

Algal forests restoration in Mediterranean Sea - AFRIMED

Silvia Bianchelli and Roberto Danovaro AFRIMED Consortium

CINEA-EMFF Workshop 'Integration, Scaling Up and Cooperation with other EU Funding Instruments'

28th February 2022





This project has received funding from the Executive Agency for Small and Medium Enterprise (EASME) And European Maritime and Fisheries fund (EMFF) under grant agreement No 789059

The Problem



Habitat and biodiversity loss



- Deterioration of coastal ecosystems can alter the key areas of many species, as marine mammals, sea turtles and seabirds.
- Major evidence of habitat loss in tropical coastal systems.
- But also in coastal Mediterranean habitats
- Loss of Ecosystem Services and Natural Capital





WP1. Identification of damaged algal forests in the Med basin CONCRETE RESTORATION ACTION WP3. Field based refinement and restoration in the Med basin Pilot action in the Central Med Pilot action in the West Med ECOLOGICAL ANALYSIS OF RESTORATION EFFECTS

WP4. Measuring the success of restoration actions

WP5. Developing a socio-economic partnership

SOCIETY

GENERAL AFRIMED PLAN

The journey of the project



About AFRIMED:
Project budget 1.486.683 €
11 Partners
8 Countries
Starts January 2019
Duration 4 years





...and other international and national calls

PANACEA – MBPC Mediterranean Biodiversity Protection Community





ORIGINAL RESEARCH published: 04 October 2021

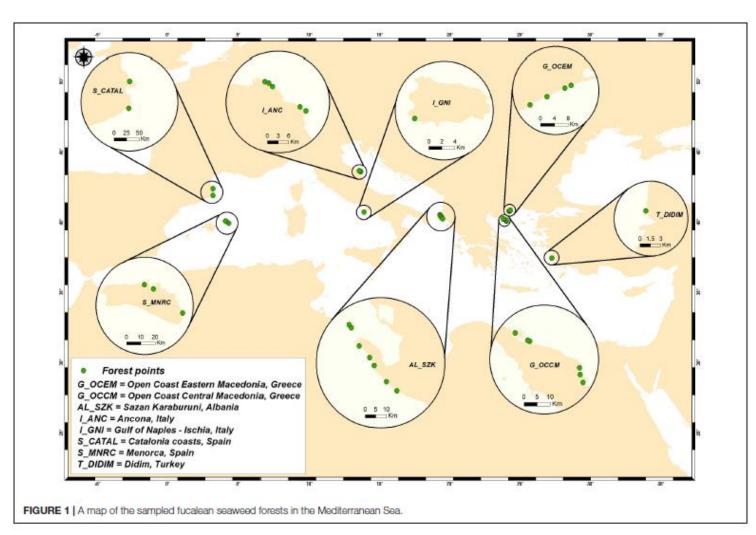
published: 04 October 2021 doi: 10.3389/fmars.2021.658417

Effects of Natural and Anthropogenic Stressors on Fucalean Brown Seaweeds Across Different Spatial Scales in the Mediterranean Sea

Sotiris Orfanidis^{1*}, Fabio Rindi², Emma Cebrian^{3,4}, Simonetta Fraschetti^{5,6}, Ina Nasto⁷, Ergun Taskin⁸, Silvia Bianchelli², Vasileios Papathanasiou¹, Maria Kosmidou¹, Annalisa Caragnano², Soultana Tsioli¹, Stefano Ratti², Erika Fabbrizzi^{5,6}, Jana Verdura^{3,4}, Laura Tamburello⁵, Sajmir Beqiraj⁷, Lefter Kashta⁷, Denada Sota⁷, Apostolos Papadimitriou¹, Ezzeddine Mahmoudi⁹, Hajdar Kiçaj⁷, Konstantinos Georgiadis¹, Amel Hannachi⁹ and Roberto Danovaro^{2,5}

Mapping and identification of stressors at basin scale





WP 1 Deliverable 1.3

D1.3: A map detailing the location of the priority areas for the restoration of Cystoseira meadows in the Mediterranean

