitation: Partner/s involved expectations	Describe partners' exploitation expectations. - Can partners' expectations affect partnership management? - Can this situation bring to the generation of Sideground and/or Postground?
Exploitation: Sources of financing foreseen after the end of the project (venture capital, loans, other grants, etc.)	Describe sources of financing foreseen after the end of the project. - What financing source is contemplated for the future exploitation of the KER: venture capital, loans, other European, national, regional grants, own financing, collaborative agreements, etc.?

Others: Expected date of achievement of the result in the project	What is the expected date (month) of the achievement of the result?

2.1.1.2.2- IPR AND EXPLOITATIONS CLAIMS

Once project implementation has started, efficient knowledge management including the management of the IP should be developed for the project. Therefore, it should carefully define how newly generated knowledge and related IP will be managed in the project. The following image shows steps to follow during the project lifetime concerning IP.

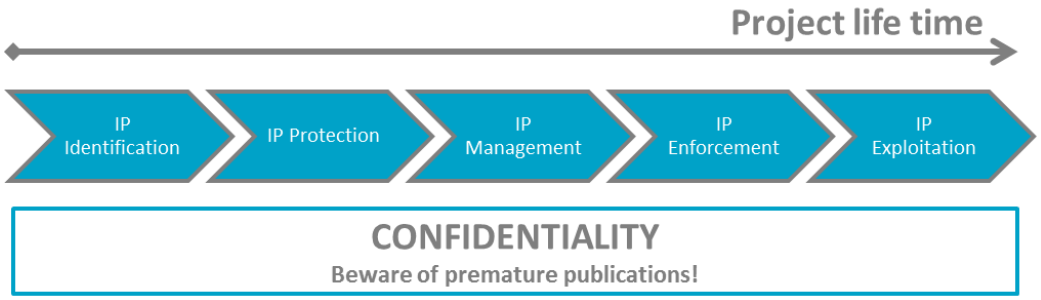

Figure 4 - Intellectual Property during project lifetime

For this process, next tables will be used for each exploitable result, determining each partner's exploitation claims related to Background and Foreground. Rating them in importance for the achievement of the result and effort provided to reach the result. (Table 2 - IPR and Exploitation claims related to Backgroundand Table 3 - IPR and Exploitation claims related to Foreground).

Table 2 - IPR and Exploitation claims related to Background

#	Type of Knowledge (Expertise, software, patent, product, process,...) and details	Organisation's acronym	Description (text)	Estimation of Importance of this knowledge for the result (in %)	Consensus reached (Y/N) [Partners agree with you on the shares of BK]	Actions requested from your perspective to reach the consensus if not reached

Table 3 - IPR and Exploitation claims related to Foreground

#	Type of Knowledge (Expertise, software, patent, product, process,...) and details	Organisation's acronym	Description (text)	Estimation of Importance of this knowledge for the result (in %)	Estimation of the effort provided to reach the result (in %)	Consensus reached (Y/N) [Partners agree with you on the shares of FK]	Actions requested from your perspective to reach the consensus if not reached

2.1.1.3 TECHNOLOGY EVALUATION

2.1.1.3.1- USE OPTION

This section intends to identify the selected exploitation route for each Exploitable result, determine if it will have a direct or indirect use and evaluate the implementing actors.

Table 4 - Template for Use option definition

Selected route		Implementing actor	Yes
DIRECT USE	Commercialisation: deployment of a novel product/service (offered to the target markets)	One partner	
		A group of partners	
	Contract research (new contracts signed by the research group with external clients)	A partner	
		A group of partners	
	A new research project (application to public funded research programmes)	A partner	
		A group of partners	
	Implementation of a new university – course (Note that a training course is a service)	A partner	
		A group of partners	
		A new partnership	
INDIRECT USE	Assignment of the IPR	A partner	
		A group of partners	
	Licensing of the IPR	A partner	
		A group of partners	
	Development of a new legislation/standard	A partner	
		A group of partners	
	Spin- off	A partner	
		A group of partners	
		By assignment	
		By licensing	
	Other (please describe)		

2.1.1.3.1- INITIAL EXPLOITATION ROADMAP

A research exploitation roadmap is a strategic blueprint delineating the essential steps and actions required to translate the results of research activities into tangible applications and commercial opportunities. Following it is presented the template that INFINITE project has followed, based on those provided by the Horizon Results Booster.

Table 5 – Template for Exploitation roadmap

ROADMAP		DESCRIPTION:
Actions	Briefly describe actions planned to be executed 3-6 months after the end of the project. Make sure you do not just focus on technical activities (realisation of a prototype, software interface, etc) but also consider the finalisation of a business plan, the protection of intellectual property, the collection of authorisations, all it will be needed to start implement what is in your exploitation plan	
Roles	Roles of partners involved in the actions defined above.	
Milestones	List the milestones and KPIs to be used for monitoring the implementation of the actions listed above. Add timeline.	
Financials Costs	Cost estimation to implement planned activities (1 year, 3 years). Provide information on the costs/investments needed to bridge the end of the project to the next steps planned and increase TRL or go to market (you may invest in a patent, in the realisation of a prototype, etc.).	

Revenues	Projected revenues and eventual profits once the KER will be used (1 and 3 years after use) Consider revenues you will expect to collect by licensing, or thanks to service provision or sale of devices. They generate the cash flow that will make the use of the result sustainable over time (provide an estimation concerning the first year and what is expected after 3 years, if possible). It is recommended that you estimate the revenues according to your early adopters and potential customers and include the information in the draft exploitation plan.	
Other sources of coverage	Resources needed to bridge the investment needed to increase TRL and ensure the result is used. Financial resources to cover costs incurred before collecting the first revenues (during the "time to market" – see costs) and their sources. Sources can be partners` own budget, other project grants, national/regional incentives, risk capital, loans, etc. Make sure to obtain them at the right timing.	
Impact in 3-year time	Describe impact in terms of growth/benefits for the society Impact is the objective of H2020. Impact should mobilise measurable changes in terms of growth/benefits for the society (i.e. jobs created, investments mobilized, turnover generated).	

2.1.1.3.2- PRIORITISATION OF EXPLOITABLE RESULTS

In this step, finally a prioritization process is carried out assessing each exploitable result according to their Exploitability level, Innovativeness, and Impact in Industry. Three Criteria that will have different weight when calculating the total rate of exploitable results.

Table 6 – Template for Exploitable Results prioritisation

		Criteria and Weights			
		xx	yy	zz	
N°	**Description of exploitable Results**	**Innovation (A)**	**Exploitability (B)**	**Impact in industry (C)**	**Total**
1					
2					
3					

This activity will lead to select the most promising Key Exploitable Results. So, the INFINITE project will focus on those KERs for the development of their business model.

2.2 EXECUTION OF EXPLOITATION ACTIVITIES M0-M18

This section presents the outcomes of the activities conducted in the initial reporting period (M0 – M18) of the INFINITE project, aligned with the first part of the EXPLOITT methodology, which is the "Technology Assessment." This methodology is instrumental in achieving the successful exploitation of the Key Exploitable Results (KER) within the project.

During this phase, we have identified the potentially exploitable results of the project. We provide detailed insights into the technologies employed and developed in each project outcome. Then they are thoroughly assessed, ranked according to specific criteria, and assigned corresponding weights. The outcomes selected for exploitation are referred to as the project's Key Exploitable Results (KER).

2.2.1 TECHNOLOGY ASSESSMENT

RESULTS IDENTIFICATION

The following section outlines the exploitable results within the INFINITE project. These results have been identified through an analysis that encompasses the initial project proposal, examination of outcomes from the project's early research and development phases, and the discovery of new opportunities by our consortium partners.

Table 7 – Exploitable Results of INFINITE project

N°	Description of exploitable Results
1	Compact and portable reader system
2	Sensorised NCF (and other Dry Reinforcements)
3	Automated wireless monitoring lay-up system
4	Automated monitored preforming process
5	Tuneable Microwires design and manufacturing
6	Digital twin - Temperature & stress signal modelling and calibration methods in CF composites
7	Safety and Health Monitored composites components
8	Improved repair capability for complex parts
9	LCA: Sustainability for sensorised composites
11	New testing services for microwire sensed materials
12	Modified free-space system for evaluation of carbon fibre NCF reinforcement composites with microwires inclusions
13	Modelling and correlation between mechanical testing and electromagnetic parameters in sensorized composites
15	Sensorized Miro Wire preform manufacture using Tailored Fibre Placement (TFP) & infusion techniques
16	Automated monitored liquid molding process

Note: The organization responsible for leading the exploitation of each of these results has been omitted due to confidentiality concerns.

RESULTS DESCRIPTION, CHARACTERISATION, BACKGROUND, FOREGROUND, RISKS AND ROADMAP

The next step involves a comprehensive description, characterization, Background, Foreground, Risks and Roadmap of each exploitable result.

To carry out these exercises templates and good practices recommended by the Horizon Results Booster Services have been followed. This has been possible due to IDEKO has led in several European Projects the activities related to the exploitation of the projects results and has collaborated closely with this European agency.

In Annex I, the above-mentioned exploitation tools are completed for these results.

Note: The organization responsible for leading the exploitation of each of these results has omitted these tables from this public deliverable, due to confidentiality concerns.

RESULTS PRIORITISATION

The final step within the "Technology Assessment" phase involves the prioritization of these results. This task is crucial in determining the Key Exploitable Results (KERs) of the INFINITE project, as the subsequent phases of the EXPLOITT methodology will exclusively concentrate on developing the Business design and Business plan for these KERs at the INFINITE project level.
It is worth noting that each organization retains the autonomy to develop the business plan for their respective results. However, such plans will not undergo project review and monitoring if an agreement is reached about IPR among the involved parties for each exploitable result.

Following table presents the Key Exploitable Results of INFINITE project:

Table 8 - List of Key Exploitable Results of INFINITE project

N°	Description of exploitable Results	Innovation (A)	Exploitability (B)	Impact in industry (C)	Total
1	Compact and portable reader system	9	9	9	9

2	Sensorised NCF (and other Dry Reinforcements)	9	9	9	9
7	Safety and Health Monitored composites components	6	9	9	8,1
3	Automated wireless monitoring lay-up system	9	7	7	7,6
4	Automated monitored preforming process	9	6	7	7,3

Note: The organization responsible for leading the exploitation of each of these results has been omitted due to confidentiality concerns.

2.3 M18-M36 ACTION PLAN

The second reporting period will be characterised by next steps:

- Review and completion of Description, Characterization, Use option, BK, FK, Risks table and Roadmap of each Exploitable result for M24.
- Business Design of Key Exploitable Results for M30. This section includes next tasks:
  - Description of Competitors landscape & Benchmarking
  - Stakeholder analysis
  - Description of the Value Proposition
  - Market analysis and Marketing plan
  - SWOT analysis
- Business plan design for M36. This section includes next tasks:
  - Financial analysis
  - Business model design
  - Technology status
  - Final update of Risks analysis
  - Final update of take-up implementation roadmap

The details of the methodology of how each task will be performed will be described in D7.3.

3. SECTION B: COMMUNICATION AND DISSEMINATION STRATEGY

3.1 INTRODUCTION

The Communication and Dissemination plan outlines a strategic approach for executing project activities to effectively communicate INFINITE project´s inherent value and ensure the widespread dissemination of project outcomes to key stakeholders. This involves engaging stakeholders in shaping project findings and facilitating the exploitation of these outcomes. The plan delineates strategies for both internal and external communication, offering a comprehensive overview of how various channels, activities, and tools synergize to address and involve relevant stakeholder groups (see Figure 5 - Target audiences). To achieve these objectives, Communication efforts are active from the start of the project, while dissemination activities are initiated based on project's outputs.

This deliverable covers the whole duration of the project, the activities to inform about INFINITE project development and results and increase the impact are performed. This document summarizes the activities and the action plan for an efficient dissemination and communication of project results.

The communication and dissemination team will be responsible of the fulfilment of the objectives defined in this document, working on the following tasks:

- Setting up the project's website and keeping it regularly updated.
- Creating the project's blog and social media channels, and constantly sharing content through them.
- Generating informative videos.
- Generating other materials (posters, brochures, flyers, merchandise...).
- Managing public / media relations, including press releases, dossiers, interviews, and so on.
- Coordinating scientific dissemination activities (participation in conferences, journal publications, workshops, …).

The present document is the first release of this deliverable and includes 5 sections:

1. Introduction
2. Strategy
3. Activities & Impact: M1-M18
4. Action Plan: M18-M36
5. Conclusions and next steps

The first and second sections aim to set the foundations of the communication and dissemination strategy that will be developed through the project and to detail its most relevant elements: the goals and audiences, the main messages and the channels that will be used to disseminate them. Section 3 reviews the activities and the impact related to dissemination activities in the first 18 months of the project. Section 4 determines the dissemination action plan for the rest of the project, focusing in the short and mid-term activities to be executed in the next period of the project. Finally, conclusions and next steps for communication and dissemination activities are summarized.

Table 9 - Communication and dissemination plan

Actions and tasks	M1 M3	M4 M6	M7 M9	M10 M12	M13 M15	M16 M18	M19 M21	M22 M24	M25 M27	M28 M30	M31 M33	M34 M36
D 7.2 - Preliminary release												
D 8.2 - Final release												
Yearly Action Plan												
Interim/periodic report												
Website												
Social Media Accounts												
Press release												
Blog Posts												
Webinars, workshops												
Fairs, Conferences												
Videos												
Scientific publications												

3.2 STRATEGY

The initial steps of the communication and dissemination strategy plan are defined in the deliverable 7.1. A deliverable focused on the Communication plan. In the beginning, the focus will be on raising awareness about the project and establishing conversations with all the relevant public. As tangible results begin to emerge, the focus will naturally shift towards them, but outcomes will be presented differently for each public.

A continuous traceability of the project will be achieved.

The general objective is to Communicate and Disseminate effectively not confidential knowledge, project goals and outcomes to different audience groups.

