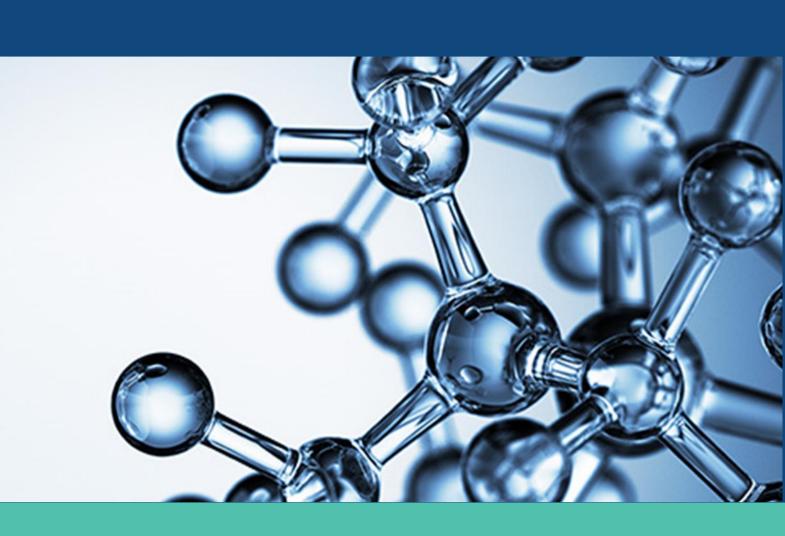


# European Sustainable BIO-based nanoMAterials Community

BIOMAC is a Horizon2020 project that will establish an Open Innovation Test Bed (OITB), a true collaborative ecosystem where technologies and solutions utilizing nano-enabled bio-based materials (NBMs) will be upscaled and prepared for market applications.



## THE BIOMAC OITB

- The BIOMAC Open Innovation Test Bed (OITB) will develop tailor-made solutions for producing and integrating nanomaterials across the bio-based value chain.
- The BIOMAC OITB will offer services that cover the assessment of regulation and safety, sustainability, circularity, market potential along with modelling, process control, standardization and characterization.



### **GOALS AND IMPACT**

The ultimate goals of the BIOMAC OITB are to help:

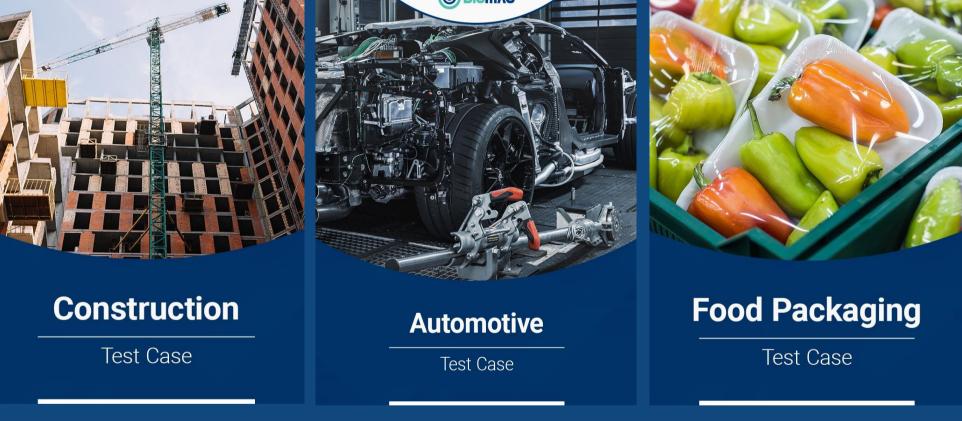
 Tackle obstacles that hinder the evolution of concept development in the field of nano-enabled bio-based materials and products

