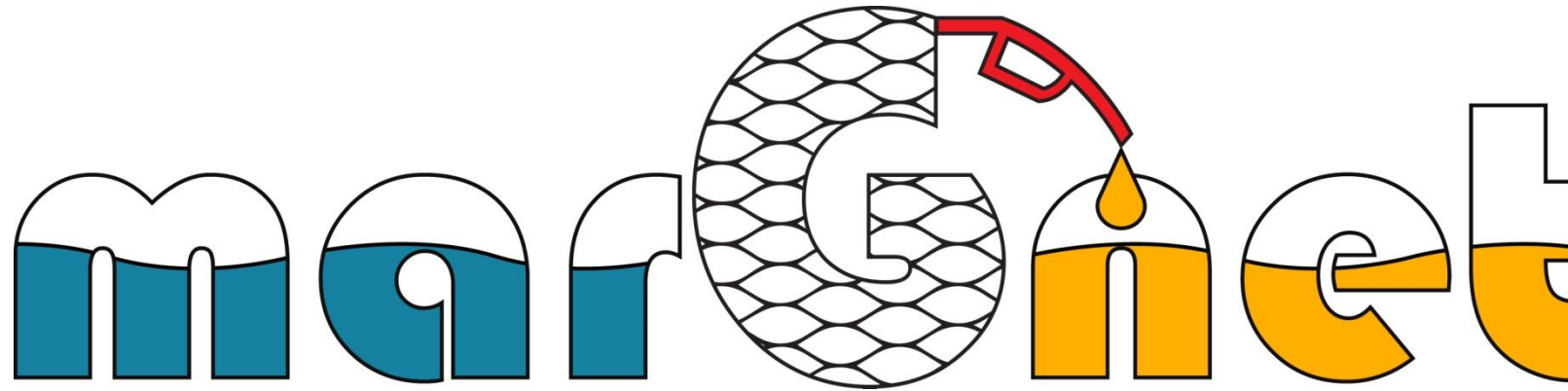


# Mapping and recycling of marine litter and Ghost nets on the sea-floor



**Fantina Madricardo**

**SUSTAINABLE BLUE ECONOMY: A SYSTEMIC APPROACH TO  
TACKLE MARINE LITTER**

**EMFF marine litter projects closing event**



**CNR  
ISMAR**  
ISTITUTO  
DI SCIENZE  
MARINE



Co-funded by the European  
Maritime and Fisheries Fund

[www.margnet.eu](http://www.margnet.eu)

# PARTNERS

1. LP-CNR - ISMAR, Italy



2. Laguna Project s.n.c., Italy



3. BWI, Croatia



4. Sintol srl, Italy



5. Techneprojects srl, Italy



[www.margnet.eu](http://www.margnet.eu)