The purpose of this plan is let the audience know that our project exists, what are the project objectives, how the project outcomes are relevant to industrial companies, scientific community or to general public, and how European collaboration achieves more than would have otherwise been possible.

3.2.1 PROJECT DISSEMINATION MAIN PHASES

The dissemination activities are structured in three main phases.

Initial Phase | M1-M12

Initial Awareness building and audience attracting phase. A special effort is made to become a leading figure in Aeronautical sector. Channels such as the website and social media accounts are the key tools to start building a network and reaching the first stakeholders. Also, most of the communication resources as project presentation, brochure, poster and graphics has been created.

Intermediate Phase | M13-M24

Rise the interest and desire of the target audience to know more about the project. Publications and scientific papers on journals are some actions. Presentations in events, dissemination actions about project results will continue leveraging the potentials of social media, website, and newsletters. Partnering with other projects is another important pursue during this phase.

Mature/Final Phase | M25-M36

Action for the interested audiences to get involved. This phase will focus on maximizing target market and industry awareness regarding the INFINITE platform and its exploitable products. Since it is the final phase of the project, all the results will be disseminated through the prementioned channels and through the EFFRA Innovation Portal and the Horizon Results Platform of the European Commission. Communication and dissemination efforts will be centered towards supporting the project sustainability and its effective exploitation as well as preparing for its market replication. Divulgating information about the project's innovative research and results, and promoting project key messages to the stakeholder groups, influencers in the European aeronautics industry and other key players in the sector in Europe as well as to the wider community of non-professional public.

3.2.2 TARGET AUDIENCES

The Communication and Dissemination plan sets out specific target stakeholders and groups covering the full range of potential users in manufacturing value chains, industrial and ICT/horizon Europe R&D communities, general public as well as the project's partners. Each communication activity will be tailored to the specific group.

Three target audience groups have been identified in addition to project's own community.

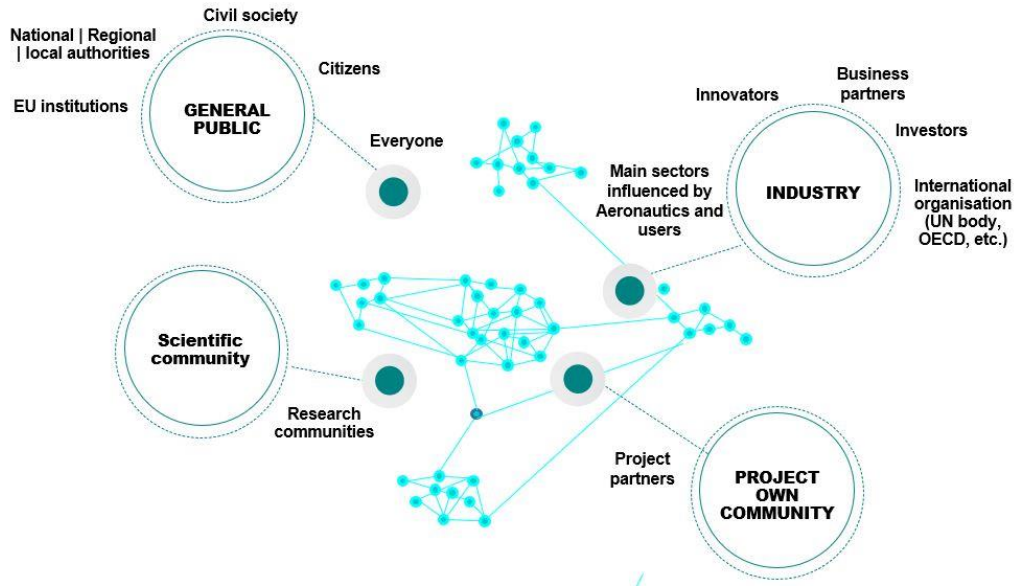

Figure 5 - Target audiences

Industry: SME | Large enterprises

Project consortium will seek to involve SMEs and large enterprises in a two-way communication, since SMEs can also provide inputs with benchmarking to measure the difference made by composites in their manufacturing systems. The objective is to increase confidence of SMEs in smart composites as they can assess the performance and effectiveness of the INFINITE systems at other users' businesses.

The consortium will prepare different communication messages to raise the awareness of SMEs about the applications of the project results, some short videos that will highlight the industrial applications of the technology developed in INFINITE. Newsletters for SME explaining the case studies, the innovations, cost-effectiveness and benefits for European SMEs and publications in local magazines will be carry out.

Project results will be communicated periodically in a less scientific language, focusing on key project innovations and specific benefits for INFINITE outcomes users.

The outputs of the project will also be introduced to international industry conferences and Fairs as speaking engagements or booth exhibits.

As the project consortium is composed of a multidisciplinary group, the new developments and future prospects of INFINITE will be shown at different industry sector environments, through the individual contribution of each partner.

Finally, as the partners of the project belong to several industry associations or umbrella organizations, they will be able to use them to communicate the project results via their newsletters, magazines and presence in international conferences not covered by the consortium partners.

Scientific Community

Although dissemination is focused on fostering the transfer of knowledge created within the project to make results available for the scientific community, industrial partners and policymakers, communication activity will be made during the lifetime of the project to this community too. This plan foresees a close and interwoven relation between communication and dissemination activities.

The focus will be on communities of balanced industrial and academic interests. The aim is to keep these communities updated on the development of the project, but also to generate spaces and conversations that enable the incorporation of their knowledge, experiences, and vision regarding the project's fields of interest.

Clustering activities

In addition, INFINITE will also be active through clustering activities. For that INFINITE project coordinator will contact other approved European projects under the same topic "HORIZON-CL5-2021-D05-01-05: Next generation digital aircraft transformation in design, manufacturing, integration and maintenance".

General public

Society is one of the stakeholders that will be taken into account.

Communication activities towards the public will seek to shift the perception of the public towards industrial composite systems for the sustainability and environmentally friendly aircrafts. It is important to support the view that aircraft composite parts innovation is a more sustainable for the environmental and the use of this sensorized material continue being safe for aircraft users. Also, safety concept is very important to visualize because it will impact not only on flight efficiency but also on security.

The advantages and potential applications of INFINITE project´s smart materials will be presented in a friendly way for non-expert users. Project objectives and results will be periodically communicated in a simple manner through press releases, highlighting the impact achieved and the potential results.

The nature of the project is very technical, so the communication with the public will be a big challenge. To engage with this broad audience, an approach based on storytelling and audio-visual media will be used.

Finally, a hands-on workshop or visits to facilities will be arranged for students, since it is important that they get familiar with systems and to make more attractive work and research in these industrial sectors. They will be able to discover different technologies, getting a deeper understanding of their capabilities.

Project's own community

The project's own community should be seen as another public. Internal communication needs to be concise, clear, and fast. A special effort will be made to help project partners understand their contribution in the general context of the INFINITE initiative, so they will achieve and convey a better, holistic view of the project.

Microsoft Teams will be the main tool for internal project communication and coordination which, of course, will be complemented with other tools (e-mails, working papers, project meetings, etc.). The structure and rules when working with this platform are described in deliverable D8.1 Project Handbook and quality plan.

Figure 6. - Microsoft Teams logo

The tone and language used with each public must also be differentiated depending on the characteristics of each audience and what is expected from the interaction with them.

The composition of this specialized and international consortium lead to exceptional opportunities regarding its communication objectives. The Consortium is consisting of 7 companies and 5 RTD entities from seven different European countries.

3.2.3 BRANDING

Every entity, whether it's an organization or a product, requires a robust and distinctive identity commonly known as a 'brand.' A brand extends beyond its visual aspects, embodying a commitment, a vision, a purpose, and a core set of values. A European project as INFINITE, crafting an easily identifiable and cohesive identity across all its communications and initiatives is essential.

General visual identity rules have been defined to assure a unique identity of the project. Also, some templates, Microsoft Word template for text documents and Microsoft PowerPoint for presentations have been created, with guidelines and recommendations with the use of the brand identity (see D7.1 Brand identity manual).

Naming. The name of INFINITE refers to a conceptual representation of one of the main messages of the project, the new developed composites are sensorized throughout their useful life, it does not die, after finishes its lifetime, it is recycled and is useful again, that is, to infinity. The infinity signifies the concept of **limitlessness or eternity.**

Logo. INFINITE's logo is composed of two elements: the icon the graphical element that represents the infinite and the wordmark the text part of the logo design that displays the project name. Different versions of the logo have been created, vertical, horizontal, positive, and negative.

Figure. 7 - One of the official logos of INFINITE project

3.2.4 CONTENTS AND CHANNELS

The main contents that will be communicated and disseminated during the project are the following:
- Value proposition and main benefits of INFINITE results.
- News related to the areas of interest defined within project.
- Data, photos and videos about demonstrations, processes, and technologies.
- Public documents of the project.
- Information about project progress, milestones reached and relevant results.
- Meetings and project events.

Even if the original content of the project will be unique, the communication and dissemination strategy will be adapted to these different audiences. One-way and two-way communication channels will be used, as shown in the following table.

Table 10 - Communication channels types and foreseen activities

Actions and tasks	General public	Companies	Scientific community
One-way communication and dissemination channels			
Website	Yes	Yes	Yes
Blog	Yes	Yes	Yes
Social media	Yes	Yes	Yes
Informative Videos	Yes	Yes	Yes
Mass Media	Yes	Yes	Yes
Communication materials		Yes	Yes
Journal publications		Yes	Yes
Two-way communication and dissemination channels			
Fairs and events		Yes	Yes
Workshops		Yes	Yes
Conferences		Yes	Yes
Webinars		Yes	Yes

Regarding the one-way communication channels, there are three types of contents: extended, brief or audio-visuals. Each type of content will be published and amplified differently to maximize impact. All the information about one-way communication and dissemination channels is detailed in the deliverable D7.1. Communication plan.

Engaging with the project firsthand will be the primary strategy of two-way communication and dissemination channels, particularly when it comes to interacting with key stakeholders and the manufacturing community. This approach entails active participation in workshops, organizing events, and attending fairs and similar gatherings to facilitate a two-way flow of communication between the project consortium and the community.

The objectives of these activities encompass:

- Sharing the project's goals and the results achieved with diverse stakeholders.

- Exploring potential business models for further utilizing the project's outcomes.
- Defining potential support measures to expand the utilization of project results.

Planning specific targets for dissemination activities can be challenging for long duration projects. To address this, we maintain a dynamic document that allows partners to periodically update their dissemination plans, with a primary focus on scientific dissemination (conferences and journals) and industrial outreach (fairs and similar events). This document serves as the basis for determining future dissemination actions and informs the detailed action plan.

Trade Fairs:
Consortium partners will actively participate in trade fairs relevant to the composite manufacturing and aerospace sectors. This involvement will feature project presence at the booths of our consortium partners, along with specific mentions and presentations. We will measure our impact based on metrics like the number of events attended, the number of participants, and our influence within the targeted communities. To ensure efficient coordination, we will create and share a calendar among all partners for their fair participation. Additionally, a MarCom kit, comprising items such as a roll-up banner, presentation, conceptual video, and standard project materials, will be developed during the project's initial months to facilitate INFINITE presence at these events.

Conferences:
Conferences will serve as a strategic platform to engage with the scientific community and disseminate the knowledge we've acquired. Highlighting the project at these events to attract potential investors is a vital initiative to maximize its impact. Participation in conferences will include references to INFINITE in consortium partner keynotes and specific project presentations. To enhance our impact, we will explore joint initiatives, including special sessions related to INFINITE research activities and collaborations with other EU-funded projects, as detailed in "Clustering and international cooperation."

Workshops:
Given our preference for hands-on experiences with relevant groups, we will prioritize organizing workshops and showcasing demonstrators at events.

Webinars:
Webinars offer a contemporary approach to dissemination, enabling interaction with the community, even in conditions of limited mobility. These sessions will provide opportunities for attendees to engage with speakers through text chat (for live Q&A sessions), polls, and surveys. Webinars will be held periodically throughout the project's duration.

Mass Media:
While our communication strategy heavily relies on online media, we recognize the significance of mass media, including press, TV, and radio. As the project progresses, we will leverage all available means to engage with and gain access to the media, including press releases, dossiers, visits, and interviews. Crafting attention-grabbing messages will be a key element in this endeavour, and we will actively seek free media exposure whenever possible.

The communication team will also design and produce additional dissemination materials based on partner demands and the consortium's project-related activities.

3.2.5 MONITORING

The primary aim of monitoring and evaluation is to guarantee the effective execution of our communication and dissemination strategy, maintaining a high standard of quality. An excel file INFINITE-Dissemination activity and monitoring is constantly being updated in the Teams group by all partners.

The project will implement dedicated monitoring efforts that centre on communication and dissemination activities, ensuring a continuous process to achieve the following objectives:

- Conducting an impactful assessment to facilitate updates or adjustments to our communication and dissemination activities.
- Ensuring the excellence and effectiveness of the communication and dissemination endeavours undertaken.

At the conclusion of each Action Plan, the team will conduct an evaluation. Using the insights derived from this assessment, we will craft the subsequent Action Plan for the next period.

3.3 ACTIVITIES AND IMPACT: YEAR 1

To begin, this report provides a comprehensive overview of the primary communication and dissemination activities executed during the project's inaugural year. Following this, a table is presented, summarizing the key performance indicators (KPIs) associated with these activities, enhancing our ability to monitor and assess the effectiveness of our communication and dissemination efforts. KPIs include web statistics, social media analytics as well as event-related measurement. The results of the evaluations will guide further communication activities.

