

Project overview and structure

Advanced Database for Biomaterials with Data Analysis and Visualisation Tools Extended by a Marketplace with Digital Advisors



MINDS & SPARKS



Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or European Health and Digital Executive Agency. Neither the European Union nor the granting authority can be held responsible for them.



Facts and figures

Key information

Programme

Horizon Europe

Project Type

Coordination and Support Action

Project duration

30 months (01/06/2022 – 30/11/2024)

Partners

12 from (+3 subcontractors)

8 countries

Budget

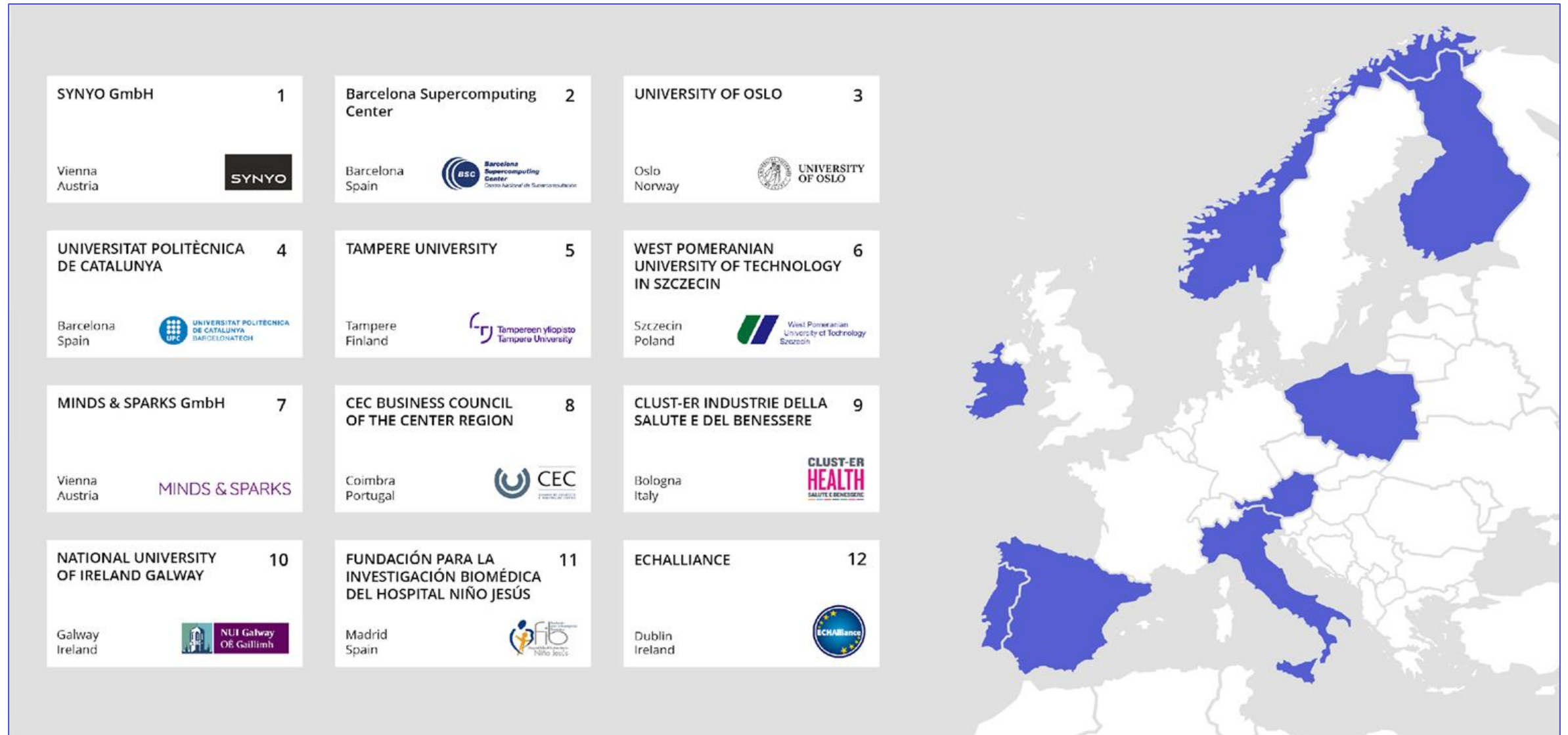
€2,799,150.00

Topic description (Extract)

*„One of the main challenges is to provide **accessible and well-structured data of biomaterials** for all relevant practitioners and user groups.“*

