



## **EXPRESSION OF INTEREST FOR EARLY ADAPTERS**

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# EXPRESSION OF INTEREST FOR EARLY ADOPTERS

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## 1 SECTION: INTRODUCTION

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The DiMAT project offers organizations an exciting opportunity to engage with and test cutting-edge open digital solutions designed for material manufacturing. This document outlines all the necessary information about DiMAT's "Expression of Interest for Early Adopters" (EoI).

The EoI invites organizations to step forward as early adopters, gaining early access to these innovative solutions. Early adopters play a key role in shaping the tools by providing valuable feedback during the testing phase, ensuring they meet real-world needs. This collaboration allows participants to influence the development process while exploring the benefits of the latest advancements in digital material manufacturing.

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### 1.1 CONTEXT

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The European society and industry are undergoing a historic transition, as it moves towards a greener and more digitally transformed future. With the global warming crisis and the impact of recent events like the pandemic, there is an urgent need for sustainable and resilient systems to become the norm. Despite the progress made in digital transformation in the manufacturing industry, the integration with material science and engineering is still lagging behind, especially when considering companies such as SMEs and mid-caps. This is especially significant considering that material costs form a large portion of production costs.

To overcome this challenge and drive material-based innovations, a comprehensive digital transformation of the manufacturing industry is necessary. This requires access to high-quality, efficient, cost-effective and optimized systems, including cloud infrastructure, model- and simulation-based twin technologies and data-driven approaches. The European Materials Modelling Council (EMMC) and the European Material Characterization Council (EMCC) have devised a strategic plan to enhance the benefits of computational tools for small and medium-sized enterprises (SMEs). The plan includes the development of MODA (Modelling Data) and CHADA (Characterization Data) for systematic and traceable representations, as well as Open Simulation Platforms (OSP) and Common Universal Data Structures (CUDS) to support interoperability.

Advanced materials drive innovation across industries, but their optimisation potential is limited to large companies with resources for computational research and tools. SMEs and mid-cap companies face barriers due to high cost and limited access to these resources.

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### 1.2 THE DIMAT PROJECT

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The DiMAT project aims to address this gap via developing Open Digital Tools with a set of advanced technologies for offering European SMEs and Mid-Caps an affordable (in terms of

cost, implementation and usability) full modelling, simulation and optimization system in each stage of the material value chain (design, processing and manufacturing) for improving quality, sustainability, effectiveness and competitiveness of materials. DiMAT will deploy 3 integrated Suites: 1) DiMAT Data and Assessment Suite: digital technologies for storing, sharing, representing and assessing materials data; 2) DiMAT Modelling and Design Suite: digital technologies for material design, in terms of their internal structure, properties and performance, in order to predict the material behaviour before manufacturing; 3) DiMAT Simulation and Optimization Suite: digital technologies for creating efficient materials manufacturing simulation processes and determining the behaviour of the material mechanical characterization models to be used in the AI training and prediction. The DiMAT Suites will be demonstrated in 4 Pilots of European designers and producers of different materials: textile, composite, glass and graphite.

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### 1.3 TEAM

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The DiMAT consortium is made up of 18 partners with different roles covering all the areas of expertise and demonstration required. The following is the list of all stakeholders grouped by their role in the project:

- Industrial partners (USER): NTP (Renewable Plastic Compounds), ACCELI (Unmanned Aerial Vehicles), HEGLA (Glass Manufacturing Processes), TECHNORED (Melt Spinning Company), CETCOMP (Composite materials), IMERYS (Graphite and Carbon Black)
- Technology providers (TECH): CETMA (Research and Technology organization), DRAXIS (Environmental Technologies), AMS (Advanced Material Simulations), ROPARDO (Digitalization Solutions and integration)
- Research & development (R&D): UPV (Technical University), Fraunhofer (Applied research organization), AITEX (Textile research institute), NTUA (Technical University), SUPSI (University of Applied Sciences), CERTH (Research Institute)
- Specialist Companies: F6S (Dissemination and Exploitation), DIN (Standardisation)

## DiMAT consortium



Figure 1 DiMAT Consortium

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## 2 SECTION: DIMAT SOLUTIONS

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The DiMAT Project develops three DiMAT Suites, each consisting of three toolkits, resulting in a total of nine toolkits.

