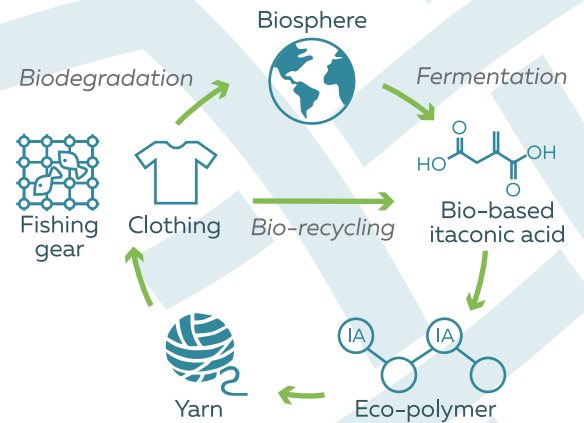


"Glaukos is the Greek sea god of fishermen.

He was commonly believed to protect the oceans, as is the ambition of this project by developing innovative alternatives for textiles that are currently polluting our oceans."

Glaukos will develop biobased textile fibres and textile coatings that are adapted to the needs of the 21st century.

The complete life cycle of **clothing** and **fishing gear** will be redesigned, their sustainability performance will be enhanced significantly, while their technical performance will be matched to end-user requirements. The ambition is to significantly reduce the carbon and plastic footprint of clothing and fishing gear.



Objectives

- # Increase the biobased content of polyester and polyamide textile products to at least 50%.
- # Mitigate microplastic pollution in all environments by increasing the biodegradation rate of polyester and polyamide (micro)plastics at least 100-fold compared to conventional polyester and polyamide (micro)plastics.
- # Reconcile the product characteristics described above with technical performance and durability, to ensure the effective and long-term use of textile products such as fishing gear and clothing.
- # Boost the bio-recycling potential of the Glaukos polyester and polyamide textile products by developing a compatible recycling biocatalyst.
- # Develop eco-friendly fishing gear coatings with increased biobased content (> 30%).
- # Engage stakeholders across the textile industry by: 1) Setting up Stakeholder Labs for the clothing and fishing gear industry to facilitate the interaction between consortium and all relevant stakeholders in relation to end-user requirements and policy 2) communicating towards the broader public, as well as specific thematic communities 3) enhance the framework for sustainable innovation in the textile industry

Expected Outcomes

Glaukos will develop eco-designed fishing gear and clothing, and scale up their production process, all the way from renewable feedstock to textile prototype and ending with two end-of-life (EOL) solutions: biodegradation and bio-recycling.



Bio Base Europe
Pilot Plant



Maastricht University



B4PLASTICS

novozymes



JÜLICH
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EURCORD



Centro de Investigación Mariña
Universidade de Vigo

Quantis



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Bio-based Industries
Consortium

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