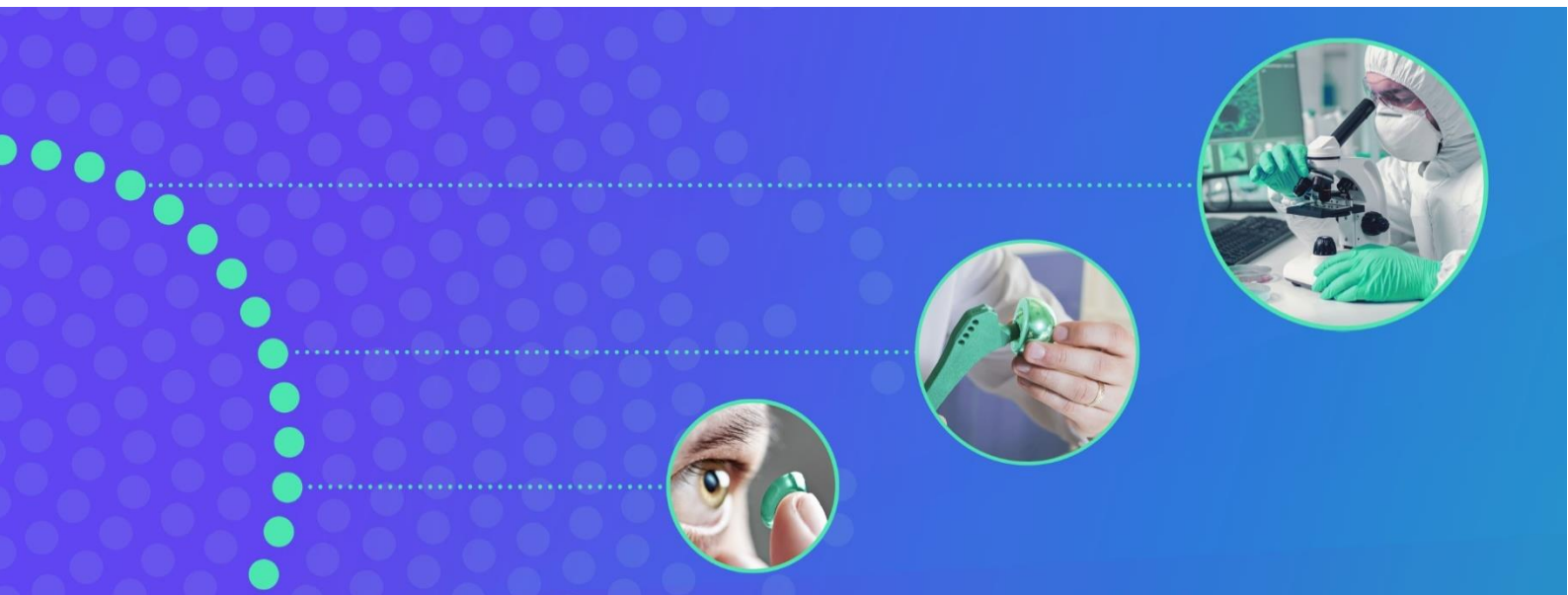




MINDS & SPARKS



BIOMATDB

ADVANCED DATABASE FOR BIOMATERIALS WITH DATA ANALYSIS AND VISUALISATION TOOLS EXTENDED BY A MARKETPLACE WITH DIGITAL ADVISORS

Grant Agreement: 101058779

D6.2 DEC plan and DEC materials (Package 1)

Additional Report



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Executive Summary

This report, "DEC plan and DEC materials (Package 1)", summarizes the channels, methods, means and activities that are planned to maximize the impact of the BIOMATDB project through continuous dissemination and exploitation operations and adds to D6.1 "Awareness raising measures via the project info website, the BIOMATDB social media channels and continuous communication activities". The dissemination efforts of the project comprise identifying the target groups and stakeholders in the context of the BIOMATDB project and subsequently the planning, performance and reporting of all dissemination activities. The exploitation efforts serve to ensure the impact of the project beyond the project duration. For this purpose, a targeted exploitation strategy was developed and exploitation actions are defined, to be further monitored and used to build D6.4, "Exploitation plan including market strategies and business models" later in the project. To ensure the high impact of the BIOMATDB project, all partners are actively involved in the dissemination and exploitation activities and such responsibilities are shared between the consortium partners. In addition, the BIOMATDB project searches for and is in exchange with related projects as cooperation partners, that will be further leveraged during the project's duration. Finally, the BIOMATDB project established several tools for the monitoring and evaluation of the dissemination and exploitation efforts.

A variety of tools, channels and activities will ensure that the BIOMATDB project can raise awareness about its activities and progress among all relevant target groups and stakeholders. It will also demonstrate how the EU funding will eventually support the biomaterials and medical device market by I) creating networks of relevant stakeholders, II) establishing synergies with the industry for future exploitation, III) creating collaboration and exchange with other relevant EU projects, and IV) ensuring engagement, participation, and contribution to project conferences, workshops and other online and offline activities, both by the consortium partners and the external stakeholders.

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Acronyms & Abbreviations

Term	Description
ATMP	Advanced therapy medicinal product
CSA	Coordination & Support Action
DEC plan	Dissemination, Exploitation and Communication plan
DoA	Description of Action
HRB	Horizon Results Booster
KPIs	Key Performance Indicators
PWS	Project website
R&D	Research & Development
SME	Small and Medium Enterprises
WP	Work Package

1 Introduction

1.1 Overview

The extensive research on novel biomaterials has resulted in a huge variety of relevant materials and a corresponding need for tools that can support companies and end users to navigate and position themselves in this growing market and to evaluate the suitability of biomaterials for use in medical devices or advanced therapies. Within this scope, the BIOMATDB project is funded by the European Commission as part of the Horizon Europe framework programme and the call „A digitised, resource-efficient and resilient industry 2021 (HORIZON-CL4-2021-RESILIENCE-01)“. Within a period of 30 months, BIOMATDB aims to establish a biomaterials database, an informational marketplace and a label of biocompatibility to support the biomaterials and medical device market. Visualisation tools, flexible data analysis, intelligent matching tools and step-by-step decision support through digital advisors will ensure that suppliers and demanders of biomaterials can derive the greatest possible benefit from these platforms.

The BIOMATDB project will be realized by a consortium of twelve partners from eight countries. The consortium comprises experienced software developers and data engineers, biomaterial institutes and research organisations, medical industry networks and biomaterial research clusters. Clinics and medical organisations will act as expert and demonstration partners.

The project is coordinated by SYNNO GmbH (Austria) and the partners include, next to MINDS & SPARKS GmbH (Austria), Barcelona Supercomputing Center (Spain), University Of Oslo (Norway), Universitat Politècnica De Catalunya (Spain), Tampere University (Finland), West Pomeranian University Of Technology, Szczecin (Poland), Business Council Of The Center Region / Chamber Of Commerce (Portugal), Clust-ER Health (Italy), National University Of Ireland, Galway (Ireland), Hospital Infantil Universitario Niño Jesús (Spain), and ECHAlliance (Ireland).

As an addition to the consortium, three outstanding expert partners are also engaged:

- Dr. Osnat Hakimi, PhD in biomedical materials, the initiator and leader of “DEBBIE: The Database of Experimental Biomaterials and their Biological Effect”, a H2020 funded project to develop an open access database of biomaterials;
- DEBBIE collaborator Carla V. Fuenteslópez, engineering science PhD student at University of Oxford;
- as well as Prof. Yannis Missirlis, biomaterial pioneer and network initiator, involved in research in the area of biomaterials and biomechanics for 45 years, a Fellow of the International Union of Societies for Biomaterials Science and Engineering (IUSBSE).

Furthermore, 21 research institutes, hospitals, medical associations and networks will act as expert and/or demonstration partners during the requirements analyses to validate the outcomes and to ensure the sustainability of the BIOMATDB project. The technical outcomes of the project and the data processing methods will be tested and approved by practitioners in cooperation with the EC funded Open Innovation Test Beds MDOT, SAFE-N-MEDTECH and TBMED.

This deliverable is a dynamic document which will be updated in several iterations in order to reflect and introduce upcoming opportunities or challenges related to the dissemination and exploitation of

the project. It highlights selected means, channels, methods and activities for maximising the impact of the project and its practical outcomes.

To successfully disseminate the project's outcomes, BIOMATDB will aim to:

- Identify the target groups and stakeholders for BIOMATDB and its outcomes;
- Define the way of planning, performing and reporting all the dissemination tools and activities, both externally and internally, in order to ensure the highest impact of the project results;
- Allocate the responsibilities of the BIOMATDB consortium partners and create a community of cooperation and exchange with related (sister) projects;
- Define a process for monitoring and evaluating the dissemination efforts.

By following the workflow and the strategy, the BIOMATDB project aims to realize the following outcomes:

- An increased awareness of the BIOMATDB project among relevant audiences;
- A clear demonstration of the way EU funding contributes to supporting the biomaterials and medical device market as well as researchers, clinicians and patients;
- Defining and networking with stakeholders who will be interested in using the BIOMATDB solutions;
- Strong synergies with the industry sector for future exploitation of the BIOMATDB solutions;
- Collaborations with other relevant EU projects;
- Constructive engagement, participation and contribution to the project conferences, workshops and other online and offline activities both by the consortium partners and the external stakeholders.

In that way, short- and long-term success of the BIOMATDB project will be enhanced by increasing project visibility, public awareness, and effective communication of achievements to the desired target groups and the scientific community, as well as by taking advantage of opportunities for further exploitation of results after the project is completed.

1.2 Task description and methodological approach

1.2.1 Task objective

Task 6.2 focuses on the creation of a dissemination, communication and exploitation (DEC) plan as well as the production of online and printed materials such as leaflets, rollups, and posters, in order to ensure the maximisation of the project's impact by spreading awareness and ensuring the sustainability of the developed outcomes.

1.2.2 Used methods

For the creation of the DEC plan, all foreseen dissemination and communication measures, materials and activities were identified and summarized. Additionally, the exploitable results that were identified by the BIOMATDB consortium so far, were listed to provide an overview of possible outcomes. Each consortium partner investigated individual dissemination & communication as well as exploitation routes for the project objectives, results and outcomes and described how they plan to implement these elements and how they will use them beyond the end of the project duration.

1.3 Relation to other tasks and deliverables

This deliverable is related to the following other BIOMATDB tasks and deliverables:

Receives inputs from:

Table 1. D6.2 Input from other tasks and deliverables

Deliverable	Due Date	Input for D6.2
D6.1	31.08.2022	Awareness raising measures via the project info website, the BIOMATDB social media channels and continuous communication activities

Provides outputs to:

Table 2. D6.2 Output for other tasks and deliverables

Deliverable	Due Date	Output from D6.2
D6.3	31.10.2024	DEC plan update and DEC materials (Package 2)
D6.4	31.08.2023	Exploitation plan including market strategies and business models
D6.5	30.11.2024	Networking, dissemination and partnership building report

1.4 Structure of the deliverable

Section 2 provides an overview of the project's target audience as well as descriptions of each of the groups. In **section 3**, the planned stakeholder surveys and interviews are being described. **Section 4** outlines the Dissemination and Communication plan, including aims and objectives as well as the process, and **section 5** includes the consortium partner's individual dissemination plans. **Section 6** describes the different materials utilized for the achievement of the dissemination goals. In **section 7**, past and future dissemination actions of the consortium partners are being presented. **Section 8** gives an overview of the project's communication activities. **Section 9** outlines the individual dissemination and communication responsibilities of the partners, the metrics and KPIs for the monitoring and evaluation of the dissemination activities as well as the timeline for their implementation. **Section 10** describes the exploitation plan for the project, including a preliminary list of exploitable results, exploitation routes, actions and means, and the partners' individual exploitation plans will be outlined in **section 11**. **Section 12** concludes the deliverable with a summary of the most important points.

2 Relevant target groups and stakeholders

To ensure the successful uptake of the BIOMATDB project, the map of relevant stakeholders needs to be identified and they shall be further reached via the available dissemination and communication channels. Identifying, reaching out to and engaging stakeholders in the BIOMATDB project is part of several work packages (WP2, WP5, WP6) and tasks within the BIOMATDB project (e.g., T2.2, T2.5, T5.2-5.5, T6.2, T6.5). As part of WP6, we tailor the communication and dissemination activities to the relevant target groups.

To exploit the BIOMATDB solutions, a special focus lies on reaching out to relevant demanders and suppliers on the biomaterials market. It should be noted that the distinction between demander and supplier is not always straightforward at the current stage of the project. Depending on which requirements the biomaterials database will fulfil in the end and which biomaterials exactly in which stage of development the marketplace will contain, the classification may still change slightly. According to the state of knowledge at the beginning of the project, we assigned the groups for the first tasks as follows: On the side of the suppliers, biomaterials or medical device manufacturers and companies, the biomedical engineering industry, the smart healthcare/tech sector, SMEs and start-ups in the field of biomaterials are considered. The demander group comprises hospitals, physicians, medical procurers or procurement groups. We assigned researchers and the scientific community to a separate group as they represent an extremely important stakeholder group, especially for the biomaterial database, and because they can be assigned to both the supplier and the demander side, depending on the context and the point of view.

2.1 General public, citizens & patients

Since everybody can potentially be in need of implants and medical devices made out of biomaterials, the BIOMATDB project is relevant to a very broad audience. Additionally, the BIOMATDB project is financed through public money. As a result, the use of this money and the benefits of the BIOMATDB project are of interest to every EU citizen. The general public is, therefore, considered as an important stakeholder.

2.2 Academia, research institutions, scientific communities (“Researchers”)

Biomaterials or biomedical engineering experts, researchers and institutions are potential users of the proposed solutions of the BIOMATDB project – the biomaterials database, marketplace and the label of biocompatibility. Additionally, disseminating the project objectives, results and solution to the scientific community, R&D centres, experts in biomedical engineering industry and researchers is essential because contacts of the interested parties and stakeholders can be further exploited to identify main challenges in the field that need further research insights and that could be addressed with the project’s solutions or to identify the needs of those possible end users with regard to the developed solutions through surveys and feedback from test users.

2.3 SMEs, start-ups, industry (“Suppliers”)

The BIOMATDB marketplace and the database ultimately aim to support the biomaterials industry (e.g., additive manufacturing, ATMP, raw materials, processing or sterilization companies for medical applications, medical institutions, hospitals, innovators) and particularly SMEs with getting market access and visibility and by providing detailed information on biomaterials. Additionally, tech providers

as well as IT & database experts will profit from the know-how gained through the research and development process for the BIOMATDB solutions and they will get better insights on innovation gaps to be solved and market needs.

2.4 Medical/Hospital organisations, health professionals and medical procurement groups (“Demanders”)

Medical or hospital organisations, health professionals, medical procurement groups and patients will profit from the BIOMATDB project through the information about biomaterials provided on the database and the marketplace and, ultimately, through providing or receiving better treatment and improved quality of service and reduced mortality.

2.5 Governmental/policy stakeholders, public bodies, investors (“Policy makers & investors”)

Public bodies, public administrations, governmental, regulation & standardisation bodies, certifiers, policy stakeholders and policy makers can support the project with insights on which barriers need to be overcome from a legal or political perspective. Additionally, the project wants to target them with information on how it can help foster the harmonization of the biomaterial’s domain across Europe, while raising the resilience and minimizing the vulnerability of the European healthcare system. Additionally, we plan to target individuals, companies or other entities who invest money in biomaterials or medical device companies, the development of biomaterials or other causes relevant in the context of the BIOMATDB project.

2.6 Societies, associations, networks or foundations in the context of biomaterials (“Enablers”)

Biomaterials societies, medical technology associations, tissue engineering networks or implantology associations, among others, are considered relevant target groups in the BIOMATDB project since they can enable contacts to suppliers and demanders of biomaterials, to researchers in the field of biomaterials and clinicians using biomaterial-based medical devices.

2.7 Other Projects

As part of the DEC plan, BIOMATDB aims to connect with other EU initiatives, research communities, industrial associations and platforms and projects. Projects identified for possible collaboration can be found in [Table 8](#) in [chapter 7.3](#).

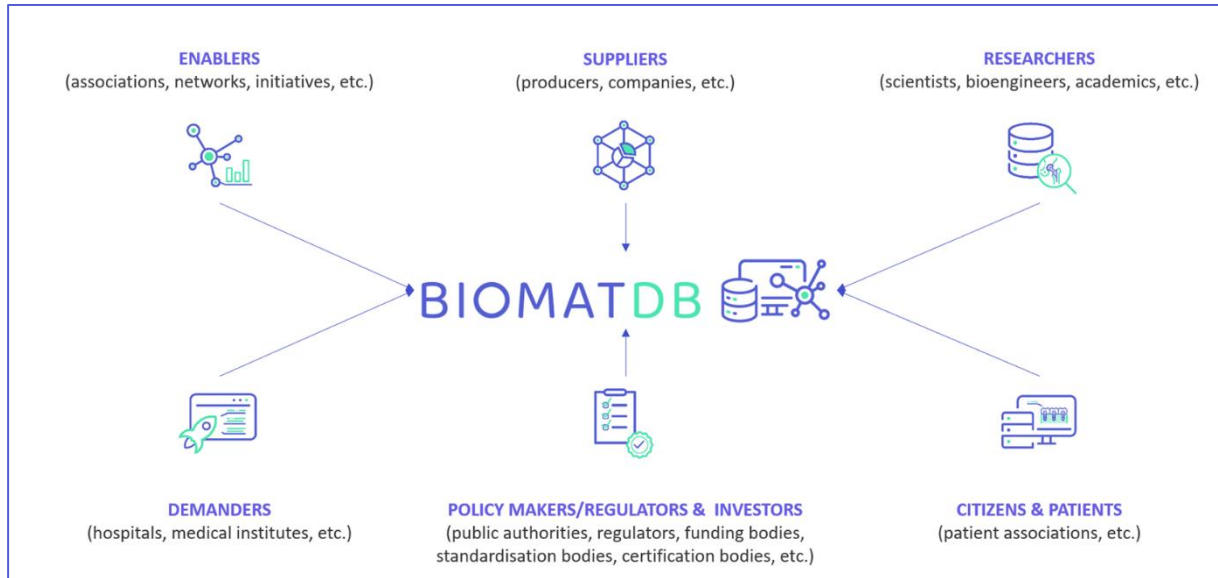


Figure 1: BIOMATDB Target groups and stakeholders

3 Stakeholder surveys and interviews

To collect information about the needs and requirements of all stakeholder groups relevant for the project, BIOMATDB is conducting quantitative surveys as well as qualitative interviews with stakeholders. The information gathered in these surveys will be used for the conception and development of the BIOMATDB biomaterial database and biomaterial marketplace. Stakeholders are being asked about their experience and expectations in relation to the planned outcomes of the project, which will provide a valuable source of information in later stages of the project.

The surveys have been created with EUSurvey and will be distributed via email to the contacts and networks collected beforehand. For the different stakeholder groups, different variations of the survey have been created, each including questions specifically targeted at that group. These groups are researchers, suppliers, enablers, demanders, and investors and policy makers in the area of biomaterials.

To reach as many stakeholders as possible, the surveys will additionally be promoted on the project website and the BIOMATDB social media channels.

All surveys include a project description as well as information about the participation in the survey and the rights of the participant at the beginning.

Questions asked in the survey cover, among others, the following topics:

- Personal details as well as the participant's area of expertise/work
- Biomaterial-related products of interest
- Knowledge of biomaterials
- Challenges experienced when using a biomaterials-related product
- Usage scenarios of a biomaterials database
- Relevant information about biomaterials, suppliers and demanders of biomaterials in the database and marketplace
- Preferences regarding the organisation of information in the BIOMATDB biomaterial database
- Online sources used for research about biomaterials
- Partners for collaborations and customers

The questions are mostly designed using a Likert scale, allowing the participant to rate statements on a scale ranging from "less relevant" to "most relevant".

To ensure the quality of the surveys, they are being sent out to close contacts acting as test recipients. These test recipients will enter their responses and provide feedback regarding the surveys. The feedback will be used to improve the surveys before they are sent out to all stakeholders. The inputs gathered through the stakeholder surveys will be evaluated and used for the conception and design of the two technical outputs of the project, the BIOMATDB biomaterial database and biomaterial marketplace.

In addition to the quantitative survey, BIOMATDB will later conduct qualitative interviews with selected stakeholders to gather more detailed information about requirements, workflows and use cases.

4 Dissemination & Communication plan

Below it will be described how the BIOMATDB project aims to disseminate the result produced in the course of the project. This plan will be updated in M29. The main goal of the dissemination activities is to maximise awareness of the BIOMATDB project's results among the targeted key stakeholders. Moreover, the plan includes a detailed methodology to package and present the produced knowledge according to the targeted audiences' needs. Additionally, it serves as an internal communication tool within the consortium.