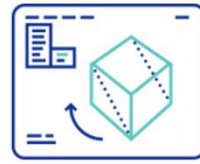




### DiMAT Data and Assessment Suite - DjDAS

DiMAT Cloud Material Database  $Di^{CMDB}$   
DiMAT Knowledge Acquisition Framework  $Di^{KAF}$   
DiMAT Materials Environmental & Cost Life Cycle Assessment -  $Di^{MEC-LCA}$

Set of digital tools powered by semantic technologies that provide data storage, management and utilization solutions. These tools work together to offer a centralized repository for materials data, enable knowledge acquisition and assess materials based on their environmental impact and cost.



### DiMAT Modelling and Design Suite - DjMDS

DiMAT Materials Design Framework -  $Di^{MDF}$   
DiMAT Materials Modeler -  $Di^{MM}$   
DiMAT Materials Designer -  $Di^{MD}$

Set of digital tools for material design that allows for prediction of material behavior before manufacturing.  
  
These tools work together to enable material design in terms of internal structure, properties and performance.



### The DiMAT Simulation and Optimization Suite - DjSOS

DiMAT Materials Mechanical Properties Simulator -  $Di^{MMS}$   
DiMAT Materials Processing Simulator -  $Di^{MPS}$   
DiMAT Digital Twin for Process Control -  $Di^{DTPC}$

Set of digital tools for material manufacturing simulation and material behaviour prediction. These tools work together to create efficient simulation processes and determine the behavior of mechanical characterization models for use in AI training and prediction.

Figure 2 DiMAT Suites and DiMAT toolkits

## 2.1 DIMAT SOLUTIONS DESCRIPTION

The DiMAT Data and Assessment Suite is a set of digital tools powered by semantic technologies that provide modern data management, materials and process knowledge provision and assessment solutions. It consists of three tools: the DiMAT Cloud Materials Database ( $Di^{CMDB}$ ), the DiMAT Knowledge Acquisition Framework ( $Di^{KAF}$ ) and the DiMAT Materials Environmental and Cost Life Cycle Assessment ( $Di^{MEC,LCA}$ ). These tools work together to offer a centralized repository for managing all kind of materials and process data, enable knowledge acquisition and assess materials based on their environmental impact and cost over their life cycle.

Table 1 DiMAT Data and Assessment Suite

Toolkit name	Short description
Cloud Materials Database ( $Di^{CMDB}$ )	System based on semantic technologies for managing all kind of materials and process data in a FAIR

	<p><sup>1</sup>manner. CMDB aims at facilitating the integration of heterogeneous data into one central instance, linking of datasets, data provision, exploration, and data processing.</p>
<p>DiMAT Knowledge Acquisition Framework – (Di<sup>KAF</sup>)</p>	<p>A toolkit for representing and managing information related to the materials and manufacturing processes along with their characteristics and their relationships in the form of a Knowledge Graph (KG). Users can gain insights through exploration and analytics over the stored data.</p>
<p>DiMAT Materials Environmental and Cost Life Cycle Assessment (Di<sup>MEC-LCA</sup>)</p>	<p>MEC-LCA is a tool designed for easy interpretation of environmental and cost impacts through graphical outputs. It is relevant for stakeholders interested in environmental sustainability across markets. MEC-LCA leverages established LCA methodologies and standards to ultimately provide dynamic insights into environmental and financial hotspots, supporting strategic decision-making without requiring in-depth technical knowledge of Life Cycle Assessment.</p>

The DiMAT Modelling and Design Suite is a set of digital technologies for material design that allows for prediction of material behaviour before manufacturing. It consists of three tools: the DiMAT Materials Design Framework (DiMDF), the DiMAT Materials Modeler (DiMM), the DiMAT Materials Designer (DiMD). These tools work together to support engineers in

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<sup>1</sup> i.e. adhering to the FAIR data principles (Findability, Accessibility, Interoperability, Reusability).

materials modelling and design tasks aiming to optimize the internal structure of materials with respect to their properties, and performance.