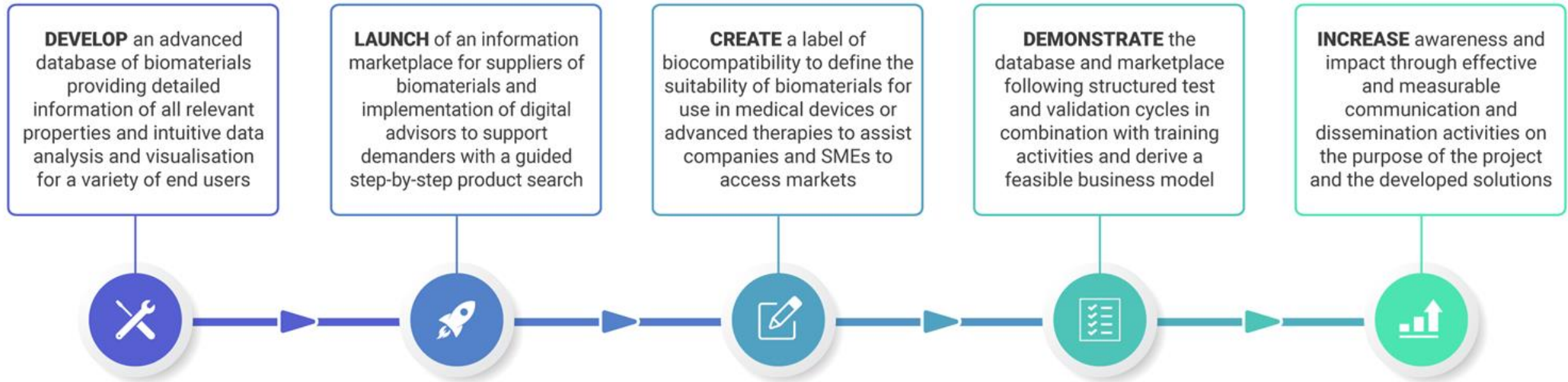
Project is expected to (Extract)

*“Create a database of biomaterials, providing detailed information on the **chemical-physical, biological and toxicological properties** accessible to wide variety of end-users, for e.g. researchers, companies and clinicians for the purposes of evaluating the biological and clinical usefulness also in the **areas beyond their intended primary applications**”*



Objectives

Key Information



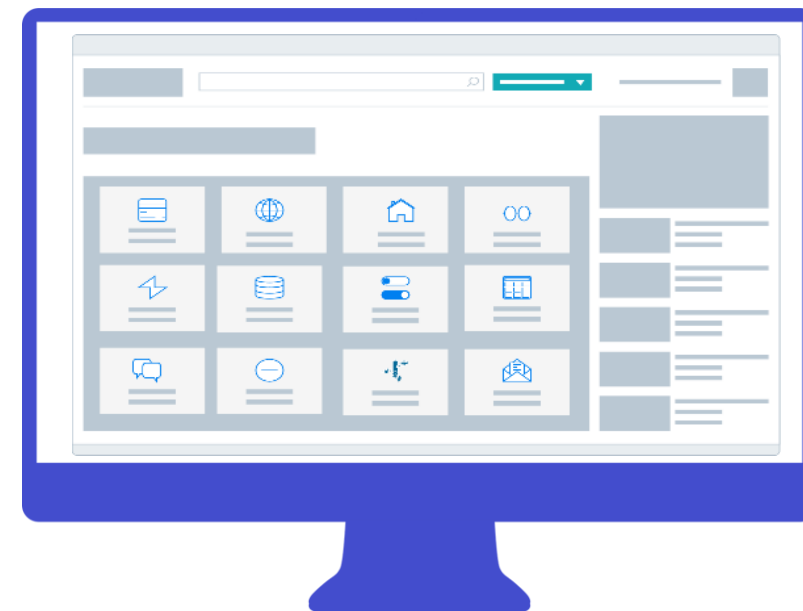
Biomaterial Database



Biomaterial Database, providing detailed information on the chemical-physical, biological and toxicological properties accessible to a wide variety of end-users such as researchers, companies, clinicians, etc.

www.biomaterialdatabase.com

Biomaterial Marketplace



Visual representation of the **supplier organisations** and their **biomaterial products**, focusing on B2B / B2G and addressing professional demanders like industry, hospitals, medical institutes, universities, ministries etc.

www.biomaterialmarketplace.com

A glimpse into the biomaterials database....

Biomaterial Database – Start Page (Demo Data)

BIOMATERIAL
DATABASE

Jakob Seper

[Home](#)[Dashboard](#)[Biomaterials](#)[About](#)[Additional Resources](#)

Biomaterial Database

AI-powered Database Validated by Biomaterial Experts

Search

BiomaterialsPublicationsAuthors

☐ In Vitro☐ In Vivo

34,509,220
Abstracts

Where does the data come from?

About harvesting and processing more than 3 million articles using state-of-the-art NLP-techniques ...

456
Materials

Dashboard

Analyse and inspect key aspects about the data using various interactive visualisations

432,210
Entities

Biomaterial Marketplace

Browse and find biomaterial and medical device related services, products and suppliers

About the database

Biomaterials are usually defined as synthetic or natural materials that are used for artificial organs, prostheses or for replacing tissue. Research and development in the field of material science, and in particular synthetic polymers and ceramics, has led to the production of thousands of novel biomaterials, which might revolutionise medical devices and advanced therapies.

The EU has continuously funded biomaterial research projects in the last 25 years, resulting in increased output in the form of publications, patents and clinical trials. One of the main challenges is to provide accessible and well-structured data of biomaterials for researchers, companies, and laboratories. Besides the metadata of biomaterials and its properties, data on its biocompatibility, performance and safety are very important as well.

