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Marine Invasive  
Species  
From Aliens to Profit  
”

**Partners**



ΕΛΛΗΝΙΚΟ ΚΕΝΤΡΟ ΘΑΛΑΣΣΙΩΝ ΕΡΕΥΝΩΝ  
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# ExplIAS

**Design and piloting methods  
of commercial exploitation  
of marine alien species  
towards the contribution  
to the control  
of their population**



With the co-funding of Greece and the European Union  
Project Code MIS 5049912

## Explias – Project Facts

- 3 marine invasive species
- 3 partners
- Duration 36 months
- 8 work packages
- 15 Deliverables
- Greece and EU contribution 599.875,63 Euros

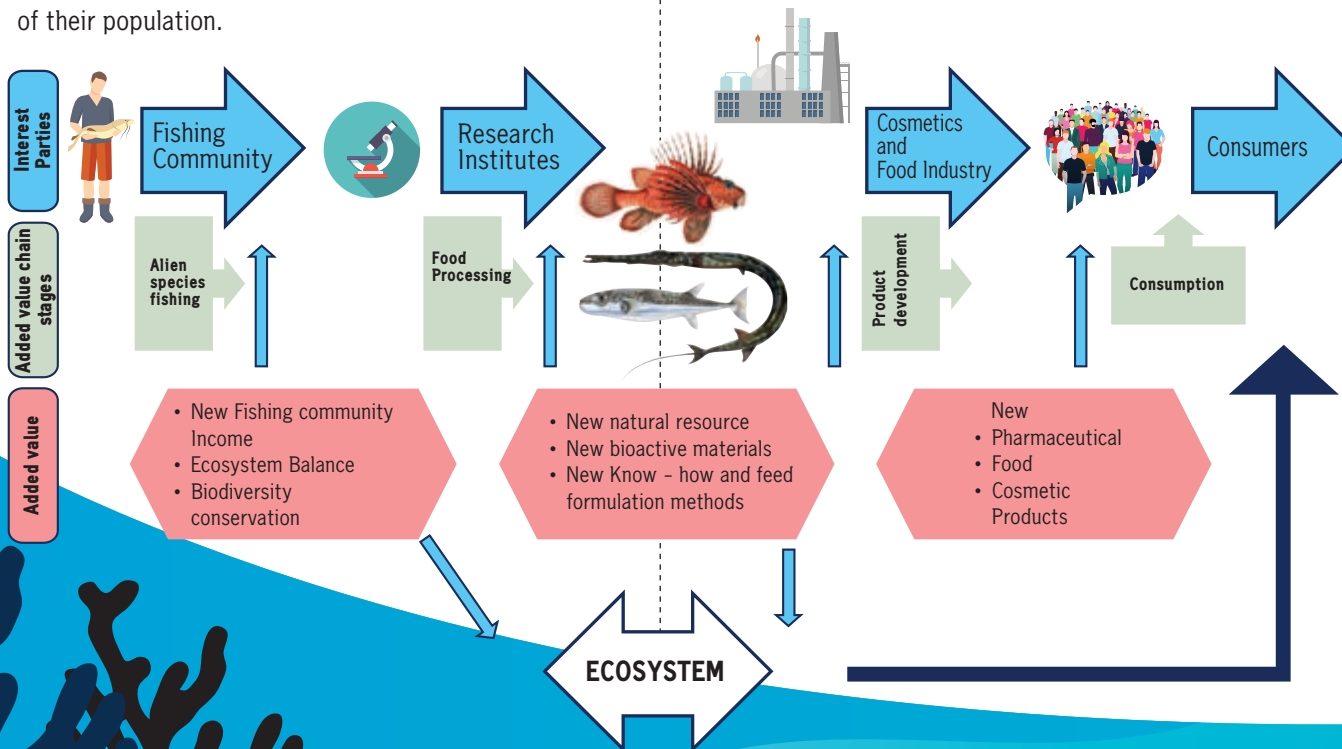
## Explias at a glance

The present research project aims at the implementation of a primary record for three of the most important marine alien species of the Greek seas, *Lagocephalus sceleratus* (Gmelin, 1789), *Pterois miles* (Bennett, 1828) and *Fistularia commersonii* (Rüpp, 1838). ), as well as in the study of the control of their population.

It aims to explore possible prospects for their sustainable management with a view to protecting and restoring marine biodiversity and aiming at their most efficient economic use.

It is proposed to carry out an evaluation of the substances of high commercial interest contained in the specific species, such as toxins, collagen and omega-3 fatty acids, as well as the development of methods for their processing and utilization in cosmetology and food industry.

By highlighting new ways of exploitation, the present research project aims to put these marine invasive species in the focus of intensive fishing, which will consequently lead to the reduction of their population.



## Work Plan

### No Work Packages

- 1 Project Management and Dissemination Activities
- 2 Current situation of spread of invasive alien species in the Greek seas (state-of-the-art)
- 3 Experimental targeted fishing
- 4 Assessment of toxic load, collagen and fatty acids
- 5 Development of processing-valorization methods of invasive alien species biomass
- 6 Development of encapsulated structures of bioactive compounds and their derivatives
- 7 Economic evaluation of valorization solutions of the three studied invasive alien species populations
- 8 Risk Assessment for *Fistularia Commersoni*