Table 2 DiMAT Modelling and Design Suite

Toolkit name	Short description
DiMAT Materials Design Framework – (Di <sup>MDF</sup> )	An ontology-based open knowledge system to support the materials modelling and design tasks (data exploration, identification of correlations in data and materials modelling knowledge provision). It is an App running on DiMAT Cloud Materials Database and uses it for data provision and storage.
DiMAT Materials Modeler – (Di <sup>MM</sup> )	A machine learning-based materials modeling toolkit to accelerate materials development through smart data analysis, property prediction, and optimization. It combines advanced data preprocessing, exploratory analysis, and AI-driven modeling to reduce trial-and-error iterations in materials design. The application provides a user-friendly interface for materials scientists to process their data, extract insights, and make data-driven decisions. .
DiMAT Materials Designer – (Di <sup>MD</sup> )	A user-friendly tool for calculating and comparing the mechanical and physical properties of complex materials via virtual testing, executed through remote numerical simulations.

The DiMAT Simulation and Optimization Suite is a set of digital tools for material manufacturing simulation and material behaviour prediction. It includes the DiMAT Materials Mechanical Properties Simulator (Di<sup>MMS</sup>), DiMAT Materials Processing Simulator (Di<sup>MPS</sup>),

DiMAT Digital Twin for Process Control (Di<sup>DTPC</sup>). These tools work together to create efficient simulation processes and determine the behaviour of mechanical characterization models for use in AI training and prediction.

Table 3 DiMAT Simulation and Optimization Suite

Toolkit name	Short description
DiMAT Materials Mechanical Properties Simulator - (Di <sup>MM5</sup> )	Di <sup>MM5</sup> is a new open-source software solution for modelling mechanical problems, featuring a user-friendly interface and intelligent algorithms that provide optimal configuration suggestions.
DiMAT Materials Processing Simulator (Di <sup>MPS</sup> )	A toolkit designed to help define manufacturing conditions and concepts while evaluating results and analyzing requirements in an easy and efficient way..
DiMAT Digital Twin for Process Control (Di <sup>DTPC</sup> )	A toolkit based on the creation of Digital Twins (DTs). The twins act as abstractions of physical entities (devices, materials, etc.). Virtualized functions that provide simulation and control functionalities to the end-users are supported through the DTs.

## 2.2 DIMAT PILOTS

DiMAT demonstrates its results in four pilot use cases that represent four relevant material production scenarios. The pilots are implemented under real-world conditions to show the applicability and impact of the project and its results.

## PILOTS DESCRIPTION



Figure 3 DiMAT Pilots

### 2.2.1 Pilot 1: Synthetic Textiles Production

NaturePlast SAS (NTP) produces and markets innovative renewable plastic compounds that address problems not resolved by current biobased or biodegradable and unprocessed plastics. The compounds are composed of various biobased and/or biodegradable polymers, additives and other components that improve mechanical properties, thermal stability and lifespan. On the other hand, Tecnología Redera SL (TECNORED) is a manufacturer of a wide range of fishing nets, construction safety nets, threads and ropes. NTP, as the polymer formulation producer, prepares and tests new formulations that incorporate functional additives for melt spinning companies that produce synthetic yarns (AITEK despite being a Research Centre, takes this role in the project). These yarns are used by processing companies such as TECNORED. The aim is not only to prepare new formulations, but also to ensure that the new compounds are processable downstream by the companies in charge of processing the polymers into final products. In this sense, the spinning companies (producers of synthetic filaments like PP and PET) must use formulations that not only provide new functionality to the products, but also have proper processing features such as good rheology in the molten state and the absence of agglomerates in the polymer formulation.

DiMAT will support the development of new compounds and other materials in the manufacturing industry. The first suit of DiMAT (CMDB, KAF, MECLCA) will be used to design new polymers and the DiMAT Materials Processing Simulator (MPS) will simulate the production process, allowing cost reduction and improving the generation of new

compounds. The simulation will provide a high level of certainty for companies to invest in the development of a new product.

