SEALIVE

Strategies of circular **E**conomy and **A**dvanced bio-based solutions to keep our **L**ands and seas all**IVE** from plastics contamination

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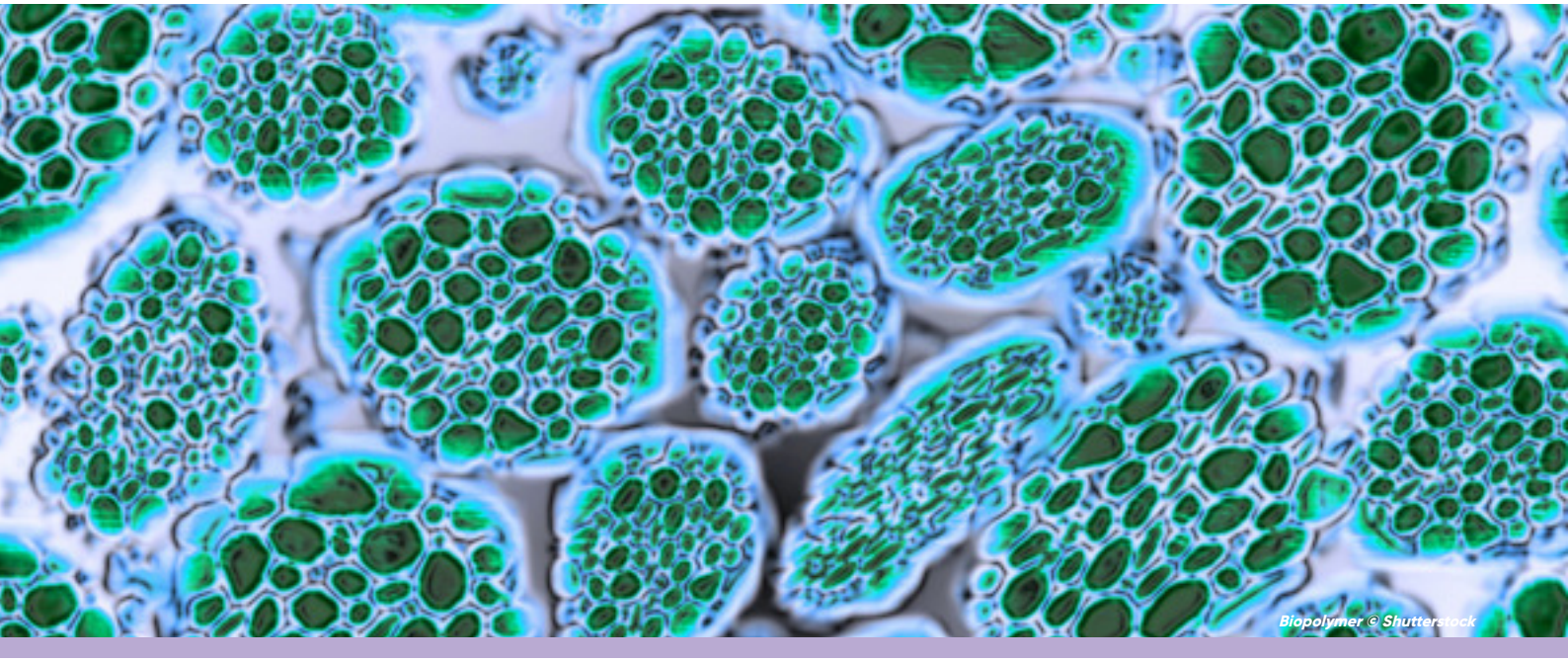


Biopolymer © Shutterstock

THE CHALLENGE

Decoupling plastic production from fossil feedstock and creating a circular plastics economy are essential to achieving EU climate, energy and sustainability goals. Approximately 12 million tonnes of plastic waste ends up in our oceans and contaminates our land every year. While there has been a recent shift towards the use of bio-based plastics, these materials currently have some limitations and are not easy to recycle using current technologies.

PROJECT OBJECTIVES

SEALIVE will reduce plastic waste and contamination on land and in seas by boosting the use of new and advanced biomaterials addressing the current limitations, and contributing to the circular economy with cohesive bio-plastic strategies. In support of the European Plastics Strategy, the consortium's multidisciplinary team of experts will:

- Develop new bio-based plastic solutions using sustainable biomass sources and efficient processing technologies
- Optimise sustainable business models and product design strategies for the new solutions
- Implement pre-normative studies to foster standardisation of biodegradable solutions
- Promote the use of the new solutions by the plastics industry, public authorities and citizens
- Support the development of European and global bioplastics frameworks for policy makers
- Improve bioplastic sorting technologies and procedures for end of life solutions

AT A GLANCE

PROGRAMME: European Union Horizon 2020

TYPE OF ACTION: Innovation Action (IA)

TOPIC: Sustainable solutions for bio-based plastics on land and sea (CE-BG-06-2019)

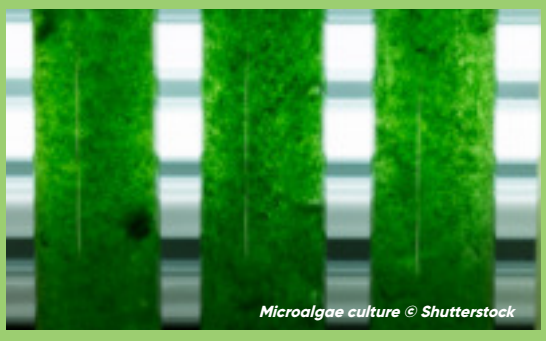
TITLE: Strategies of circular Economy and Advanced bio-based solutions to keep our Lands and seas allVE from plastics contamination