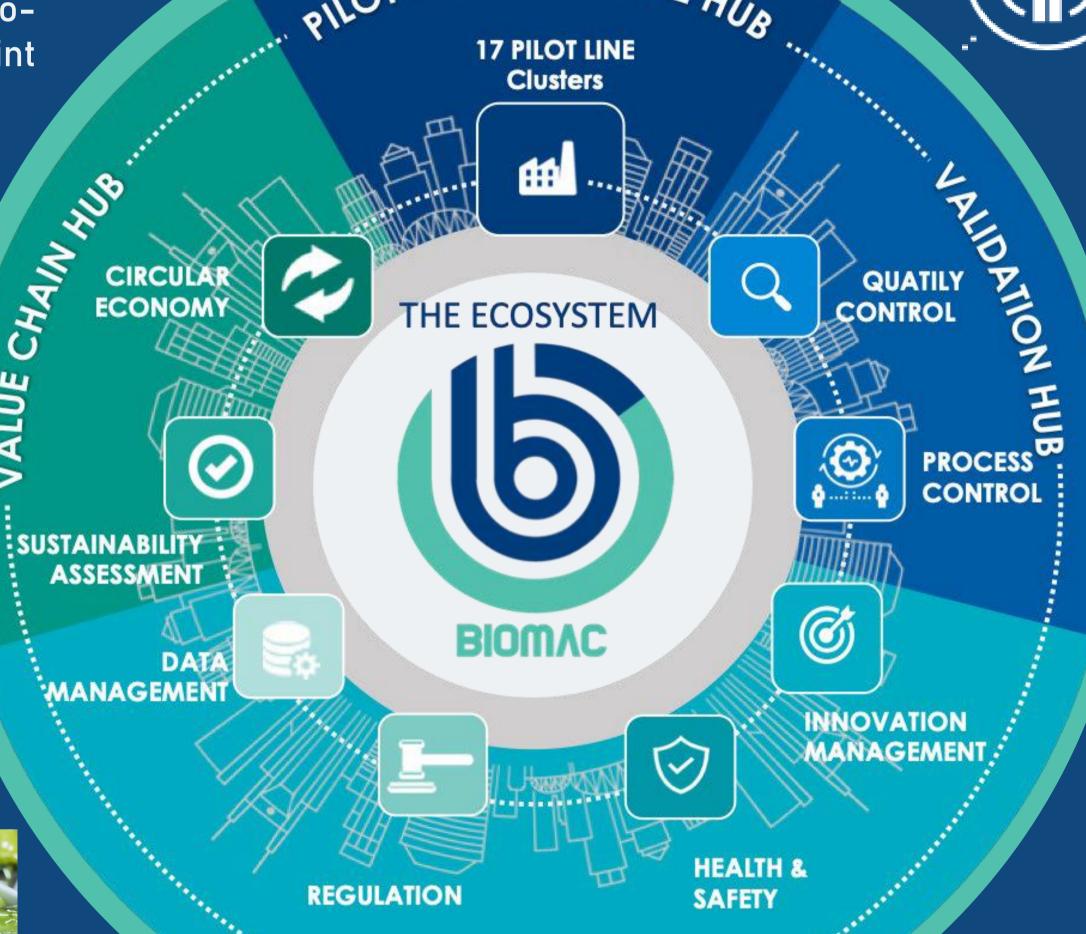
o Industrialize a new generation of nano-enabled bio-based materials