DiMAT will also assist synthetic yarn producers, spinning companies and fishing nets producers in simulating their products and production processes, ensuring that their products meet the required specifications before manufacturing. The simulation will help to understand the behaviour of the polymer material during the compounding, extrusion, spinning processes for producing filaments, which will be used to make threads, ropes and fishing nets with the desired mechanical properties. The simulation and modelling activities will be further validated with real tests (e.g., rheology, dispersion of additives, filter tests, mechanical properties, etc.) and compared with the results obtained by the DiMAT Materials Mechanical Properties Simulator (MMS). After the simulations are done, a validation process and material testing will be conducted during the development and execution of the pilots to verify that the results match the simulation outcomes.

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### 2.2.2 Pilot 2: UAVs Manufacturing with Advanced Composite Materials

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Accelience LTD (ACCELI) is a Cyprus-based company specializing in cutting-edge R&D activities aimed at boosting innovation capital, enhancing products and aligning services with the latest technological advancements. The company has been focusing its efforts on the development of Unmanned Aerial Vehicles (UAVs), haptic technology and other robotic solutions. ACCELI is currently manufacturing its own UAV prototypes, each with unique characteristics designed to meet the diverse needs of various industries, leveraging the latest advancements in AI and Robotics Engineering.

Cetma Composites Srl (CETCOMP) is an innovative SME that leverages the multiannual expertise of CETMA Research Centre, a non-profit research centre with 27 years of experience in material studies, processes, techniques and methods. CETCOMP's mission includes the production and sale of composite materials for sports, furniture, leisure and aerospace industries. CETCOMP is ACCELI's main supplier and CETMA is becoming a leading reference for companies seeking to invest in composite material innovation, with a particular focus on out-of-autoclave technologies. The research centre has 4,000 square meters of laboratory and office space and employs 80 researchers, engineers, designers and project managers.

The pilot aims to investigate the potential use of renewable and recyclable materials for drone structures.

The DiMAT Materials Design Framework (MDF) and DiMAT Materials Designer (MD) will be employed to design and evaluate these materials, utilising CETCOMP's composite processing technologies and CETMA's expertise in areas such as compression moulding, prepreg OoA and resin transfer moulding. The DiMAT Digital Twin for Process Control (DTPC) and DiMAT Material Processing Simulator (MPS) will reduce environmental impact by monitoring key material processes in real-time and optimising them for efficiency. Quality will be determined

through a prototyping phase and critical analysis of results, including performance analysis, Life Cycle Cost (LCC) and Life Cycle Assessment (LCA) using the DiMAT Materials Environmental and Cost Life Cycle Assessment (MEC-LCA).

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### 2.2.3 Pilot 3: Innovative Glass Forming Process in Digital Environment

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Hegla-Hanic GmbH (HEGLA) is a German company specializing in the development of digital tools for glass manufacturing processes, with a focus on logistics, ERP and control systems. They aim to use data-driven approaches and simulations to accelerate the innovative design and implementation of the glass forming process. The European glass forming industry is projected to grow at a yearly rate of 4.1% over the next five years and Fraunhofer has developed an innovative laser-based glass bending process that is highly energy-efficient and results in high-quality products. The new technology has the potential to lead to inventions in various fields such as civil engineering, architecture, car industry and consumer goods.

The DiMAT solutions are aimed to improve materials development and production processes through the use of simulation and modelling tools and by providing a comprehensive database of materials properties. This will lead to cost reduction, better product quality and increased sustainability. The project will use various tools including the DiMAT Materials Processing Simulator (MPS), DiMAT Materials Mechanical Properties Simulator (MMS) DiMAT Material Design Framework (MDF), DiMAT Materials Environmental and Cost Life Cycle Assessment (MEC-LCA) and DiMAT Digital Twin for Process Control (DTPC), as well as the DiMAT Cloud Materials Database (CMDB) and DiMAT Knowledge Acquisition Framework (KAF). Key performance indicators (KPIs) will be used to measure the success of the project, including improvements in data consistency and safety, thermal properties, material design, on-time completion of products, resilience against economic impact and reduction in prototyping procedures.