In this sense, the project will:

- Identify the target audiences and stakeholders and define concrete and measurable actions for each group to increase the project visibility. Depending on the audience, a different message will be conveyed.
- Use Key Performance Indicators (KPIs) to monitor and evaluate the effectiveness of the dissemination activities. The regular collection and monitoring of KPIs will enable the BIOMATDB project to adjust the plan and the dissemination activities accordingly.
- Encourage cooperation by networking with stakeholders, projects, communities and networks. The BIOMATDB consortium will identify and map relevant projects, organisations and clusters working in the relevant fields to achieve maximum impact, to avoid duplications and ensure all gaps are filled by the project.

4.1 Dissemination & Communication aims and objectives

Borders between communication and dissemination are not always clear, but rather fluid. In general, communication addresses a larger audience with giving more general information about the project itself, while dissemination addresses rather specific target groups which might also have a vivid interest in knowing more not only about the project in general but also about its results. With the planned communication and dissemination activities, the following goals are being targeted:

- Raising awareness about and promoting the BIOMATDB project: Delivering general information about content and scope of the project as well as its results to everybody who might be interested using appropriate channels is the basis of all communication activities.
- Disseminating the solutions of the BIOMATDB project and their importance for the biomaterial ecosystem and the medical device market.
- Reaching out to specific stakeholders in order to tailor the database and the marketplace to the end users' needs from the beginning (see [Table 3](#)).
- Fostering further collaborations and enlarging the ecosystem: Trying to find other EU funded projects, organizations or companies to collaborate with the BIOMATDB project.

The following table gives an overview on how and why specified target audiences will be addressed. The Key Performance Indicators for these aims can be found in [section 9.4](#).

Table 3. Communication & Dissemination Matrix

Target Audience	Communication & Dissemination Goals	Communication & Dissemination channels
General public, citizens & patients	<ul style="list-style-type: none"> ▪ inform the public about the BIOMATDB project ▪ raise awareness about the BIOMATDB project ▪ build trust 	<ul style="list-style-type: none"> ▪ Project website ▪ Social media channels ▪ Newsletter ▪ Press releases
Academia, research institutions, scientific communities (“Researchers”)	<ul style="list-style-type: none"> ▪ promote the solutions of the BIOMATB project ▪ describe the advantages of the solutions for academia, institutions, the research and science community ▪ get the scientific community to engage with the project and to provide feedback and participate in the surveys for researchers to tailor the database and marketplace to their needs ▪ facilitate R&D cooperation ▪ facilitating exploitation of the project results 	<ul style="list-style-type: none"> ▪ Project website ▪ Social media channels ▪ Events, conferences and congresses ▪ Publications in open access journals ▪ Conferences
SMEs, start-ups, industry (“Suppliers”)	<ul style="list-style-type: none"> ▪ inform about the BIOMATDB project and its solutions ▪ describe the usefulness and the advantages of the proposed solutions for companies and SME’s especially in regard to market access ▪ build trust ▪ engage stakeholders and encourage collaborations ▪ facilitate involvement in the BIOMATDB project e.g., through taking part in the surveys for suppliers ▪ facilitate R&D cooperation ▪ facilitating exploitation of the project results 	<ul style="list-style-type: none"> ▪ Project website ▪ Social media channels ▪ Newsletter ▪ Press releases ▪ Scientific journals ▪ Specialized conferences, congresses and workshops, industry events (fairs) ▪ Utilizing connections and resources of the consortium partners
Medical/Hospital organisations, health professionals and medical procurement groups (“Demanders”)	<ul style="list-style-type: none"> ▪ inform about the BIOMATDB project and its solutions ▪ describe the usefulness and the advantages of the proposed solutions for medical institutions, procurement organisations, clinicians, etc. ▪ build trust 	<ul style="list-style-type: none"> ▪ Project website ▪ Social media channels ▪ Newsletter ▪ Press releases ▪ Scientific journals ▪ Specialized conferences, congresses and workshops, industry events (fairs)

	<ul style="list-style-type: none"> ▪ engage stakeholders and encourage collaborations ▪ facilitate project involvement, e.g., through taking part in the surveys for demanders ▪ facilitating exploitation of the project results 	<ul style="list-style-type: none"> ▪ Utilizing connections and resources of the consortium partners
Governmental/policy stakeholders, public bodies, investors (“Policy makers & investors”)	<ul style="list-style-type: none"> ▪ promote the BIOMATDB project and its solutions ▪ describe the usefulness of the proposed solutions for regulating bodies, policy makers, governmental stakeholders and investors ▪ facilitate involvement in the BIOMATDB project e.g., through taking part in the surveys for policy makers & investors 	<ul style="list-style-type: none"> ▪ Project website ▪ Social media channels ▪ Policy Workshops; Specialised ▪ Communication channels (EU Community, etc.)
Societies, associations, networks or foundations in the context of biomaterials (“Enablers”)	<ul style="list-style-type: none"> ▪ promote the BIOMATDB project and raise awareness ▪ facilitate involvement in the BIOMATDB project e.g., through taking part in the surveys for enablers 	<ul style="list-style-type: none"> ▪ Project website ▪ Social media channels ▪ Newsletter ▪ Events, conferences and congresses
Other Projects	<ul style="list-style-type: none"> ▪ Create connections and synergies 	<ul style="list-style-type: none"> ▪ Events, conferences, congresses and workshops ▪ Social media channels

4.2 Dissemination process

The dissemination and communication process of the project has been planned in order to achieve the best possible outcomes in regards to awareness raising, the enlargement of impact and the dissemination of project results.

At the beginning of the project, the main aim of all dissemination and communication activities is awareness-raising about the project and its objectives among all relevant stakeholders. For this purpose, channels such as the project website, social media channels and newsletters of the individual consortium members are being utilized to spread information about BIOMATDB. Through the consistent use of the project identity, including the designed logo and project colours, BIOMATDB aims to leave a visual image that can easily be remembered and recalled. Furthermore, physical materials such as a leaflet, a rollup and business cards will be developed at this stage already to be used for the purpose of awareness spreading as well as for the dissemination of results in further stages of the project.

In the second stage of the dissemination and communication process, BIOMATDB aims to mobilise and engage stakeholders to ensure that the solutions are being developed with all their needs and requirements in mind. For this purpose, stakeholders will be encouraged via social media and other online channels, as well as in the context of in person events and conferences, to share their insights

with the consortium and participate in the stakeholder survey, that will additionally be sent out to previously collected contacts and networks per email.

In the last stage, BIOMATDB will focus on the dissemination of project results, such as the biomaterial database and biomaterial marketplace, in order to spread awareness about these solutions and ensure their impact among stakeholders such as hospitals, suppliers of biomaterials, demanders, researchers, and others. To maximise the use and impact of the developed outcomes, the consortium will spread awareness at relevant events and use previously established communication and dissemination channels as well as newly gained contacts.

5 Individual dissemination plans

This chapter outlines the dissemination actions planned by each consortium member. These actions represent initial dissemination plans of the consortium. During the implementation of the dissemination activities and goals, the individual dissemination plans of the consortium partners will be considered. The individual dissemination plans will be reviewed, evaluated and adapted throughout the project, to be aligned with the different stages of the dissemination process to achieve maximum outreach and impact of the planned activities.

These plans are based on the DoA and broken down into single actions, thus allowing for better assessment of their outcomes. This chapter constitutes also a reference point for the WP6 lead to ensure the achievement of the quantitative and qualitative goals of the dissemination strategy.

Guiding questions for the individual dissemination plans:

- Publications: Are you planning to publish any papers or articles in relation to the BIOMATDB project?
- Dissemination at events: Are you planning to disseminate the project objectives or results at any events? (If yes, share some preliminary information regarding the area these events will target, the type of event, the type of engagement or the stakeholder these events will target.)
 - Are you planning to organise any events to disseminate the goals or results of BIOMATDB?
- Networking with other projects: Are you planning to get in contact with other European projects in the context of BIOMATDB?
- Dissemination channels: Which internal dissemination channels are you using or are you planning to use to disseminate information regarding BIOMATDB (e.g., websites, blogs, newsletters, social media channels of your organization, etc.)? How are you using these channels to disseminate information regarding BIOMATDB?
- Stakeholder engagement and networks: Which stakeholders are you planning to engage with regard to the dissemination activities of BIOMATDB and how are you planning this engagement (e.g., academics, industry, clinicians, policymakers, regulatory agencies, press, media, etc.)? Are there any stakeholder networks that you are planning to utilize for dissemination activities?

5.1 SYNNO GmbH (SYNYO)

Publications: SYNNO will seek to publish articles in relation to the ongoing project's achievements on various dissemination channels and platforms including the project's and consortium members' websites. Hence, the coordinator will aim to share the project's findings and results with the scientific community and ensure the longevity of the project's results. To enhance the quality of the planned articles, SYNNO will create graphic representations of quantitative information, such as graphs and infographics, and thus attract non-specialists as project ambassadors, who can cascade the information about the project's activities to the widest possible audience. Additionally, the Coordinator will support the consortium organisations in the process of writing and submitting papers to conferences, journals and other relevant occasions. Hence, SYNNO will raise awareness of the research outcomes and technological developments, which will be achieved within the BIOMATDB

project and establish common understanding on the capability needs and innovation gaps in the field of biomaterials.

Dissemination at events: In the context of dissemination of the project's results, SYNYO plans to organise and carry out webinars, workshops and other knowledge exchange activities, such as video interviews and virtual consultations, with the aim to promote BIOMATDB, attract and interact with external stakeholders, collect inputs and data needed to achieve the objectives of the project, create synergies, share results and raise awareness on certain issues, share gained insights and induce interested organisations to exploit the project's solutions and outcomes. Further on, to ensure the wide dissemination of the project's results, SYNYO will seek to participate in external conferences, brokerage events and pitch presentations. Hence, the organisation will share the project's results and lessons learned beyond the consortium and enable the wider community in Europe to benefit from the work that has been done and promote the organisations' efforts towards the objectives. Moreover, through the planned dissemination activities, the coordinator will increase the size and strategic importance of BIOMATDB. For this, SYNYO will target external events with audience and context, which are relevant to the main objects of the project and will help the consortium uptake the biomaterial database and biomaterial marketplace as well as related research activities and publications.

Networking with other projects: Given the fact that biomaterials revolutionise areas like bioengineering, tissue engineering and development of novel medical devices and therapies, there will be further relevant projects that can benefit from the expertise gleaned and community built. It is therefore SYNYO's aim to ensure a thriving, informative, collaborating BIOMATDB community that can work with future projects beyond the funding period. One of the key features of the BIOMATDB project is its focus on engaging with stakeholders and building good relations with other projects. By involving and building the stakeholder community from the early stages of the project, SYNYO will ensure a solid network of organisations and professionals that share the goals of the project and proactively want it to continue. Therefore, In terms of networking and synergies with related projects, the Coordinator will seek to continuously engage with initiatives such as, among others, BioImplant ITN, TBMED and MDOT.

Dissemination channels: To disseminate information about the project's outcomes effectively, SYNYO will apply a multi-channel dissemination approach. For this, the organisation will utilise the project website and social media channels, including LinkedIn, Twitter and YouTube. LinkedIn and Twitter represent great marketing and connection tools. By strategically utilising both platforms, SYNYO will seek to spread information about the project's achievements, increase the traffic on the project website and promote internal as well as community events. Moreover, the project social media channels will help the coordinator build and sustain the involvement of external stakeholders in the various phases of project communication, motivate their participation and facilitate continuous knowledge exchange.

The project website constitutes the project's main dissemination channel and a reference point for interested stakeholders in the field of biomaterials. As such it will be used by SYNYO to address a broad range of relevant stakeholders in the ecosystem of biomaterials and keep them informed on any planned workshops or webinars, and thus ensure their contribution to the project's success.

During previous projects managed by SYNYO, YouTube has proved to be an effective dissemination channel to a vast audience of project stakeholders across Europe and beyond. During the project,

SYNYO plans to create video recordings of future virtual knowledge exchange activities held with experts in the field, and make them accessible for interested parties.

Stakeholder engagement and networks: SYNYO will seek to engage with a number of different target groups of professionals working in the field of biomaterials. Therefore, to communicate effectively, the coordinator will seek to understand the challenges and needs faced by the different stakeholders including the demanders (hospitals, purchasing networks, public organisations, physicians nursing homes, universities, etc.), suppliers (SMEs, which develop, manufacture or sell biomaterial products, medical devices, prostheses, etc.), enablers (biomaterials societies, networks, foundations, etc.) ,investors and research community. To maximise the engagement efforts and ensure the efficient uptake of the biomaterials database and marketplace the coordinator will seek to also contact and exchange knowledge with other stakeholders such as R&D, ongoing related projects and initiatives, and relevant networks in the field.

5.2 Barcelona Supercomputing Center (BSC)

Publications: For communicating the project results in the academic community, as well as to commercial end users interested in the technical development, use, and implementation underlying the biomaterials database developed for this project, BSC foresees the publication of both journal papers as well as more technical conference proceedings at international venues (highly reputable conferences and workshops). Among the targeted journals for publishing the project-related articles, beyond purely biomaterials, BSC also foresees publications specifically devoted to applied databases (e.g., Database ISSN: 1758-0463 or high impact special issues such as NAR Database Special Issue).

Moreover, BSC also promotes the organisation of a high impact shared task and evaluation campaigns, as done already previously in the past for other research applications (BioASQ CLEF, BioCreative, IberLEF among others) to also foster technical research publications focusing on biomaterials by the AI community.

Dissemination at events: Following previous experiences of BSC in dissemination of project results at scientific conferences, workshops, infodays, hackathons and summits, BSC plans to present the BIOMATDB database, resources and technical approaches underlying the development of the BIOMATDB tools at several of those venues. At the technical level the target events will focus on the AI community, which is also interested in the biomaterials application domain (e.g. ACL, COLING, LREC, EMNLP, CLEF, SEPLN, WMT). To address and disseminate the project's outcomes to potential users and foster the impact of the resources generated by this project, BSC also plans to disseminate the results at more data-oriented events (ELIXIR, ISB meetings). BSC also plans to organise a specific workshop devoted to biomaterials shared tasks similar to the previous BioCreative workshops concerned with biocuration, text mining and interactive database development for the life sciences domain.

Networking with other projects: BSC is involved in European projects that can benefit from the results and technical assets developed by the BIOMATDB project, specifically for the cardiology clinical application scenario. In this context BSC plans to explore synergies and use cases for stakeholders from the DataTools4Heart (DT4H) project (Grant agreement ID: 101057849).

Dissemination channels: The Project Dissemination Unit within the Research, Support and Technology Transfer and Dissemination Area aims to ensure the visibility of relevant BSC project results. The unit carries out communication actions targeting various audiences, including the scientific community,

industry and the general public; and it works closely with BSC's Technology Transfer Office to help ensure that BSC's scientific results are exploited. BSC will also place relevant datasets on open data repositories and share technical insights on the project's YouTube channel, social media and LinkedIn.

Stakeholder engagement and networks: BSC will promote multi-stakeholder engagement by organising online webinars including social innovation sessions to identify and discuss specific challenges, needs and usage scenarios of the developed biomaterial database and resources generated during the project. Moreover, to engage various end user communities, BSC plans to organise open annotation jamboree sessions.

5.3 University of Oslo (UIO)

Publications: UIO is working on a review where BIOMATDB will be acknowledged.

Dissemination at events: UIO has not yet planned any targeted events regarding BIOMATDB dissemination. As the project progresses, future activities in this area might be planned.

Networking with other projects: UIO is currently in the process of reaching out to EUDAMED and cBIT. The aim is to link the web interface of BIOMATDB to both these databases, at the level of medical devices and biomaterial-derived transcriptomics data, respectively.

Dissemination channels: UIO will employ Twitter, the UIO channels, and the Scandinavian Society of Biomaterials board to disseminate relevant news but also the BIOMATDB surveys. Future plans involve dissemination of BIOMATDB via Norwegian research entities (such as Innovation Norway etc).

Stakeholder engagement and networks: UIO is soon going to start sending out the surveys and thus more actively participate in the BIOMATDB dissemination.

5.4 Universitat Politècnica de Catalunya (UPC)

Publications: UPC will publish articles in relation to the ongoing project's achievements. Concretely, UPC plans to publish a paper based on D2.1, focused on providing an overview of the biomaterial data sources. This paper will be published in a high impact factor open access journal in the biomaterials field 1st quartile Advanced Intelligence Systems. This publication will be registered in FUTUR-UPC, the portal for scientific diffusion of the university, and will be disseminated in its individual channels. Additionally, UPC will support the consortium organisations in the process of writing and publishing other relevant papers and in disseminating these publications by its individual channels.

Dissemination at events: For the dissemination of the project's results, UPC aims to carry out presentations first within the research group and then in upcoming dissemination events. In addition, UPC plans to distribute brochures with information about the project in congresses that it will assist. For now, these brochures are going to be distributed in the Iberian Society of Biomechanics and Biomaterials Congress that will be in November 2022. UPC also plans to disseminate the project among companies by individual interviews planned for the development of WP2.

Networking with other projects: UPC is involved in several European networking projects that it can take advantage of for two different aspects: to collect stakeholders and carry out corresponding surveys and interviews in T2.2 and to disseminate the BIOMATDB project in the research community. Concretely, UPC has been in contact with members of the European projects Bio-TUNE and the COST Action PlasTHER:

- Bio-TUNE - H2020-MSCA-RISE-2019 Bio-TUNE 872869: <https://biotune.upc.edu/en>
- PlasTHER Therapeutic Applications of Cold Plasmas - COST Action CA20114: <https://www.plashter.eu/>

Dissemination channels: UPC is using the research group web page <https://biomaterials.upc.edu/en> as well as the Twitter account BiomaterialsUPC. UPC also plans to use the school newsletter <https://eebe.upc.edu/>. In addition, as part of the Biomedical Engineering Research Centre (CREB) and Xartec Salut network, UPC plans to use its LinkedIn account for dissemination of the project's outcomes within the biomedical-engineering-research-centre, and the webpage <https://xartecsalut.com/>.

Stakeholder engagement and networks: UPC plans to use the networks where it is involved, like the previous mentioned CREB, Xartec salut, CIT-UPC <https://cit.upc.edu/en/> as well as the Iberian Society of Biomechanics and Biomaterials (SIBB) <http://www.e-sibb.org/> and European networking projects to engage different target groups of professionals working in the field of biomaterials, the overall research community, company entities and medical doctors involved in clinical trials and tech-transfer.

5.5 Tampere University (TAU)

Publications: TAU plans to perform their own survey related to the subjects of BIOMATDB and publish those results as scientific publications. The intention is to study how the novel inventions related to medical devices and ATMP products (all being completely or partially composed of biomaterial) are adapted to the market.

Dissemination at events: TAU attends several, both scientific and more commercial, events (e.g., conferences) annually and plans to present BIOMATDB results as well as advertise the project in events. The university is possibly involved in organising organ-on-chip meetings (both Nordic and European) during the duration of the BIOMATDB project and are in position to disseminate the project and its results in these events.

Networking with other projects: Currently TAU has not identified other projects, except some MSCA-ITN projects, e.g., ones partnered by Professor Jonathan Massera and Professor Pasi Kallio (both from TAU).

Dissemination channels: TAU's social media channels are used to disseminate BIOMATDB. The most efficient way is to publish at TAU's own channel or share/repost. The official channel postmaster is sharing those in the TAU channels. The most used social media formats are Twitter and LinkedIn.

Stakeholder engagement and networks: TAU plans to engage local biomaterial-related companies. TAU is also heading a medical device 3D-printing network that can be utilised. Additionally, there are connections to the Nordic biomaterial society.

5.6 West Pomeranian University of Technology, Szczecin (ZUT)

Publications: ZUT will actively participate in preparing and publishing articles together with other consortium partners, such as reviews related to biomaterials and their classification.

Dissemination at events: ZUT will both participate in and organize events aimed at disseminating BIOMATDB objectives and results. ZUT has already organised the Baltic BioMat Symposium (<https://balticbiomat.zut.edu.pl>), where the BIOMATDB project objectives were disseminated with the aim of raising awareness of the start of the project. This symposium series primarily targets

researchers, but also includes active industry participation. The next iteration of this symposium is planned for 2024, where ZUT will disseminate BIOMATDB project outcomes and results.

Networking with other projects: ZUT is the coordinator of the EU H2020 project GREEN-MAP with both industry and academia partners, focused on novel polymeric materials for medical devices and packaging that are biobased and biodegradable. ZUT will disseminate BIOMATDB project objectives and results at consortium meetings and workshops.

Dissemination channels: ZUT will use the research group website and Twitter account to disseminate and promote BIOMATDB project results.

Stakeholder engagement and networks: ZUT will engage a broad range of stakeholders within its collaborator network, including academic and industrial researchers, as well as medical professionals and clinicians.