Read more


Events and Co.

Overview of the latest events:


23 NOV 2024 - 27 NOV 2024
Quas aut placeat
Culpa omnis consectetur possumus qua...
Online Event | Organizer: Fianechi Inc.
Open Door

23 JAN 2023 - 25 JAN 2023
Earum ducimus consequuntur officia soluta qui
Blanditis qui necessitatibus ut dolores o...
Online Event | Organizer: Hickie, Tremblay and Goodwin
Conference

03 AUG 2024 - 07 AUG 2024
Enim qui quibusdam maxime eveniet
Itaque et non officia quas occaecati et n...
Online Event | Organizer: Powlowski, Jenkins and Dotsford
Workshop

BIOMATDB 

Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the European Health and Digital Executive Agency. Neither the European Union nor the granting authority can be held responsible for them.

Funded by the European Union

Project

Project Website
Biomaterial Marketplace
Knowledgebase and Help System

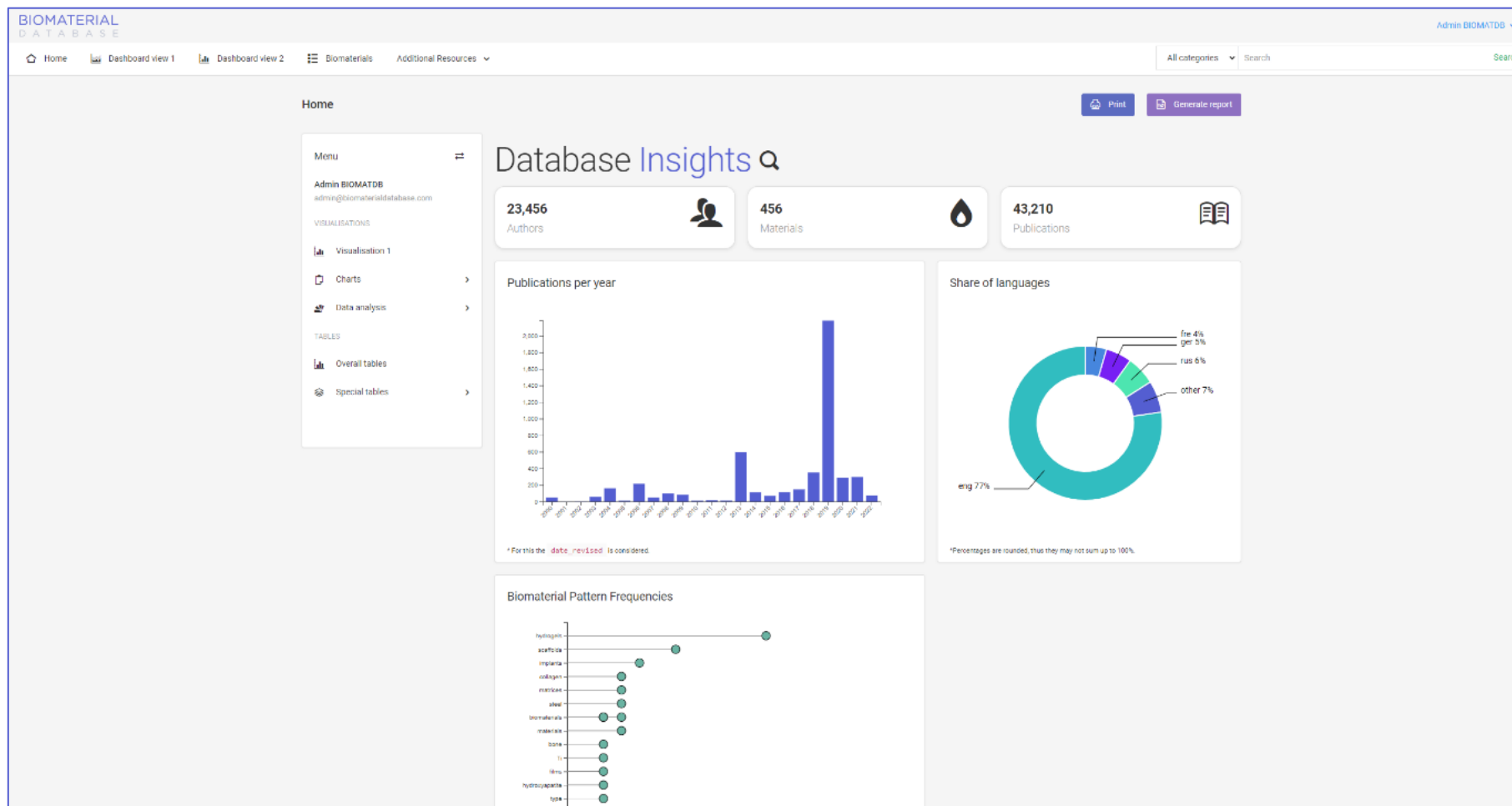
in

Project Office

SYNO GmbH
Otto-Bauer-Gasse 5/14
1060 Vienna, Austria

A glimpse into the biomaterials database....