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### 2.2.4 Pilot 4: Speeding-up the New Product Development

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Imerys Graphite & Carbon is a Swiss company with a history of delivering high-tech carbon-based solutions to manufacturing and industry. They produce synthetic and natural graphite, as well as conductive carbon black for mobile energy applications. Their Technology and Innovation Centre in Bironico, Switzerland, studies the use of graphite and carbon across a range of applications, including primary and secondary batteries, fuel cells, polymers, brakes and clutches, carbon brushes, powder metallurgy and refractories. IMERYYS is a global leader in innovative graphite and carbon-based solutions for sustainable mobile energy applications and invests significant R&D resources in the development of solutions for battery and energy storage technologies, with a team of 30 researchers and 3 R&D facilities dedicated to tailored and advanced solutions.

The implementation of DiMAT Suites is expected to improve and expedite IMERYYS's product development, process and application development, as well as obtain LCA information more

efficiently and at lower costs. The DiMAT Suites will be user-friendly, allowing for easy use by vertical experts without extensive training. The DiMAT Materials Knowledge Acquisition Framework (KAF) will simplify data analysis and acquisition by characterizing and linking data through a Knowledge Graph (KG). The DiMAT Materials Modeler (MM) and DiMAT Materials Designer (MD) will speed up new product development and reduce the need for physical samples and application tests. The DiMAT Materials Processing Simulator (MPS) will help identify key process parameters on finished product characteristics and suitability for specific applications. The DiMAT Materials Environmental and Cost Life Cycle Assessment (MEC-LCA) will enable new product development managers to accurately consider sustainable impacts throughout the design process.

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### 3 DIMAT EOI FOR EARLY ADOPTERS

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The DiMAT Expression of interest for early adopters is a fundamental part of the overall project. Its primary objective is to engage early adopters and external end-users to test and validate the proposed solutions. This initiative focuses on understanding user needs to inform the development and integration of the final products effectively. Additionally, it seeks to foster a community of professionals in materials design, modeling, and simulation, enabling knowledge exchange, access to cutting-edge solutions, and the discovery of potential synergies among like-minded peers.

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#### 3.1 EOI FOR EARLY ADOPTERS' GOALS

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**The Eoi for early adopters has four key goals:**

- Engage early adopters and end-users.
- Gather targeted feedback through hands-on interaction with DiMAT solutions.
- Refine the product-market fit for optimized alignment with industry needs.
- Provide expert support to organizations striving to streamline and enhance material design and production processes.

**Participating entities will support the validation of the DiMAT solutions in terms of:**

- Usability
- Adaptability of the toolkit across different businesses
- Integration in the company workflows/business processes
- Indicating additional functionalities to support users' experience
- Overall validation of the DiMAT solutions



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## 3.2 ELIGIBLE APPLICANTS

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### The call targets three main groups of organizations:

1. Material manufacturing SMEs working in the following domains:
  - Materials science and engineering;
  - Materials manufacturing;
  - Environmental compliance and sustainability;
  - Material innovation and product development;
2. Scale ups in:
  - Materials manufacturing;
  - Advanced materials development;
3. Educational and Research organizations:
  - Universities
  - Research labs,
  - Educational institutions offering programs in material science and engineering

### Organizations can come from a variety of industries, including but not exclusive to:

- Polymers (Plastics)
- Composite materials
- Graphite
- Glass

The technical knowledge of the professionals in the programme can be from medium to high. The participants should have the capacity to adequately assess the solutions both in terms of functionality and in terms of business indicators such as return on investment if such a solution is integrated in the company workflow.

Table 4 Basic requirements to be provided by the applying organization for testing and validation