5.7 MINDS & SPARKS GmbH (M&S)

Publications: MINDS & SPARKS will disseminate project results in biomaterials related media as well as scientific journals. Furthermore, articles about the project's progress will regularly be published on the organisation's website as well as the BIOMATDB project website.

Dissemination at events: MINDS & SPARKS has been attending and is planning to attend events with the objective of spreading awareness about and disseminating the outcomes of the BIOMATDB project. These might include events in the areas of health, biomaterials, and medicine. The aim is to present the project to stakeholders such as demanders and suppliers of biomaterials, researchers, industry and academia, and establish valuable connections for future collaborations. In addition to presentations of the projects, promotional materials will be handed out at in-person events to interested parties. Furthermore, stakeholders will be encouraged to take part in the stakeholder survey.

Networking with other projects: As lead of the Dissemination & Communication Work Package, MINDS & SPARKS lays a major focus on connecting with other projects, sharing knowledge and creating networks. For this purpose, relevant projects have been identified and will be contacted. Due to experience with dissemination and communication lead in several other projects, M&S will be able to establish connections between them and enable mutual promotion and links between websites and social media channels.

Dissemination channels: MINDS & SPARKS utilises its website (mindsandsparks.org) to present the project, important facts and the role of the organisation. News articles related to BIOMATDB and its progress will be published on the website every six months during the project duration. Furthermore, MINDS & SPARKS is the main administrator of the project's website and social media channels, and is regularly providing and uploading content on those platforms.

Stakeholder engagement and networks: MINDS & SPARKS will draw from previous experience and past projects to facilitate communication with stakeholders and will make use of established contacts. Communication will take place online via social media or other channels as well as in person at events and conferences. M&S will disseminate the BIOMATDB services and results throughout its extensive network of end users, as well as via the relevant joint research projects in which the company

participates. MINDS & SPARKS will further enable innovation transfer in the national context with the support of the FFG (Austrian Research Promotion Agency).

5.8 Business Council of the Center Region / Chamber of Commerce (CEC-CCIC)

Publications: At the moment, CEC-CCIC does not plan to publish any papers or articles in relation to the BIOMATDB project. However, CEC-CCIC will contribute to the dissemination of the BIOMATDB project through regular communication via the institutional channels (Newsletter, Website, Facebook, Twitter, LinkedIn), non-scientific publications and press releases. CEC will also disseminate relevant information about the project directly to the strategic contact databases of companies, associations, incubators and academic institutions.

Dissemination at events: CEC-CCIC is undertaking an extended visit to business associations aiming to present the BIOMATDB project. Information material will also be used to reach out directly to the companies, incubators and other stakeholders, in person or in on-line meetings. The printed material about BIOMATDB will be displayed in the organisation's buildings, making it visible to all visitors and participants of events. CEC-CCIC also aim to participate with BIOMATDB in external events, fairs, and expositions related to health, industry and others.

Networking with other projects: CEC-CCIC will maximise the synergies within the Enterprise Europe Network, especially in the Health Sector Group.

Dissemination channels: CEC-CCIC has been using and will continue to use the organisational channels, such as the Newsletter, Website, Facebook, Twitter, LinkedIn, press releases to local media and direct contact with the business associations, partners and companies' databases.

Stakeholder engagement and networks: CEC-CCIC leads a Regional Associative Network, consisting of 34 Business Associations and the Region's Entrepreneurship and Incubation Network, currently composed of 21 incubators, representing more than 50 000 companies. Simultaneously, CEC-CCIC integrates the Enterprise Europe Network's national consortium and, within Enterprise Europe Network, CEC/CCIC act as member of the Sector Group Healthcare. CEC/CCIC also has in its network a range of medical schools and health clinics and a close collaboration with Ubimedical and Faculty of Dental Medicine, Catholic University of Portugal.

5.9 Clust-ER Health (CLUSTER)

Publications: CLUSTER will support the dissemination activities of the BIOMATDB project through the publication of news, progress and results articles on its organisational website. The reach and number of views of these publications will be promoted through our various communication channels that include social media and newsletters. Eventual press releases linked with key projects milestones will be spread using the network of journalists and press agencies.

Dissemination at events: CLUSTER aims to communicate about the objectives and to disseminate the results of the project at various external events that involve different types of audiences. These include conferences (academics, experts, clinicians) as well as expositions and fairs (manufacturers, suppliers, universities, hospitals, technology centres, foundations...) that are within the remit of biomaterials, health and medicine. CLUSTER has already raised awareness about the project and sought engagement from scientific stakeholders by highlighting the upcoming survey during a presentation at the closing plenary session of the Bioceramics32 conference (September 2022, Venice) in front of an audience of

researchers and experts. CLUSTER has also printed an informative BIOMATDB roll-up that will be showcased at the organisation's booth to maximise the visual presence of the project and attract attention at the physical events that we attend (such as the regional B.T. Expo Shomed exhibition in October 2022, Modena). CLUSTER is also in possession of brochures prepared by the coordinator to ensure that interlocutors can take materials away for further reading.

Networking with other projects: CLUSTER will actively monitor related and complementary European projects, ongoing and new, to identify and exploit synergies in terms of networking and identification of common interest and activities.

Dissemination channels: CLUSTER intends to disseminate information about the project to an adequate -yet as broad as possible- audience by using the different communication channels at its disposal. Since the beginning of the project, a few news articles have been published on the organisation's website (<https://health.clust-er.it/>). CLUSTER is currently developing a new section on our website where a BIOMATDB-specific page will be hosted (already available in Italian). It will include a general presentation of the project, the list of the other partners involved and the specific role of CLUSTER. In addition, CLUSTER is using its social media platforms (LinkedIn, Twitter, YouTube, Instagram and Facebook) as well as its own newsletter that is sent out to its members (more than 100 companies, SMEs, hospitals, technology centres, universities and research centres) and to all its regional stakeholders (more than 500 lead generated audience). CLUSTER can also use its established connections with other national and international life science and medical clusters and networks to disseminate information regarding BIOMATDB. Networks considered for dissemination are present at territorial level (e.g. other relevant clusters), National level (ALISEI network) and European level (Council of European Bioregions, Vanguard smart pilot health and EEN network). Industrial associations will be also targeted as dissemination hubs (e.g., Confindustria dispositivi medici, Assobiotec, etc).

Stakeholder engagement and networks: CLUSTER is an association of regional health, medical and life sciences actors. They include some of the target stakeholders of the BIOMATDB project such as suppliers (large companies and SMEs that test, produce and/or sell products relevant in the biomaterials context), demanders (hospitals, universities, research centres), enablers (foundations and other regional life science networks) and researchers (academics, clinicians). They will be reached through the different dissemination approaches mentioned before. Furthermore, at a regional scale, CLUSTER is engaging with its established, internal 'Materials innovation' working group via emails and online roundtables (at least twice a year). It is a great platform to disseminate news and information about the project, but also to seek expert input on their needs and challenges to ensure that the database and marketplace are tailored to their requirements. At a national level, CLUSTER intends to use its connections with other Italian life science clusters and industries to seek their own engagement via their own networks and thus further amplify the dissemination efforts, for example to increase the survey compilation rate or to recruit test users for the database demonstration.

5.10 National University of Ireland, Galway (NUIG)

Publications: NUIG will share the data with other partners and participate in collaborative publications. The details regarding these activities will be updated later in the project.

Dissemination at events: For the moment, NUIG does not have specific plans to disseminate the project objectives or results at events, but will provide updates on future developments.

Networking with other projects: NUIG plans to contact other European projects in the context of BIOMATDB. For this reason, relevant projects will be identified and approached in this context.

Dissemination channels: CÚRAM aims to foster collaborations between its researchers and the community. To effectively disseminate project information, a dedicated team is involved. Lindsay Deely (Press & Communications Lead) will assist in developing suitable communication channels. CÚRAM now uses its website, newsletters, instructional articles, and other unique tailor-made scientific programmes such as Teacher in Residence and Science on Screen, as well as social media outlets such as LinkedIn, Twitter, and YouTube. All these platforms will be used to disseminate project outcomes efficiently.

Stakeholder engagement and networks: CÚRAM, the SFI Research Centre for Medical Devices, is developing the next generation of medical devices in collaboration with thirteen other partner institutes in Ireland, as well as local small and medium-sized enterprises (SMEs) and global medical device and pharmaceutical companies. As a result, it will seek to engage stakeholders engaged in biomaterials suppliers, biomaterials processing, and biomaterials users.

5.11 Hospital Infantil Universitario Niño Jesús (FHUNJ)

Publications: FHUNJ plans to write several articles describing the impact of the project in the Niño Jesús Hospital (FHUNJ) to appear in industry magazines. FHUNJ will advise its researchers to cite BIOMATDB when writing scientific articles dealing with medical devices or directly with biomaterials.

Dissemination at events: At least one workshop will be held to disseminate the results of the project. The outcomes of the project will be mentioned in the papers that describe medical devices.

Networking with other projects: Other European projects that could be interested in the findings and approach of BIOMATDB will be contacted, like the CSA project Procure4Health (<https://procure4health.eu/>). FHUNJ has introduced BIOMATDB to its colleagues in the H2020 and HE projects we are currently part of: [iProcureSecurity PCP](#), [BEAMER](#), SECURED and CYLCOMED.

Dissemination channels: The Foundation for Biomedical Research of the paediatric Hospital Niño Jesús is publishing regularly to disseminate the outcomes of the project in its social networks. It has dedicated a page on its site to describe the project.

Stakeholder engagement and networks: All the departments of the hospital that use medical devices that depend strongly on biomaterials have been informed of the project, as well other health professionals in other hospitals public and private. Some private clinical centres have been contacted too.

5.12 ECHAlliance (ECHA)

Publications: ECHA publishes scientific and lay articles on a regular basis, either project-related as well as connected to its key policy and scientific areas, such as health data, digital health and practical implementation of solutions.

BIOMATDB topics will be considered for the production of different types of publications of ECHA initiative as well as included in all relevant opportunities that arise from this perspective.

Dissemination at events: The ECHAlliance organises key international events such as the yearly [Digital Health and Wellness Summit](#) in the frame of the Mobile World Congress 4YFN event among others. In

addition, the [Digital Health Observatory \(DHO\)](#) portal and the [Digital Health Society \(DHS\)](#) movement, powered by ECHAlliance, are key vehicles to encourage the transfer of lessons learnt and good practices.

Moreover, ECHA researchers and project managers are invited to participate in multiple events, on-site and online, which are also very relevant for BIOMATDB dissemination and that will be assessed on a case-by-case basis for their relevance and adequacy to the project's goals.

Networking with other projects: ECHA is currently coordinating and partnering in several co-funded European projects, which are relevant to liaise and coordinate with BIOMATDB and that can be further explored in <https://echalliance.com/projects/>.

However, the two initiatives which will be probably most adequate to connect with BIOMATDB will be CONNECTINGHEALTH | Connecting the dots within digital health innovation ecosystems H2021 (GA N. 101070756), coordinated by the ECHAlliance, which is a 2-year preparatory action aiming to foster interconnected inclusive innovation ecosystems across Europe and maximize the value of innovation in the sector of digital health.

Another relevant project to liaise with is BeWell | Blueprint Alliance for a Future Health Workforce Strategy on Digital and Green Skills, an Erasmus+ Alliance for Sectoral Cooperation on Skills implementing the 'Blueprint' (GA N. 10105656301/07/2022 - 30/06/2026).

Dissemination channels: The project's target audience and stakeholders were carefully assessed and defined, as well as the dissemination objectives within each target group (e.g. awareness raising objectives for the general public or action objectives for experts,) to then tailor the communication and dissemination channels to them, aiming to contribute that the overall project KPIs are met.

ECHA will use its dissemination networks, health, policy and industry members, and long experience in EU-funded projects to contribute to dissemination, either through conferences, networking and sharing publications, promotional events, or through basic website news, social media and newsletters.

Specifically, ECHA will share the project results and experiences in their further use, application, and sustainability, promoting the interaction between community actors on an ongoing basis, through virtual meetings as well as web social networks and other web platforms.

Stakeholder engagement and networks: ECHA represents a large community of targeted stakeholders that the BIOMATDB project can connect with. This international community is organised around national and regional networks, ensuring direct contact, and opportunities for dialogue, with 70 ECHA ecosystems in more than 78 countries and regions across the world. These ecosystems meet on a regular basis and are focused on the implementation of innovative solutions for health and social care around specific needs connected to the demographic, social and population health context of each territory.

This community gathers 900+ member organizations and reaches out to a network of 20.000+ experts among governments, health & social care providers, leading companies and start-ups, researchers, insurances, patient organizations, citizens and investors.

5.13 Carla V. Fuenteslópez

Although the subcontractors were not asked to do so directly, one of the subcontracted experts generously submitted her dissemination plan for the project in addition to those of the project partners:

Publications: Carla V. Fuenteslópez seeks to collaborate with the consortium partners of the BIOMATDB project to produce joint publications. For instance, since Carla V. Fuenteslópez will be contributing to WP3 “CONCEPT: Features, Technical Systems, Advanced Database, Analysis Tools, Marketplaces, and Digital Advisors”, led by BSC, it is likely that there will be a publication arising from the development of the database containing contributions from Carla V. Fuenteslópez.

Moreover, she is interested in leading 1-2 publications personally, focusing on (a) mapping the current biomaterials being used/researched and their main applications and (b) understanding the translation path from experimental biomaterial to gaining regulatory approval, covering, among others, average time in each stage, experiments performed, and factors predicting success. These works will aim to showcase the use of the BIOMATDB database and marketplace to, amongst others, gain further insights into the biomaterials field and highlight key features shared by successful examples of biomaterials translation from bench-side research to clinical use.

Dissemination at events: Carla V. Fuenteslópez has already contributed with a presentation at the most recent Tissue Engineering and Regenerative Medicine International Society (TERMIS) Conference (5-8 October 2022). At the event, work from the DEBBIE project was presented and the BIOMATDB project was introduced. Additionally, a QR code with a link to the BIOMATDB project website was shared with participants.

Furthermore, Carla V. Fuenteslópez will be a plenary speaker at a symposium mid-November and will take this opportunity to present an overview of DEBBIE and an introduction to BIOMATDB.

At a later date, Carla V. Fuenteslópez plans to do more presentations sharing the progress and results of BIOMATDB.

Carla V. Fuenteslópez will support the dissemination efforts by the BIOMATDB partners.

Networking with other projects: Carla V. Fuenteslópez plans to explore her professional and academic network and contacts to establish and develop synergies with relevant projects, research lines and initiatives.

Dissemination channels: Carla V. Fuenteslópez has primarily used face-to-face channels as well as a personal Twitter channel to undertake dissemination actions. Moreover, Carla V. Fuenteslópez has plans to publish a monthly column aimed at the general public to increase public awareness of the BIOMATDB project. Discussions with potential outlets are ongoing.

Stakeholder engagement and networks: Carla V. Fuenteslópez will engage with a range of stakeholders and further expand her professional network. Academics and researchers will be targeted at conferences, symposiums and workshops; whilst social media channels will be used to actively communicate with potential and ongoing partners from the industry, research bodies and clinicians. The monthly column will provide a unique opportunity to communicate with the general public and will directly contribute to increasing public awareness about BIOMATBD.

6 Dissemination materials

This chapter outlines the materials that will be used and the dissemination activities that will be conducted to deliver the relevant project information to the audience.

6.1 Project identity

Central to the dissemination activities and materials is a uniform project identity reflected through the BIOMATDB naming, BIOMATDB logos, and the BIOMATDB templates for presentations, deliverables, reports and newsletters. Additionally, the project identity will be reflected in any dissemination materials like the BIOMATDB factsheets, leaflets, posters and rollups, as well as content on the BIOMATDB project website and social media channels.

The following figures present the BIOMATDB logo and icon as well as the colour palette.



Figure 3. BIOMATDB Logo



Figure 2. BIOMATDB Icon

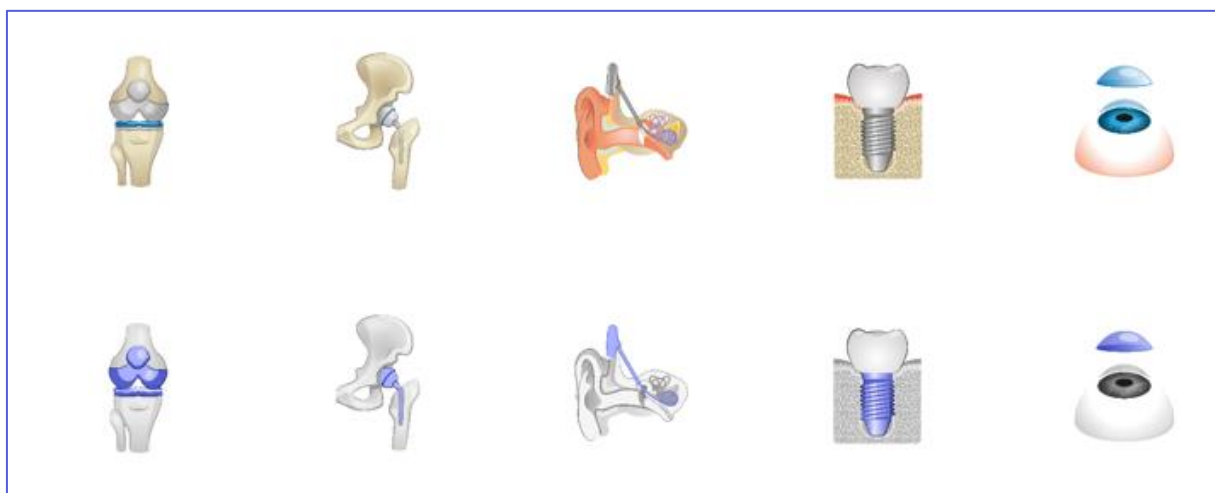


Figure 4. BIOMATDB Icon Set

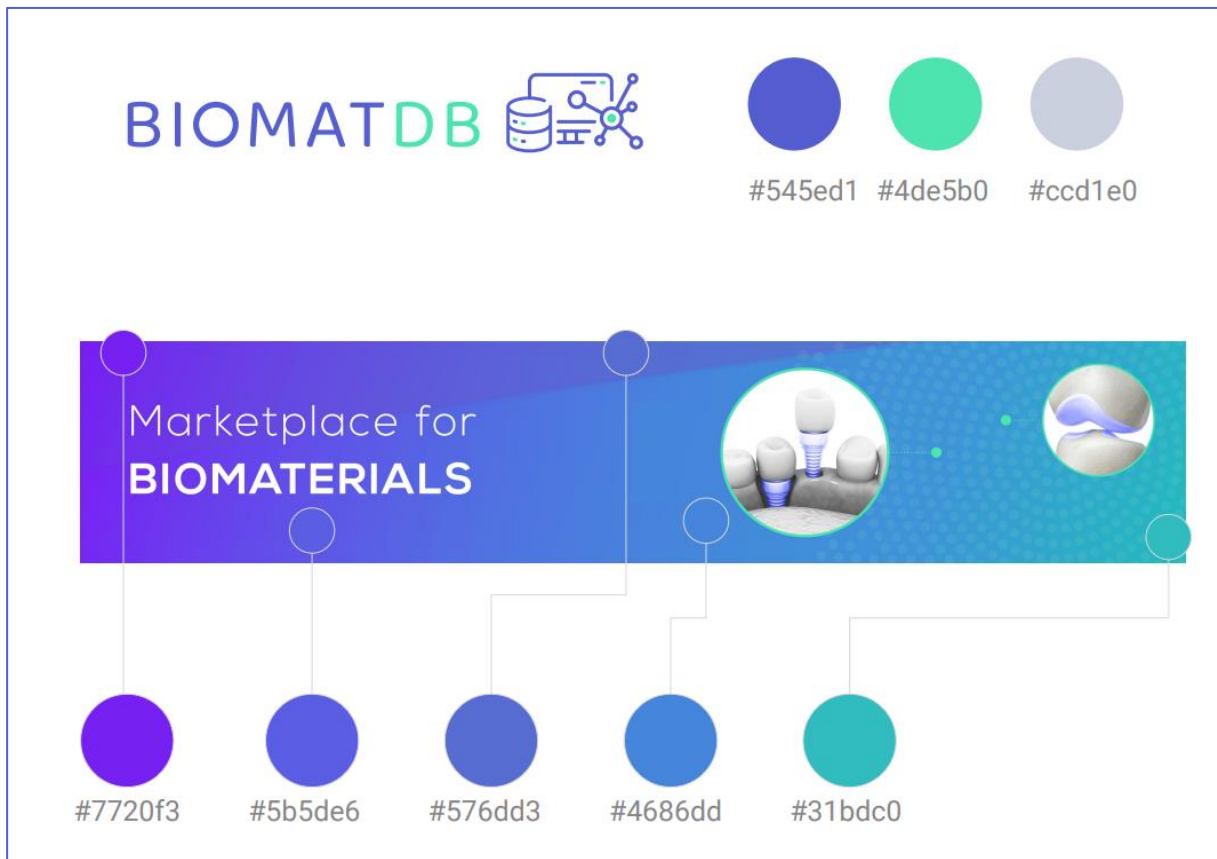


Figure 5. BIOMATDB colour palette

To represent the project and the scientific area it is located in, the following key visuals have been established.