Biomaterial Database – Dashboard View with Visualisations (Demo Data)



A glimpse into the biomaterials database....

Biomaterial Database – Biomaterial Detail View (Demo Data)

BIOMATERIAL
DATABASE

[Home](#) [Dashboard view 1](#) [Dashboard view 2](#) [Biomaterials](#) [Additional Resources](#)

Admin BIOMATDB [Admin BIOMATDB](#)

All categories

Search

Biomaterial Details

Menu

Admin BIOMATDB
admin@biomaterialdatabase.com

VISUALISATIONS

[Visualisation 1](#)

[Charts](#)

[Data analysis](#)

TABLES

[Overall tables](#)

[Special tables](#)

Cerebroside-Sulfatase 000253

^ Description


Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet.


^ Environment


Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet.


#	Attribute 1	Attribute 2	Attribute 3	Attribute 4
1	Lorem	Ipsum	Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy eirmod tempor invidunt ut.	51-5231
2	Remid	Drolun	Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy eirmod tempor invidunt ut labore et dolore.	47-9723
3	Dolor	Amet	Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy eirmod.	79-1328


Related Materials


[Biomaterial 1001](#)

[Biomaterial 1002](#)

[Biomaterial 1003](#)

[Biomaterial 1004](#)

[Biomaterial 1005](#)

[Biomaterial 1006](#)

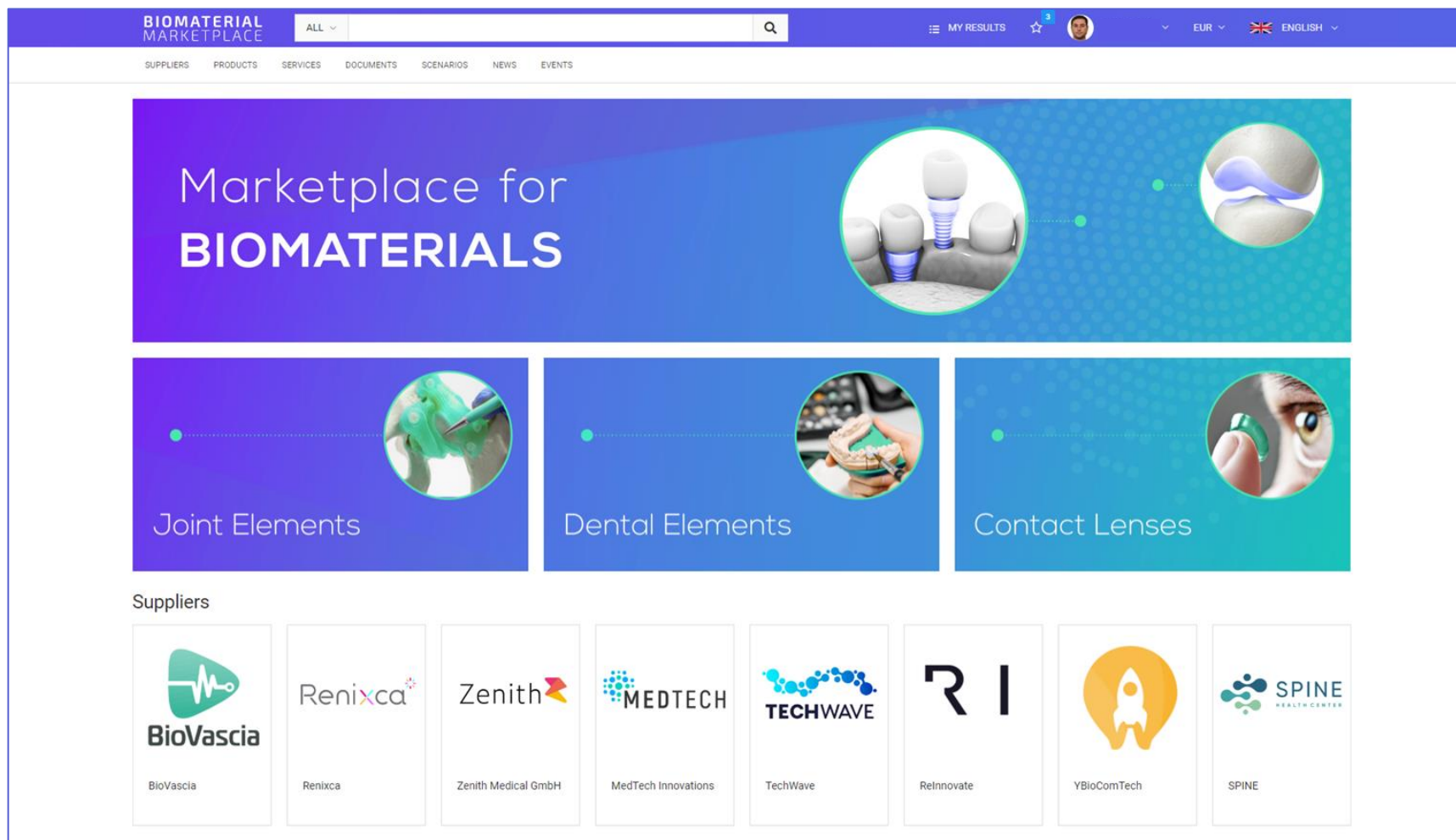
© 2023, SYNNO GmbH

BIOMATDB

8

A glimpse into the biomaterials marketplace....