Basic requirements for successful testing and validation of the DiMAT solutions:
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DiMAT Cloud Materials Database	Familiarity with data management and analysis is required
DiMAT Knowledge Acquisition Framework	Provision of data about materials (properties, desired states), business processes (steps in the manufacturing process, devices employed, etc.) should be provided.
DiMAT Materials Environmental and Cost Life Cycle Assessment	There are no specific access or equipment requirements for the toolkit itself, In order to conduct the environmental and cost LCA assessments, data provision is required which is a collaborative process between the client and DRAXIS.
DiMAT Materials Design Framework	Familiarity with data management and analysis is required. Basic experience in materials modeling and simulation
DiMAT Materials Modeler	<p>There are no specific hardware requirements for the toolkit itself as it runs as a web application. However, to effectively utilize DiMM, users must provide properly structured data with input data in CSV format with columns tagged using specific prefixes:</p> <ul style="list-style-type: none"> <li>• MAT_ for material parameters</li> <li>• PROC_ for process parameters</li> <li>• PERF_ for target/performance parameters</li> <li>• HIDDEN_ for parameters that may not apply to all materials</li> </ul>
DiMAT Materials Designer	The user should be a mechanical or simulation engineer with a general knowledge of composite materials.
DiMAT Materials Mechanical Properties Simulator	There are no specific hardware requirements for the toolkit itself. However, users should have knowledge of mechanical computing to interpret the output and possess experience with atomistic or finite element software to maximize the toolkit's utility.
DiMAT Materials Processing Simulator	There are no specific hardware requirements for the toolkit. However, users' computers should comply with the minim toolkit requirements. The user must have knowledge of materials and production processes replicated

DiMAT Digital Twin for Process Control	The user should have sensors or other IoT devices installed in their site and these devices should be able to transmit data over the Internet.
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### 3.3 DESIGN OF THE PROGRAMME

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The EoI for early adopters' submission window is open for two months starting from **17 December 2024 up until 21 February 2025, 17h00 CET.**

During this period interested entities can apply using the short application form available at: <https://www.f6s.com/dimat-community/apply>

Up to five organizations will be selected to participate in the programme for early adopters which will last for a duration of two months.

**During a two months programme, held in March and April 2025, the selected entities will:**

- Participate in up to 3 hands on demonstrations
- Have 1 session with DiMAT experts to identify which DiMAT solutions are relevant for their business and process development
- Test the relevant solutions with the support of DiMAT experts via up to 3 – 1-hour meetings
- Participate in 2 interview sessions (one in the beginning and one in the end of the programme)
- Work with a dedicated expert on enhancing their digitalization strategy by utilizing relevant DiMAT solutions (Final expert meeting at the end of the collaboration)

Over the course of two months, participating organizations will engage in hands-on demonstrations of the solutions, offering feedback on their operational and business needs. They will also interact with and validate the Suites and toolkits provided. At the conclusion of this short-term program, interested companies will have the opportunity to sign a Letter of Intent, agreeing on access and integration options with the technology provider. Participants in the program will benefit from early access and preferential terms as members of the DiMAT community.

The DiMAT programme for Early adopters is fully remote.

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## 4 BENEFITS FOR EARLY ADOPTERS

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The participating organizations will receive exclusive benefits, including:

**Priority Access:** Gain early access to cutting-edge digitalization technologies designed to revolutionize materials science, engineering and manufacturing.

**Tailored Expertise:** Meet leading European organizations in materials science and engineering and receive personalized support and mentorship to optimize and elevate your organization's materials development and manufacturing processes.

**Enhanced Visibility:** Benefit from increased marketing exposure through a dedicated article and prominent positioning on the DiMAT website and social media channels.

**Community:** Become part of the DiMAT community. Interact, exchange knowledge, find synergies and get value from a community of peers in the fields of materials science and engineering as well as materials manufacturing.

These will position your organization among the leaders in adopting state-of-the-art innovations and will support you in connecting with a broader audience.

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## 5 HOW TO APPLY

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The submission will be done through the F6S platform using the following link: <https://www.f6s.com/dimat-community/apply>. Applicants are required to register a profile at F6S to submit a proposal.

NOTE: Please note that after application submission, editing is not possible. If the applicant discovers an error in the proposal and provided the call deadline has not passed, the applicant may request the DiMAT team to re-submit the proposal. To request a resubmission, you are required to send an email to [info@dimat-project.eu](mailto:info@dimat-project.eu) with a message titled: RESUBMISSION REQUEST. However, the DiMAT team does not guarantee that a resubmission is feasible in case the request for resubmission is not received by the at least 48 hours before the call deadline.