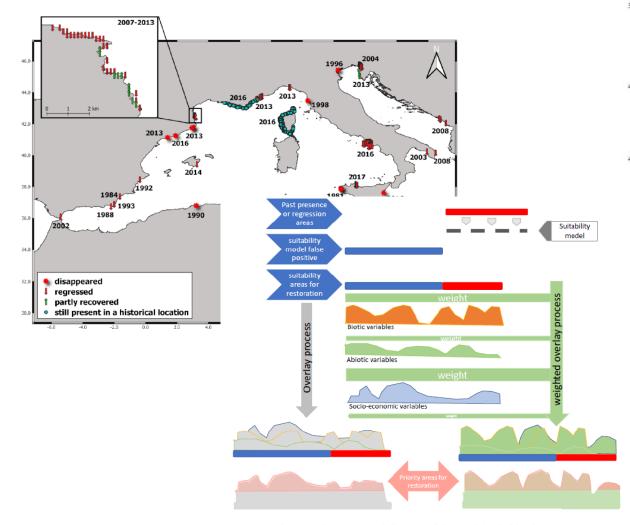
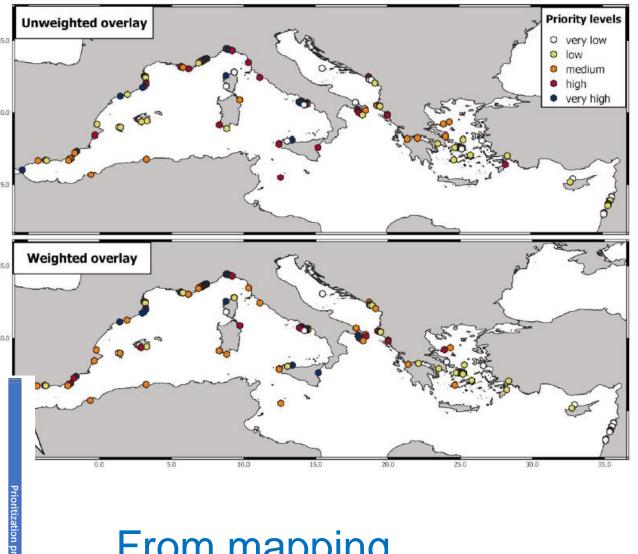


Figure 1. The conceptual diagram of the spatial prioritization process.



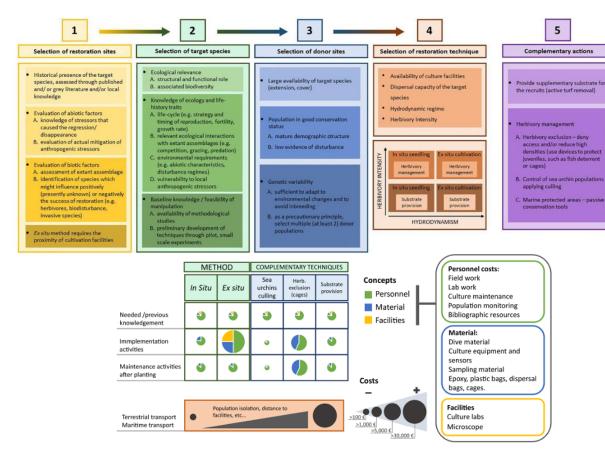
From mapping to spatial prioritization at basin scale