MARKET UPTAKE HUB

#### Expected impacts

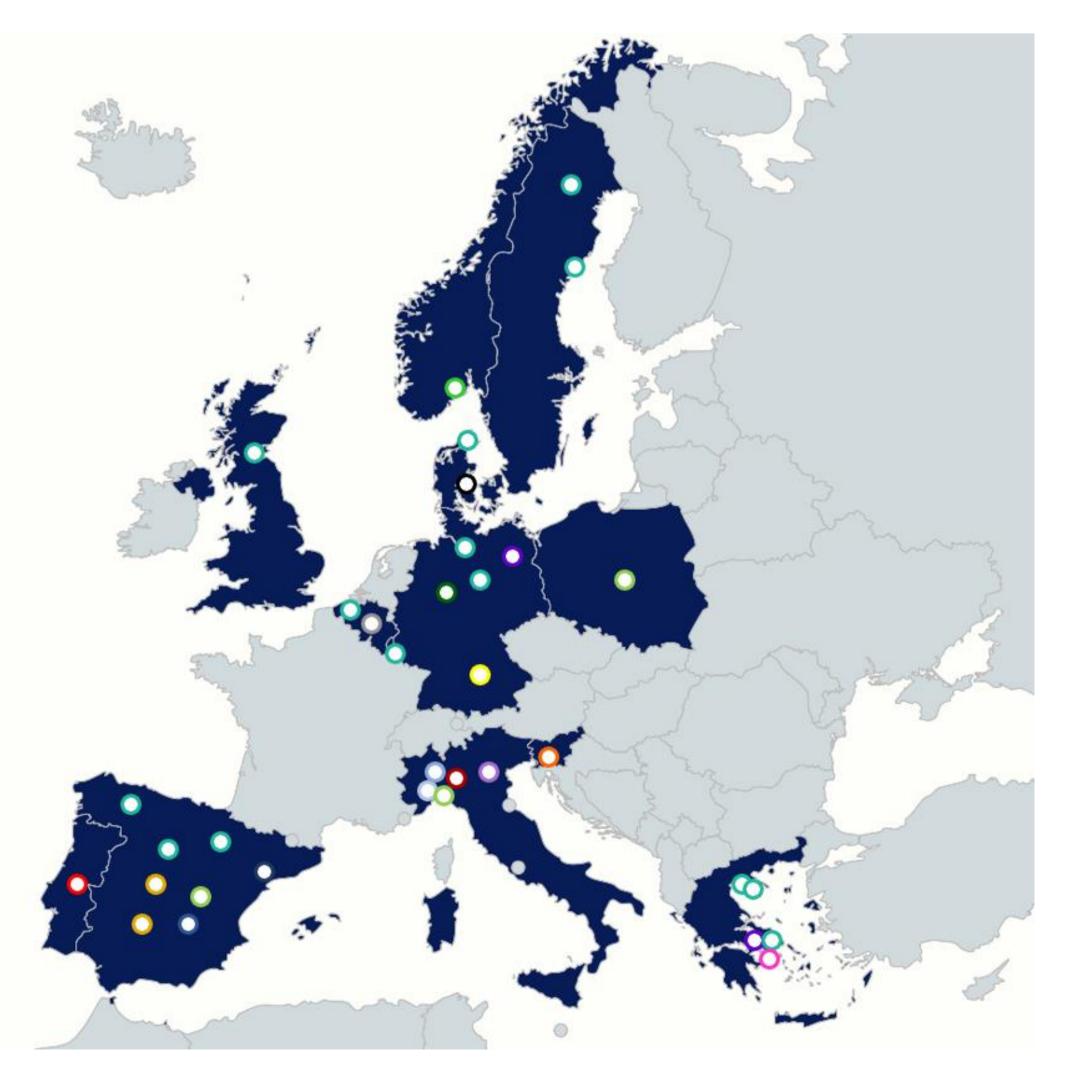
- Acceleration of bio-based concepts development
   Reduction of concept to prototype component to
- under eight months
   Enabling of the cost-effective production of
- high-value nano-enabled

  o Elimination of the barriers for the realization of

new ideas accessing and creating new markets

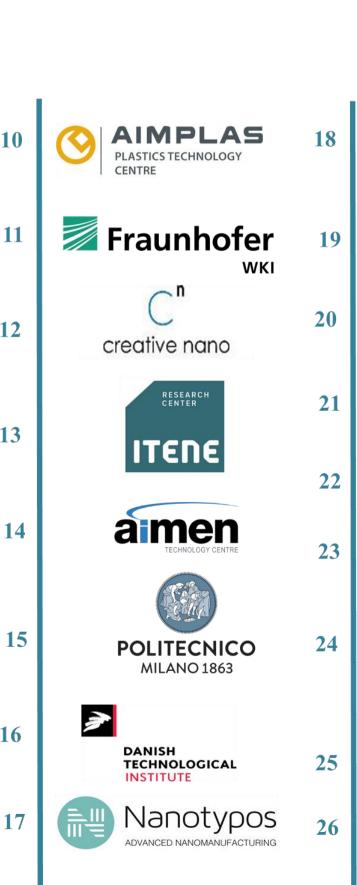
## **OBJECTIVES**

- $_{\odot}$  Establishment of a self-sustainable OITB
- Upgrade and modify 17 pilot lines
- Validation of the the operation of the OITB through creating and demonstrating 5 novel manufacturing supply and value chains (Test Cases-TeCs)
- Launch of an open call to invite 5 more test cases
- Post-project sustainability of the ecosystem and creation of a sustainability plan



- o Pilots
- Characterization
- Modelling
- Monitoring
- o Innovation
- IT PlatformLCA, LCC
- O LUA, LUU
- Decision Support Tool
- o Dissemination & Clustering
- Biomass Provider
- Business Development
- o Standardization
- TeC1 Automotive
- TeC2 Agriculture
- TeC3 Food Packaging
- TeC4 ConstructionTeC5 Printed Electronics







RDC