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# BUDGET & DURATION

Costs of the project action -  
611,792 €

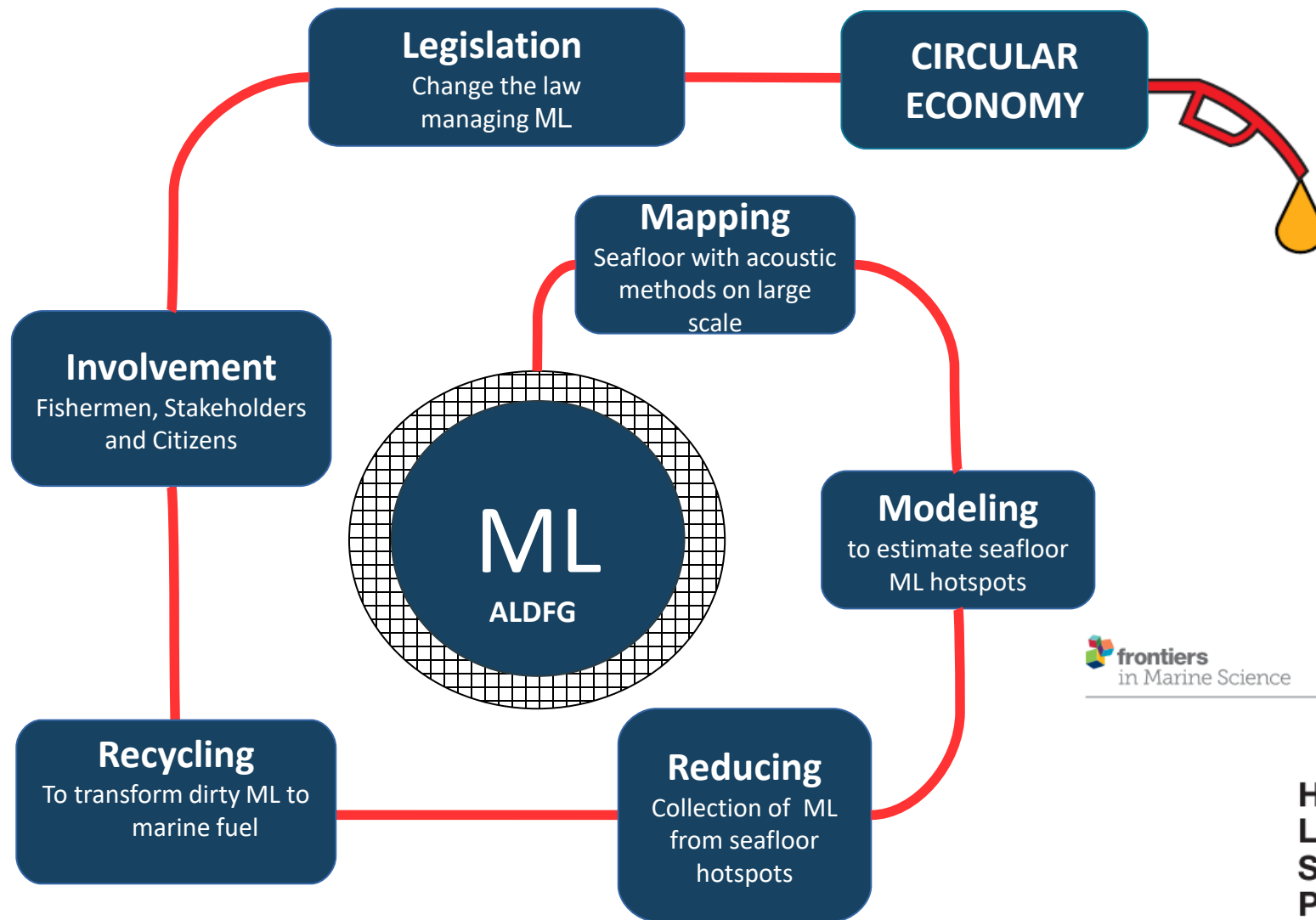
EU contribution granted -  
488,575 € (80%)