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## 6 EVALUATION PROCESS

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The evaluation process is done in two steps:

Step 1: Eligibility check

Step 2: DiMAT Expert evaluation

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### 6.1 ELIGIBILITY CHECK

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Applicants to the call for early adopters will initially be verified against several eligibility criteria.

The check will verify:

Application reception: via F6S platform and by the defined deadline.

- Existence of a legal entity in a Horizon Europe eligible country
- Alignment with DiMAT EoI for early adopters – (current document)
- Type of entity: The entity represents an organization mentioned in Section 3.2 of the current document
- The application is written in English [Y/N]
- The application is submitted prior to the deadline

The eligible applications will move to the next stage. The non-eligible applicants will be informed by email.

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## 6.2 EXPERT EVALUATION

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The eligible applications will be evaluated by the DiMAT consortium following four main criteria:

- Alignment with the DiMAT EoI for Early adopters' goals
- Availability and commitment of the organization to participate in the foreseen activities for a duration of two months
- Digitalization needs of the company corresponding to the available DiMAT solutions
- Willingness of the company to test and provide feedback on the user experience, integration and usability of the DiMAT solutions

Applications will be scored based on the aforementioned criteria using the following ranking:

0 = Fail: The application fails to address the criterion or cannot be judged due to missing or incomplete information.

1 = Poor: criterion is inadequately addressed or there are serious inherent weaknesses.

2 = Fair: Application broadly addresses the criterion, but there are significant weaknesses.

3 = Good: Application addresses the criterion well, but a few shortcomings are present.

4 = Very good: Application addresses the criterion very well, but a small number of shortcomings are present.

5 = Excellent: Application successfully addresses all relevant aspects of the criterion. Any shortcomings are minor

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### 6.3 SELECTION

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The primary rule for ranking and selection will be the highest ranked applications. However, the DiMAT consortium might have fair reasons for objecting to a specific third party, like the alignment with DiMAT goals and scope, fair distribution among the selected DiMAT solutions for testing among the participating organizations, the ability to achieve the highest impact possible, competition, as well as the existence of significant ethical concerns or a potential conflict of interest. Therefore, the DiMAT consortium reserves the right to selected the next-ranked proposal.

Selected proposals will be notified and will receive an acceptance letter.

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### 6.4 LETTER OF COMMITMENT SIGNATURE

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The selected applicants will be required to sign a Letter of Commitment (see Annex 1: Letter of Commitment Template), confirming their interest and commitment to participate in the short-term programme.

Once all Letters of Commitment are signed, F6S will provide detailed information about the two-month programme and host an onboarding webinar to officially launch the DiMAT Early Adopters' Programme.

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## 7 DATA PROTECTION & CONFIDENTIALITY

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The following data protection and confidentiality rules apply:

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### 7.1 DATA PROTECTION

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To process and evaluate applications, the DiMAT consortium will need to collect Personal Data. F6S Network Ireland Limited will act as Data Controller for personal data submitted through the F6S platform for these purposes. Please see the privacy policy [here](#).

A Data Protection Officer (DPO) has been appointed by F6S to ensure compliance with data protection regulations, such as the General Data Protection Regulation (GDPR), and that personal data is collected, processed, and stored in a secure manner.

The F6S platform's system design and operational procedures ensure that data is managed in compliance with The General Data Protection Regulation (EU) 2016/679 (GDPR). Each

applicant will accept the F6S terms to ensure coverage. Please refer here to review the F6S platform's privacy policy and data security policy.

Apart from the F6S platform, data will also be stored in the F6S Google Drive, and in the project repository on SharePoint, managed by Universitat Politècnica de València – acting as the technical manager of the DiMAT project.

The DiMAT consortium must retain generated data until five years after the balance of the DiMAT consortium project is paid or longer if there are ongoing procedures (such as audits, investigations or litigations).

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## 7.2 CONFIDENTIALITY

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During the implementation of the Early adopter's programme activities and for five years after the end of the DiMAT project, the parties must keep confidential any data, documents, invoices or other material (in any form) that is identified as confidential information.

If a selected applicant requests, the Commission and the DiMAT Consortium may agree to keep such information confidential for an additional period beyond the initial five years.