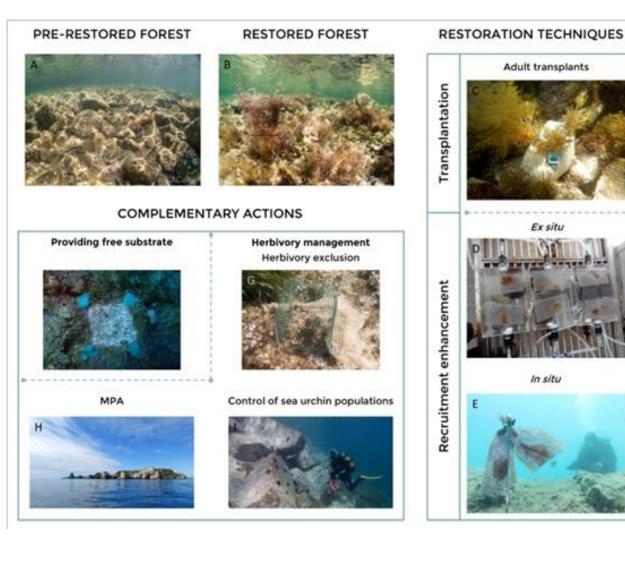


REVIEW published: 15 October 2021 doi: 10.3389/fmars.2021.709219

A Roadmap for the Restoration of Mediterranean Macroalgal Forests

Emma Cebrian^{1*}, Laura Tamburello², Jana Verdura¹, Giuseppe Guarnieri^{3,4}, Alba Medrano⁵, Cristina Linares⁵, Bernat Hereu⁵, Joaquim Garrabou⁶, Carlo Cerrano⁷, Cristina Galobart¹ and Simonetta Fraschetti^{2,4,8}





Setting approaches and protocols











Implementation of standardized approaches and protocols (at lab & sea) across Mediterranean

Next step (2022): analyses of drivers of restoration success (as grazing pressure) across Mediterranean through joint experiments

WP 5 Deliverable 5.2

Deliverable 5.2

Report of the first stakeholder meeting



Stakeholders engagement

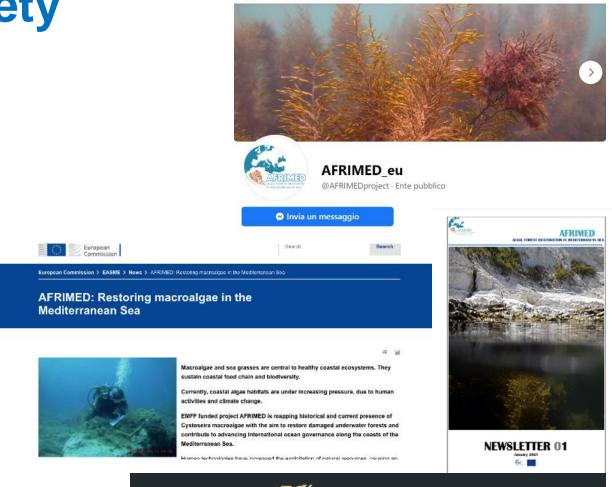
- Business Club
- 2nd Stakeholder meeting in May



Best practices

Raise awareness in the Society

- 2 symposia at World and EU SER Congress
- scientific papers
- link with conservation networks
- e-material, newsletter and factsheet
- documentary on youtube
- social networks
- involvement of young students
- international students exchange
- local events for citizens
- dialogue with EASME-EMFF



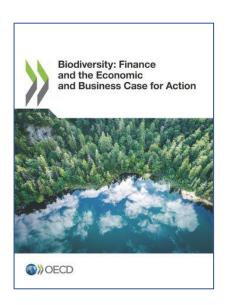




12th SERE Conference Announcement

The 12th SERE Conference, planned in Alicante in September 2020, is now being re-designed as an online Conference for 2021. Details will be available on this website soon.

OECD: Building the industry of Marine Ecosystems restoration





The need of Marine Restoration Governance Arrangements



MERCES Deliv. 6.4

"A linkage between the top-down and the bottom-up restoration governance arrangements is lacking.

To fill this implementation gap, a **process of institutionalization of restoration governance arrangements at different levels** needs to take place"





Algal Forest Restoration in MEDiterranean Sea (AFRIMED)













AFRIMED (community)

AFRIMED project has received funding from the Executive Agency for Small and Medium Enterprise (EASME) and European Maritime and Fisheries fund (EMFF) under grant agreement No 789059

This output reflects only the author's view and the European Union cannot be held responsible for any use that may be made of the information contained therein.