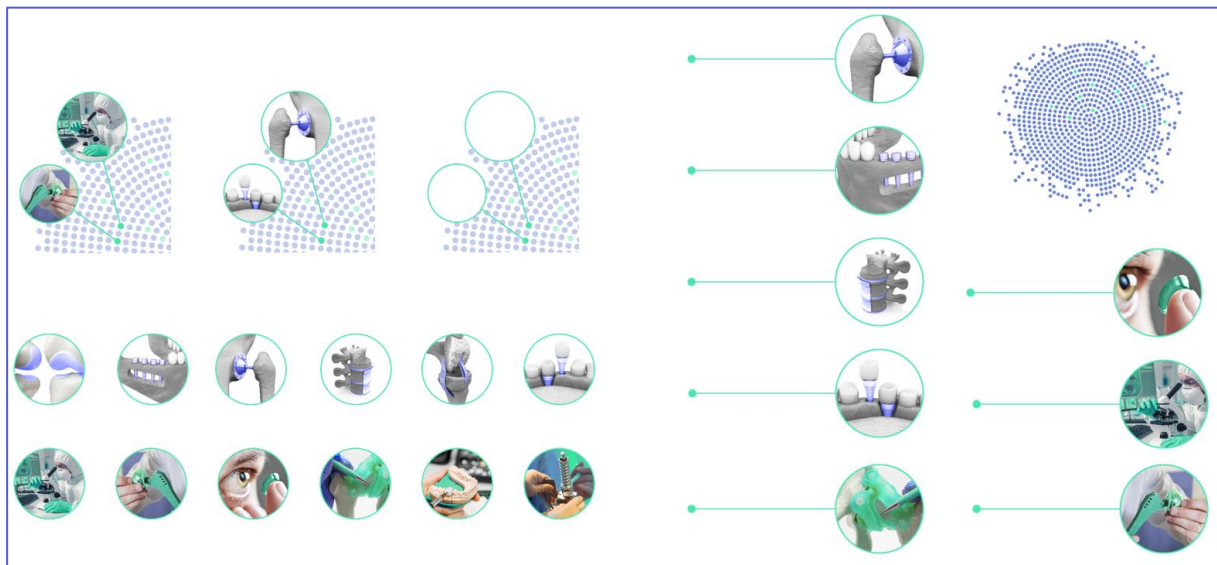


Figure 6. Key visuals

Table 4 provides an overview of all communication and dissemination materials that have been and will be created for the project.

Table 4. Communication and Dissemination materials - Overview

Type	Description
Leaflet	BIOMATDB project leaflet including the background of the project, its objectives and basic facts
Business cards	Template for business cards in the BIOMATDB design.
Roll-up	Design for a roll-up to be used in public meetings and conferences
Presentation	PowerPoint template to be used for presentations of the BIOMATDB project
Deliverable	BIOMATDB deliverable template with formatting examples and a given basic structure
Meeting Agenda	Template for Meeting Agendas within BIOMATDB and for writing the minutes
Posters	For conferences, fairs and similar occasions
Project folder	To be used for meeting and conferences including materials like stickers, pens, and bookmarks
Website	The BIOMATDB website is the main pillar of the project's online presence includes information about the project, news articles, media downloads, and more.
Social posts	Regular posts on the project's Twitter and LinkedIn channels
Newsletter	Provides interested audiences with the main actual topics within the project and will be emitted at least twice a year.
Infographics	A basic set of infographics has been created and will be expanded in the course of the project.
Promotional banners	Banners to promote activities such as events or the stakeholder survey in online media

6.1.1 Print material and templates

To promote the project, several print materials have been created. The BIOMATDB leaflet reflects the project identity and includes contact information as well as the most important project facts, the project background and its objectives. The leaflet has been distributed to all consortium partners in digital and printed form, and can be handed out at events or conferences to interested stakeholders.



Figure 7. BIOMATDB Leaflet (Front)







PROJECT BACKGROUND


BIOMATDB aims to create an advanced database for biomaterials providing detailed information on their properties. Flexible data analysis and visualisation tools support the search and selection process based on analyses of the results of biological testing of biomaterials from the scientific literature to incorporate data on as many of the material properties as possible.

The project provides a web-optimised information marketplace and digital advisors to support companies, especially SMEs, in offering their products and properly presenting themselves at global scale. Initiated by biomaterial use cases, the web application will match the suppliers and demanders through intelligent matching tools and step-by-step decision support.

BIOMATDB focuses on the creation of a label of biocompatibility to define the suitability of a biomaterial for use in a medical device or advanced therapy and to assist companies, especially SMEs, in facilitating market access for their products by providing them a better guidance.

PROJECT OBJECTIVES

- 
ACCESS existing knowledge on biomaterials to identify best practices for material databases as well as survey relevant stakeholders to gather requirements
- 
DEVELOP an advanced database of biomaterials providing detailed information of all relevant properties and intuitive data analysis and visualisation
- 
LAUNCH of an information marketplace for suppliers of biomaterials and implementation of digital advisors to support demanders
- 
CREATE a label of biocompatibility to define the suitability of biomaterials for use in medical devices or advanced therapies to boost market access
- 
DEMONSTRATE the database and marketplace in combination with training activities and derive a feasible business model
- 
INCREASE awareness and impact through effective and measurable communication and dissemination activities and the developed solutions



BIOMATDB

PROJECT FACTS


Duration
06/2022 to 11/2024


Programme
Horizon Europe


Reference
101058779


Coordinator
SYNYO

**FOLLOW US
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DEVELOPMENTS**


 www.biomatdb.eu


 office@biomatdb.eu


 [@biomatdb](https://twitter.com/biomatdb)





This project has received funding from the European Union's Horizon Europe Coordination & Support Action under Grant Agreement No 101058779.































Figure 8. BIOMATDB Leaflet (Back)

In addition to the leaflet, a roll-up has been created that partners can use to present the project at conferences or other events.



Figure 9. BIOMATDB Roll-up

For dissemination purposes, business cards have been designed that can be handed out at in-person events.

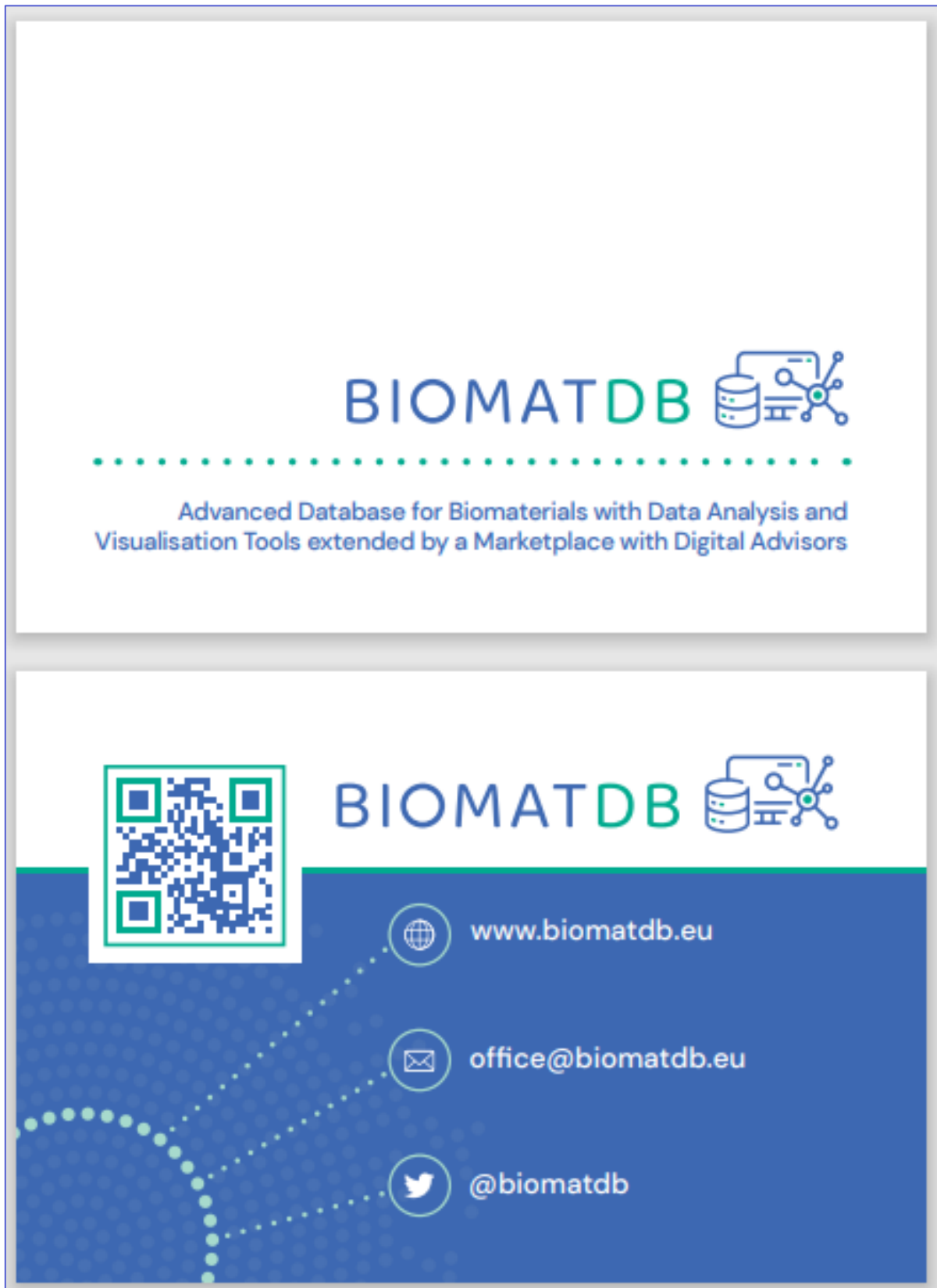


Figure 10. BIOMATDB Business card

Furthermore, stickers of the BIOMATDB logo and icon have been designed and printed.

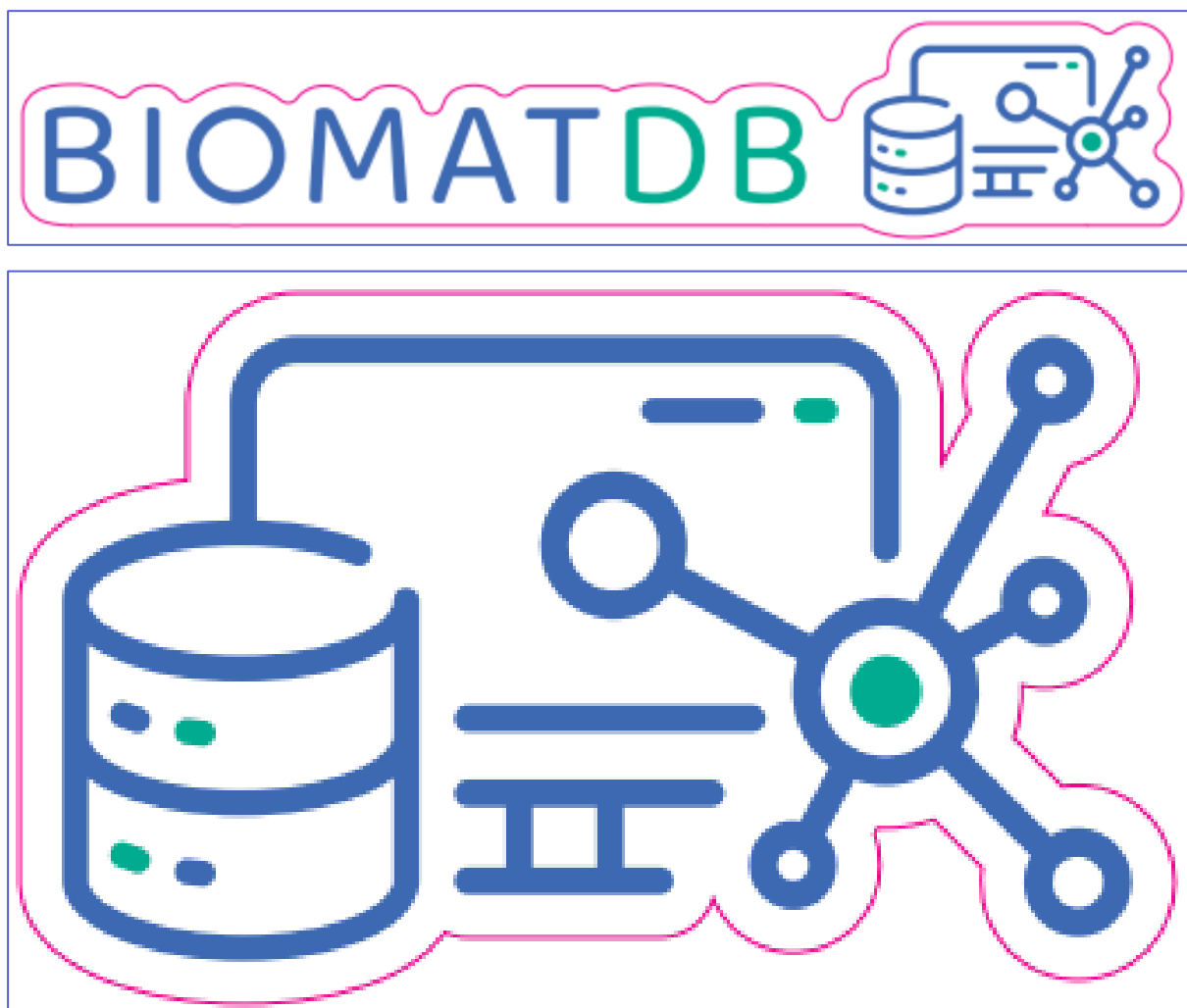



Figure 11. BIOMATDB Sticker templates

To ensure a coherent identity of presentations about the BIOMATDB project at events and conferences, a presentation template has been designed that can be used by partners and includes a variety of different types of slides which reflect the project's colours and visual identity.



Title of the presentation











Sub title of the presentation


Organisation name or similar


Person name | Role (or similar)

Event name | Location (or similar)

Date (or similar)





Titel hinzufügen

Text hinzufügen

XXXXXXXXXXXXX

- XXXXXXXXXXXXX
- XXXXXXXXXXXXXXXXXXXXX
- XXXXXXXXXXXXXXXXXXXXX

XXXXXXXXXXXXX

- XXXXXXXXXXXXX
- XXXXXXXXXXXXXXXXXXXXX
- XXXXXXXXXXXXXXXXXXXXX

XXXXXXXXXXXXX

- XXXXXXXXXXXXX
- XXXXXXXXXXXXXXXXXXXXX
- XXXXXXXXXXXXXXXXXXXXX

BIOMATDB

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Figure 12. Slides included in the BIOMATDB presentation template

To align all deliverables with the project identity and to ensure a coherent design among all of them, a deliverable template has been created. This template will be used for all project deliverables.

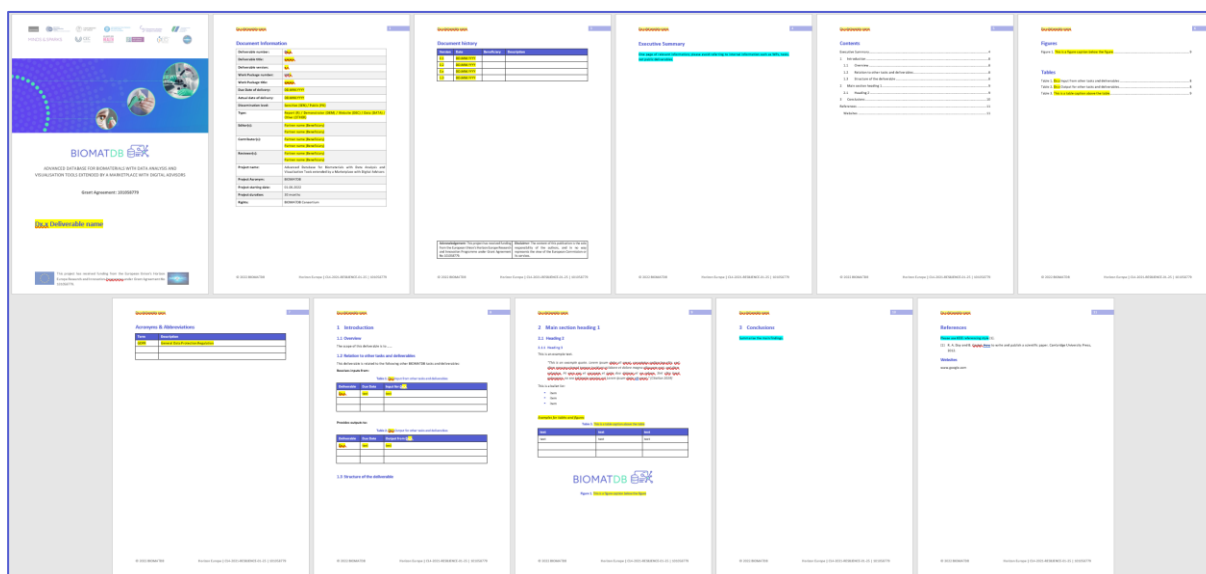


Figure 13. BIOMATDB deliverable template

6.2 Channels and online presence

To ensure the provision of stakeholders and the general public with relevant information about the BIOMATDB project as well as regular updates on its progress, several communication and dissemination channels and activities have been established. The different means of communication include the BIOMATDB project website, the project's social media channels, news articles published on the project website, conferences and events, workshops, and the BIOMATDB newsletter. Using these means, BIOMATDB will ensure the constant communication with stakeholders as well as the successful dissemination of project results.

6.2.1 BIOMATDB Project Website

The BIOMATDB project website www.biomatdb.eu has been launched at the beginning of the project and serves as the main pillar of the project's online presence. Its main goal is to inform stakeholders about BIOMATDB, its objectives and its outcomes.

On the homepage, users can find an overview of the project's objectives and the consortium partners as well as a link to the newsletter subscription form. Subpages of the project website include the following:

- A *News* section where the consortium regularly posts articles about relevant milestones and related topics;
- An *About* section containing important facts and information about BIOMATDB as well as access to public deliverables;
- A *Consortium* page where all the partners are being presented;
- A *Media* page providing downloads of the BIOMATDB Logopack and the BIOMATDB Leaflet;
- A *Contact* page including the project's contact information and a contact form.

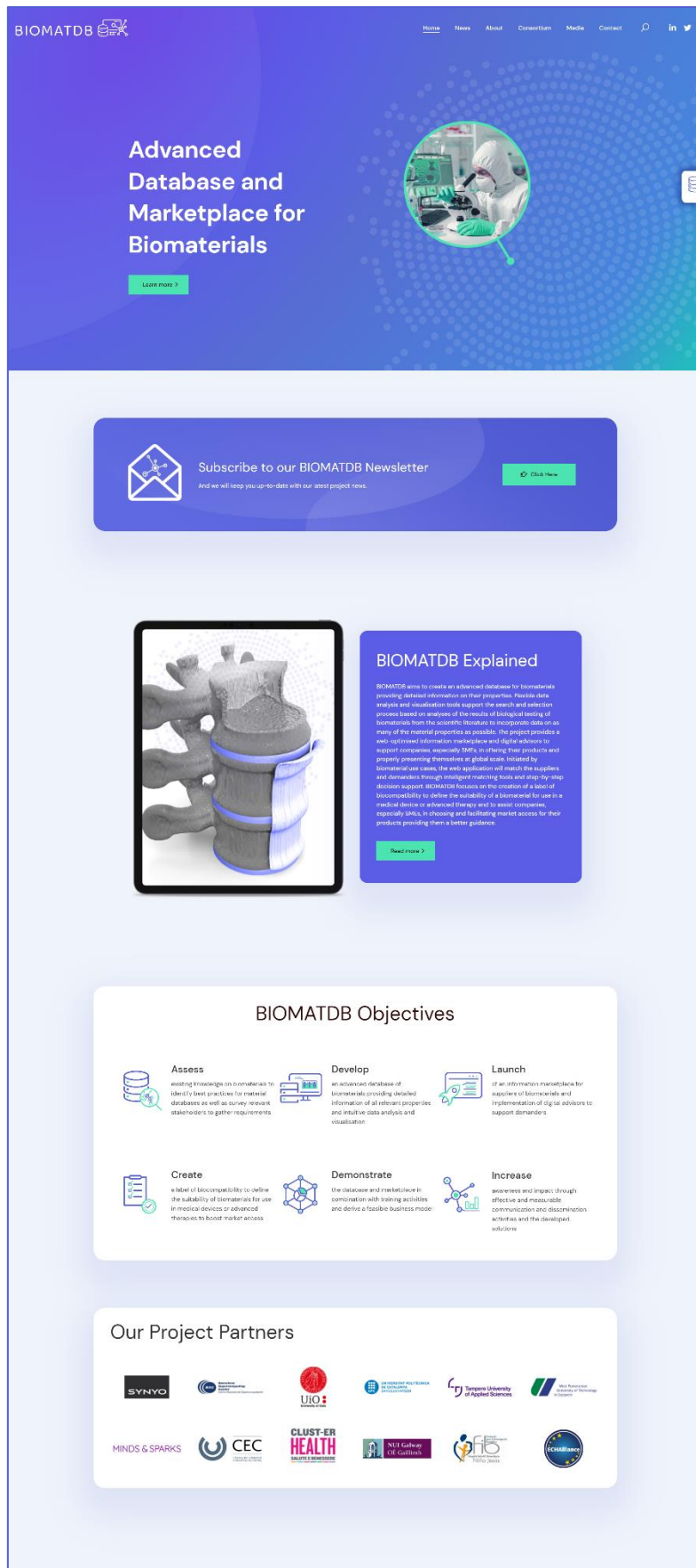


Figure 14. BIOMATDB Project website

Activity on the project website is being monitored via Google Analytics. As of October 2022, the BIOMATDB project website has been visited by more than 460 users in over 950 sessions, with a total of over 2,550 page views and an average session duration of 3:12 minutes. The KPIs for all online instances of the project can be found in [section 9.4](#).