Biomaterial Marketplace – Start Page (Demo Data)



A glimpse into the biomaterials marketplace....

Biomaterial Marketplace – Supplier Dashboard (Demo Data)

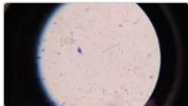
BioMaterial MarketplaceProductsServicesDocumentsEvents

Dashboard

Dashboard


Products (3)

+ Add Product




Hyaluronic Acid

Category: Raw Biomaterials



Bioactive Dental Imp...

Category: Medical Devices




Ophthalmic Intraocu...

Category: Medical Devices


Services (2)

+ Add Service



Medical Advisory

Category: Advisory




Biomaterial Supply C...

Category: Transportation

Documents (1)

+ Add Document



Company Brochure (...)

page count: 6 Brochure

BIOMATDB

10

A glimpse into the biomaterials marketplace....

Biomaterial Marketplace – Supplier Detail View (Demo Data)

BIOMATERIAL
MARKETPLACE

SUPPLIERS

Q

MY RESULTS

DAN PRIHOI

EUR

ENGLISH

SUPPLIERS

PRODUCTS

SERVICES


DOCUMENTS

SCENARIOS

NEWS

EVENTS

[Home](#) / [Suppliers](#) / [DENTOBASE](#)




DENTOBASE

Overview

Products




Services

Documents



DENTOBASE is a pioneering biomaterials company specializing in innovative solutions for the dental and oral healthcare industry. With a profound commitment to advancing dental treatments and patient well-being, DENTOBASE combines cutting-edge research, state-of-the-art biomaterials, and a patient-centric approach to provide dental professionals with groundbreaking products that redefine the standards of oral care. Vision: Our vision at DENTOBASE is to lead the dental biomaterials sector with revolutionary products that enable dental professionals to offer safer, more effective, and patient-friendly treatments. We strive to be at the forefront of dental innovation, contributing to improved oral health and enhancing smiles worldwide.

Products



Profile

Foundation Year

2010

Activity Radius

national

Profit Type

profit

Body Type

public

Contact

Got a question or request? [Leave message](#)


Address: Austria, Wien, 1090, Sensengasse 34

Website: <http://wocala8711-test.com>

Karte

Satellit

Monochrome



We are interested in your experiences!

Take part in our surveys

Let us know how the BIOMATERIAL DATABASE and BIOMATERIAL MARKETPLACE can be better **tailored** to your **professional needs**.



DATABASE
SURVEY



MARKETPLACE
SURVEY



Expected Project Impacts

Advanced Database and Marketplace for Biomaterials



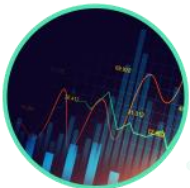
Improved access to valuable data and tools by linking to external resources for cross disciplinary data exploitation and integration



Domain specific text mining, data analysis, visualisation tools and decision support mechanisms in context of biocompatibility



Improved biomaterials research, development and exploitation cost-effectiveness for applications through shared biomaterials knowledge bases



Economic impact based on an extensive data pool with deep analysis capabilities and advanced data visualisation options

Expected Project Impacts

Advanced Database and Marketplace for Biomaterials



Raising awareness on sharing and big data awareness and interest among the biomaterial research community and industry



Support for the suppliers of biomaterials (companies, especially SMEs) in choosing and facilitating market access