Over the two-month collaboration, participating organizations may share process data with solution providers to utilize the tools and apply algorithmic processes. When both parties agree to exchange such data, non-disclosure agreements will be signed. Any information designated as confidential and disclosed during the program will be used solely for the implementation of activities within the program.

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## 8 TIMELINE

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**Expression of Interest for early adopters launch:** 17 December 2024

**Submission deadline:** 21 February 2025

**Selecting participating organizations:** 5 March 2025

**Collaboration period:** 10 March – 30 April 2025

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## 9 CONTACT

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The DiMAT Consortium provides the following support:

F6S Online Q&A: <https://www.f6s.com/dimat-community/discuss>

F6S support team (for any technical issues with the F6S platform): support@f6s.com

More info at: <https://dimat-project.eu/community/>

For extraordinary communication needs, please contact us at: [info@dimat-project.eu](mailto:info@dimat-project.eu)



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## ANNEX 1 LETTER OF COMMITMENT

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### DIMAT EXPRESSION OF INTEREST FOR EARLY ADOPTERS

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#### LETTER OF COMMITMENT

The undersigned representing the following legal person:  
[company\_representatives]

Full official company name:  
[company\_name]

Full official company address:  
[company\_address]

VAT registration number:

#### **Certifies that:**

- Is committed to participate in the above-mentioned programme activities described
- As per the programme timeline.
- Has or will have the necessary resources as and when needed to carry out its involvement in the above-mentioned programme.
- Acknowledges that DiMAT only uses information shared by the organisation for the purposes of the project and all rights (including Intellectual Property Rights) are kept exclusively by the applicant. DiMAT will not disclose any information to any third parties not directly involved in DiMAT activities that the organization is taking part in.
- Agrees that DiMAT has the right to use the organisation's image and profile, and that of their team joining the activities, strictly for communication and dissemination activities, media publications and reporting to the EC, as well as to inform of future events and activities, strictly related to the DiMAT project and within the scope of the programme.

- Will provide feedback and testimonials of their participation by answering the DiMAT surveys and participating in the scheduled interviews in the timeline set by the DiMAT team
- Will not do anything to bring the DiMAT project into dispute.
- Acknowledges that DiMAT does not accept liability for the loss or damage of any personal items.

**Declares that:**

is not in one of the following situations:

a) it is bankrupt or being wound up, is having its affairs administered by the courts, has entered into an arrangement with creditors, has suspended business activities, is the subject of proceedings concerning those matters, or is in any analogous situation arising from a similar procedure provided for in national legislation or regulations.

b) it or persons having powers of representation, decision making or control over it have been convicted of an offence concerning their professional conduct by a judgment which has the force of res judicata.

c) it has been guilty of grave professional misconduct proven by any means which the contracting authority can justify including by decisions of the European Investment Bank and international organizations.

d) it is not in compliance with its obligations relating to the payment of social security contributions or the payment of taxes in accordance with the legal provisions of the country in which it is established or with those of the country of the contracting authority or those of the country where the contract is to be performed.

e) it or persons having powers of representation, decision making or control over it have been the subject of a judgment which has the force of res judicata for fraud, corruption, involvement in a criminal organization or any other illegal activity, where such illegal activity is detrimental to the Union's financial interests.

f) is subject to an administrative penalty for being guilty of misrepresenting the information required by the contracting authority as a condition of participation in a grant award procedure or another procurement procedure or failing to supply this information or having been declared to be in serious breach of its obligations under contracts or grants covered by the Union's budget.

**By signing this document, I declare that:**

- a) I hereby declare that I am authorized to represent the above-mentioned organization;
- b) I and the above organization, that I legally represent, are aware and fully accept all conditions and rules of the DiMAT project and Expression of interest for early adopters outlined in this document
- c) I and the above organization are fully committed to participate in the EoI for early adopters programme and will be actively involved in the activities as per Section 3.3 of the DiMAT “EoI for early adopters” Guidelines for applicants
- c) I am aware that if I fail to comply with any of the terms listed above, my organisation participation in the DiMAT programme activities could be denied.

Full name:  
[signer\_full\_name]

Signature and stamp  
[signer\_signature]

Done at (place)