6.2.2 Social media

To maximise awareness about the BIOMATDB project and enable two-way-communication with stakeholders, a Twitter and a LinkedIn as well as a YouTube channel have been set up and are being operated by MINDS & SPARKS GmbH. The YouTube channel has not been used yet but it is planned to utilize this channel later on in the project to either link to videos from other related or relevant projects, stakeholders or entities, or to disseminate video recordings of workshops and seminars and therefore provide valuable knowledge to stakeholders. On the Twitter and LinkedIn channels, the consortium publishes regular updates on the project's progress, information about events, and other relevant information since the start of the project. All partners contribute to the provision of content for the two channels. Apart from raising awareness about the project, social media channels are an important way of establishing connections with people and organisations in the field, building networks and laying the ground for future collaborations.



Figure 15. BIOMATDB Twitter page

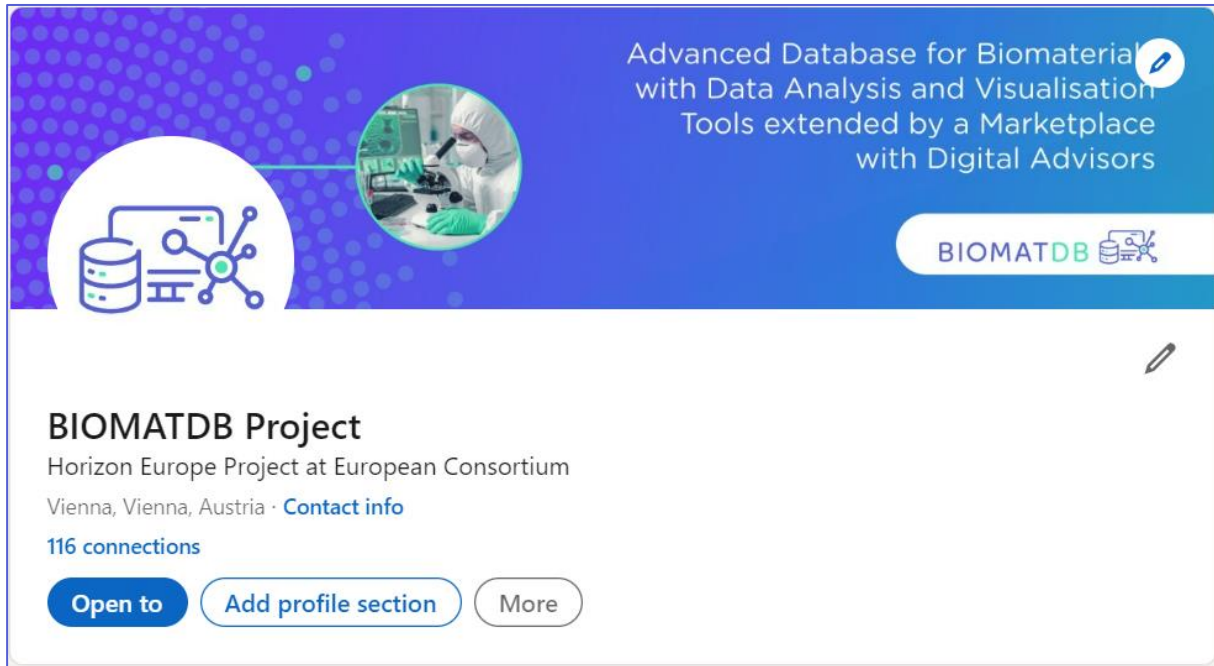


Figure 16. BIOMATDB LinkedIn page

Activity and interactions on the project's social media channels are being monitored through built-in analytics tools as well as manual documentation. The two channels have experienced a steady growth in followers since the start of the project, with the Twitter channel currently having 133 followers and the LinkedIn channel having 140 followers. So far, 66 Twitter posts and 22 LinkedIn posts have been published. [Figure 17](#) shows insights from the built-in Twitter analytics tool and provides an overview of profile visits per month, tweets per month, impressions per months and followers over time. [Figure 18](#) shows the increase in LinkedIn followers over time, documented manually as there is no built-in analytics tool. It has to be considered that the data from October is still incomplete (hence the lower number of Tweets and interactions) and will be updated by the end of the month. The KPIs for the social media channels can be found in [section 9.4](#).

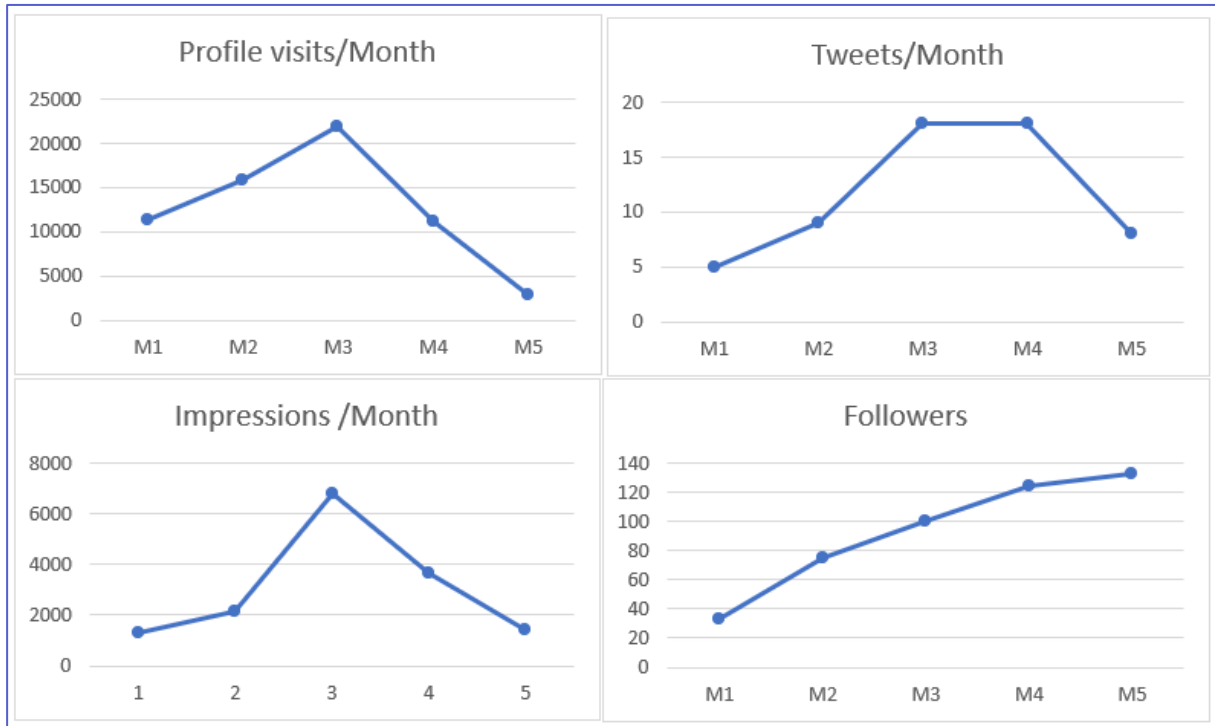


Figure 17. Twitter analytics

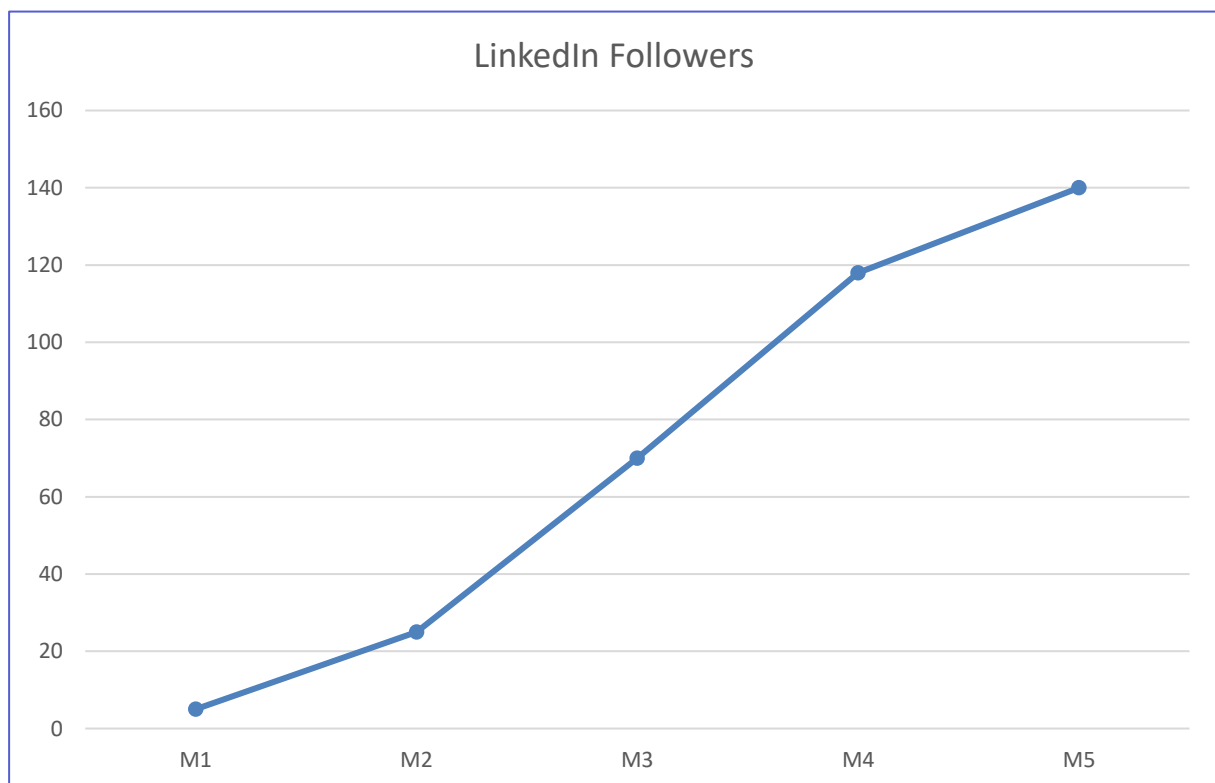


Figure 18. LinkedIn followers over time

To support the partners in the creation of the social media posts and familiarize them with the system set up by M&S, guides have been created and sent out.

GUIDE BIOMATDB

BIOMATDB Social Media Posts

→ This guide describes the contribution of social media posts expected from all partners
 → The spreadsheet BIOMATDB STATUS Social Media Posts can be found [here](#)
 → MINDS & SPARKS will publish the posts via the established project social media channels (Twitter, LinkedIn)



Step 1

- **Column A & B:** deliver the post by the **specified delivery date** as allocated to your **organisation**
- **Column G:** select a post category which should help you get ideas on various suitable topics
- **Columns H – J:** M&S specification of the type of social media. However, if you prefer to create a Twitter Poll instead of a Twitter Post, simply move the **X** symbol from **column H** to **column J**.

Del. Org.	Delivery Date	Status	Post Date	Topic	Category	Post Type	Image	Video	Link
MINDS	27.06.2022	DELIVERED	27.06.2022	Kick-off Meeting Day 1	Event & Meeting	X			
MINDS	28.06.2022	DELIVERED	28.06.2022	Kick-off Meeting Day 2	Event & Meeting	X			
MINDS	29.06.2022	DELIVERED	29.06.2022	BIOMATDB Kick-off	Event & Meeting	X			
MINDS	27.06.2022	DELIVERED	27.06.2022	Project Website	Website & Communication				
MINDS	28.06.2022	DELIVERED	28.06.2022	Website Updates	Website & Communication				
MINDS	29.06.2022	DELIVERED	29.06.2022	Submission of Deliverables	Website & Communication				
MINDS	22.06.2022	DELIVERED	22.07.2022	Website Social media use	Website & Communication				

Step 2

- **Column T:** specify the link of your original image file which should also be saved [here](#).
- **Column T:** if you do not have an original image, you can link a Shutterstock (or similar) example
- Use the following naming convention: "**BIOMATDB Channel - Date of delivery (Acronym)**"

Step 3

- **Column C:** when you have completed your post, change the status to "DELIVERED"

Delivery Date	STATUS	Post Date
24.07.2022	TO DO	28.07.2022
29.07.2022	TO DO	03.08.2022

Delivery Date	STATUS	Post Date
24.07.2022	DELIVERED	28.07.2022
29.07.2022	TO DO	03.08.2022

GUIDE BIOMATDB

What else needs to be considered!

- Please keep to the **maximum number of characters** for your posts!
- Make sure that the used original images do not violate any **copyright!**
- Don't forget to change the **status** of your post so that MINDS & SPARKS can make sure it's ready!

Recommendations

- Tag @HorizonEU in your posts: relevant posts might be shared on EU social media accounts
- Use #horizonEurope: tweets become searchable
- Be visual: pictures, videos, GIFs, data visualisations

Writing Guidelines


- Minimise use of abbreviations – except generally recognised acronyms
- Short, clear, catchy and use hashtags for relevant terms
- Polls: ask for the users' opinion on industry-relevant topics in context of BIOMATDB

Maximum number of characters

- LinkedIn: 600 with spaces
- Twitter post / poll question: max. 280 including spaces
- Twitter poll choices: max. 25 including spaces

EMOJIS

If needed, you can find a wide variety of suitable emojis for your posts here: <https://getemoji.com/>



Thank you for your support!

© 2022 BIOMATDB 2

Figure 19. Social media posts guide

6.2.3 News and knowledge articles

To offer more detailed information about relevant progress of the project as well as information about related topics, articles are regularly being published on the BIOMATDB project website. These articles contain information about project milestones, progress updates, events, or general information on different topics in the field of biomaterials and medical devices.

To differentiate between articles for different target groups, a divide has been made between so-called “news” and “knowledge” articles. While news articles are meant for a wider audience and include topics such as upcoming or past events of the consortium, progress of the project or more general information about the field of biomaterials, knowledge articles are aimed at a more scientific audience and offer a deeper insight into biomaterial-related topics.

Each consortium partner is expected to provide a total of six articles during the project duration, four of them being news and two being knowledge articles.

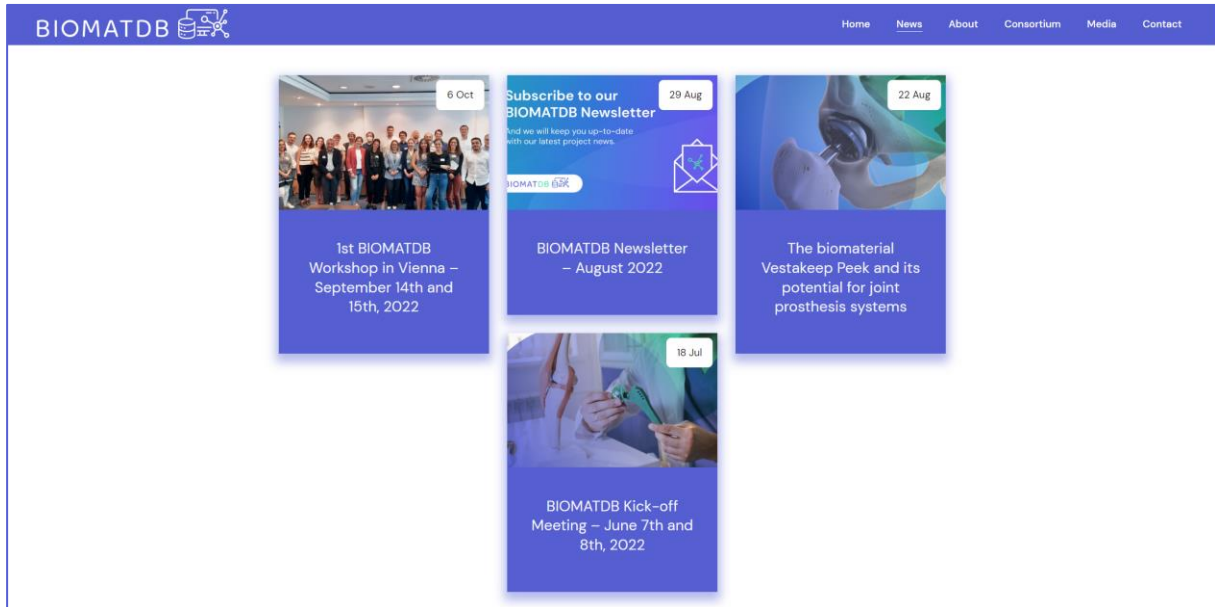


Figure 20. News section of the project website

The following guide has been created and distributed among the consortium to explain what contributions are expected from the partners in this area.

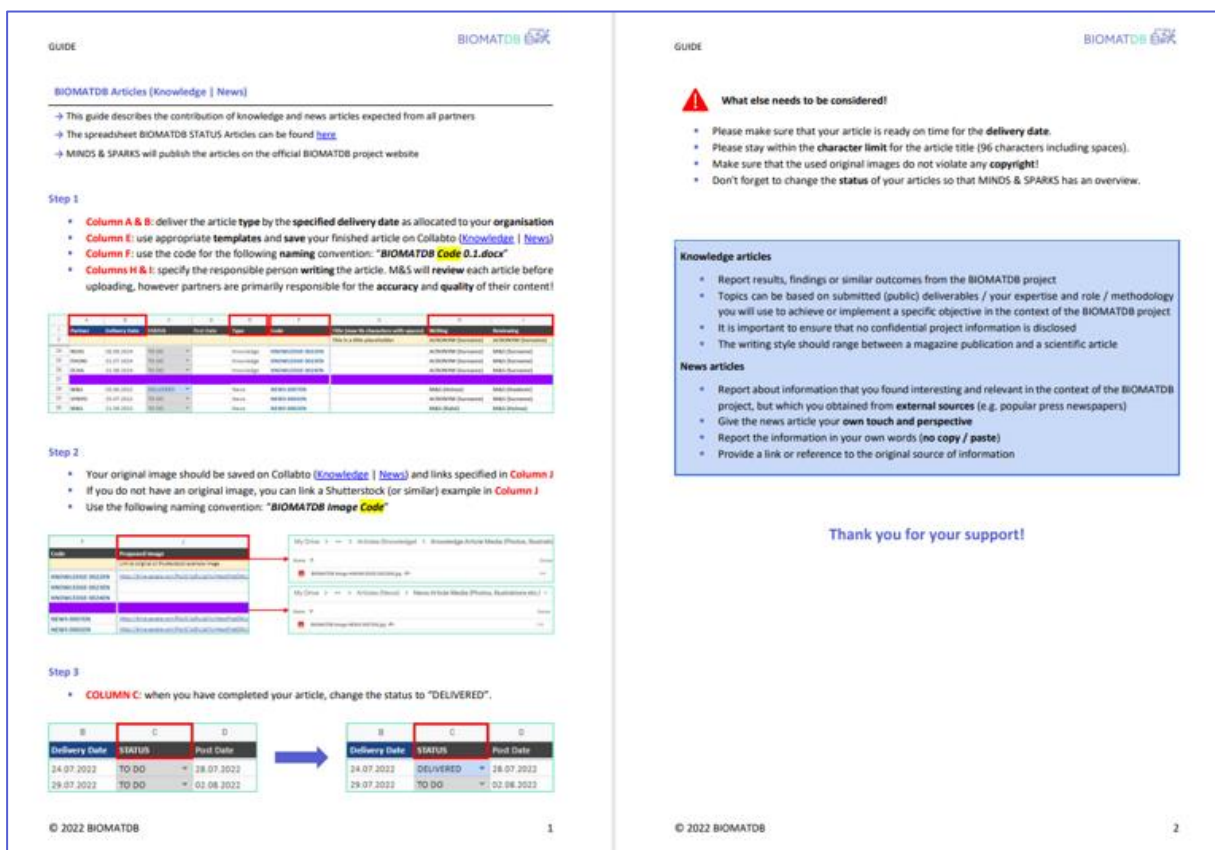


Figure 21. News & knowledge articles guide

6.2.4 Newsletter

The BIOMATDB newsletter has been created to offer regular updates about the project to interested stakeholders. The sign-up form can be found on the homepage of the project website. The newsletter will be sent out at least twice per year and provides updates about the project's progress, events, and opportunities for involvement.

