

Team



Project details

PROJECT NUMBER: 101129911

PROJECT TITLE: Sustainable, Biobased and Bio-Inspired Materials for Smart Technical Textiles

TOPIC: HORIZON-CL4-2023-RESILIENCE-01-32

START DATE: 1 September 2024

DURATION: 48 Months

GRANTING AUTHORITY: HADEA

EU CONTRIBUTION: 6,617,386.75 Euro

Contacts

info@subbimatt.eu

subbimatt.eu



Co-funded by the European Union

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SUBBIMATT

Sustainable, Biobased and Bio-Inspired Materials for Smart Technical Textiles



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Project

SUBBIMATT aims to develop sustainable, biobased, and bioinspired smart technical textile materials to address energy needs. The project involves creating advanced materials and demonstrating their applications in adaptive building envelopes, automotive interiors, and smart garments.

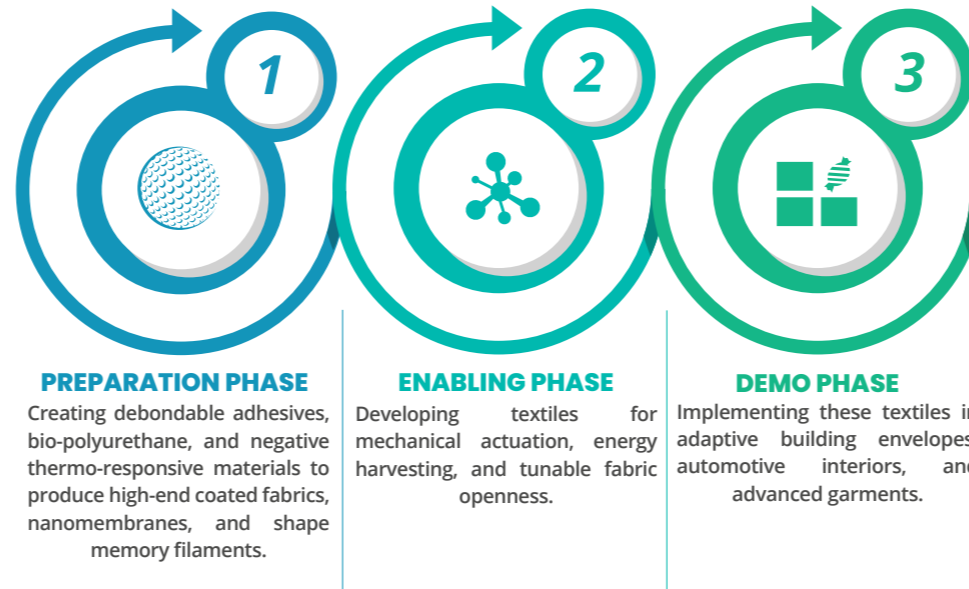
Objectives

SUBBIMATT has defined several key objectives to maximize its impact and achieve its ambitious goals:

- ❄ Safe and Sustainable by Design approach
- ❄ Development of Circular Textile Intermediates using SUBBIMATT biobased materials
- ❄ Smart Textile Materials for motion actuators, energy harvesters, and tunable openness fabrics.
- ❄ Implementation of Smart Textile Materials in building envelopes, automotive interiors and adaptable garments.
- ❄ Creation of business models and integration of external project developments.

Project's phases

SUBBIMATT's primary goal is to develop a novel generation of sustainable biobased and bioinspired smart technical textile materials.



Impacts



Industry Competitiveness

Helping the EU textile industry remain competitive and resilient by promoting climate-neutral and circular economy practices.



Sustainability Awareness

Raising awareness about the importance of sustainable materials and practices in various sectors, including building, automotive, and fashion.



Energy Efficiency

Demonstrating the benefits of sustainable biobased materials for energy management in daily products.



Support for EU Policies

Contributing to the EU Bioeconomy Strategy, the EU Industrial Strategy, the EU Textile Strategy, and Fit for 55.