3.3.1. Dissemination impact indicators measured during project completion.

Table 11 - Communication & Dissemination KPIs

Communication and dissemination activity	Done (M18)	Target	
Communication activities			
Web page updates		7	≥15
Website visits		191	500
Linkedin updates		24	≥42
Linkedin followers		89	200
Twitter followers		17	200
Youtube's views		254	1000
Press releases/Newsletters		2	≥4
Press appearances		20	
Project videos		6	≥3
Dissemination activities			
Scientific publications	25	≥20	
Participation of European conferences		≥3	
Participation in Industrial conferences		≥3	
Participation of scientific conferences	20	≥3	
Organisation of Workshops	0	≥3	
Workshops at the demonstrators sites'	0	≥5	
Participation on relevant events, Trade Fairs	2		

3.3.2. Communication materials.

For communication purposes different channels and material have been created and made available to partners. These channels help INFINITE community in spreading knowledge about the project and the results.
Following the segmentation to target audience groups INFINITE project will adopt the multichannel approach to each target audience group.

Project communication documents

A **short power point presentation** has been designed at the beginning of the project. It was a 10-slide presentation were covered INFINITE's objectives, concept and information about the impacts.

A brochure that gives an overall introduction into the project, its goals and expected results. Information about the consortium and the funding. The brochure has been designed in A4 size, zig zag type

INFINITE **scientific poster** both paper and digital format has been also designed for its use in congresses, fairs and conferences where project partners need to disseminate the project. The poster has been designed both paper 800mmx2000mm and digital version 1920x1080mm in size and in full colour.

The first press release about the project with general information about the project, the project objectives, project outcomes, funding related and information about the partners has been sent to local media and industrial magazines. All these contents are widely explained and can be seen in the D7.1 Communication plan.

Audiovisual content. An initial conceptual video has been produced and uploaded to the YouTube channel. In order to show an overall view of the project, its objectives and what would be the results of this research. It is explained, as well that this project has been funded by the European Commission.

In order to know more about project partners, which is their role in the project and what are their objectives in the project, short video interviews have been produced. During the first 18th months 4 short videos have been uploaded to the YouTube channel: IDEKO, Teijin, AMRC and CAE.

Two newsletters are created with updates of the project's achievements and project's activities, interviews to partners, information about the meetings, upcoming events. All generated newsletters can be found in the activity and media/Newsletters section of the website.

Website and social media channels

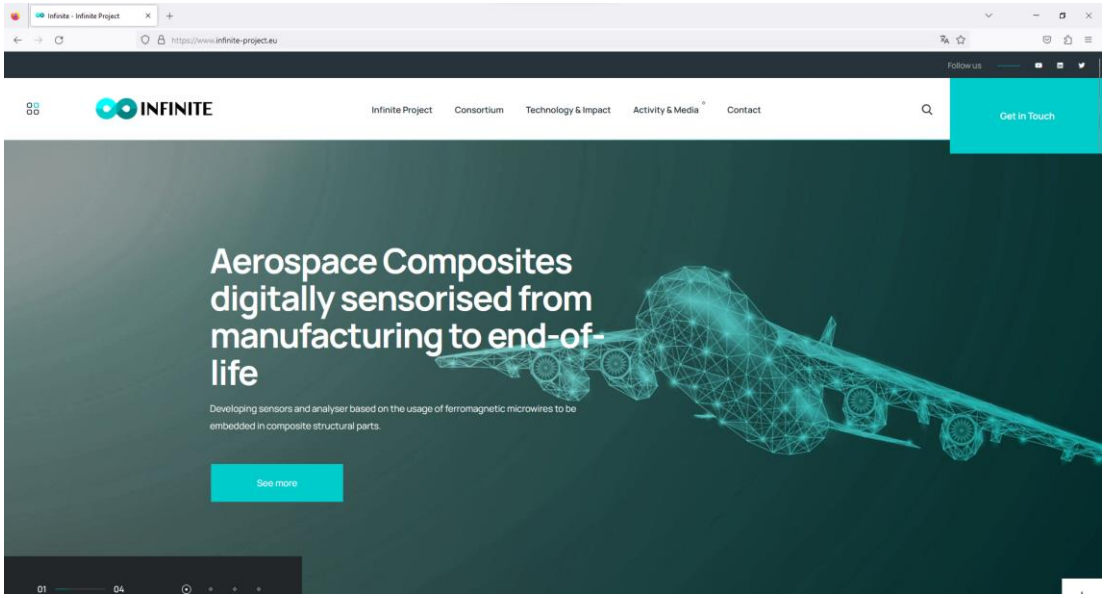

Figure 8 - INFINITE project website

As described in D7.1 deliverable a website was developed and published in the first months of the project. The website provides general information about the project, objectives, technology and impact of the project, partners, sister projects and project events and outcomes.

In the same way, social media channels were set-up at the very beginning of the project and are periodically sharing highlights of INFINITE and interacting with partners, project community and other sister projects.

News section of the website represents a blog where relevant news and publications about the activity concerning the project is published periodically.

Website monitoring was activated in July 2023.Traffic in the period 12.07.2023 to 26.10.2023 has been 191 visits.

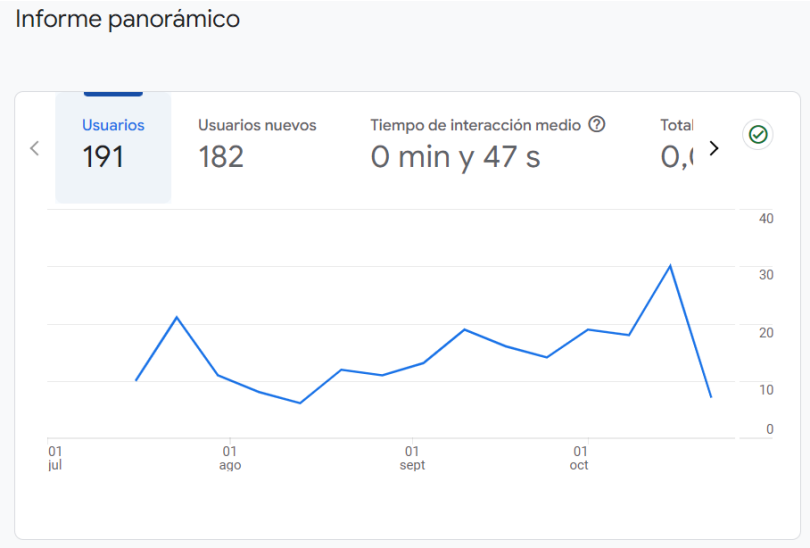

Figure 9 - visits to INFINITE website

Publications in the blog in these 18th months period have been the following ones:

Table 12 - Publications in the blog

Post content	publication date	Company
Project launching new	28/09/2022	All
General meeting 3M	29/09/2022	All
General meeting 8M	27/01/2023	All
Publication of 1 Newsletter	13/03/2023	IDEKO
Participation at JEC World 23	31/05/2023	IDEKO, Titania, Teijin, Aeroform
Presence at MATCOMP23	12/06/2023	IDEKO, UPV
Partner video: Teijin	7/11/2023	Teijin
Partner video: AMRC	7/11/2023	AMRC
Partner video: CAE	10/11/2023	CAE

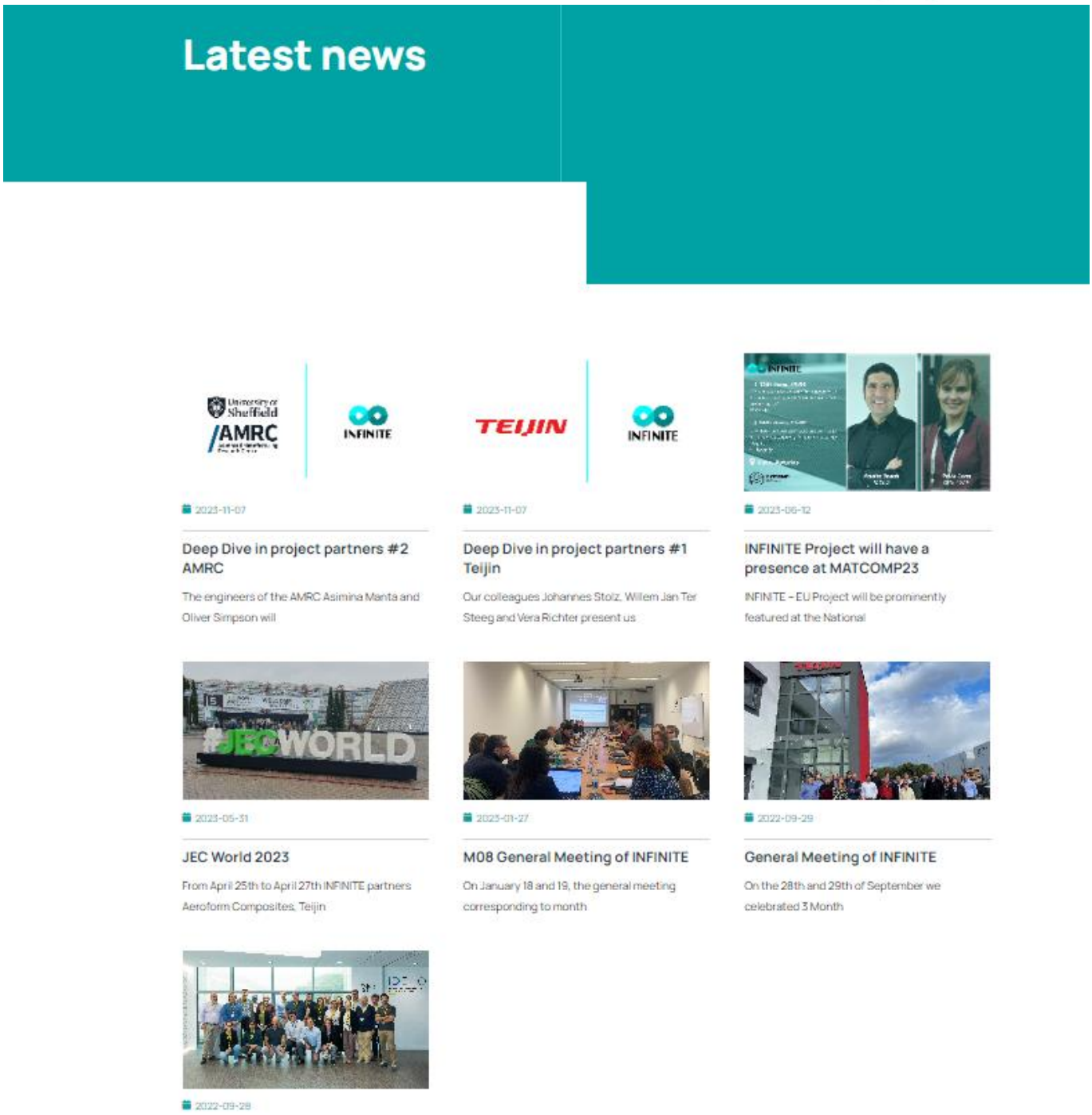

Figure 10 - News published in INFINITE website

The links to the developed website and the set-up social media channels are listed below:

- **Website**: https://www.infinite-project.eu/
13 updates in Events and News section. 191 visits to the webpage.

- **Twitter:** https://twitter.com/euinfinite
14 posts and 17 followers

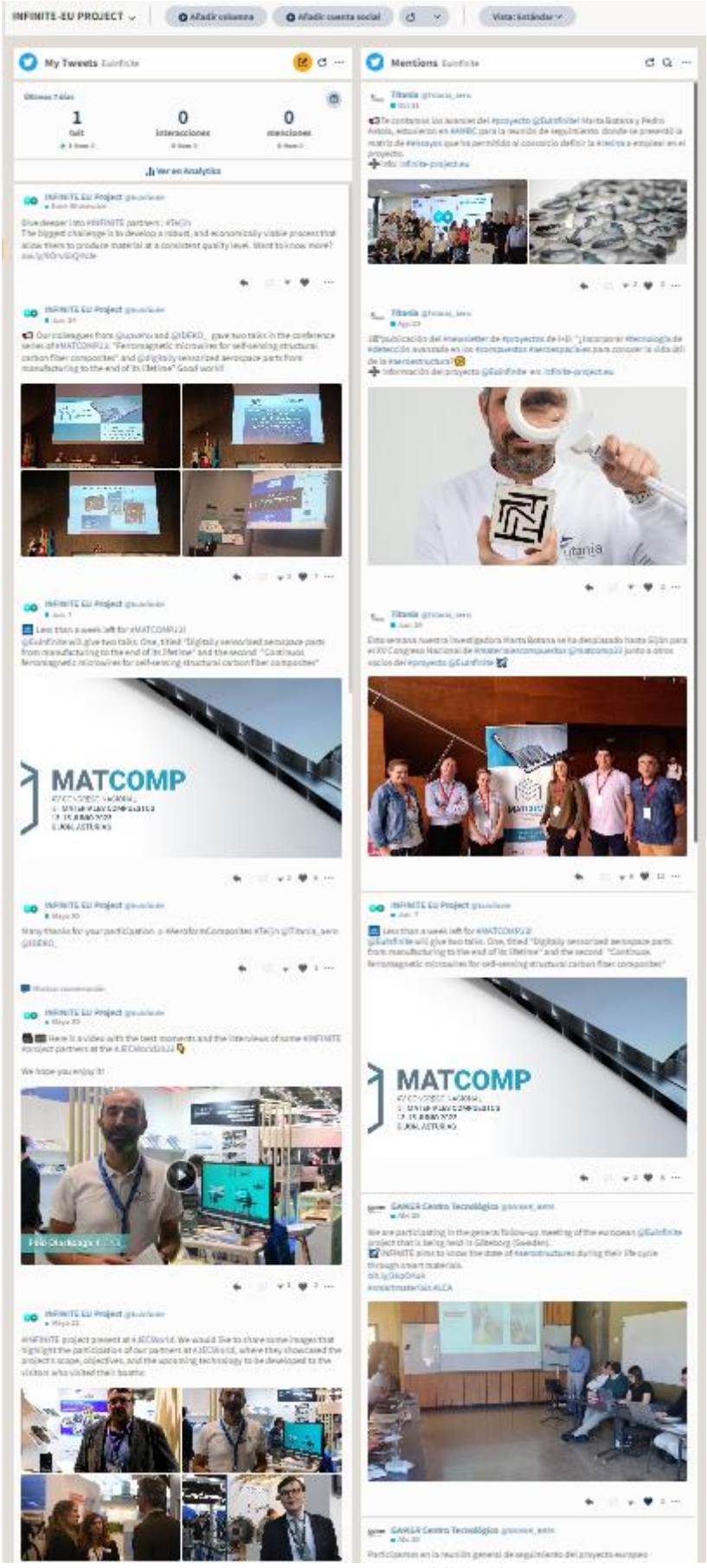

Figure 11 - Tweets published

-LinkedIn:https://www.linkedin.com/company/infinite-eu-project/

24 posts and 89 followers.