The first newsletter has been sent out in August 2022 and is available on the project website (www.biomatdb.eu).

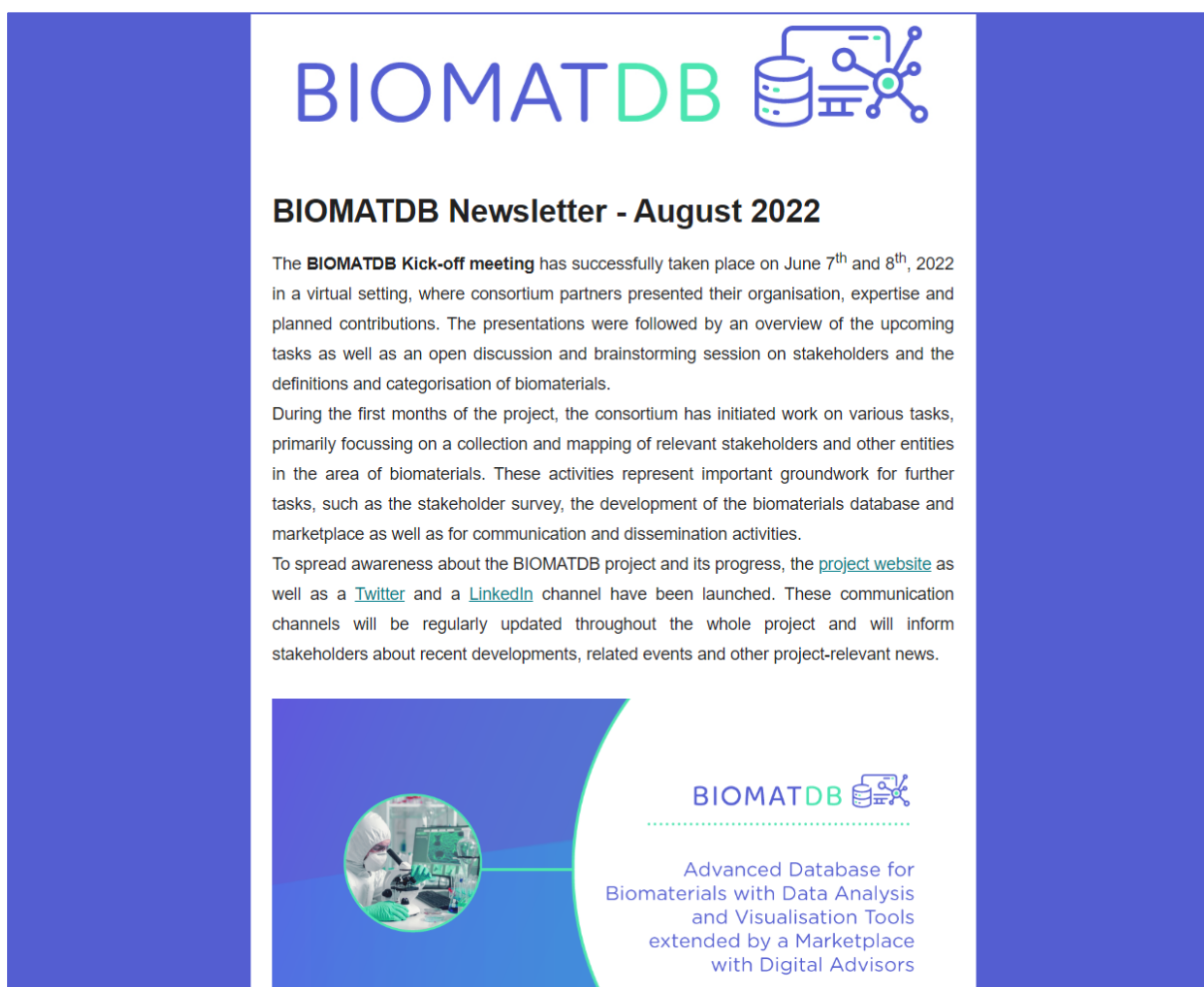


Figure 22. The first BIOMATDB Newsletter

6.3 Policy briefs

As part of the dissemination activities, BIOMATDB plans to publish policy briefs to ensure the project's impact on national and regional policy makers as well as other regulatory bodies. These policy briefs will rely on the outcomes of the project as a base for the definition of recommendations, needs, issues and solutions. Thereby, BIOMATDB aims to have an impact on sectors like healthcare, database protocols, sustainability, resistance, biocompatibility, medical regulation, and others. In addition to the distribution of policy briefs, BIOMATDB also plans to host ad-hoc briefings with relevant authorities and policy makers.

7 Dissemination activities

In the following section, past and planned dissemination activities by the BIOMATDB consortium will be presented. These activities aim to raise awareness about the project and maximise its impact.

7.1 Participation in events

7.1.1 Past events

Since the start of the project, members of the BIOMATDB consortium have been participating in various exhibitions, conferences, brokerages and workshops, where the project and its aims were presented to stakeholders such as industry, academia, researchers and other relevant target groups. Participation in these events facilitated networking, communication and dissemination with and among stakeholders in the project field.

The following table presents the events where BIOMATDB has been represented by consortium partners. The events are listed chronologically to provide a clear overview of the dissemination activities that have been carried out so far with the aim to raise awareness and maximise the project's impact.

Table 5. Past events organised or attended

BIOMATDB Partner	Date	Event name	Location	Type of activity	Main audience
CLUSTER	14.7.2022	Internal "Materials innovation" working group	Online	Presentation of the BIOMATDB project and call for support with the collection exercise	Local researchers
SYNYO	27.8.2022	3 rd Europe-China Health IT Summit	Prague (Czech Republic)	Presentation of the BIOMATDB project	Industry
CLUSTER	20.9.2022-23.9.2022	International Conference Bioceramics32	Venice (Italy)	Presentation of the BIOMATDB project	Academia, researchers
SYNYO	20.9.2022-28.9.2022	MedFIT 2022	Grenoble (France)	Presentation of the BIOMATDB project, brokerage event	Industry

ZUT	22.9.2022-23.9.2022	1 st Baltic Symposium on Polymer and (Bio)Materials Science in the Nanotechnology Center for Research and Education	Szczecin (Poland)	Presentation of the BIOMATDB project, networking activities	Academia, several industrial representatives
M&S	4.10.2022-5.10.2022	4 th Digital Health Society Summit (DHSS)	Online	Presentation of the BIOMATDB project through a virtual booth, networking activities	Stakeholders in the field of (digital) health
CLUSTER	4.10.2022-5.10.2022	B.T. Expo Shomed (Biomedical Technologies Expo)	Modena (Italy)	CLUSTER brought BIOMATDB materials to its booth to present the project to attendees	National industry
CARLA FUENTESLOPEZ	5.10.2022-8.10.2022	TERMIS-AP 2022	Jeju (South Korea)	Mention of BIOMATDB during a presentation of the DEBBIE project	Researchers
SYNYO	17.10.2022-19.10.2022	Meet in Italy for Life Sciences – Brokerage Event 2022 – MIT4LS BE 2022	Online	Presentation of the BIOMATDB project, networking activities	Industry

7.1.2 Future events

To optimize communication and cooperation with stakeholders and representatives from all relevant areas, BIOMATDB consortium partners will continuously attend relevant events. The following table shows a collection of events identified as relevant where the attendance of consortium partners is planned. As the project progresses, further events and conferences will be added to this list.

Table 6. Future events to be organised and attended

Partner	Date	Event name	Location	Type of activity	Main audience
SYNYO	7.11.2022-11.11.2022	ASGH Deal Flow Matchmaking Session 2022	Hong Kong (Hong Kong)	Presentation of the BIOMATDB project, networking activities	Investors, project owners
SYNYO	3.11.2022-17.11.2022	Virtual Brokerage Event @ Innovation Village 2022	Online	Presenting and making a pitch on BIOMATDB to attract potential users of the biomaterial database and biomaterial marketplace	Industry
CARLA FUENTESLÓPEZ	7.11.2022-11.11.2022	Young Researchers Symposium 2022	Online	Presenting DEBBIE and introducing BIOMATDB	Researchers
UPC	10.11.2022	HealthTech2030	Barcelona (Spain)	Networking event, distribution of promotional material	Entrepreneurs, technologists, researchers, healthcare professionals, students
UPC	25.11.2022-26.11.2022	XLIV Congress of the Iberian Society of Biomechanics and Biomaterials	Cáceres (Spain)	The president of the SIBB (UPC member) will distribute promotional material to attendees	Biomaterials, biomedicine and sports biomechanics experts

7.2 Publications

To ensure the presentation of the project's outcomes to the scientific community and thereby sustainably exploit project outcomes and results, the BIOMATDB consortium aims to publish articles and publications. Since the project is currently still in its early stages, no publications have been

published yet. As the project progresses, BIOMATDB plans to publish articles and publications in order to share outcomes of the project with the scientific community.

For publications related to BIOMATDB, the following journals have been identified as relevant:

Table 7. Relevant journals

Title of journal	Description	Website	Acronym	Publisher
Nature Reviews Materials	Nature Reviews Materials is an online-only journal for the weekly publication of Reviews, Perspectives and Comments in all scientific disciplines within materials science.	https://www.nature.com/natrevmats/	Nat Rev Mater	Nature Publishing Group
Advanced Functional Materials	Advanced Functional Materials is a journal including the topics of material science, nanotechnology, liquid crystals, optics, ceramics, and more.	https://onlinelibrary.wiley.com/journal/16163028	Adv. Funct. Mater.	Wiley-VCH Verlag
Biomaterials	Biomaterials is an international journal covering the science and clinical application of biomaterials.	https://www.sciencedirect.com/journal/biomaterials		Elsevier
Materials Today Nano	Materials Today Nano is a multidisciplinary journal welcoming submissions spanning nanoscience and nanotechnology.	https://www.sciencedirect.com/journal/materials-today-nano		Elsevier
Biofabrication	Biofabrication focuses on cutting-edge research regarding the use of cells, proteins, biological materials and biomaterials as building blocks to manufacture biological systems and/or therapeutic products. It is also the official journal of the International Society for Biofabrication (ISBF).	https://iopscience.iop.org/journal/1758-5090		IOP Publishing Ltd.

Advanced Healthcare Materials	Advanced Healthcare Materials is a journal in the area of biomaterials, biomedical engineering and pharmaceutical science.	https://onlinelibrary.wiley.com/journal/21922659	Adv. Health. Mat.	John Wiley and Sons Ltd
Regenerative Biomaterials	Regenerative Biomaterials is a fully open access, international, interdisciplinary, peer-reviewed journal publishing the latest advances in biomaterials and regenerative medicine.	https://academic.oup.com/rb	RB	Oxford University Press
European Cells and Materials	eCM Journal (Eur Cell Mater) provides an interdisciplinary forum for publication in the musculoskeletal field (Orthopaedics, Trauma, Maxillofacial (including dental) and Spine) of preclinical research, including the field of tissue engineering & regenerative medicine.	https://www.ecmjournals.org/index.html	eCM	AO Research Institute

7.3 Networking with EU-funded projects

As the BIOMATDB project and its database and marketplace will provide vital data to researchers, networking with other EU-funded projects will be a central focus of the project's dissemination process. For this purpose, the project aims to collaborate with projects such as EU-funded Open Innovation Test Beds, three of which have already been identified and listed in **Table 8**. The table further displays other projects identified for potential collaborations, which the consortium plans to contact.

Table 8. Projects and clusters identified for potential collaboration

Title	Topic of interest for BIOMATDB
MDOT (814654)	Open Innovation Test Bed
SAFE-N-MEDTECH (814607)	Open Innovation Test Bed
TBMED (814439)	Open Innovation Test Bed
IRMI	Infrastructure for the development of advanced treatment aimed at organ and tissue regeneration
Step-by-step	Solutions for the treatment of acute neurological injuries

Mat2Rep	Multifunctional biomaterials for tissue repair
Cubibox	Technical platform for ex-vivo screening tests
Phoenix (953110)	Pharmaceutical Open Innovation Test Bed
BIOMAT (953270)	Open Innovation Test Bed for nano-enabled bio-based PUR foams and composites
FormPlanet (814517)	Sheet metal forming testing hub
LightMe (814552)	Open Innovation Ecosystem
LEE-BED (814485)	Tailored solutions for the manufacturing of nanomaterials
OASIS (814581)	Commercialisation of lightweight composite materials
LightCoce (814632)	Ecosystem for the up-scaling of lightweight multi-functional concrete and ceramic materials and structures
FlexFunction2Sustain (862156)	Open Innovation Ecosystem
NextGenMicrofluidics (862092)	Next generation test bed for upscaling of microfluidic devices based on nano-enabled surfaces and membranes
INNOMEM (862330)	Open Innovation Test Bed
NewSkin (862100)	Innovation Ecosystem to accelerate the industrial uptake of advanced surface nano-technologies
INN-PRESSME (952972)	Open Innovation Ecosystem
BIONANOPOLYS (953206)	Open Innovation Test Bed
Iclimabuilt (952886)	Functional and advanced insulating and energy harvesting/storage materials across climate adaptive building envelopes
INNO4COV-19 (101016203)	Boosting innovation for COVID-19 diagnostic, prevention and surveillance

7.4 Project clustering

To ensure the project's recognition and sustainability within the European Research Area, BIOMATDB plans to carry out clustering activities with other EU research/R&D projects. For this purpose, relevant projects have been identified and will be contacted (see [Table 8](#)).

7.5 Horizon Results Booster

In addition to these clustering activities, BIOMATDB will receive further support from the services of the [Horizon Results Booster](#) (HRB). HRB offers services in the areas of communication, dissemination and exploitation to EC-funded projects. The service is split into three modules. Module A supports the creation of a results portfolio suitable for dissemination, as well as the identification of similar ongoing

projects to form a project group with. Module B focuses on the design of a joint dissemination plan for the project group formed as part of Module A as well as the actual dissemination of the results. Lastly, Module C offers support in the improvement of existing exploitation strategies with the aim to increase their effectiveness. BIOMATDB has successfully applied for the services of HRB and will start with Module A in the first quarter of 2023.

8 Communication activities

Communication activities are a crucial part of the project as one of the project's objectives is an increase of awareness and impact of its outcomes and solutions and thereby maximise the impact.

There are three main channels for project communication activities:

- In-person communication, for example at workshops, presentations, or meetings with relevant stakeholders;
- Written channels, for example leaflets or posters;
- Technology-based channels, for example websites and social media channels.

These channels are being used to spread project outcomes, build networks and communities, evaluate ideas and gather feedback. The main audience of the project communication activities are the scientific community to provide important data to researchers, the industry sector to improve competitiveness as well as the European industrial ecosystem, the health sector to improve their services and identify their innovation needs, and policy makers to reinforce digital and enabling technologies in the European Union.

The communication activities carried out as part of the project can be categorised into three general areas:

- *Promotion*: Raising awareness about BIOMATDB and its objectives, progress, results, and developments.
- *Involvement*: Engaging all relevant stakeholders in project activities to ensure their involvement in its progress.
- *Networking*: Forming strong and sustainable relationships in order to improve the long-term take-up of the BIOMATDB developments.

Over the course of the project, all partners will carry out communication activities with the aim to maximise the awareness and impact of BIOMATDB.

9 Monitoring and evaluation of the dissemination process

9.1 Individual dissemination and communication responsibilities

The responsibilities of each consortium partner regarding dissemination and communication activities can be summed up as follows:

- Provision of at least 30 social media posts (one per month)
- Creation of four news articles
- Creation of two knowledge articles
- Continuous reporting of individual dissemination activities, including the following:
 - Posts on the organisations' websites
 - Posts on the organisations' social media channels
 - Newsletters
 - Attendance of events
 - Publications

The spreadsheets used to monitor the fulfilment of these responsibilities are described in the following chapters.

9.2 Dissemination and communication management

To ensure that the news section of the project website as well as the social media channels are being updated regularly and the provision of content is being distributed between all partners, spreadsheets are being used to keep track of upcoming and past contributions. The spreadsheets have been set up by MINDS & SPARKS, who is in charge of uploading all posts and articles, and have been made available to all partners. They are being used to allocate responsibilities for upcoming posts and articles as well as to keep an overview of all past activity.

Figure 23 shows the spreadsheet that is being used to plan upcoming social media posts provided by all consortium partners and to keep track of past activities. It contains information about the posts such as the expected delivery date, the post date, the general context of the post, the channel on which it has been posted, and content-related information such as the post itself, hashtags, mentions, and included links and images.

Figure 23. BIOMATDB STATUS Social Media Posts

The spreadsheet shown in Figure 24 is being used to keep track of the news and knowledge articles posted on the BIOMATDB project website. It contains information such as the expected delivery date for each article as well as the actual post date, the title and the author of the article.

Figure 24. BIOMATDB STATUS Articles

9.3 Planning, steering, and reporting

In order to plan and keep track of dissemination and communication activities as well as to meet the KPIs listed in section 9.4, several spreadsheets were set up in Google Sheets. These sheets are being used to plan and keep an overview of relevant events that might be of interest for consortium members, attended events, publications, and media activities. These spreadsheets are shared with all

partners and are being continuously updated as dissemination and communication activities are carried out. Each partner has the responsibility to enter their activities and related information into the relevant sheet.

The spreadsheet shown in **Figure 25** is being continuously updated to keep track of upcoming events that might be of interest for the consortium, and the partners that might attend them.

Figure 25. BIOMATDB STATUS Dissemination Continuous Reporting - Opportunities

The spreadsheet displayed in **Figure 26** contains a list of all events attended by consortium partners as well as future events where attendance is planned.

Figure 26. BIOMATDB STATUS Dissemination Continuous Reporting - Activities

Figure 27 shows the sheet that is used to keep track of all media activities related to BIOMATDB that are carried out by partners of the consortium. This includes, for example, newsletters, posts on the organisations’ websites, and posts on the partners’ social media channels.

Partner	SMART	Media Type	Date	Title / Name / Short Description	URL	Main Audience	Scale	Expected Outreach	Views	Engagement	Downloads	Reprints	Links	Comments	Comments	Contributor
SPRC	SMART	Website post	03.09.2022	This is the placeholder	Post, etc.	SMART	SMART	Approx. 2.8k posts								SPRC (Spain)
SPRC	SMART	Website post	03.09.2022	EU funding to create an "Advanced Database and Marketplace for Biomaterials"	https://chamber.com/	General Public	International	Intl								SPRC (Spain)
ECMA	SMART	Website post	04.09.2022	The ECMMance is a partner of the newly started Horizon Europe BIOMATDB project	https://chamber.com/	General Public	International	Intl								ECMA (Madagascar)
ECMA	SMART	Website post	03.09.2022	New awards, new projects, what is ECMMance working on?	https://chamber.com/	General Public	International	Intl								ECMA (Madagascar)
MSB	SMART	Website post	27.08.2022	BIOMATDB Project reference on MSB website	https://www.msbs.eu/	General Public	International	+1000								MSB (Denmark)
MSB	SMART	Page / Structure / Poster	01.09.2022	Initial BIOMATDB Project website		General Public	Large	+1000								MSB (Denmark)
SPRC	SMART	Website post	03.09.2022	BIOMATDB Project reference on SPRC website	https://www.sprc.eu/	General Public	International	+10000								SPRC (Spain)
CUINTER	SMART	Website post	04.02.2022	BIOMATDB: Clean QR-Health among the partners of the new European project	https://chamber.com/	General Public	International	Intl								CUINTER (Spain)
SPRC	SMART	Tumblr	07.09.2022	Kick-off Meeting	https://chamber.com/	General Public	International	Intl								SPRC (Spain)
ECMA	SMART	Newsletter	08.07.2022	Join ECMMance in creating a global marketplace for Biomaterials!	https://chamber.com/	General Public	International									ECMA (Madagascar)
CUINTER	SMART	Website post	02.09.2022	BIOMATDB: Stay informed about the project!	https://chamber.com/	General Public	International									CUINTER (Spain)
SPRC	SMART	Tumblr	08.09.2022	Event in person meeting of the BIOMATDB Project	https://chamber.com/	General Public	International									SPRC (Spain)

Figure 27. BIOMATDB STATUS Dissemination Continuous Reporting - Media

9.4 Dissemination and Communication KPIs

The Key Performance Indicators (KPIs) listed in **Table 9** have been established in order to evaluate the effectiveness of the project’s dissemination activities according to the main goal of raising awareness about the project outcomes and enable networking between relevant stakeholders. The KPIs will be monitored regularly and allow the proper adjustment of the dissemination activities as the project progresses.