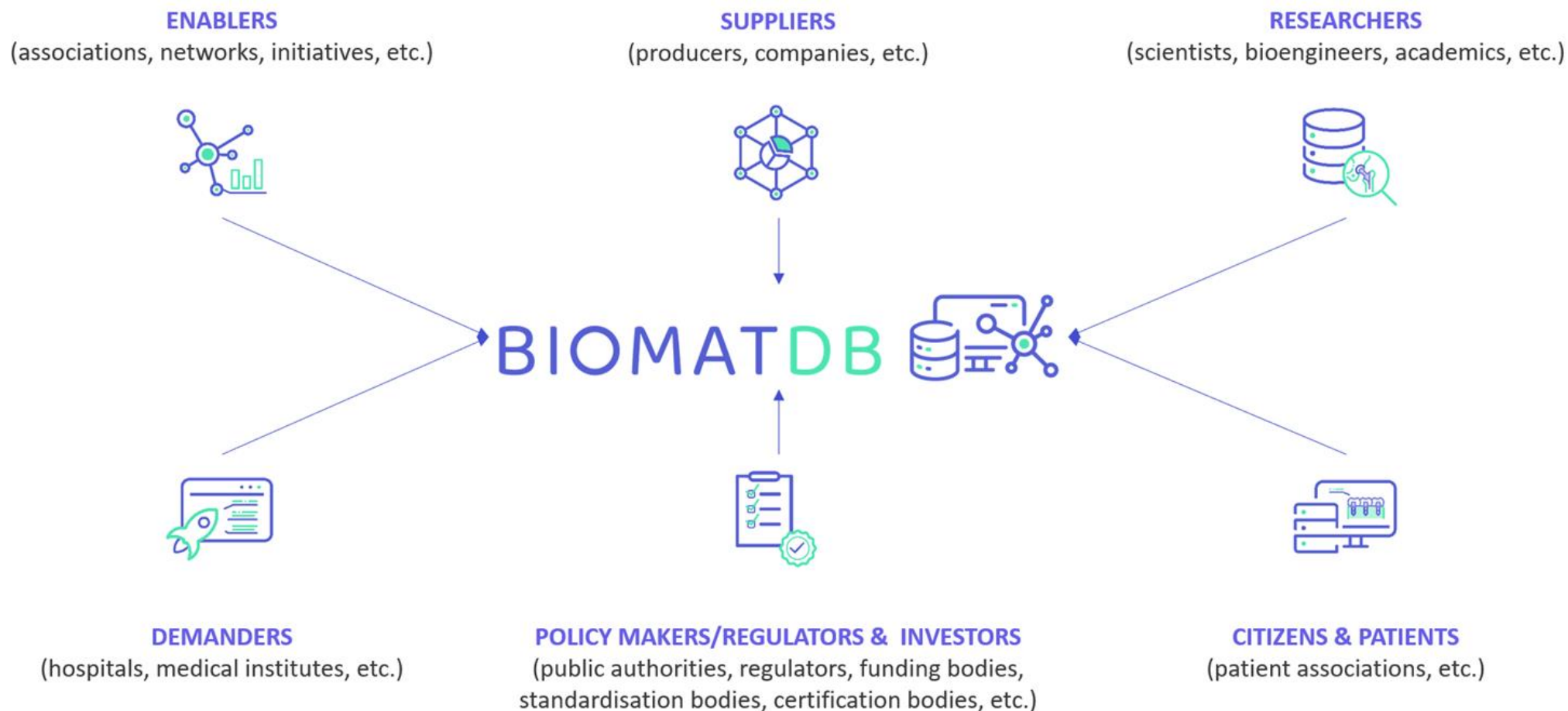
Increase the public acceptance of Artificial Intelligence and related modern technologies and its benefits



Impact on the competitiveness of the European Union in the field of biomaterials, medical devices and biomedical engineering