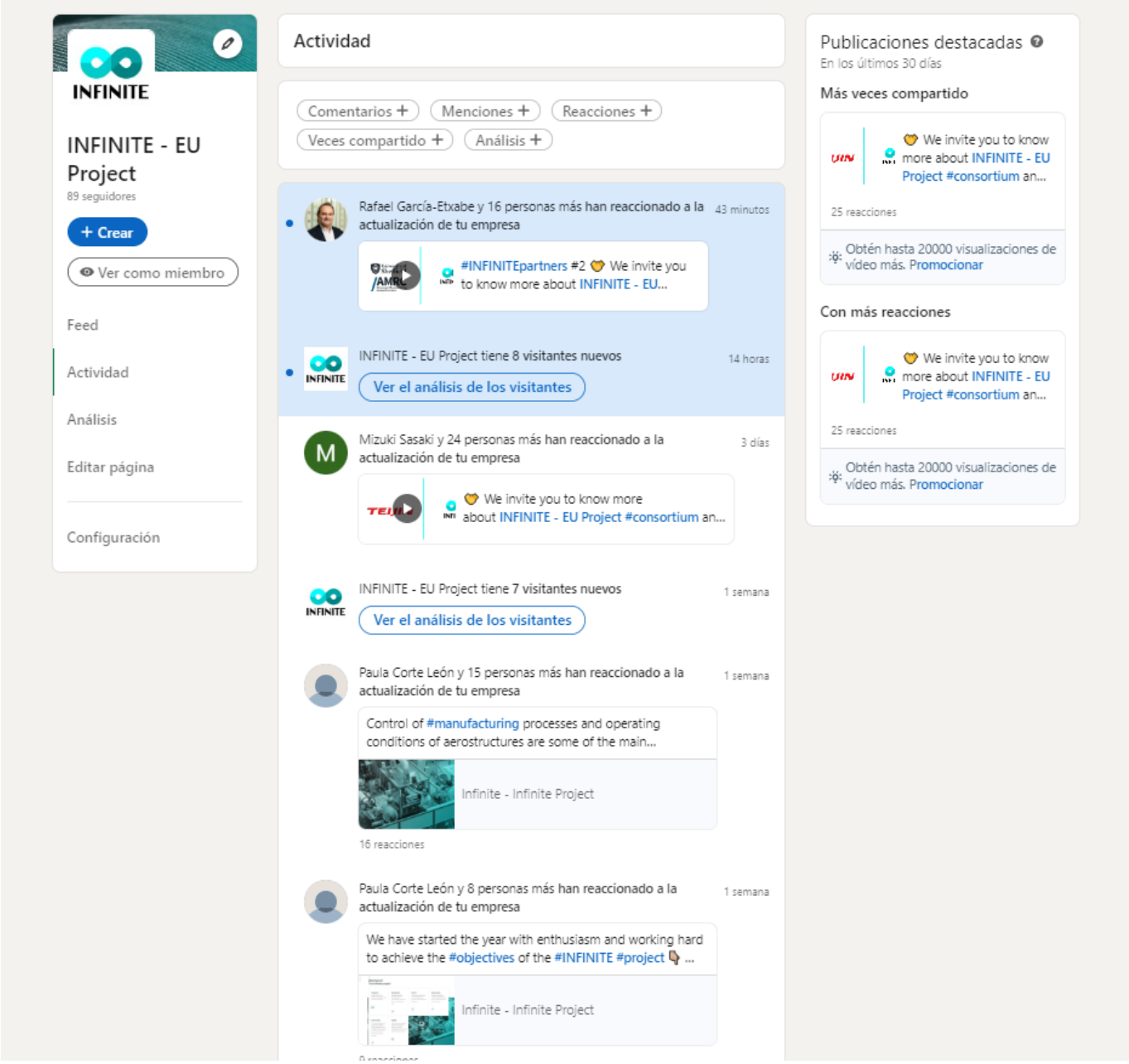

Figure 12 - Posts in Linkedin

- **Youtube:** https://www.youtube.com/channel/UCfeomD5amksXlGfg9OBz6-w/featured
6 videos, 10 suscribers and 254 views.

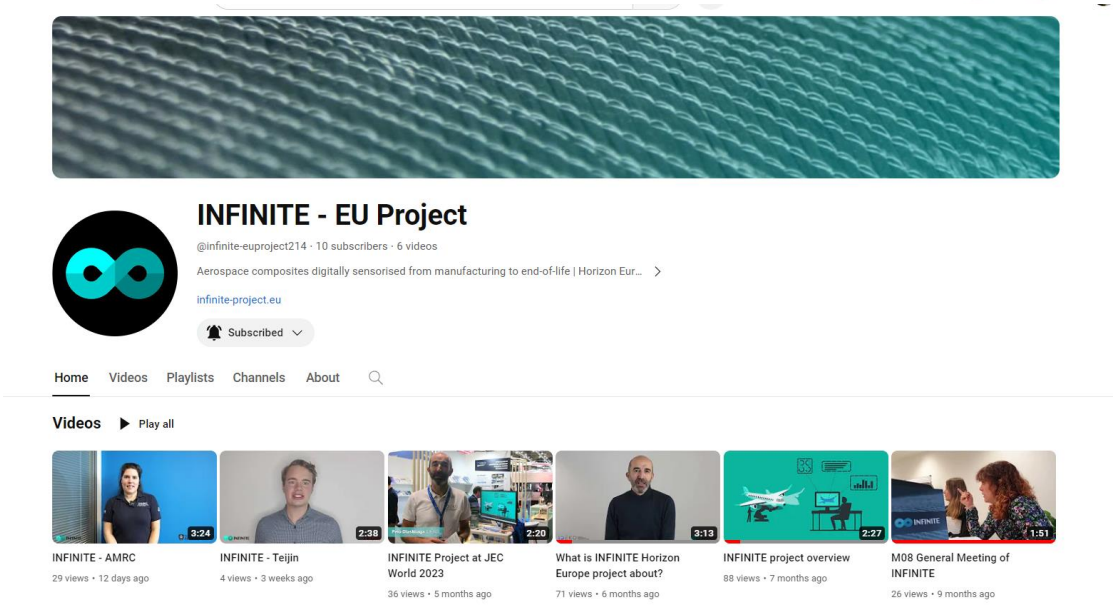

Figure 13 - Some Youtube videos published

INFINITE in the press published by project partners during 18M

70 impacts published in project partners webpages, media and magazines. See next picture as an example and click in the attached Link or go to Annexes section for further details.

Table 13 - Communication activities during 1st reporting period

Communication Activity Name	Description	Who? Target audience	How? Communication channel	Outcome	Status	Publication date	Comments
Kick off meeting + PRESS RELEASE in webpage(IDEKO)	Kick off meeting + PRESS RELEASE in	EU_INSTITUTIONS	WEBSITE	https://www.ideko.es/en/news/wireless-sensors-for-lifelong-monitoring-of-aircrafts	Delivered	Jun-22	
Kick off meeting new in Linkedin (IDEKO)	Kick off meeting new in Linkedin	INDUSTRY	SOCIAL_MEDIA	https://www.linkedin.com/posts/ideko-ik4-centro-tecnol%C3%B3gico_infinite-euproject-aerospace-activity-6939948544023789569-IwRt?utm_source=share&utm_medium=member_desktop	Delivered	Jun-22	
Press realease in webpage INFOPLC (IDEKO)	Press realease in webpage INFOPLC	INDUSTRY	PRESS_RELEASE	https://www.infoplc.net/noticias/item/111427-sensores-inalambricos-para-monitorizar-de-por-vida-los-aviones	Delivered	3/7/2022	
Kick off meeting new in Linkedin (INFOPLC)	Kick off meeting new in Linkedin	INDUSTRY	SOCIAL_MEDIA	https://www.linkedin.com/posts/infoplc_sensores-inal%C3%A1mbricos-para-monitorizar-de-activity-6951928208854286336-AW5M?utm_source=share&utm_medium=member_desktop	Delivered	Jun-22	
Press realease in Linkedin (IDEKO)	Press realease in Linkedin	CITIZENS	SOCIAL_MEDIA	https://www.linkedin.com/feed/update/urn:li:activity:6949627763003682818?updateEntityUrn=urn%3Ali%3Afs_feedUpdate%3A%28V2%2Curn%3Ali%3Aactivity%3A6949627763003682818%29	Delivered	Jun-22	
Kick off meeting to media (IDEKO)	Kick off meeting to media	INDUSTRY	TV_RADIO_CAMPAIGN		Delivered		

AEROSPACE

Published 12/9/2022

INFINITE consortium tackles wireless sensor integration for life-long aircraft monitoring

Engineers from University of Sheffield AMRC will support the embedding of highly specific sensors into composite aerospace structures for MHM and SHM and recylability opportunities.

#trends #sensors #shm

EDITED BY GRACE NEHLS
Managing Editor, *CompositesWorld*

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READ NEXT

- AMRC, industrial partners develop Type IV hydrogen tank for long-haul vehicles
- Contactless measurement of temperature, pressure in composites
- Twenco develops sensors for smart molds and process control in resin infusion and composites welding

Sample preparation for the project. Photo Credit: Titania

The INFINITE consortium, supported by engineers from the University of Sheffield Advanced Manufacturing Research Centre's (AMRC, Catcliffe, U.K.) composites team, is to integrate wireless sensors — as thin as a human hair — into composite materials and embed them in aerospace components to monitor the condition of parts from manufacture to recycling, with the aim of extending their life span, improving quality and reducing cost.

The INFINITE consortium, funded by Horizon Europe under grant agreement No 101056884, was launched to tackle some of the biggest challenges facing the European aeronautics industry, like control of the aerostructures manufacturing processes and operating conditions, and bringing down

Figure 14 - article published in Composite World magazine 12/09/2022

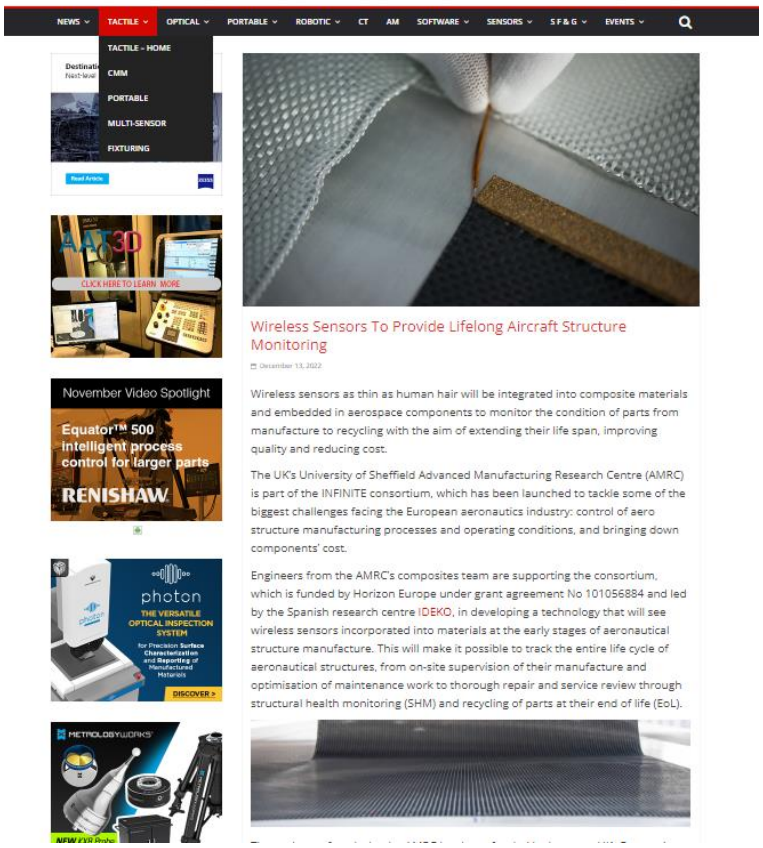

Figure 15 - article published in [Metrology news magazine 13/12/2022]

Dissemination Activities Monitoring

INFINITE activities have been presented in different conferences. 25 presentations have been made by project partners in Conferences, congresses, and trade fairs. See next picture as an example and click in the attached Link or go to Annexes section for further details.

