

# RECYCLABLE STRUCTURAL COMPOSITES FOR MARINE RENEWABLE ENERGY

## Research question?

In the marine environment:

- metals corrode
- wood rots
- composites survive

Can we make a

**sustainable composite structure** that is not a problem at end-of-life?

## University of Plymouth research activities

Manufacture by monomer infusion under flexible tooling (MIFT)  
natural fibre reinforcement

acrylic (PMMA) or polylactic acid (PLA) matrix

Demonstrator component ... to be decided/informed by you?

Life Cycle Assessment (LCA) using SimPro software

**keep in touch:**

[http://www.seabiocomp.eu/interest\\_group/](http://www.seabiocomp.eu/interest_group/)

## GOALS



Drive for innovation in new composite materials



Reduce the environmental impact of composite maritime industry components

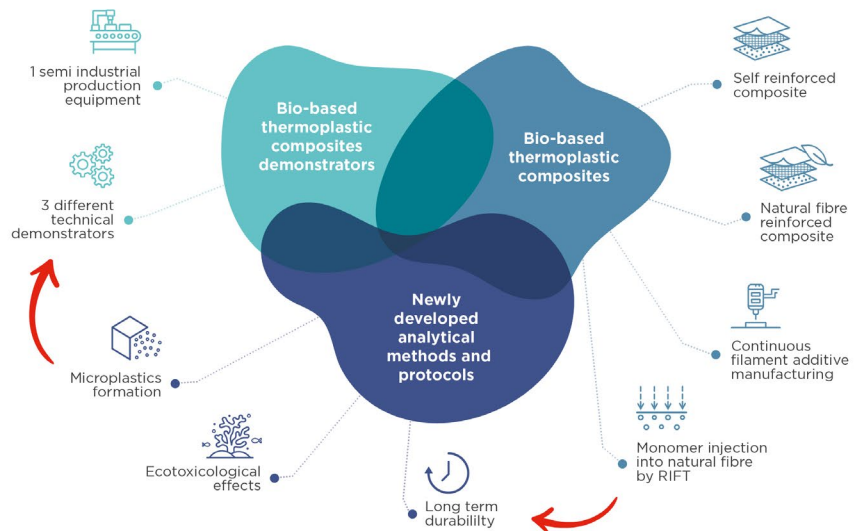


Evaluate durability and long-term ecological impact from microplastics

**Interreg**   
2 Seas Mers Zeeën   
Fonds Européen de Développement Régional

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## DEVELOPMENT AND DEMONSTRATORS OF DURABLE BIOBASED COMPOSITES FOR THE MARINE ENVIRONMENT



<http://www.seabiocomp.eu/>

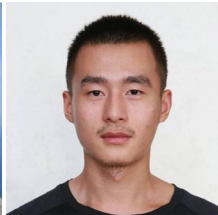
## The University of Plymouth Team



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EUROPEAN UNION

European Regional Development Fund



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