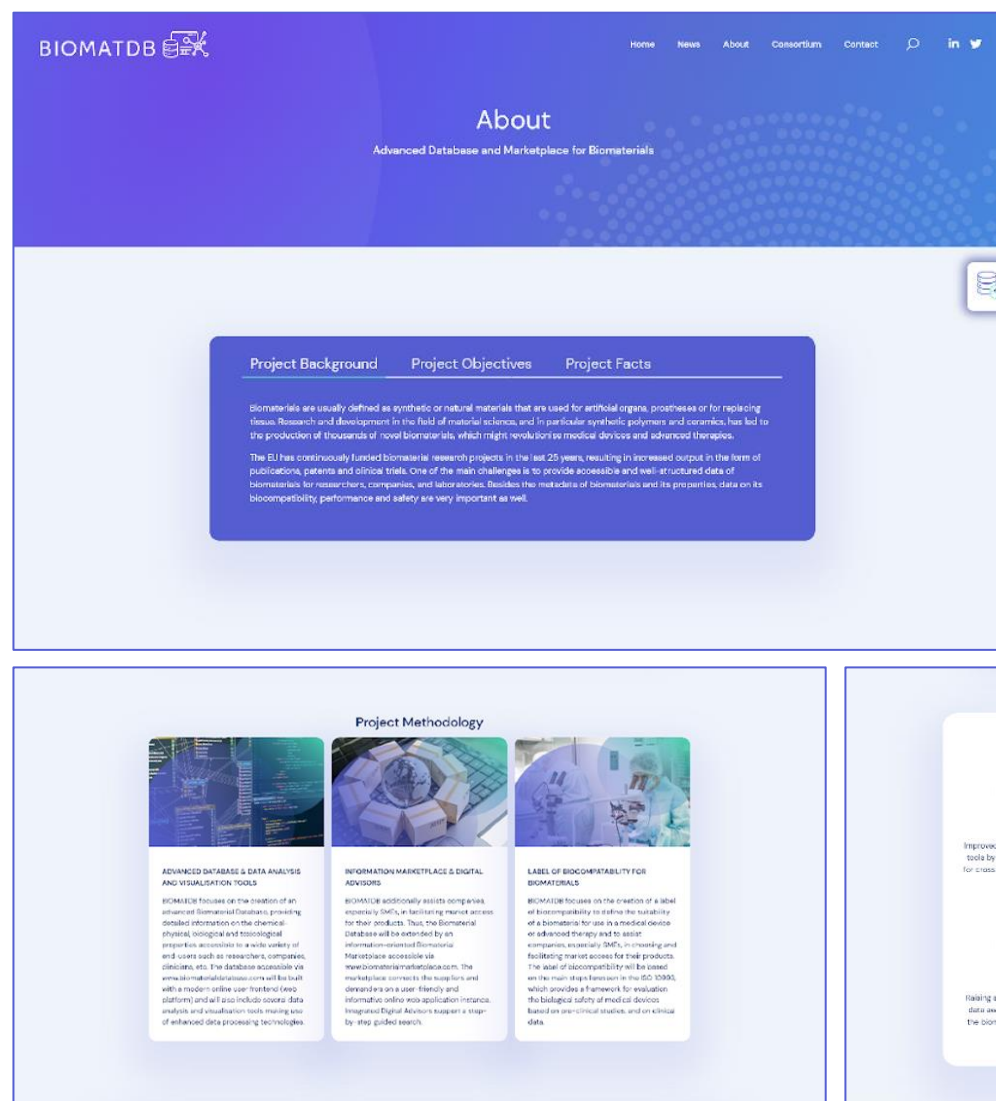
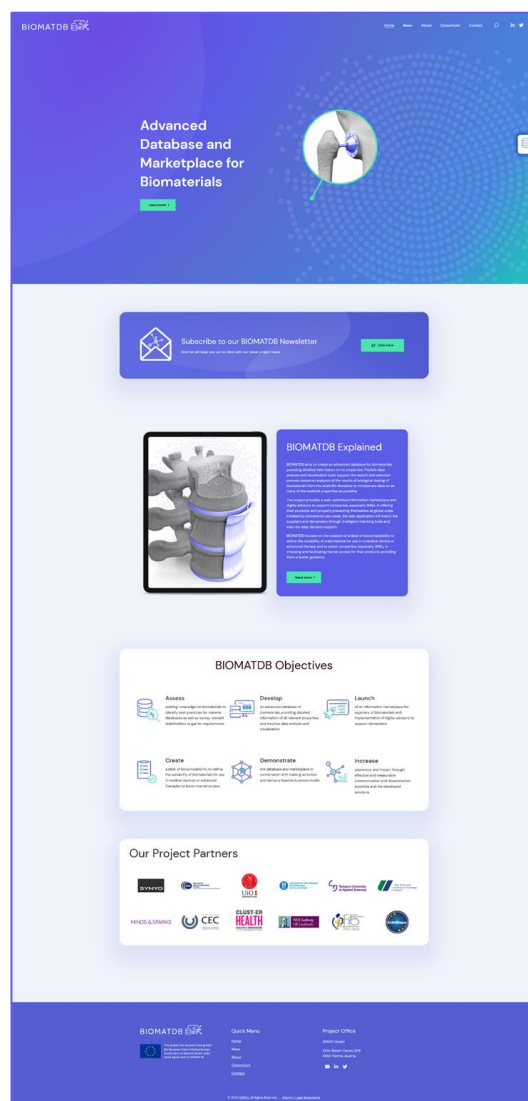
Opportunity to share your needs, challenges and requirements

BIOMATDB Continuous exchange with stakeholders (surveys, interviews)



Dissemination & Communication

Project website | <https://biomatdb.eu/>



Scan Me



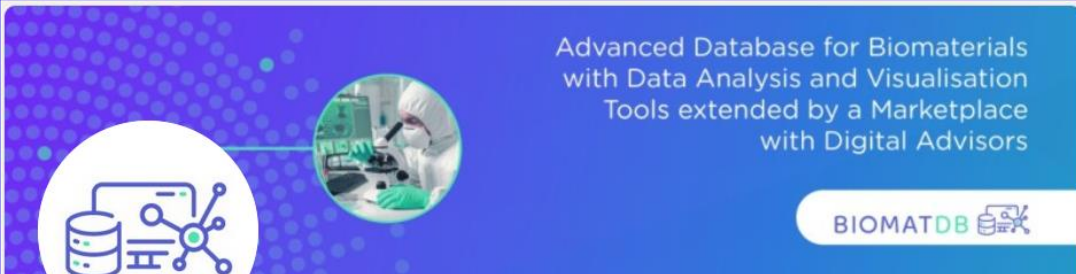
Dissemination & Communication

Twitter account | <https://twitter.com/biomatdb>




Dissemination & Communication

LinkedIn account | <https://twitter.com/biomatdb>



Advanced Database for Biomaterials
with Data Analysis and Visualisation
Tools extended by a Marketplace
with Digital Advisors

BIOMATDB 

BIOMATDB Project

Horizon Europe Project at European Consortium
Vienna, Vienna, Austria · [Contact info](#)

58 connections

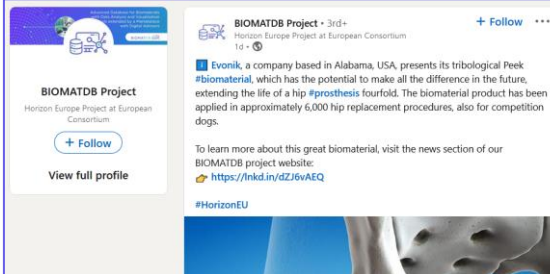
[Message](#) [+ Follow](#) [More](#)

About

Welcome to the BIOMATDB Project LinkedIn page. The main aim is to provide a continuous feed and concise information about the main ongoing activities, outcomes, future plans, and also a universal platform for communication between various stakeholders and professionals in the field of biomaterials, database, data analysis, digital advisors and marketplaces.