INFINITE

Dissemination activity name	Autor / Company	What? Type of activity	Who? Target audience Reached	Publication date	Status of the dissemination activity	Comments
XIV Congreso MATCOMP 2022 (IDEKO)	IDEKO	Conferences	Industry, business partners	21-23/06/2022	Delivered	https://www.ideko.es/en/news/ideko-presents-its-latest-technological-advances-in-composites-at-the-14th-matcomp-2022-congress
The 2022 IARIA Annual Congress on Frontiers in Science, Technology, Services, and Applications (UPV/EHU)	UPV/EHU	Conferences	Research communities	24-28/07/2022	Delivered	https://www.iaria.org/conferences2022/IARIACongress22.html
12th INTERNATIONAL ADVANCES IN APPLIED PHYSICS & MATERIALS SCIENCE CONGRESS & EXHIBITION (UPV/EHU)	UPV/EHU	Conferences	Research communities	13-19/10/2022	Delivered	http://www.apmascongress.org/images/files/15.10.22_apmas_enefm_medoptics-2022_program_timetable.pdf
8th International Conference on Sensors and Electronic Instrumentation Advances (UPV/EHU)	UPV/EHU	Conferences	Research communities	21-23/09/2022	Delivered	https://www.iaria.org/conferences2022/IARIACongress22.html
67th Annual Conference on Magnetism and Magnetic Materials (UPV/EHU)	UPV/EHU	Conferences	Research communities	31/10-4/11/2022	Delivered	https://magnetism.org/#
International Conference On Quantum Materials And Technologies (UPV/EHU)	UPV/EHU	Conferences	Research communities	16-22/10/2022	Delivered	https://icqmt2022.org/general-information/committees/
JEC World 2023 (IDEKO)	IDEKO	Other	Industry, business partners	25-27/04/2023	Delivered	https://www.jeccomposites.com/events/jec-world-2023/
2nd Intl. Meet on Magnetism and Magnetic Materials, MAGNETISMMEET 2023, Rome	UPV/EHU	Conferences	Research communities	March 16-18, 2023,	Delivered	https://www.albedomeetings.com/2023/magnetismmeet#venue
9th International Conference on Antennas and Electromagnetic Systems (AES2023)	UPV/EHU/ GAIKER	Conferences	Research communities	June 5-8, 2023	Delivered	https://aesconference.org/AES23/index.php/AES
8th International Congress on Biomaterials and Biosensors (BIOMATSEN)	UPV/EHU	Conferences	Research communities	April 13-19,2023	Delivered	http://www.biomatsencongress.org/
7th International Conference on Material Engineering and Manufacturing (ICMEM 2023)	UPV/EHU	Conferences	Research communities	April 7-10, 2023	Delivered	http://icmem.org/index.html
8th International Conference on Superconductivity and Magnetism- ICSM2023	UPV/EHU	Conferences	Research communities	May, 4-11-th, 2023	Delivered	https://icsm2023.org/

Table 14 - Dissemination activities carried out during 1st reporting period

Some examples of the participation of INFINITE in different events.

Figure 16: Picture of INFINITE partner participants at MATCOMP23

Figure 17: Arkaitz Uriarte presented the paper "INFINITE: Digitally sensorized aerospace parts from manufacturing to the end of its lifetime"

Figure 18: P*aula Corte from UPV presented the paper "Ferromagnetic microwires for self-sensing structural carbon fiber composites".*

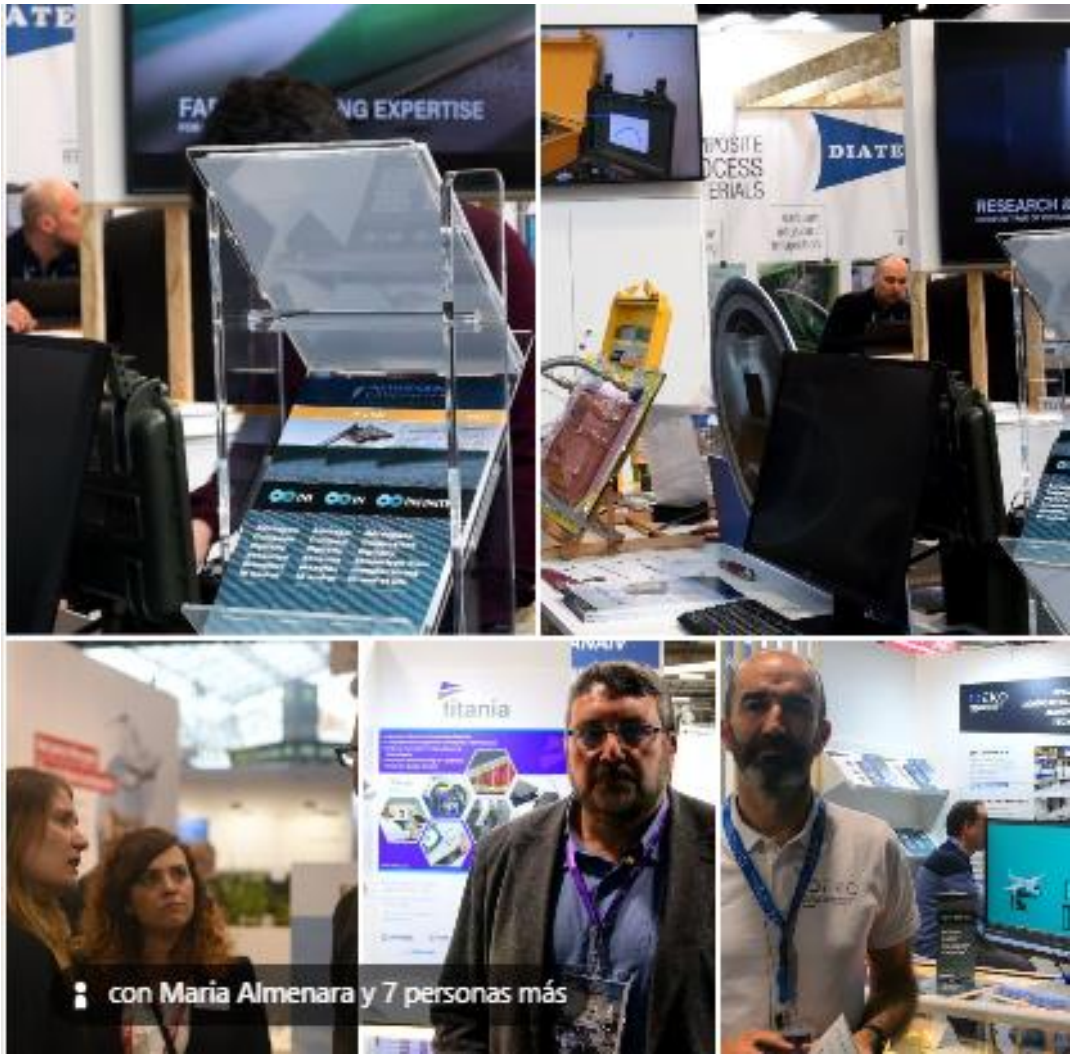

Figure 19: Titania, Aeroform, Teijin and Ideko presented INFINITE in their booths at JEC23

20 Publication made by project partners in scientific journals. See next picture as an example and click in the attached Link or go to Annexes section for further details.

Table 15 - Scientific publications during 1st reporting period

Type	Title	Authors	Title of the Journal or equivalent	Peer-reviewed (Y/N)	Open access through the	PID (Publisher version of record)	PID of deposited publication	Actions	Status
Article in journal	Glass-coated magnetic microwires for nondestructive composites monitoring	A. Zhukov	Composite world	Y	Y	https://www.compositesworld.com/articles/glass-coated-magnetic-microwires-for-non-destructive-composites-monitoring-	https://www.compositesworld.com/articles/glass-coated-magnetic-microwires-for-non-destructive-composites-monitoring-		Done
Article in journal	Advanced Magnetic Microwires for Sensing Applications,	A. P Zhukov, M. Ipatov, P. Corte-Leon, J.M Blanco, V. Zhukova	Encyclopedia of Materials: Electronics, ch.31 (2022)	Y	Y	https://doi.org/10.1016/B978-0-12-819728-8.00031-0	https://doi.org/10.1016/B978-0-12-819728-8.00031-0		Done
Article in journal	Preparation and Magneto-Structural Investigation of Nanocrystalline CoMn-Based Heusler Alloy Glass-Coated Microwires,	M. Salaheldeen, A. Talaat, M. Ipatov, V. Zhukova and A. Zhukov,	Processes 10 (2022) 2248	Y	Y	https://doi.org/10.3390/pr10112248	https://doi.org/10.3390/pr10112248		Done
Article in journal	Elucidation of the strong effect of the annealing and the magnetic field on the magnetic properties of Ni2-based Heusler microwires,	M. Salaheldeen, A.Wederni, M. Ipatov, J. Gonzalez, V. Zhukova, A, Zhukov,	Crystals, 12 (2022) 1755	Y	Y	https://doi.org/10.3390/cryst12121755	https://doi.org/10.3390/cryst12121755		Done
Article in journal	Review of Helical Magnetic Structures in Magnetic Microwires	A Chizhik, J Gonzalez, A Zhukov, P Gawronski	Chemosensors 10 (8), (2022) 291	Y	Y	https://doi.org/10.3390/chemosensors10080291	https://doi.org/10.3390/chemosensors10080291		Done
Article in journal	Preparation and magnetic properties of Co2-based Heusler alloy glass-coated microwires with high Curie temperature,	M. Salaheldeen, M. Ipatov, V. Zhukova, A. Garcia-Gomez, J. Gonzalez, and A. Zhukov,	AIP Advances Vol.13, Issue 2 (2023) 13, 025325	Y	Y	https://doi.org/10.1063/9.0000482			Done

Some examples of the scientific publications.

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Volume 13, Issue 3
March 2023

RESEARCH ARTICLE | MARCH 02 2023

Effect of applied stresses on magnetic properties of Co and Fe-rich glass-coated microwires

Special Collection: 67th Annual Conference on Magnetism and Magnetic Materials

A. García-Gómez; P. Corte-León; M. Ipatov; V. Zhukova; J. Gonzalez; A. Fert; A. Alonso; E. Gomez; A. Zhukov

Check for updates

+ Author & Article Information

AIP Advances 13, 035103 (2023)

https://doi.org/10.1063/9.0000531 Article history

Split-Screen Views PDF Share Tools

In this article we evaluate the possibility of using glass coated magnetic microwires as an alternative to optical fiber devices in structural health monitoring in the railway industry. The effect of applied stress on hysteresis loops of $Fe_{71.80}B_{13.27}Si_{11.02}Nb_{2.99}Ni_{0.92}$ and $Co_{65.34}Si_{12.00}B_{10.20}Cr_{8.48}Fe_{3.90}Mo_{0.08}$ microwires has been studied and analyzed. An interpolation function has been obtained relating the coercitivity H_c with the applied stress.

Topics

Magnetic response functions, Energy use and applications, Sensors, Stress measurement, Magnetic properties, Amorphous materials, Magnetic hysteresis, Smart materials, Interpolation, Optical fibers

Previous Article Next Article

Article Contents

I. INTRODUCTION
II. EXPERIMENTAL METHOD
III. RESULTS
IV. CONCLUSIONS
ACKNOWLEDGMENTS
AUTHOR DECLARATIONS
Conflict Of Interest
Author Contributions
DATA AVAILABILITY
REFERENCES

I. INTRODUCTION

In the last years, the railway industry has been one of the leading sectors in the research of alternatives to reduce the costs associated with maintenance. The components of railway tracks suffer huge amounts of pressure that could compromise railway safety and must be revised, repaired and renew frequently according to strict criteria. In the case of the sleeper, the maximum stress allowed by the different authorities is in the order of ~ 100 MPa[1] before substitution. Currently, the main testing procedures are based on visual inspection or *in situ* measurements, making maintenance procedures economically inefficient.

Figure 20: Publication on AIP Advances 13, 2023

Journal of Magnetism and Magnetic Materials
Volume 587, 1 December 2023, 171358

Development of amorphous microwires with graded magnetic anisotropy

A. Zhukov [a b c d], P. Corte-León [a b c], J.M. Blanco [b c], M. Ipatov [a b], A. García-Gómez [a b c], A. Gonzalez [a b c], J. Olivera [e], V. Zhukova [a b c]

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Highlights

- Gradual modification of the hysteresis loops along the microwire length of Fe-rich stress-annealed in temperature gradient.
- Gradual modification of the hysteresis loops along the microwire length Co-rich annealed in temperature gradient.
- Essentially non-uniform domain wall propagation in microwires with graded magnetic anisotropy.

Figure 21: https://pubs.aip.org/aip/adv/article/13/3/035103/2880619/Effect-of-applied-stresses-on-magnetic-propertiesPublication on Elsevier, 2023

https://pubs.aip.org/aip/adv/article/13/3/035103/2880619/Effect-of-applied-stresses-on-magnetic-properties

3.4 M18-36 ACTION PLAN

Following this, we outline the **dissemination activities** scheduled for the upcoming months of the project. The section concludes with an estimation of the expected Key Performance Indicators (KPIs), drawing from the lessons learned during the first year of the project.

Activities are presented in more depth for the next six months, as planning for the third year is still some time away and will depend on the progress made in prior phases. Similarly, the defined KPIs should be given preliminary consideration for the third year.

Figure 22 - Detailed General Dissemination Plan

We will continue the production of partners video and it is planned an additional video at midterm to show in an easy-to-understand way project progress and developments. During the last period of the project, other videos explaining the used cases and the application of the developments carried out in the project, in the aircraft industry will be created.

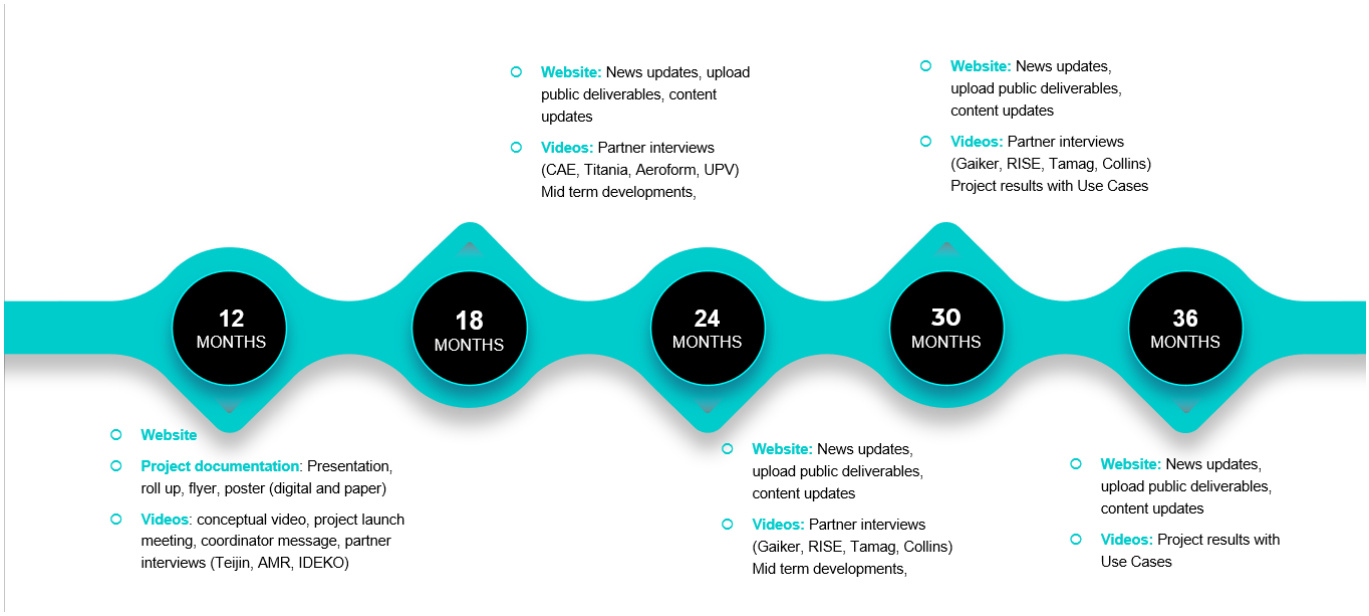

Figure 23 - Detailed General Communication plan

Website and social channels will be updated with the project progress and developments innovations. Continuing the methodology employed in the project's initial months, we will ensure the project website remains active by consistently adding news about project-related developments to the “News” section. These articles will cover significant events and project highlights, supplemented by content contributed by our partners, such as interviews and posts authored by partners. As the project progresses to an advanced stage, we will increase coverage of project highlights. The forthcoming table offers a summary of the planned content. Partner inputs will be gathered in advance and posted when appropriate.