Table 9. Dissemination and Communication KPIs of BIOMATDB

Activity	Description	KPI	Success Indicator	Means of verification	Status
Online activities	To provide regular updates on the project and its outcomes as well as to raise awareness about BIOMATDB, a project website has been set up. The database and marketplace will be the main outcomes of the project.	Number of visits on the PWS, database and marketplace Number of page views Average visit duration	30.000+ visits on all online instances (project website, database and marketplace)	Google Analytics	In progress
Events	Partners will attend relevant events to spread awareness about the project and enable networking with relevant stakeholders.	Number of attended events Number of presentations done	10+ event attendances 3+ presentations	Number of events reached Number of events where the project was presented Number of participants at presentations	In progress
Promotional materials	Print and digital materials such as newsletters, leaflets and flyers are being created to communicate with stakeholders.	Number of promotional material types Number of newsletters Number of posts on CORDIS Number of videos	4 promotional materials 3 newsletters 1 post on CORDIS 3 videos	Materials available	In progress

Social media presence	The BIOMATDB social media channels provide regular update on the project and its progress and enable communication with stakeholders.	Number of posts on the social media channels Number of banners Number of accumulative followers Number of interactions	100+ social media posts and banners 250+ accumulative followers 200+ interactions	Built-in analytics tools of social media platforms	In progress
Stakeholder surveys & interviews	BIOMATDB will conduct interviews and surveys with stakeholders to gain information about their needs and requirements.	Number of interview participants	50+ survey and interview participants on requirements	Number of conducted surveys and interviews	Planned
Collection of companies	Companies will be collected to identify possible stakeholders of the project.	Number of collected companies	700+ companies (SMEs) collected	Number of collected entities	In progress
Test runs	To validate the project's results, test runs will be conducted.	Number of test users	40+ test users	Number of people attending the test runs	Planned

Training webinars	Training webinars will be used to disseminate knowledge.	Number of training webinars	10+ training webinars	Number of participants at training webinars	Planned
Workshops and platform demos	Workshops and platform demos will be used to disseminate results and knowledge.	Number of workshops and demos organised by the consortium	1 workshop 3 demos	Number of participants at the workshops/demos Number of follow-up activities resulting from the workshops Number of online accesses to the online community related with demos	Planned
Publications	Publications aim to share knowledge gained with relevant stakeholders.	Number of scientific papers Number of knowledge articles	3+ scientific papers 15+ knowledge articles	Number of scientific papers submitted by consortium partners Number of knowledge articles published on the website	In progress

Clustering and synergies with EU projects	Clustering and synergies aim to increase the dissemination and exploitation of project results.	Number of EU projects effectively reached Number of joint activities Presence in international events	3 projects reached 3 joint activities	Number of periodic bilateral exchange of news and communication Number of joint engagement events/demo sessions	Planned
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10 Exploitation plan

10.1 BIOMATDB Exploitation strategy and exploitation phases

One of the main objectives of the exploitation strategy is to transform the future BIOMATDB solutions and services (the advanced database and the informational marketplace) into marketable products and to create profitable outcomes as a result. To bring the BIOMATDB solutions to the market, a structured and methodological approach needs to be defined and implemented. The customized exploitation plan will allow the maximum possible impact of the achieved project results through appropriate business models. The main exploitation goal is to develop strategies for exploiting the project results and exploring their wider use, sustainability, and business feasibility.

Due to the complexity of the project and the size of the consortium, it is necessary to properly coordinate and allocate the partners' efforts, to monitor progress and plan activities during the project lifetime as well as to establish future actions in order to ensure successful sustainability of the BIOMATDB project beyond its lifetime. A properly set-up consortium has a high impact on the exploitation results of the project, where adequate and relevant stakeholders will help to gain a better understanding of the market. As a result, it will be easier to define and exploit BIOMATDB products and services, as well as to include further stakeholders such as biomaterial companies, researchers as well as decision makers in the field.

10.1.1 Overview of exploitable results

This section describes a preliminary list of expected exploitable results of the BIOMATDB project. The list will be updated over the course of the project and is expected to change based on the further progress and developments of the BIOMATDB project. As the final appearance and the exact technical implementation of the BIOMATDB solutions become more apparent during the course of the project, the exploitable results will be updated and defined more precisely and the Key Exploitable Results will be identified together with all consortium members.

Table 10. Overview of Exploitable Results

Item	Description	Type	Target Group	Expected Impact
BIOMATDB Project Website	The project website contains main information on the Horizon Europe project including access to public deliverables and a collection of news articles about the BIOMATDB project.	Website	Practitioners Hospitals Industry Authorities Networks Research General Public	The website will remain online to ensure that people interested in the project can find all relevant background information. In addition, it provides users insight to all public deliverables of the project.
BIOMATDB Knowledge Base (Documents, Projects, Databases, Ontologies, Biomaterial)	The BIOMATDB knowledge collection covers a wide range of areas in the field of biomaterials, including	Collection	Research	The BIOMATDB knowledge base serves as a useful tool for researchers as it covers a lot of areas in the field of biomaterials.

marketplaces, Biomaterial ecosystem, etc.	publications, marketplaces, stakeholders, other projects, databases, and more.			
BIOMATDB Library	A public Zotero library containing sources in the context of biomaterials.	Digital Library	Research	Especially for researchers it is helpful to have access to free available sources. The consortium compiled all important sources in a Zotero database that can be used to quickly find and cite relevant documents.
BIOMATDB Articles	Articles will be published regularly on the project website and include project news as well as information about developments in the field of biomaterials.	Article	General public Research Suppliers Enablers Demanders Policy makers and investors	The articles will keep stakeholders informed about the project and its outcomes and thereby improve the uptake of the developed solutions.
BIOMATDB Collection of definitions of biomaterials and historical overview	The collection of definitions and historical overview covers the key developments in the field.	Collection	Research	The collection serves as a tool for the development of the BIOMATDB solutions and can be further exploited by researchers and developers in the area of biomaterials.
BIOMATDB Ontology	The BIOMATDB ontology will be developed as part of the project.	Ontology	Research	The ontology will serve as a tool for text mining in the course of the development of the database and will be useful for future developments in the area of biomaterials.
Biomaterials Ecosystem – SWOT analysis	A SWOT-Analysis of the biomaterials ecosystem will be carried out	Analysis	Research	Research will be able to profit from the results of this analysis in future projects.

BIOMATDB Surveys and requirements analyses	Surveys are carried out to define the needs and requirements of the target groups of the database and marketplace.	Analysis	Researchers Suppliers Enablers Demanders Investors/Policy makers	The surveys and requirements analyses will provide valuable insights into the needs and requirements of stakeholders in the biomaterials area, that can be used for research and development.
BIOMATDB Publications	Publications in journals related to research and outcomes of the BIOMATDB project.	Publication	Research	Publications will guarantee the sustainable long-term exploitation of project results within the scientific community.
BIOMATDB Marketplace	The biomaterials marketplace will be developed as one of the main outcomes of the project.	Marketplace	Demanders Suppliers Enablers Research	The BIOMATDB marketplace will connect suppliers and demanders of biomaterials on a user-friendly and informative web platform.
BIOMATDB Database	The biomaterials database is one of the main outcomes of the project.	Database	Researchers Suppliers Enablers Demanders Investors/Policy makers	The BIOMATDB database will offer useful information about biomaterials that can be used by all kinds of stakeholders and serve as a valuable tool for future research in this area.

10.1.2 Exploitation routes

BIOMATDB will produce various scientific, research, engagement, and development outcomes, which have a high potential to be exploited in different ways by different stakeholder groups. The BIOMATDB consortium has identified the following initial exploitation routes: educational and scientific, commercial, and exploitation by/through networks, associations, initiatives and policy groups.

Educational and scientific exploitation

The knowledge collection, the biomaterial database, the marketplace, the developed ontology and publications developed in the course of the BIOMATDB project can become valuable resources for students (BSc, MSc or PhD) in the field of biomaterials and for the academic community searching for a comprehensive knowledge collection about biomaterials, detailed information about biomaterials' properties or wanting to bring a newly developed biomaterial to the market.

The identified scientific exploitation objectives of the BIOMATDB project are:

- Raising awareness on the project's outcomes and their benefits by reaching both academia and practitioner target groups.
- Building trust in the BIOMATDB solutions and services derived from this project.

These objectives can be reached through the implementation of several scientific exploitation activities, such as:

- Academic publications and conference participation: BIOMATDB partners have already been active and have participated in events to promote the BIOMATDB project and are planning to actively participate in future events as well. The consortium is also planning to organise events in the future. Additionally, the consortium is planning on writing scientific publications about the outcomes of the project.
- Other potential scientific exploitation measures are currently being explored: blog posts, policy papers, etc.

Commercial exploitation

Commercial exploitation aims to inspire interest and market demand concerning the BIOMATDB final solutions, especially with regard to the BIOMATDB marketplace. The consortium partners will use their well-established networks of European and national contacts to communicate the results of BIOMATDB project, draw their attention and increase its visibility.

Here, the target groups are mainly SMEs, start-ups, industry and investors providing venture capital. To target the European industry and especially SMEs, marketing campaigns and presentations to increase public awareness and commercialise the results of BIOMATDB are planned.

Exploitation by/through networks

The results of the BIOMATDB project can be exploited by biomaterial associations and networks, networks of clinicians, and industrial networks with medical device companies, start-ups or manufacturers in the field of biomaterials as members. The networks will profit from the extensive knowledge collection of the BIOMATDB project in the deliverables, news articles and the Zotero library, from the detailed information on biomaterials in the BIOMATDB database and from the support for getting market access through the BIOMATDB marketplace.

10.1.3 Exploitation strategy

Figure 28 offers an overview of the current exploitation strategy for the BIOMATDB project. This strategy will be continuously reviewed and adapted as the project progresses.

The BIOMATDB marketplace, database, ontology, digital advisors, survey results and articles have been identified as the main exploitable results. Existing project assets of use to BIOMATDB include DEBBIE, OpenMinTeD, eTOX, CATALOG, TBMED, SAFE-N-MEDTECH, and MDOT.

The preliminary exploitation plan of the project can be split into three phases. Phase A is the initial awareness phase and includes pre-marketing activities and a knowledge base creation, including:

- A knowledge collection;
- A stakeholder collection;
- Stakeholder surveys;
- Stakeholder interviews;

- A requirements analysis;
- Awareness-raising activities.

Phase B is the targeted awareness market phase and covers the exploitation of the first convincing project results. Actions in this phase include:

- Stakeholder mapping;
- A strategic analysis (SWOT);
- A PESTEL analysis;
- The demonstration of the database and marketplace;
- The use of exploitation channels;
- Clustering and networking.

Phase C is the strategic phase and focuses on the promotion and planning of joint activities beyond the project duration. This phase includes:

- Business planning;
- User targeting;
- Marketing materials;
- Online promotion;
- Promotion at event;
- Any further future activities.

Communication and dissemination actions will be carried out through various channels, including the project website, news and stories, social media channels, infographics, publications, and promotion materials.



Figure 28. BIOMATDB Exploitation Strategy

10.2 BIOMATDB exploitation actions

The following table presents the upcoming exploitation actions for the BIOMATDB project as well as the ones already carried out by the consortium. As the project is still in its early stages, this table only includes the already planned steps and will be further expanded as the project progresses.

Table 11. BIOMATDB Exploitation actions

Involved partners	Action	Type of activity	Status
M&S	Setup of communications, monitoring and controlling tools	System administration	Done
M&S	Setup of the shared BIOMATDB knowledge, materials and stakeholder collection environment	System administration	Done
All partners	First version of the individual exploitation plans	Documentation	Done
M&S + all partners	Deliverable 6.2	Deliverable	Done
All partners	Biomaterials literature and publications	Collection	In progress
All partners	Biomaterials definitions and classifications	Collection	In progress
All partners	Existing databases, marketplaces and ontologies	Collection	In progress
All partners	Competitor landscape (suppliers & providers)	Collection	In progress
All partners	Competitor landscape (products & services)	Collection	In progress
All partners	Collection of projects	Collection	In progress
HAKIMI and FUENTESLÓPEZ	DEBBIE project assets	Collection	In progress
All partners	Stakeholder mapping and end user segmentation	Collection	Planned
All partners	Strategic market analysis	Analysis	Planned
UIO + all partners	Demonstration of the BIOMATDB Database	Demonstration	Planned
All partners	Clustering and networking at events	Networking	Planned

The current and the next upcoming exploitation actions, due to the early stage of the project, focus mostly on a strategic analysis, including a mapping of the market landscape through the stakeholder

collection as well as a SWOT analysis of external and internal factors. Further actions will be defined in later stages of the project.

10.3 Workshops, webinars and knowledge transfer

To ensure that the developed solutions are optimized to the usage of its end users as well as to enable valuable knowledge transfer, BIOMATDB will host virtual training workshops and webinars parallel to the demonstration and validation phase. Attendees of the workshops will be able to gather insights into the results of the project's research, learn about its solutions and how they can be implemented. Furthermore, they will get the chance to provide their inputs and thereby support the development of the database and marketplace, which will ensure that they are adapted to their needs and will subsequently be exploited widely and sustainably.

10.4 Social media channels

The previously described social channels set up for the project will, apart from dissemination and communication purposes, be valuable tools to ensure the exploitation of the project's results. The Twitter and LinkedIn channels will be used for several purposes in this area, such as raising awareness about the project's outcomes among relevant stakeholders, promoting upcoming events or workshops, and engaging with stakeholders and networks to ensure the sustainable implementation and exploitation of the developed solutions. The YouTube channel will mainly act as a tool for providing recordings of workshops to make them available to an even broader audience. More detailed descriptions of the social media channels and their respective purposes can be found in [Section 6.2](#).

10.5 Events participation and publications

To present the most important outcomes and results of the BIOMATDB project, consortium partners regularly attend events and conferences. Participation in these events can facilitate networking activities, lay the ground for future collaborations with stakeholders and ensure the dissemination and exploitation of project results in the scientific community. An overview of past and upcoming events can be found in [Table 5](#) and [Table 6](#) in [Section 7.1](#).

In addition to the attendance of events, BIOMATDB partners also plan to publish publications related to relevant outcomes of the project. Thereby, the sustainable long-term exploitation of project results within the scientific community can be guaranteed.

11 Individual exploitation plans

The following chapter outlines the individual exploitation plans of all consortium members. These initial actions have been planned to ensure the successful and sustainable exploitation of the project's results and will be further adapted and expanded as the project progresses.

Guiding questions for the individual dissemination plans:

- Work packages: In what work packages are you involved and how?
- Connections and networks: How are you planning to exploit the connections, networks and Clusters that we establish during the BIOMATDB project?
- Lessons learned: How are you planning to exploit the lessons learned from the BIOMATDB project?
- Outcomes: How are you planning to exploit the biomaterials database and marketplace and other outcomes of the BIOMATDB project?
- Gain: What can you gain from the project? (e.g., Can you increase your number of publications? Will you find new employees? Will you make use of the solutions developed by BIOMATDB by putting a product on the marketplace or by utilizing the database?)

11.1 SYNNO GmbH (SYNNO)

Work packages: SYNNO is the coordinator of the BIOMATDB project and as such is responsible, among others, for supervising the implementation of the work packages, and the achievement of the project's objectives. SYNNO is also heavily involved in the WP3, in which is responsible for the creation of the technical concept of the biomaterial database and the biomaterial marketplace and its supporting components. Additionally, the organisation leads WP4 that focuses on the development activities in the project. In WP4, SYNNO is in charge of the development of the marketplace system and its backend and frontend components and also the implementation of the data analysis tools that will support the biomaterial database. Finally, SYNNO oversees the integration of the created label system on biocompatibility within the database and data tools as well as on the marketplace.

Besides these main responsibilities, the coordinator is involved strongly in all other work packages to ensure the timely implementation and quality assurance of the related tasks.

Connections and networks: SYNNO will seek to use the connections established by the consortium to leverage the organisation's networking. Hence, the coordinator will integrate gained knowledge into future research activities in the field. According to future projects, SYNNO is very active in identifying relevant calls in the ongoing Horizon Europe programme as well as in other international and national programmes. SMEs, hospitals, research institutes and academia in the medical sector are among the key partners of SYNNO when it comes to the development of innovative solutions. The available contacts and solutions collected by the consortium will thereby be an important asset to successfully tackle challenges that will be identified during the project. Hence, the gained knowledge and established audience of external stakeholders will be utilised by SYNNO for the creation of competitive consortiums and project concepts.

Lessons learned: SYNYO plans to conduct several virtual knowledge exchange activities in order to elaborate the established lessons learned and disseminate them to a larger audience of external stakeholders. Hence, the coordinator will seek to widely promote them and ensure their purposeful replication, so SMEs and other relevant organisations from the industry can build trust and facilitate market access for their products. This will also help investors make informed decisions and navigate through times of market uncertainty. Moreover, lessons learnt will provide contextual information that can help organisations in the field such as demanders and providers improve their future project planning processes. In this context and to ensure the replicability of the established lessons learnt, and thus raise awareness of the project's role for the wider upscale of biomaterials and biomaterials-based solutions, SYNYO will promote the collected insights through participation in upcoming conferences, topic related workshops and webinars.

Outcomes: SYNYO will seek to build upon the established networks of suppliers and demanders and induce them to exploit the biomaterials database and marketplace, introduce their existing client & supplier networks to the BIOMATDB community as well as involve their marketing & communication units. Moreover, to set the ground for their use, SYNYO will create additional promotional materials and visual content, including video recordings of the planned virtual knowledge collection and exchange activities with key players in the field. These will be widely promoted in the community to attract attention of organisations, which have not been engaged by the consortium yet. As a result, the coordinator will set the ground for the uptake of the both technological solutions and ensure their long term sustainable exploitation and implementation into current and future biomaterial research and innovation projects.

SYNYO has already started to actively engage with external organisations in the field of biomaterials and assess existing labelling systems and approaches. The collected insights will be utilised for the creation of a widely applicable biocompatibility label, which fits the needs of both demand and supply sides, and assists SMEs in developing a more competitive portfolio of biomaterials and biomaterials-based solutions. Finally, the collected contacts during the activities in WP2 will be further exploited by SYNYO to ensure wider participation in future project's activities such as webinars, workshops and virtual consultations. Hence, the coordinator will seek to use the established contacts in the community as amplifiers of the project's key messages and ensure higher visibility to the project's activities and outcomes.

Gain: After the process of development of the biomaterial database is completed, and all planned promotional materials are available, SYNYO will seek to integrate the solution into upcoming research and development projects with relevance to the uptake of biomaterials also in areas beyond their intended primary applications. Finally, the coordinator will seek to utilise the established network with suppliers of biomaterials and create a broad collection of products and solutions, which will be appealingly presented on the biomaterial marketplace. Hence, the coordinator will help SMEs and other industry organisations explore collaboration opportunities with their counterparts and enhance their market visibility.

11.2 Barcelona Supercomputing Center (BSC)

Work packages: BSC participates in WP1, in particular BSC will work on the data management plan. In the case of WP2, BSC leads Task 2.3, with the goal of elaborating meta use cases and defining requirements for the biomaterial database, analysis tools, the marketplace and digital advisors. BSC is

leading WP3, which has the aim to concept a target-group-oriented advanced biomaterial database and intelligent data processing tools (search, decision making, analyses, visualisations) including backend systems and frontends for individual demonstration partner use cases. Specifically, BSC participates in Task 3.1 related to the development of the core technical concept of the biomaterial database, data analysis tools, marketplace, and digital advisors. BSC also is responsible for Task 3.2, dealing with the specification of the data structures and formats covering relevant biomaterial properties and entities needed for the design of related analytical methods. BSC will work in case of the Task 3.3 on the elaboration, selection, decision, search and matching processes and algorithms in context of the database, data tools, marketplace, and advisors. The design of the technical backend framework including database system, and web application architecture is covered by Task 3.4, where BSC has a leading role. Moreover, BSC participates in Task 3.5 focussing on the actual tool-specific interface design of the web application frontends based on wireframes and mock-ups for selected end user devices. As for WP4, BSC has a leading role in Tasks 4.2 and 4.5. In the case of Task 4.2 BSC will work on the development of backend components and the implementation of intelligent data processing modules, while for Task 4.5 BSC will focus on the construction of the labelling system and technical improvements based on demonstration results and partner feedback.

Connections and networks: During the BIOMATDB project, BSC will engage and explore synergies with more technical partners working on large scale data processing, AI, language technologies, bioinformatics, life science database development and research infrastructures for life sciences such as ELIXIR. This will improve the update and technical exploitation of the generated resources in terms of curated and annotated biomaterials information and datasets. Moreover, BSC will also foster interest in the biomaterial's application domain by the HPC research community. Moreover, due to direct collaborations with hospitals in Spain and other European countries, BSC foresees fostering the implication and interest in the generated results by clinical sites across Europe.