DURATION: October 2019 - September 2023 (48 Months)

COORDINATOR: Instituto Tecnológico del Embalaje, Transporte y Logística (ITENE), Spain

CONSORTIUM: 24 partners + 5 linked third parties in 13 countries

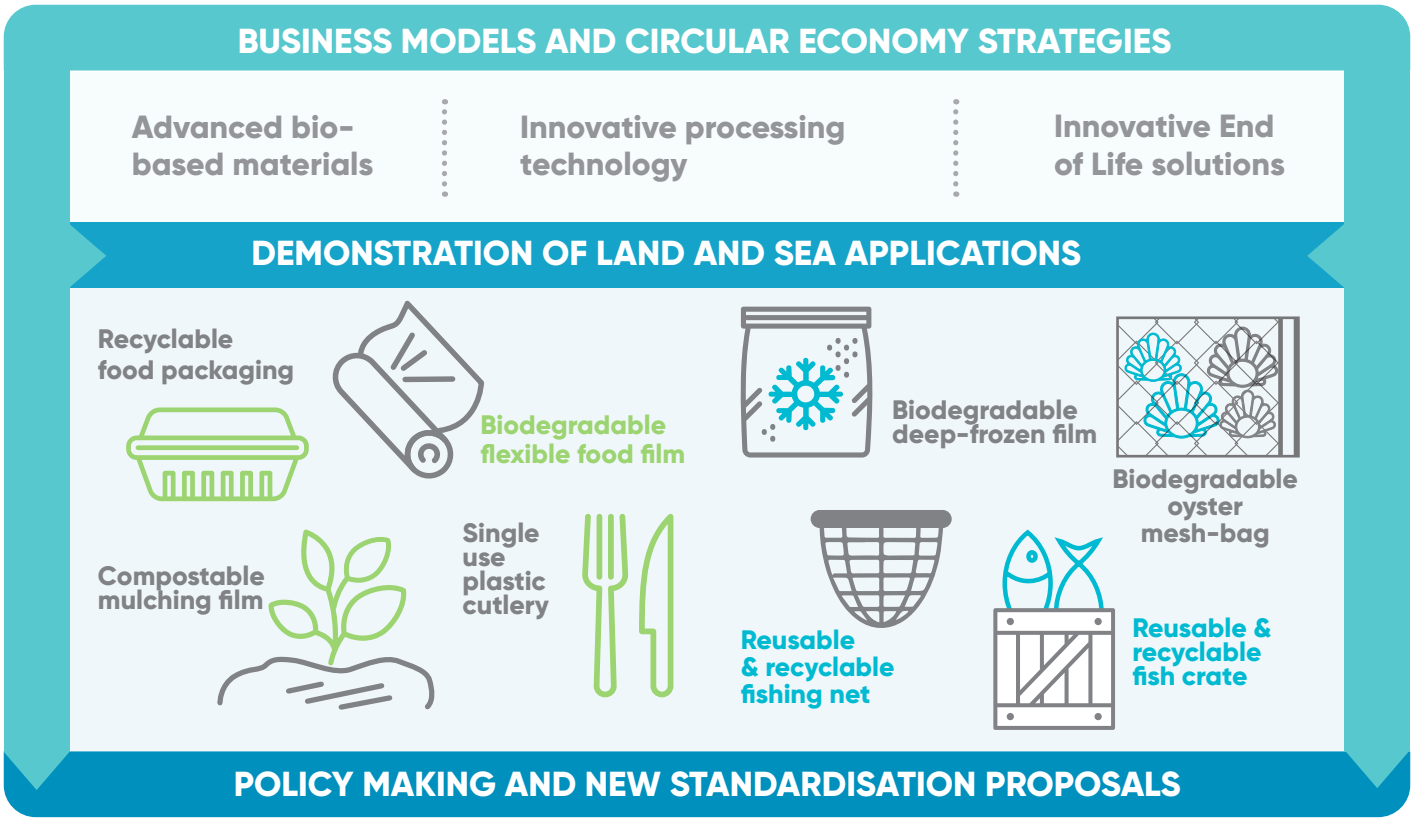
TOTAL BUDGET: €10.26 million



Microalgae culture © Shutterstock

APPLICATIONS

SEALIVE will generate new bio-based plastics with advanced properties and enhanced efficiency, improve processing technologies and product design and implement effective end-of-life solutions. These solutions will be upscaled and demonstrated by eight end-applications in six regions spanning across Europe and South America. To guarantee their adoption, **SEALIVE** innovations and strategies will be supported by policy measures, proposals for new harmonised biodegradability standards and training on the use and benefits of the solutions.



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IMPACTS

- Improved biobased plastic solutions which use resources efficiently, reduce carbon footprints and greenhouse gas emissions
- Innovative processing technologies for improved waste management strategies, reducing plastic pollution on land and in seas
- Informed policymaking and contributions to support the European Plastic Strategy and biodegradability standards
- Enhanced cooperation between bio-based plastic stakeholders, increased market transparency and shared knowledge for a stronger blue bioeconomy

CONSORTIUM

SEALIVE brings together **24 partners and five linked third parties from 13 different countries** across Europe (Austria, Belgium, Cyprus, Czech Republic, Denmark, France, Germany, Ireland, Italy, the Netherlands, Portugal, Spain) and South America (Argentina).

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