Table 16 - Planned content upload to the INFINITE Website

Post content	M1-M12	M13-M24	M25-M36
Project news	3	5	5
Partner interviews	3	7	2
Technological developments		4	4
Participation in events	3	3	3

We will continue writing press releases and disseminating through our corporative channels and media. A new press release will be issued following the midterm review of the project to provide updates on the project's status. A final press release will be made available at the project's conclusion.

Furthermore, we will engage with manufacturing-related clusters such as Composite World, ESCM-European Society for Composite Materials, Manufuture, ASME- International the Materials Information Society - ASM, European composites industry assn. (EUCIA), Society for the advancement of material and process engineering (SAMPE), AFM, APTE- Spanish technology platform, BRTA- Basque Research Technology Alliance FEDIT- Spanish Research Centers Alliance, Andalucia Aerospace Cluster, Centro español de plásticos- CEP- Hegan, Basque Aerospace cluster and Composites UK, to amplify the reach of project highlights via their newsletters, magazines and presence in *international conferences not covered by the consortium partners.*

Additionally, with the aim of targeting an audience oriented toward industry, the project's outcomes will be featured in industrial publications like The manufacturer in UK, IMHE in Spain, and ZWF in Germany."

4. CONCLUSION

This document outlines the communication, dissemination, and exploitation plan devised for the INFINITE project, along with the key performance indicators (KPIs) utilized for its monitoring and the primary outcomes achieved within the initial reporting period (M0-M18). While intended as a guiding framework for project partners and the coordination team, it remains flexible for adaptation based on partner needs and emerging dissemination and exploitation opportunities.

This deliverable is accompanied by a subsequent release scheduled for the project's conclusion (D7.3, M36). In this follow-up, the communication, dissemination, and exploitation activities for the second reporting period will be delineated, elucidating the tools and mechanisms employed and presenting the outcomes derived from their implementation. It is crucial to note that the dissemination and exploitation plan is a dynamic document subject to continuous updates.

As detailed in this report, INFINITE project partners have been actively engaged in disseminating project results and technologies, showcasing a diverse array of technologies developed throughout the project. The achieved indicators align with the expectations set for M18 in the project proposal:

- A comprehensive and regularly updated website (7 updates).
- An active presence on social media with more than 121 publications.
- Noteworthy scientific contributions, including 20 papers in relevant journal publications and over 20 conference presentations.
- Participation in 2 additional industrial events.

In summary, project results have been effectively disseminated to diverse target audiences throughout the project. Furthermore, an effective exploitation plan is underway to ensure the successful utilization of INFINITE's exploitable results, with a specific emphasis on developing a business design for key exploitable outcomes of the INFINITE project.

5. ANNEX I

5.1 DESCRIPTION, CHARACTERISATION AND PRIORITISATION OF EXPLOITABLE RESULTS

DOCUMENTS	Link
Initial Description, characterisation, ownership assessment and Roadmap of INFINITE Exploitable Results	Link
Prioritisation of INFINITE Exploitable results	Link

5.2 DISSEMINATION ACTIVITIES: SCIENTIFIC PUBLICATIONS

Type	Title	Authors	Title of the Journal or equivalent	Peer-reviewed (Y/N)	Pen access (Y/N)	PID (Publisher version of record)	PID of deposited publication	Status
Article in journal	Glass-coated magnetic microwires for nondestructive composites monitoring	A. Zhukov	Composite world	Y	Y	https://www.compositesworld.com/articles/glass-coated-magnetic-microwires-for-non-destructive-composites-monitoring-	https://www.compositesworld.com/articles/glass-coated-magnetic-microwires-for-non-destructive-composites-monitoring-	Done
Article in journal	Advanced Magnetic Microwires for Sensing Applications,	A. P Zhukov, M. Ipatov, P. Corte-Leon, J.M Blanco, V. Zhukova	Encyclopedia of Materials: Electronics, ch.31 (2022)	Y	Y	https://doi.org/10.1016/B978-0-12-819728-8.00031-0	https://doi.org/10.1016/B978-0-12-819728-8.00031-0	Done
Article in journal	Preparation and Magneto-Structural Investigation of Nanocrystalline CoMn-Based Heusler Alloy Glass-Coated Microwires,	M. Salaheldeen, A. Talaat, M. Ipatov, V. Zhukova and A. Zhukov,	Processes 10 (2022) 2248	Y	Y	https://doi.org/10.3390/pr10112248	https://doi.org/10.3390/pr10112248	Done
Article in journal	Elucidation of the strong effect of the annealing and the magnetic field on the magnetic properties of Ni2-based Heusler microwires,	M. Salaheldeen, A.Wederni, M. Ipatov, J. Gonzalez, V. Zhukova, A, Zhukov,	Crystals, 12 (2022) 1755	Y	Y	https://doi.org/10.3390/cryst12121755	https://doi.org/10.3390/cryst12121755	Done
Article in journal	Review of Helical Magnetic Structures in Magnetic Microwires	A Chizhik, J Gonzalez, A Zhukov, P Gawronski	Chemosensors 10 (8), (2022) 291	Y	Y	*https://doi.org/10.3390/chemosensors10080291*	https://doi.org/10.3390/chemosensors10080291	Done

Article in journal	Preparation and magnetic properties of Co2-based Heusler alloy glass-coated microwires with high Curie temperature,	M. Salaheldeen, M. Ipatov, V. Zhukova, A. García-Gomez, J. Gonzalez, and A. Zhukov,	AIP Advances Vol.13, Issue 2 (2023) 13, 025325	Y	Y	https://doi.org/10.1063/9.0000482		Done
Article in journal	Manipulation of magnetic and structure properties of Ni2FeSi glass coated microwires by annealing	M. Salaheldeen, A. Garcia-Gomez, P. Corte-Leon, A. Gonzalez, M. Ipatov, V. Zhukova, J. Gonzalez, R. Lopez Anton, A. Zhukov,	J. Alloys Compound 942 (2023) 169026	Y	Y	https://doi.org/10.1016/j.jallcom.2023.169026		Done
Article in journal	Temperature influence on magnetic properties and magnetoimpedance effect of Fe-rich glass-coated microwires,	P. Corte-Leon, I. Skorvanek, F. Andrejka, V. Zhukova, J. M. Blanco, M. Ipatov, and A. Zhukov,	AIP Advances 13, (2023) 025337;	Y	Y	https://doi.org/10.1063/9.0000466		Done
Article in journal	Special Issue “Advances in Innovative Engineering Materials and Processes”.	A. Zhukov, S. Alexandrov, V. Rodionova, V. Zhukova,	Processes 11 (2023) 578,	Y	Y	https://doi.org/10.3390/pr11020578		Done
Article in journal	Effect of Annealing on the Magnetic Properties of Co2MnSi-Based Heusler Alloy Glass-Coated Microwires,	M. Salaheldeen, M. Ipatov, P. Corte-Leon, V. Zhukova and A. Zhukov,	Metals, 13 (2023) 412.	Y	Y	https://doi.org/10.3390/met13020412		Done
Article in journal	Effect of temperature on magnetic properties and magnetoimpedance effect in Fe-rich microwires,	P. Corte -Leon, I. Skorvanek, F. Andrejka, V. Zhukova, J.M. Blanco, M. Ipatov, A. Zhukov,	J. Alloys Compound. 946 (2023) 169419	Y	Y	https://doi.org/10.1016/j.jallcom.2023.169419		Done
Article in journal	Effect of applied stresses on magnetic properties of Co and Fe-rich glass-coated microwires,	A. García-Gómez, P. Corte-León, M. Ipatov, V. Zhukova, J. Gonzalez, A. Fert, A. Alonso, E. Gomez, and A. Zhukov,	AIP Advances 13 (2023) 035103;	Y	Y	https://doi.org/10.1063/9.0000531		Done
Article in journal	Preparation and Magneto-Structural Investigation of High-Ordered (L21 Structure) Co2MnGe Microwires.	M. Salaheldeen, A.Wederni, M. Ipatov, V. Zhukova, A. Zhukov,	Processes 11 (2023) 1138.	Y	Y	https://doi.org/10.3390/pr11041138		done

Article in journal	Determination of Magnetic Structures in Magnetic Microwires with Longitudinally Distributed Magnetic Anisotropy.	A. Chizhik, P. Corte-Leon, V. Zhukova, J. Gonzalez, P. Gawronski, J.M. Blanco, A. Zhukov,	Sensors 23 (2023) 3079,	Y	Y	https://doi.org/10.3390/s23063079		Done
Article in journal	Carbon-Doped Co2MnSi Heusler Alloy Microwires with Improved Thermal Characteristics of Magnetization for Multifunctional Applications	M. Salaheldeen, A.Wederni, M. Ipatov, V. Zhukova and A. Zhukov	Materials, 16(15) (2023) 5333	Y	Y	https://doi.org/10.3390/ma16155333		Done
Article in journal	Optimization of Magnetoimpedance Effect and Magnetic Properties of Fe-Rich Glass-Coated Microwires by Annealing	A González, A. García-Gomez, V. Zhukova, P. Corte-Leon, M. Ipatov, J. M. Blanco, J. Gonzalez and A. Zhukov	Sensors, 23 (2023,) 7481	Y	Y	https://doi.org/10.3390/s23177481		Done
Article in journal	Influence of the Geometrical Aspect Ratio on the Magneto-Structural Properties of Co_2MnSi Microwires,	A. Wederni, M. Salaheldeen, M. Ipatov, V. Zhukova and A. Zhukov,	Metals 13 (2023) 1692	Y	Y	https://doi.org/10.3390/met13101692		Done
Article in journal	Anomalous Magnetic Anisotropy Behaviour in Co-Rich and Fe-Rich Glass-Coated Microwires under Applied Stress	A. García-Gómez, J. M. Blanco, P. Corte-León, M. Ipatov, Á. González, J. González, A. Zhukov and V. Zhukova	Sensors, 23 (2023) 8068	Y	Y	https://doi.org/10.3390/s23198068		Done
Article in journal	The Magnetostriction of Amorphous Magnetic Microwires: The Role of the Local Atomic Environment and Internal Stresses Relaxation.	V. Zhukova, A. García-Gómez, A. Gonzalez, M. Churyukanova, S. Kaloshkin, P. Corte-Leon, M. Ipatov, J. Olivera and A. Zhukov,	Magnetochemistry 2023, 9,	Y	Y	222.https://doi.org/10.3390/		Done
Article in journal	Development of amorphous microwires with graded magnetic anisotropy	A. Zhukov, P. Corte-Leon, J.M. Blanco, M. Ipatov, A. García-Gomez,A. Gonzalez, J. Olivera, V. Zhukova,	J. Magn. Magn. Mater. 587 (2023) 171358,	Y	Y	https://doi.org/10.1016/j.jmmm.2023.171358		Done
Article in journal	, Magnetic Properties and Applications of Glass-coated Ferromagnetic Microwires, Advanced Electromagnetics,	V. Zhukova, P. Corte-Leon, A. Allue, K. Gondra, M.Ipatov, J. M.	Advanced Electromagnetics, vol. 12, NO. 3 (2023) 69-74	Y	Y	https://doi.org/10.7716/aem.v12i3.2240		Done

		Blanco, J. Olivera and A. Zhukov						
Article in journal	Bend Induced Magnetic Bistability in Amorphous Microwires,	A. Chizhik, P. Corte-Leon, V. Zhukova, A. Zhukov,	Materials Technology, 38 (1) (2023) 2282318,	Y	Y	10.1080/10667857.2023.2282318		Done
Article in journal	Unveiling the Magnetic and Structural Properties of (X2YZ; X= Co and Ni, Y= Fe and Mn, and Z= Si) Full-Heusler Alloy Microwires with Fixed Geometrical Parameters	M. Salaheldeen, V. Zhukova, M. Ipatov, A. Zhukov	Crystals 13(11) (2023) 1550;	Y	Y	https://doi.org/10.3390/cryst13111550		Done
Publication in conference proceeding/workshop	Development of Free Space Microwave Sensing of Carbon Fiber Composites with Ferromagnetic Microwire Inclusions	V. Zhukova, M.Ipatov, P. Corte-León, A.Gonzalez, A.García-Gómez, F. J. Vallejo, P. Olaskoaga, J. Malm, C. Johansson, R. Garcia-Etxabe, A. Zhukov	IARIA Congress 2023 : The 2023 IARIA Annual Congress on Frontiers in Science, Technology, Services, and Applications, ISBN: 978-1-68558-089-6, pp.88-93	Y	Y	https://www.thinkmind.org/index.php?view=article&articleid=iaria_congress_2023_1_170_50139		Done
Publication in conference proceeding/workshop	, Exploring the Temperature Dependent Magnetic Properties and Magnetoimpedance Effect in Fe-rich Microwires for Temperature Monitoring,	P. Corte-León, I. Skorvanek, F. Andrejka, V. Zhukova,M. Ipatov,A. Zhukov,	IARIA Congress 2023 : The 2023 IARIA Annual Congress on Frontiers in Science, Technology, Services, and Applications,	Y	Y	https://www.thinkmind.org/index.php?view=article&articleid=iaria_congress_2023_1_70_50078		Done