Lessons learned: BSC will profit from the learning experience related to the adaptation of intelligent text processing components to cover biomaterials relevant concepts, properties, and attributes for a wide range of content types with human in the loop (biomaterials expert in the loop) scenarios, not only for the technical development of advanced deep learning NLP components but also from the direct user interaction, engagement and data validation and curation perspective. This will enrich previous expertise on biological, clinical, and chemical/toxicology databases and text processing efforts. The highly interdisciplinary nature of the BIOMATDB consortium, the interaction with a wide range of stakeholders will also extend BSC's view, technical capabilities, and exploration of commercial value of text-mining assisted research databases. Moreover, BSC will benefit from the direct interaction and work with biomaterials experts to create high impact labelled training data for the implementation of high impact, transversal components to process biomaterials content.

Outcomes: The BSC partner will be able to use the BIOMATDB data to further monitor the search behaviour of different types of end users to subsequently improve the underlying technical components and processing modules for processing biomaterials contents, in terms of recall and precision. Moreover, it will serve also to explore alternative frontend and data analysis options associated to the biomaterials database backend. Moreover, it will be also useful as a base to connect biomaterials relevant information to specific clinical or biomedical application scenarios of interest for BSC, such as cardiology.

Gain: BSC will have a clear academic and research yield through this project, as it is planned to publish journal and conference proceedings publications related to the technical development and results generated for this project. Moreover, it will allow BSC to find additional profiles working on this project that will complement the knowhow and technical skills already covered by the BSC research team.

11.3 University of Oslo (UIO)

Work packages: The most crucial part and role for UIO in the BIOMATDB project is the demonstration of the developed biomaterial database and all related data analysis and visualisation tools as well as the testing and validation of the biomaterial marketplace and all integrated digital advisors. These are defined in detail in WP5. UIO will not only validate, but also coordinate tasks and partners in order to specify the demonstration plan, define the test and training methodologies, and finally deploy the database. Along with the above, UIO together with all BIOMATDB partners will test the operation and functionality of the web-based system prototypes. Thus, UIO is not only involved with following up tasks of all other relevant WPs, but will lead the demonstration plan optimizing the methodology, and facilitating the generation and dissemination of guidelines for all testing partners and end users. The documentation and web interface structure will be further finetuned in the next few years.

Connections and networks: The Department of biomaterials of UIO is already involved with several national and European multidisciplinary projects using, testing and developing novel biomaterials. Thus, UIO will advertise and disseminate the purpose, functionality and web tools developed by the BIOMATDB project to the maximum to existing partners and collaborators. Moreover, UIO will disseminate the role and importance of BIOMATDB to students and academics, and hopefully build new collaborations exploiting the connections, networks and clusters established during this project.

Lessons learned: Currently there are gaps mostly in the definition of biomaterials, EU-network interactions towards biomaterial and medical device demonstration platforms. As academics and biomaterial experts, UIO fully supports free data dissemination for future use and translational applications. BIOMATDB is a pioneer project that will facilitate both.

Outcomes: The UIO partner will use and disseminate the BIOMATDB databases and marketplace for basic research collaborations and grant applications.

Gain: UIO aims to target new solutions and collaborations via the databases. Moreover, UIO being an academic partner, will teach, analyse and facilitate the dissemination of the biomaterial databases to the younger generation of scientists.

11.4 Universitat Politècnica de Catalunya (UPC)

Work packages: UPC is leading WP2 Define: Knowledge, Classifications; Ontologies, Requirements, Use Cases, Labelling Approach, and Data Sources. Within WP2, UPC is responsible for conducting T2.1 (knowledge compilation), T2.2 (stakeholder collection) and T2.4 (meta-use cases and label of biocompatibility).

Connections and networks: During the BIOMATDB project, UPC is producing a wide network of contacts in the biomaterials field, especially compiling researchers and research institutions, companies, medical doctors, societies, investors and policy makers/regulators. In this sense, UPC will take advantage of this network to ask for future collaborations and projects at different levels

(regional, national and European projects). Specifically, contacts with companies, hospitals and medical doctors will facilitate clinical translation and tech-transfer of future projects.

Lessons learned: UPC is mostly involved in the identification of relevant data sources and tools in biomaterials and related disciplines like bioengineering, biomedical engineering and materials science, as well as in related aspects like regulation, marketing, etc. In this regard, UPC has expanded its knowledge in these kinds of tools that will help us to be more efficient in applied research.

Outcomes: On the one hand, the BIOMATDB database will help the research group to find biomaterial data more easily which will increase efficiency and enable more effective research. On the other hand, the marketplace will provide purchasing solutions that will enable more efficient buying procedures.

Gain: UPC will increase the number of publications by leading 1 publication related with D2.1 and contributing in upcoming publications from other WP of the project. In addition, promotion of the BIOMATDB project will also contribute to the promotion of the research group, allowing future collaboration, contracts, job opportunities, etc. The BIOMATDB database and marketplace will be a crucial tool in our group that will facilitate research activity and purchasing decisions.

11.5 Tampere University (TAU)

Work packages: TAU is involved in all WPs, but WP2, WP5 and WP6. In WP2, TAU will provide core biomaterials expertise to help define use cases and requirements for the database and related tools, as well as aspects relating to the biocompatibility label. TAU is the responsible partner for task 2.5. TAU will participate in evaluation and validation in WP5. In WP6, TAU actively participates in dissemination and networking and is responsible for task 6.5.

Connections and networks: As an academic partner, TAU plans to get active connections and networks that can be utilized, e.g., in funding applications at EU-level, i.e., foreseeing future research partners. As an innovation-oriented university, TAU also plans to reinforce connections to the policy makers, regulatory bodies and investors to better utilize the innovations and IP as well as be able to follow and influence the medical device field. TAU also foresees educational collaboration and mobility between partners, especially academic partners. TAU is hoping to use the networks to distribute their academic surveys.

Lessons learned: TAU plans to learn especially about the database, its structures and contents, as well to be able to utilize it efficiently. TAU also plans to learn about how to build and maintain online marketplaces. Additionally, TAU will be more knowledgeable to perform surveys and questionnaires with this experience.

Outcomes: TAU foresees using both database and marketplace in our education. They can be utilized in all levels: BSc, MSc and PhD. Both database and marketplace can be of use in research as well, e.g., in finding information about the biomaterials not so well known (database) and finding e.g. service and material suppliers (marketplace).

Gain: The three biggest gains for TAU will be in getting a wider and broader professional network, the developed database of biomaterials and the marketplace. Via the network and at least indirectly as an outcome of BIOMATDB project TAU expects to get more publications and projects. TAU will promote the marketplace and database to their existing (industrial) networks and encourage them to place their products and services to the marketplace. TAU plans to contribute both solutions as widely as possible.

11.6 West Pomeranian University of Technology, Szczecin (ZUT)

Work packages: ZUT is involved in each WP, but most heavily in WP2 and WP5. In WP2, ZUT will provide core biomaterials expertise to help define use cases and requirements for the database and related tools, as well as aspects relating to the biocompatibility label. In WP5, ZUT will be the mobilisation lead for Demonstration B, involving database performance evaluation and validation. Finally, ZUT is also involved in WP6, where it will support and implement dissemination and communication activities.

Connections and networks: ZUT is an academic research oriented partner, thus the connections and networks established during the BIOMATDB project will be leveraged in terms of future collaboration, particularly at the level of EU projects. Additionally, connections with suppliers, enablers, and policymakers may open doors to translation of ZUT IP. Finally, the established connections, particularly with consortium partners, will also be used for guest lectures or workshops within educational curricula.

Lessons learned: Participation in BIOMATDB will yield a number of lessons regarding the organisation and project management, as well as communication and dissemination strategies that will be directly exploited in the context of future projects, particularly EU consortium projects. Additionally, BIOMATDB will provide lessons regarding technical aspects such as text mining, data classification, etc. aspects new to ZUT and useful from the standpoint of future research trends.

Outcomes: As a biomaterials research-focused academic institution, ZUT will be able to use the BIOMATDB database directly during research and planning tasks to increase efficiency and facilitate new collaborations. Additionally, the database will be useful in the course of the educational curriculum in order to familiarise students with biomaterials, their properties, and applications. Finally, the marketplace will be used to find new suppliers but also possible partners for translation of ZUT IP or participation in project consortia focused on translational aspects.

Gain: A primary and unique gain for ZUT will come from the networking opportunities presented by the consortium and other stakeholders. These valuable connections will be leveraged into potential partners for future collaborations and projects. Additionally, the lessons learned regarding project management, organisation, etc. will also be very valuable in terms of coordinating/participating in future EU project consortia. Additionally, as a project partner, ZUT will benefit from the promotion of the project, as well as from any joint publications, such as high-impact reviews or expert opinions. Finally, as part of the target audience of the database, ZUT will directly benefit from the primary project outcomes.

11.7 MINDS & SPARKS GmbH (M&S)

Work packages: MINDS & SPARKS is lead of WP6 which concerns dissemination, communication and exploitation activities. Furthermore, M&S contributes to other work packages as well, such as WP2 with the knowledge and stakeholder collection.

Connections and networks: MINDS & SPARKS will utilise connections and networks gained through BIOMATDB for future projects and collaborations to facilitate knowledge exchange and enable cooperation.

Lessons learned: MINDS & SPARKS will profit from the project by gaining knowledge in the field of biomaterials as well as know-how in establishing a digital database and marketplace. Furthermore, MINDS & SPARKS will gain additional experience in project dissemination and communication. This knowledge can be exploited for future projects and developments.

Outcomes: M&S will be able to draw from the experience gained in developing a marketplace and database and utilise this knowledge as well as possibly the database and marketplace themselves for further projects and collaborations.

Gain: MINDS & SPARKS will gain valuable connections with organisations, universities and other stakeholders in the area of health, IT and biomaterials. Furthermore, the organisation will gain knowledge in many areas that can be exploited for future work.

11.8 Business Council of the Center Region / Chamber of Commerce (CEC/CCIC)

Work packages: CEC-CCIC leads Task 5.5 from the WP5 - run marketplace and advisor application validations, evaluations and training and collect user feedback and is also involved in other tasks from this WP, such as the Task 5.2, WP2 and WP4.

Connections and networks: CCEC-CCIC will potentiate the connections and networks established during the BIOMATDB project for future projects and collaborations and to increase the cooperation field aiming to provide new business opportunities to the SME's of its network.

Lessons learned: CCEC-CCIC will gain particular experience from the direct work with building a database and the transference of knowledge between universities and organisations.

Outcomes: CCEC-CCIC has a major interest in the BIOMATDB biomaterial database and biomaterial marketplace, since they may provide new business opportunities to the SME's of its network.

Gain: CCEC-CCIC values the importance of the synergies built in this project, especially the opportunity to create a strong working relationship with major international stakeholders in this field, that represents an important sector to our SME's growth opportunities.

11.9 Clust-ER Health (CLUSTER)

Work packages: CLUSTER will be involved in most WPs of the project.

- WP1: participation in general BIOMATDB online and physical events (such as the BIOMATDB virtual kick-off meeting in June 2022 or the BIOMATDB workshop which took place in Vienna in September 2022) as well as preparation of the organisation's information required for the submission of the reports to the European Commission.
- WP2: involvement of its relevant members in the task of defining the requirements useful for the construction of the database/biocompatibility label as well as in the collection of information and knowledge relevant to the development of the database; engagement with relevant members to promote completion of survey.
- WP4: supporting the integration of data and content into the database
- WP5: supporting the validation of the final result of the project through the recruitment of members for participation as test users during the demonstration phase.
- WP6: supporting the concerns dissemination, communication and exploitation activities within our network of associates and professionals.

Connections and networks: CLUSTER will capitalise on the relationships and networks established during the project for the potential development of future partnerships, collaborations or funding proposals either at CLUSTER level or at members and stakeholders level. Sustainability of BIOMATDB will also be considered in relation to maintenance and exploitation of relations that will be developed along the project.

Lessons learned: The project results and lessons learned will be considered for the definition of future activities at cluster level and as a cluster asset for support activities with local actors.

Outcomes: CLUSTER intends to present the biomaterials database and marketplace to its internal 'Innovative materials' working group and other members in order to foster the exploitation of the main outcome of the BIOMATDB project, so that the developed solution is taken up and used. The project results will also be presented to Italian partners, particularly other life sciences clusters involved in the ALISEI initiative, and European partners involved in the CEBR - Council of European Bioregions initiative.

Gain: CLUSTER will develop a direct and shareable knowledge about biomaterials and their features, quite important information for the med-tech industry. CLUSTER itself will also gain new relationships and connections with organisations that are relevant to its focus area of health. CLUSTER aims at supporting and fostering the regional health innovation ecosystem through the creation of opportunities for territorial development. Therefore, any benefit to its members and stakeholders constitutes a positive impact for CLUSTER. Looking at the demand side, the use of the database by researchers, hospitals, universities and research centres to find information about biomaterials more easily and comprehensively would be a benefit. On the supply side, the adoption of the marketplace by our companies and SMEs to advertise their products and services and increase their sales would also amount to a gain.

11.10 National University of Ireland, Galway (NUIG)

Work packages: NUIG actively participates in all project work packages, receiving inputs from the biomaterial industry, clinicians, relevant institutions, and policymakers, subsequently analysing and presenting project outputs.

Connections and networks: CÚRAM, University of Galway, will benefit from interactions with key organisations, institutions, and other stakeholders in health, information technology, and biomaterials. In addition, the information gained will be used for future initiatives.

Lessons learned: The primary focus of the CÚRAM, University of Galway, is identifying suitable data sources and tools in biomaterials and associated disciplines such as regenerative medicine, biomedical engineering, and materials science. In this aspect, the outcome will widen its understanding, allowing to be more efficient in applied research.

Outcomes: The built BIOMATDB database will make it easier for the research team to discover biomaterial data, enhancing our efficiency and enabling more productive studies, saving time and making research more coherent.

Gain: CÚRAM, University of Galway will be gaining in terms of publication by contributing the data with other partners. In addition, the BIOMATDB project will further explore the research group, allowing for future cooperation, contracts, and career opportunities.

11.11 Hospital Infantil Universitario Niño Jesús (FHUNJ)

Work packages: FHUNJ participates actively in all work packages of the project, gathering insights from health care providers and professionals, involving patients, clinicians, institutions and policy makers, working along with the database developers and finally by testing and disseminating the outcomes of the project.

Connections and networks: FHUNJ is contacting the boards of Spanish and International Societies our clinicians belong to in order to generate awareness of the BIOMATDB project.

Lessons learned: Interviews will be conducted with the clinicians and management when they use the marketplace of the project.

Outcomes: FHUNJ expects to broaden the range of biomaterials that are taken into account by surgeons and in general in all the areas of our hospital, and in other general hospitals and healthcare institutions in Spain.

Gain: With regard to our own hospital, we hope that surgeons and doctors can have access to a greater supply of biomaterials directly or to medical devices from a greater number of companies and that they incorporate new biomaterials that are investigated and certified more quickly. FHUNJ hopes to show that it will turn out in less costs for the public health system. FHUNJ also hopes that the research carried out in the laboratory of advanced gene therapies can achieve greater visibility. It will also help establish a 3D printing unit for paediatric medical devices.

11.12 ECHAlliance (ECHA)

Work packages: ECHA is involved in WP1, WP2, WP4, WP5, and WP6.

Connections and networks: The ECHAlliance is a multi-stakeholder international organization, facilitating connection and knowledge exchange among the players engaged in digital health innovation and deployment, driving sustainable change and disruption in the delivery of health and social care. ECHAlliance facilitates the creation of local, regional and national digital health ecosystems which components gather in regular meetings, currently supporting 70 ecosystems in more than 78 countries and regions across the world.

Among these, many are keen to explore the applicability of assets, such as the BIOMATDB database in their settings. Furthermore, all of them have been impacted by the consequences of COVID-19 pandemic and would benefit of digitalized information that may help them to address the challenges that the outbreak has brought out.

Lessons learned: ECHA will aim to capture all new lessons learned effectively and ensure that they are used across the organization in all the current and future projects. Lessons learned become new knowledge for the organization and are a continuous process. They will be promoted internally wherein team members but also leveraged on to enrich the work of our ecosystems worldwide.

Outcomes: The BIOMATDB database, the marketplace and additional results will be surely of great use to different members of ECHA, namely health organisations, industry and policy makers. They will be widely disseminated, and networking activities may be put in place to connect stakeholders further and allow them to use the results in the future or even contribute to them, if possible.

Gain: The main gains expected are connected to the added value that ECHA can offer to its members and their ecosystems, which is in this case closely connected to the results being shared and further used in Europe and worldwide.

11.13 Carla V. Fuenteslópez

Although the subcontractors were not asked to do so directly, one of the subcontracted experts generously submitted her exploitation plan for the project in addition to those of the project partners:

Work packages: Carla V. Fuenteslópez is contributing to WP2 “Define: Knowledge, Classifications; Ontologies, Requirements, Use Cases, Labelling Approach, and Data Sources”. Specifically, she has documented DEBBIE assets, and is collecting existing knowledge and materials about biomaterials, providing knowledge regarding biocompatibility parameters and outlining relevant regulations and standards. These contributions relate primarily to the tasks T2.1 (knowledge compilation) and T2.4 (meta-use cases and label of biocompatibility). Despite this not being directly stated in her Collaborator Agreement, Carla V. Fuenteslópez is also assisting in T2.2 (stakeholder collection) as her expertise will directly benefit this task. In addition, Carla V. Fuenteslópez is involved with tasks 3.2 (Specify the detailed data structures and formats including all relevant biomaterial properties and entities and define related analytical methods), 5.4 (demonstration of the database), 5.5 (demonstration of the marketplace), and 6.5 (promote BIOMATDB in relevant events).

Connections and networks: Collaborating with this project provides Carla V. Fuenteslópez a unique opportunity to further expand her networks and work hand-in-hand with experts in both biomaterials and Natural Language Processing areas.

Lessons learned: Carla V. Fuenteslópez expects to apply the lessons learned in the BIOMATDB project to both ongoing and future research lines. Firstly, these will be directly applicable to her own PhD thesis, in which she uses biomaterials as a central part of her work. Carla V. Fuenteslópez intends to use the BIOMATDB biomaterial database for a thesis chapter and resulting publication.

Following the completion of her PhD, Carla V. Fuenteslópez will continue using and further expanding the network, assets and experience gained from the BIOMATDB project for the development of her new research projects.

Outcomes: Carla V. Fuenteslópez plans to lead 1-2 publications using the BIOMATDB database as the main asset. In parallel, she will use the database for her own PhD thesis. This will showcase the direct application of the biomaterial database in ongoing research; as well as contribute towards dissemination of the BIOMATDB project through the recognition/mentions in publications, talks and the actual thesis.

Gain: Carla V. Fuenteslópez expects to increase her number of publications and strengthen her work in topics as Natural Language Processing and Text Mining. Moreover, her contributions towards the BIOMATDB project will help ensure that the database and marketplace are useful and beneficial for researchers, clinicians and other stakeholders in the Biomaterials field. One of such applications will be the use of the BIOMATDB database for Carla V. Fuenteslópez’s own PhD thesis, as well as publications resulting from this work. At a later date, Carla V. Fuenteslópez has plans to list in the BIOMATDB marketplace the devices/products she has created (IP in process) and will develop as part of future research lines.

12 Conclusion

This additional report for D6.2 aims to summarize the channels, methods, means and activities to be carried out with the aim to maximize the project's impact through continuous dissemination and exploitation activities. The plan will be continuously reviewed and updated over the course of the project.

The deliverable provided an overview of the dissemination, communication and exploitation activities carried out and planned for the BIOMATDB project. It identified relevant stakeholders and target groups which all activities will be tailored to. Furthermore, an emphasis was put on the dissemination & communication plan of the project, including the aims and objectives as well as the process and the partners' individual dissemination plans. The report additionally provided an overview of the dissemination materials, including the established project identity, print materials such as leaflets and templates, and channels such as the BIOMATDB project website, social media channels and newsletters. Information was also provided on the project's dissemination activities. This included an overview of past and future events, planned publications, and networking and clustering activities. Moreover, an outline of the communication activities as well as an overview of the means of monitoring and evaluation have been given.

In addition to the dissemination and communication strategy, the deliverable also provided information on the BIOMATDB exploitation plan. This included an overview of exploitable results, exploitation routes and the exploitation strategy. Additionally, planned exploitation actions and channels have been outlined. Finally, the exploitation plan was concluded with the individual exploitation plans of the consortium partners.

As the project is still at an early stage, this plan will be continuously reviewed, updated and adapted according to further developments.

Websites

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<https://twitter.com/home>

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