To this end, the project will have a significant impact on the findability and searchability of existing biomaterials at the pan-European level. Furthermore, it is an enabler for better uptake of biomaterials in future health applications and medical therapies.

This project has received funding from the European Union's Horizon Europe research and innovation programme under grant agreement No 101058779.



BIOMATDB Project
Horizon Europe Project at European Consortium

[+ Follow](#)


[View full profile](#)

BIOMATDB Project · 3rd+ · 1d ·

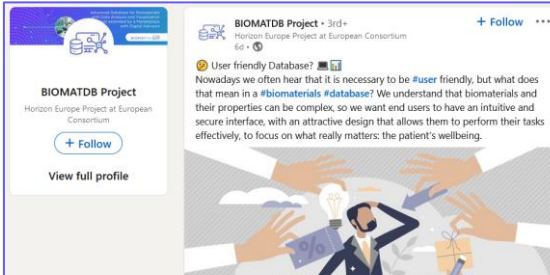
Evonik, a company based in Alabama, USA, presents its tribological Peek® biomaterial, which has the potential to make all the difference in the future, extending the life of a hip prosthesis fourfold. The biomaterial product has been applied in approximately 6,000 hip replacement procedures, also for competition dogs.

To learn more about this great biomaterial, visit the news section of our BIOMATDB project website:
<https://lnkd.in/gZJ6vAEQ>

#HorizonEU



The biomaterial Vestakeep Peek and its potential for joint prosthesis systems - BIOMATDB



BIOMATDB Project
Horizon Europe Project at European Consortium


[+ Follow](#)

[View full profile](#)

BIOMATDB Project · 3rd+ · 6d ·


User friendly Database? 🗄️

Nowadays we often hear that it is necessary to be #user friendly, but what does that mean in a #biomaterials #database? We understand that biomaterials and their properties can be complex, so we want end users to have an intuitive and secure interface, with an attractive design that allows them to perform their tasks effectively, to focus on what really matters: the patient's wellbeing.



4

Reactions





[View this email in your browser](#)


BIOMATDB


BIOMATDB Newsletter - August 2022

The **BIOMATDB Kick-off meeting** has successfully taken place on June 7th and 8th, 2022 in a virtual setting, where consortium partners presented their organisation, expertise and planned contributions. The presentations were followed by an overview of the upcoming tasks as well as an open discussion and brainstorming session on stakeholders and the definitions and categorisation of biomaterials.

During the first months of the project, the consortium has initiated work on various tasks, primarily focussing on a collection and mapping of relevant stakeholders and other entities in the area of biomaterials. These activities represent important groundwork for further tasks, such as the stakeholder survey, the development of the biomaterials database and marketplace as well as for communication and dissemination activities.

To spread awareness about the BIOMATDB project and its progress, the [project website](#) as well as a [Twitter](#) and a [LinkedIn](#) channel have been launched. These communication channels will be regularly updated throughout the whole project and will inform stakeholders about recent developments, related events and other project-relevant news.




BIOMATDB 


Advanced Database for Biomaterials with Data Analysis and Visualisation Tools extended by a Marketplace with Digital Advisors

The BIOMATDB Consortium













The BIOMATDB consortium consists of twelve partners from eight countries as well as three subcontracting partners, combining their expertise in areas such as polymer and biomaterials science, biomechanics and tissue engineering, medicine and health technology, materials science and engineering, medical device research, emerging therapies and technologies in medicine, cooperation and international relations, as well as ethical and social impact assessments.




The project is coordinated by [SYNYO](#), a research organisation based in Vienna, Austria. The partner organisations include Barcelona Supercomputing Center (Spain), University of Oslo (Norway), Universitat Politècnica de Catalunya (Spain), Tampere University (Finland), West Pomeranian University of Technology, Szczecin (Poland), MINDS & SPARKS (Austria), 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 ECHAAlliance (Ireland). The consortium will be supported by the expert partners Dr. Osnat Hakimi, Prof. Yannis Missirlis, and Carla V. Fuenteslópez. Find out more about the consortium partners [here](#).



BIOMATDB 


CONSORTIUM





About BIOMATDB

The BIOMATDB project aims to develop an advanced database and an information marketplace for biomaterials as well as a label for biocompatibility to support the biomaterials and medical device market. As a result, BIOMATDB will greatly impact the competitiveness of the European Union in the field of biomaterials, medical devices and biomedical engineering. We look forward to collaborating with experts from different fields and backgrounds who are interested in progress and innovation in this fast-growing market.



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



Scan Me



Thank you for your attention!
Contact us, get involved, stay updated:



office@biomatdb.eu



www.biomatdb.eu



@BIOMATDB



BIOMATDB