			ISBN: 978-1-68558-089-6, pp.26-30					

Dissemination activity name	Autor | Company	What? Type of activity	Who? Target audience Reached	Publication date	Status of the dissemination activity	Comments
XIV Congreso MATCOMP 2022 (IDEKO)	IDEKO	Conferences	Industry, business partners	21-23/06/2022	Delivered	https://www.ideko.es/en/news/ideko-presents-its-latest-technological-advances-in-composites-at-the-14th-matcomp-2022-congress
The 2022 IARIA Annual Congress on Frontiers in Science, Technology, Services, and Applications (UPV/EHU)	UPV/EHU	Conferences	Research communities	24-28/07/2022	Delivered	https://www.iaria.org/conferences2022/IARIACongress22.html
12th INTERNATIONAL ADVANCES IN APPLIED PHYSICS & MATERIALS SCIENCE CONGRESS & EXHIBITION (UPV/EHU)	UPV/EHU	Conferences	Research communities	13-19/10/2022	Delivered	http://www.apmascongress.org/images/files/15.10.22_apmas_enefm_medoptics-2022_program_timetable.pdf
8th International Conference on Sensors and Electronic Instrumentation Advances (UPV/EHU)	UPV/EHU	Conferences	Research communities	21-23/09/2022	Delivered	https://www.iaria.org/conferences2022/IARIACongress22.html
67th Annual Conference on Magnetism and Magnetic Materials (UPV/EHU)	UPV/EHU	Conferences	Research communities	31/10-4/11/2022	Delivered	https://magnetism.org/#
International Conference On Quantum Materials And Technologies (UPV/EHU)	UPV/EHU	Conferences	Research communities	16-22/10/2022	Delivered	https://icqmt2022.org/general-information/committees/
JEC World 2023 (IDEKO)	IDEKO	Other	Industry, business partners	25-27/04/2023	Delivered	https://www.jeccomposites.com/events/jec-world-2023/
2nd Intl. Meet on Magnetism and Magnetic Materials, MAGNETISMMEET 2023, Rome	UPV/EHU	Conferences	Research communities	March 16-18, 2023,	Delivered	https://www.albedomeetings.com/2023/magnetismmeet#venue

9th International Conference on Antennas and Electromagnetic Systems (AES2023)	UPV/EHU/ GAIKER	Conferences	Research communities	June 5-8, 2023	Delivered	https://aesconference.org/AES23/index.php/AES
8th International Congress on Biomaterials and Biosensors (BIOMATSEN)	UPV/EHU	Conferences	Research communities	April 13-19,2023	Delivered	http://www.biomatsencongress.org/
7th International Conference on Material Engineering and Manufacturing (ICMEM 2023)	UPV/EHU	Conferences	Research communities	April 7-10, 2023	Delivered	http://icmem.org/index.html
8th International Conference on Superconductivity and Magnetism-ICSM2023	UPV/EHU	Conferences	Research communities	May, 4-11-th, 2023	Delivered	https://icsm2023.org/
International Conference on Technology, Business, Entrepreneurship, Management and Leadership (ICAPMOT)	UPV/EHU	Conferences	Research communities	May 22-26-th, 2023	Delivered	https://seed-nanotech.com/icapmot-2023/
International Symposium on Metastable, Amorphous and Nanostructured Materials (ISMANAM)	UPV/EHU	Conferences	Research communities	August, 20-25-th, 2023	Delivered	https://www.rq2023.pl/About_RQ_and_ISMANAM.html
13-th International Conference on Metamaterials, Photonic Crystals and Plasmonic	UPV/EHU	Conferences	Research communities	July, 18-21-st, 2023	Delivered	https://metaconferences.org/META23/index.php/META/symposia
MATCOMP - XV Congreso nacional de materiales compuestos (IDEKO and UPV/EHU)	IDEKO/UPV	Conferences	Research communities	June 13-15, 2023	Delivered	https://www.matcomp23.org/es/
JEC World 2023 (TEIJIN)	TEIJIN	Clustering activities	Industry, business partners	25-27/04/2023	Delivered	https://www.jeccomposites.com/events/jec-world-2023/
Article for the Material World Feature (Monday, Sept 4th deadline)	AMRC	Other Scientific collaboration	Research communities	November issue	Ongoing	https://www.iom3.org/
Global Congress on Magnetism and Magnetic Materials, GCMMM2023	UPV/EHU	Conferences	Research communities	August, 10-12-th, 2023	Delivered	https://avouchconferences.com/2023/magnetism-magnetic-materials/
Samarkand International Symposium on Magnetism SISM-2023	UPV/EHU	Conferences	Research communities	July 2-6, 2023	Delivered	https://sism.samdu.uz/index.php
IARIA Annual Congress on Frontiers in Science, Technology, Services, and Applications, November 13- 17, 2023	UPV/EHU	Conferences	Research communities	November 13-17, 2023	Ongoing	https://www.iaria.org/conferences2023/IARIACongress23.html

68th Annual Conference on Magnetism and Magnetic Materials	UPV/EHU	Conferences	Research communities	October 30-November 3, 2023	Ongoing	https://magnetism.org/program-overview
HVMC 23/24 Rev. Project: AC-23-229 High-Speed Electrical Machines	AMRC	Clustering activities	Research communities		Ongoing	https://hvm.catapult.org.uk/
HVMC 24/25 Rev. Project (proposal): Sensorising braided preforms with optical fibres and microwires	AMRC	Clustering activities	Research communities		Ongoing	https://hvm.catapult.org.uk/
JEC World 2023	AEROFORM	Other	Industry, business partners	25-27/04/2023	Delivered	https://www.jeccomposites.com/events/jec-world-2023/
MRO Show Amsterdam 2023	AEROFORM	Other	Specific end user communities	18-19/10/2023	Delivered	https://mroeurope.aviationweek.com/en/home.html
JEC WORLD 2024	IDEKO	Other	Industry, business partners	5-7/03/2024	Ongoing	https://www.jec-world.events/
BIEMH 24	IDEKO	Other	Industry, business partners	3-7/06/2024	Ongoing	https://biemh.bilbaoexhibitioncentre.com/
JEC WORLD 2024	AEROFORM	Other	Industry, business partners	5-7/03/2024	Ongoing	https://www.jeccomposites.com/events/jec-world-2024/

INFINITE

Communication Activity Name	Description	Who? Target audience	How? Communication channel	Outcome	Status	Publication date
Kick off meeting + PRESS RELEASE in webpage(IDEKO)	Kick off meeting + PRESS RELEASE in webpage	EU_INSTITUTIONS	WEBSITE	https://www.ideko.es/en/news/wireless-sensors-for-lifelong-monitoring-of-aircrafts	Delivered	Jun-22
Kick off meeting new in LinkedIn (IDEKO)	Kick off meeting new in LinkedIn	INDUSTRY	SOCIAL_MEDIA	https://www.linkedin.com/posts/ideko-ik4-centro-tecnol%C3%B3gico_infinite-euproject-aerospace-activity-6939948544023789569-lwRt?utm_source=share&utm_medium=member_desktop	Delivered	Jun-22
Press release in webpage INFOPLC (IDEKO)	Press release in webpage INFOPLC	INDUSTRY	PRESS_RELEASE	https://www.infoplc.net/noticias/item/111427-sensores-inalambricos-para-monitorizar-de-por-vida-los-aviones	Delivered	3/7/2022

Kick off meeting new in LinkedIn (INFOPLC)	Kick off meeting new in LinkedIn	INDUSTRY	SOCIAL_MEDIA	https://www.linkedin.com/posts/infoplc_sensores-inal%C3%A1mbricos-para-monitorizar-de-activity-6951928208854286336-AWSM?utm_source=share&utm_medium=member_desktop	Delivered	Jun-22
Press release in LinkedIn (IDEKO)	Press release in LinkedIn	CITIZENS	SOCIAL_MEDIA	https://www.linkedin.com/feed/update/urn:li:activity:6949627763003682818?updateEntityUrn=urn%3Ali%3Afs_feedUpdate%3A%28V2%2Curn%3Ali%3Aactivity%3A6949627763003682818%29	Delivered	Jun-22
Kick off meeting to media (IDEKO)	Kick off meeting to media	INDUSTRY	TV_RADIO_CAMPAIGN		Delivered	
Kick off meeting new in LinkedIn (MONDRAGON CORPORATAION)	Kick off meeting new in LinkedIn	CITIZENS	SOCIAL_MEDIA	https://www.linkedin.com/feed/update/urn:li:activity:6960505039538798592?updateEntityUrn=urn%3Ali%3Afs_feedUpdate%3A%28V2%2Curn%3Ali%3Aactivity%3A6960505039538798592%29	Delivered	3/7/2022

Kick off meeting new in LinkedIn (CAE SIMULATION & SOLUTIONS)	Kick off meeting new in website	CITIZENS	WEBSITE	https://cae-sim-sol.com/2022/07/25/mit-dabei-im-neuen-innovativen-eu-forschungsprojekt-infinite/	Delivered	7/25/2022
Kick off meeting new in LinkedIn (CAE SIMULATION & SOLUTIONS)	Kick off meeting new in LinkedIn	CITIZENS	SOCIAL_MEDIA	https://www.linkedin.com/feed/update/urn:li:activity:6957280326679166976?updateEntityUrn=urn%3Ali%3Afs_feedUpdate%3A%28V2%2Curn%3Ali%3Aactivity%3A6957280326679166976%29	Delivered	3/7/2022
Kick off meeting new in LinkedIn (AF AUTOMATION FAIR)	Kick off meeting new in LinkedIn	INDUSTRY	SOCIAL_MEDIA	https://www.linkedin.com/feed/update/urn:li:activity:6949993886450647040?updateEntityUrn=urn%3Ali%3Afs_feedUpdate%3A%28V2%2Curn%3Ali%3Aactivity%3A6949993886450647040%29	Delivered	3/7/2022
Kick off meeting new in LinkedIn (TITANIA)	Kick off meeting new in LinkedIn	CITIZENS	SOCIAL_MEDIA		Delivered	3/7/2022
Project presentation, objectives, future radio EITB. LA MECANICA DEL CARACOL-RADIO EUSKADI (IDEKO)	Project presentation, objectives, future radio EITB. LA MECANICA DEL CARACOL-RADIO EUSKADI	INDUSTRY	TV_RADIO_CAMPAIGN	https://eitb.eus/A_xpJ1Lz/	Delivered	20/07/2022

Project presentation, objectives, future IN ENRIQUE RODAL BLOG (IDEKO)	Project presentation, objectives, future IN ENRIQUE RODAL BLOG	INDUSTRY	WEBSITE	https://www.enriquerodal.com/2022/07/infinite-sensores-de-ultima-generacion.html	Delivered	21/07/2022
PRESS release in webpage (GAIKER)	PRESS release in webpage	CITIZENS	WEBSITE	http://www.gaiker.es/cas/Noticias/sensores-inalambricos-para-monitorizar-de-por-vida-los-aviones.aspx?tipo=detComunicacion&id=075b2383-1b5e-4a58-88d3-6b93a63174d9&origen=buscador&consulta=INFINITE&pagina=1	Delivered	8/7/2022
European project file in PARKE EUS web (GAIKER)	European project file in PARKE EUS web	EU_INSTITUTIONS	WEBSITE	http://www.gaiker.es/cas/proyectos_europeos.aspx	Delivered	3/7/2022
Kick off meeting new in LinkedIn (GAIKER)	Kick off meeting new in LinkedIn	CITIZENS	SOCIAL_MEDIA	https://www.linkedin.com/feed/update/urn:li:activity:6951116453685170176?updateEntityUrn=urn%3Ali%3Afs_feedUpdate%3A%28V2%2Curn%3Ali%3Aactivity%3A6951116453685170176%29	Delivered	Jun-22
Wireless sensors for lifetime aircraft monitoring new in AUTOMATIONFAIR web (IDEKO)	Wireless sensors for lifetime aircraft monitoring new in AUTOMATIONFAIR web	INDUSTRY	WEBSITE	https://www.automation-fair.com/2022/07/03/wireless-sensors-for-lifelong-monitoring-of-aircrafts/	Delivered	3/7/2022

PRESS REALEASE NEW IN APTE. ASOCIACIÓN DE PARQUES CIENTÍFICOS Y TECNOLÓGICOS DE ESPAÑA WEB (GAIKER)	PRESS REALEASE NEW IN APTE. ASOCIACIÓN DE PARQUES CIENTÍFICOS Y TECNOLÓGICOS DE ESPAÑA WEB	EU_INSTITUTIONS	PRESS_RELEASE	https://www.apte.org/sensores-inalambricos-monitorizar-vida-aviones	Delivered	25/07/2022
La aplicación de la inteligencia artificial en medicina. Sensores para monitorizar la "salud" de los aviones IN IVOOX WEB (IDEKO)	La aplicación de la inteligencia artificial en medicina. Sensores para monitorizar la "salud" de los aviones IN IVOOX WEB	CITIZENS	PRESS_RELEASE	https://www.ivoox.com/aplicacion-inteligencia-artificial-medicina-audios-mp3_rf_90068475_1.html	Delivered	20/07/2022
IDEKO lidera una iniciativa que monitorizará de por vida los aviones a través de sensores inalámbricos-FEDIT web (IDEKO)	IDEKO lidera una iniciativa que monitorizará de por vida los aviones a través de sensores inalámbricos-FEDIT web	EU_INSTITUTIONS	PRESS_RELEASE	https://fedit.com/2022/08/ideko-lidera-una-iniciativa-que-monitorizara-de-por-vida-los-aviones-a-traves-de-sensores-inalambricos/	Delivered	20/07/2022
IDEKO lidera el proyecto europeo INFINITE, que pretende desarrollar una tecnología basada en la incorporación de sensores inalámbricos en los primeros pasos de la fabricación de las estructuras-ELKARBIDE WEB (IDEKO)	IDEKO lidera el proyecto europeo INFINITE, que pretende desarrollar una tecnología basada en la incorporación de sensores inalámbricos en los primeros pasos de la fabricación de las estructuras-ELKARBIDE WEB	INDUSTRY	PRESS_RELEASE	https://www.elkarbide.com/es/groups/industry-40/ideko-lidera-el-proyecto-europeo-infinite-que-pretende-desarrollar-una-tecnolog%C3%AD	Delivered	14/07/2022
Notice publication in web Parke (technological parques of the Basque Country) (TAMAG)	Notice publication in web Parke (technological parques of the Basque Country)	EU_INSTITUTIONS	PRESS_RELEASE	https://parke.eus/es/gaiker-y-tamag-participan-en-el-consorcio-del-proyecto-europeo-infinite/	Delivered	14/07/2022
Press Release new in Empresa XXI magazine (GAIKER)	Press Release new in Empresa XXI magazine	INDUSTRY	PRESS_RELEASE		Delivered	15/10/2022

BIEMH2022 (IDEKO)		INDUSTRY	EXHIBITION	https://www.ideko.es/en/news/the-latest-advances-in-artificial-intelligence-precision-robotics-and-composites-new-developments-from-ideko-for-the-machine-tool-biennial	Delivered	
Press release in Composite World (AMRC)	Press release in Composite World (CW)	INTERNATIONAL_ ORGANISATION	PRESS_RELEASE	https://www.compositesworld.com/news/infinite-consortium-tackles-wireless-sensor-integration-for-life-long-aircraft-monitoring	Delivered	19/09/2022
Press release in Composite World (AMRC)	Press release in Composite World (CW)	INTERNATIONAL_ ORGANISATION	MEDIA_ARTICLE	https://cw.mydigitalpublication.com/compositesworld-january-2023/page-19	Delivered	Jan-23
Press release in the webpage from KOM release (AMRC)	Press release in webpage - KOM news	INDUSTRY	NEWSLETTER	https://www.amrc.co.uk/news/wireless-sensors-for-lifelong-monitoring-of-aircrafts	Delivered	8/12/2022
Press release - KOM news in LinkedIn (AMRC)	Press release in LinkedIn - KOM news	CITIZENS	SOCIAL_MEDIA	https://www.linkedin.com/posts/amrc_aerospace-manufacturing-technology-activity-7006588040403931136-GocG?utm_source=share&utm_medium=member_desktop	Delivered	8/12/2022
Press release published in Metrology News (AMRC)	Press release in Metrology News - KOM news	INTERNATIONAL_ ORGANISATION	PRESS_RELEASE	https://metrology.news/wireless-sensors-to-provide-lifelong-aircraft-structure-monitoring/	Delivered	13/12/2022
Press release published in Manufacturing Voices (AMRC)	Press release in Manufacturing Voices - KOM news	INTERNATIONAL_ ORGANISATION	PRESS_RELEASE	https://manufacturingvoices.co.uk/2022/12/wireless-sensors-for-lifelong-monitoring-of-aircrafts/	Delivered	7/12/2022
Press release published in JEC Composite - JEC Group (AMRC)	Press release published in JEC Composite - JEC Group - KOM news	INDUSTRY	PRESS_RELEASE	https://www.jeccomposites.com/news/wireless-sensors-for-lifelong-monitoring-of-aircrafts/	Delivered	14/12/2022

Press release published in Machinery Market (AMRC)	Press release published in Machinery Market (AMRC) - KOM news	INDUSTRY	NEWSLETTER	https://www.machinery-market.co.uk/news/33671/AMRC-supports-consortium-developing-wireless-sensors-for-aircraft	Delivered	12/12/2022
Project objectives (INFINITE)	We have started the year with enthusiasm and working hard to achieve the #objectives of the #INFINITE #project	INDUSTRY	SOCIAL_MEDIA	https://twitter.com/EuInfinite	Delivered	12/12/2022
Press release published in LINKEDIN (INFINITE)	Press Release published in LinkedIn channel-Wireless sensors for environmental sustainability and efficiency in the aerospace industry.	INDUSTRY	SOCIAL_MEDIA	https://www.linkedin.com/feed/update/urn:li:activity:6988074228012978176	Delivered	14/12/2022
3Month General Meeting new (INFINITE)	3Month General Meeting new published in LinkedIn channel	INDUSTRY	SOCIAL_MEDIA	https://www.linkedin.com/feed/update/urn:li:activity:6988075135731683328	Delivered	01/10/2022
Prelaunch of INFINITE website (INFINITE)	#INFINITE #euproject website is about to go live published on LinkedIn channel	INDUSTRY	SOCIAL_MEDIA	https://www.linkedin.com/feed/update/urn:li:activity:7004368324948029441	Delivered	2022
Interview to Fatma Omrani (INFINITE)	Interview to Fatma Omrani published in LinkedIn (INFINITE)	INDUSTRY	SOCIAL_MEDIA	https://www.linkedin.com/feed/update/urn:li:activity:7006682230886412288	Delivered	2022
Launching of INFINITE website (INFINITE)	We are proud to announce that #INFINITE #research #project has launched its webpage! published on LinkedIn channel	INDUSTRY	SOCIAL_MEDIA	https://www.linkedin.com/feed/update/urn:li:activity:7009080295433887744	Delivered	2022

Article on composite world magazine (INFINITE)	Composites world magazine gives visibility to the INFINITE - EU Project challenges published on LinkedIn channel	INDUSTRY	SOCIAL_MEDIA	https://www.linkedin.com/feed/update/urn:li:activity:7017148927690846209	Delivered	2022
Press release published in The Engineer (AMRC)	Press release in The Engineer- KOM news	INTERNATIONAL_ORGANISATION	PRESS_RELEASE	https://www.theengineer.co.uk/content/news/wireless-sensors-in-aircraft-structures-set-to-provide-lifetime-monitoring	Delivered	08/12/2022
Press release published in The Engineer (AMRC)	Press release in Microtech Ventures	INDUSTRY	SOCIAL_MEDIA	https://www.linkedin.com/posts/microtech-ventures_wireless-sensors-in-aircraft-structures-set-activity-7014587574371434496-iJ3O?utm_source=share&utm_medium=member_desktop	Delivered	08/12/2022
Teijin Carbon Europe JEC	Teijin will include Infinite pamphlets-a sign description and a MW bobbin at Teijin's JEC booth.	INDUSTRY	EXHIBITION		Delivered	25-26-27 April
TITANIA leads work package 6 of the INFINITE Project (TWITTER-TITANIA)	Publication on social media	CITIZENS	SOCIAL_MEDIA	https://twitter.com/Titania_aero/status/1582983575560863744	Delivered	20/10/2022
TITANIA leads work package 6 of the INFINITE Project (LINKEDIN-TITANI)	Publication on social media	INDUSTRY	SOCIAL_MEDIA	https://www.linkedin.com/feed/update/urn:li:activity:6988750442058932224	Delivered	20/10/2022
Dissemination of the website (TWITTER-TITANIA)	Publication on social media	CITIZENS	SOCIAL_MEDIA	https://twitter.com/Titania_aero/status/1602960725903040514	Delivered	14/12/2022

Dissemination of the website (LINKEDIN-TITANIA)	Publication on social media	INDUSTRY	SOCIAL_MEDIA	https://www.linkedin.com/feed/update/urn:li:activity:7008729132935081986	Delivered	14/12/2022
Titania studies the structural health of composite materials with INFINITE project (WEBSITE-TITANIA)	Publication on website	INDUSTRY	WEBSITE	https://titania.aero/titania-estudia-la-salud-estructural-de-los-materiales-compuestos-con-el-proyecto-infinite	Delivered	7/11/2022
Dissemination on INFINITE Conceptual video (AMRC)	Publication on social media	CITIZENS	SOCIAL_MEDIA	https://www.linkedin.com/feed/update/urn:li:activity:7051546499289079810/	Delivered	12/4/2023
Press release in Twitter (GAIKER)	Press release in Twitter	CITIZENS	SOCIAL_MEDIA	https://twitter.com/GAIKER_BRTA/status/1545346965541642240?s=20&t=QzsZmumyZKqtgeLVNvHmxw	Delivered	8/7/2022
Follow-up meeting new in LinkedIn (GAIKER)	Follow-up meeting in LinkedIn	CITIZENS	SOCIAL_MEDIA	https://www.linkedin.com/feed/update/urn:li:activity:7021757302835720192	Delivered	19/01/2023
Follow-up meeting new in Twitter (GAIKER)	Follow-up meeting in twitter	CITIZENS	SOCIAL_MEDIA	https://twitter.com/GAIKER_BRTA/status/1615990849996816385?s=20&t=uhXOouYyBJyshyMr87Qc-g	Delivered	19/01/2023
Project in website (GAIKER)	Project information	CITIZENS	WEBSITE	http://www.gaiker.es/cas/proyectos_europeos.aspx	Delivered	1/7/2022
TRANSFIERE, 12th European Meeting on Science, Technology and innovation" (TITANIA)	Meeting on science, technology and innovation	INDUSTRY	EXHIBITION	https://titania.aero/por-primera-vez-titania-impulsa-la-innovacion-en-el-foro-europeo-transfiere2023	Delivered	Feb-23

post about awareness of the project-INFINITE-LinkedIn	Publication on social media	CITIZENS	CITIZENS	https://www.linkedin.com/feed/update/urn:li:activity:7032316528763023360	Delivered	28/02/2023
launch of conceptual video of the project-INFINITE-linkedin	Publication on social media	CITIZENS	CITIZENS	https://www.linkedin.com/feed/update/urn:li:activity:7046139807307030528	Delivered	30/03/2023
launch of youtube channel of the project-INFINITE-linkedin	Publication on social media	CITIZENS	CITIZENS	https://www.linkedin.com/feed/update/urn:li:activity:7042448793748791297	Delivered	23/03/2023
General Meeting of Infinite (LINKEDIN-TITANIA)	Publication on social media	INDUSTRY	SOCIAL_MEDIA	https://www.linkedin.com/feed/update/urn:li:activity:7054429174567960576	Delivered	19/04/2023
General Meeting of Infinite (TWITTER-TITANIA)	Publication on social media	CITIZENS	CITIZENS	https://twitter.com/Titania_aero/status/1648702753420587008	Delivered	19/04/2023
launch of conceptual video of the project-INFINITE-twitter	Publication on social media	CITIZENS	CITIZENS	https://twitter.com/EuInfinite/status/1646524933785403394?s=20	Delivered	13/04/2023
launch of conceptual video of the project-IDEKO-twitter	Publication on social media	CITIZENS	CITIZENS	https://twitter.com/IDEKO_/status/1646522484068581380?s=20	Delivered	13/04/2023
Dissemination of the website (CAE SIMULATION & SOLUTIONS)	Publication on social media	CITIZENS	SOCIAL_MEDIA	https://www.linkedin.com/feed/update/urn:li:activity:7009080295433887744?utm_source=share&utm_medium=member_desktop	Delivered	12/20/2022

youtube channel of the project-INFINITE-linkedin (CAE SIMULATION & SOLUTIONS)	Publication on social media	CITIZENS	SOCIAL_MEDIA	https://www.linkedin.com/feed/update/urn:li:activity:7100088393795014656	Delivered	8/22/2023
First results of the FEM analysis (CAE SIMULATION & SOLUTIONS)	FEM results on LinkedIn	CITIZENS	SOCIAL_MEDIA	https://www.linkedin.com/feed/update/urn:li:activity:7102922174788702209	Delivered	8/31/2023
First results of the FEM analysis (CAE SIMULATION & SOLUTIONS)	FEM results in webpage	CITIZENS	WEBSITE	https://cae-sim-sol.com/2023/08/31/erste-ergebnisse-im-eu-projekt/	Delivered	8/31/2023
Dissemination of the website (Twitter - TITANIA)	Publication on social media	CITIZENS	SOCIAL_MEDIA	https://twitter.com/Titania_aero/status/1694248136661704869	Delivered	8/23/2023
Dissemination of the website (Linkedin - TITANIA)	Publication on social media	CITIZENS	SOCIAL_MEDIA	https://www.linkedin.com/feed/update/urn:li:activity:7100019979332272128	Delivered	8/23/2023
Dissemination of the website (Instagram - TITANIA)	Publication on social media	CIVIL_SOCIETY	SOCIAL_MEDIA	https://www.instagram.com/p/CwR1An6spwt/?utm_source=ig_web_copy_link&igshid=MzRlODBiNWFlZA==	Delivered	8/23/2023

Article in newspaper	Empresa XXI	INDUSTRY	PRESS_RELEASE	https://danobat.sharepoint.com/:b:/r/sites/INFINITE-Consortium/Shared%20Documents/WP7%20-%20Dissemination%20-%20Communication%20-%20Explotation/PUBLICATIONS/infinite-empresaxxi.pdf?csf=1&web=1&e=xfSEOH	Delivered	10/15/2022
Presentation of the project	Publication on GAIKER's newsletter	INDUSTRY	NEWSLETTER	http://www.gaiker.es/cas/noticias/sensores-inalambricos-para-monitorizar-de-por-vida-los-aviones.aspx?id=075b2383-1b5e-4a58-88d3-6b93a63174d9&origen=noticias%3futm_source%3dnewsletterseptiembre2022&utm_medium=email&utm_campaign=newsletter6&utm_content=primerenvio	Delivered	9/5/2022