Start 01/01/2019  
End 31/12/2020

Duration 24 months

EASME/EMFF/2017/1.2.1.12/S2/05/SI2.789314

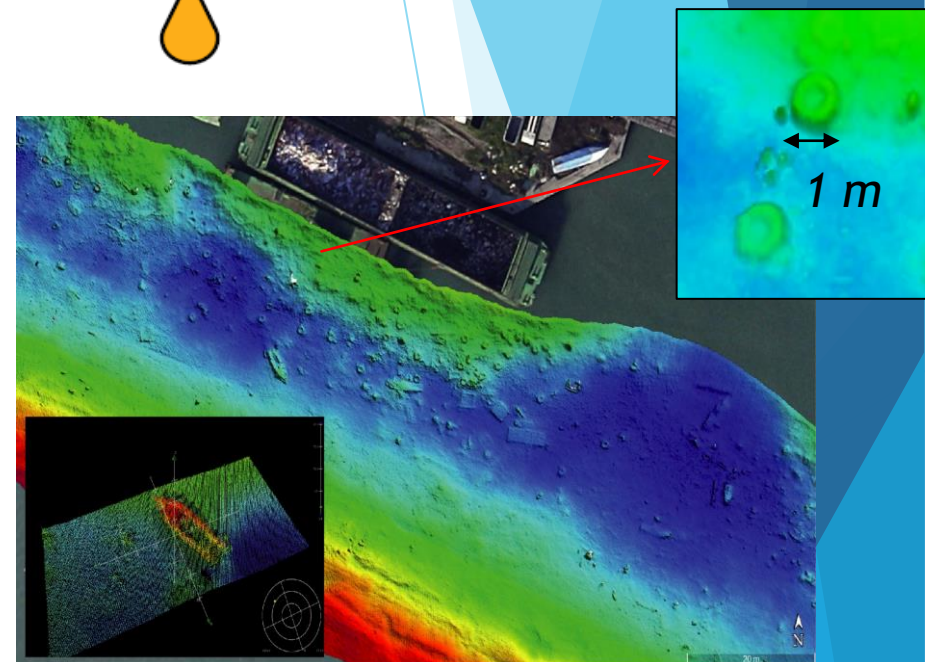
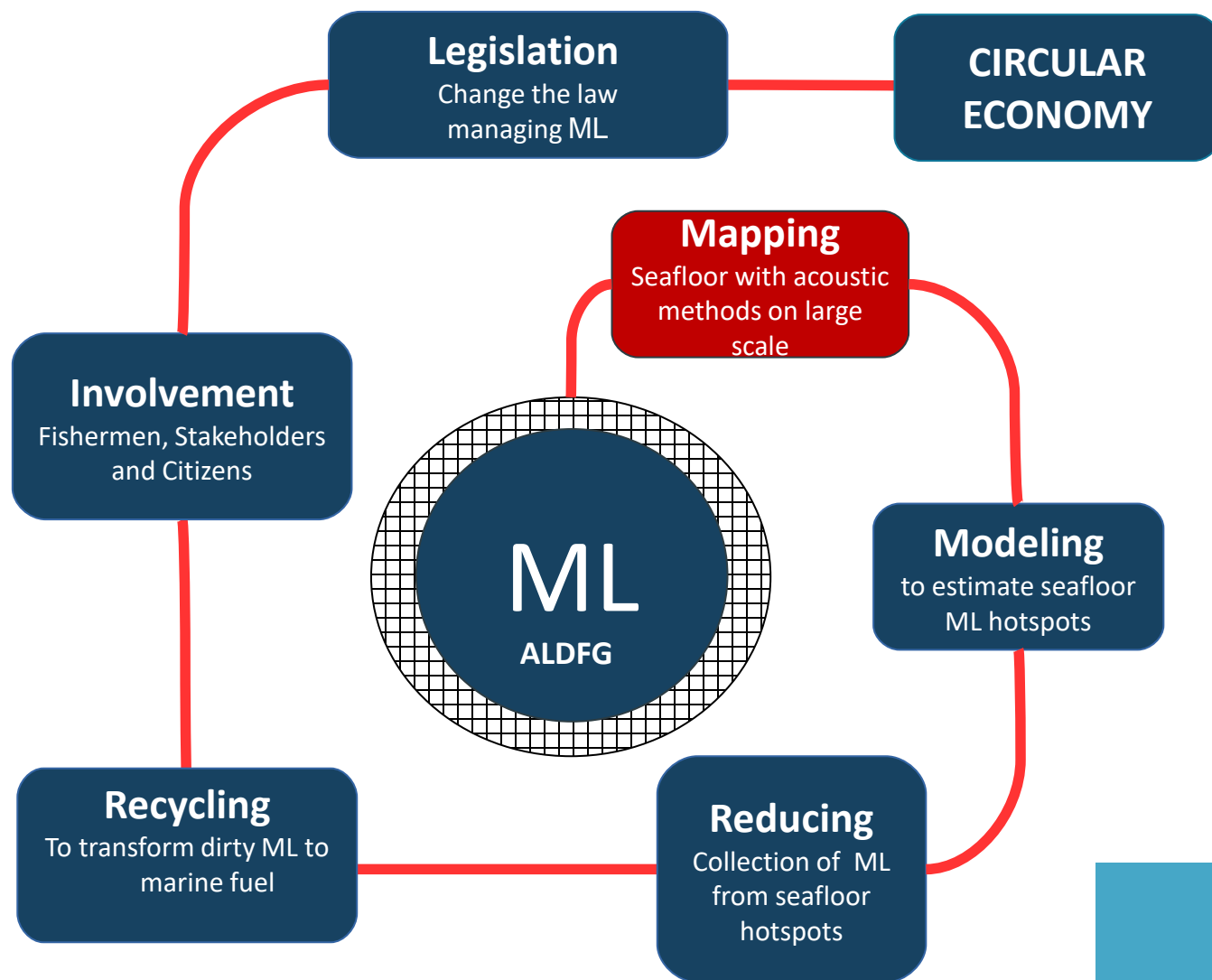
Sustainable Blue Economy: Marine Litter

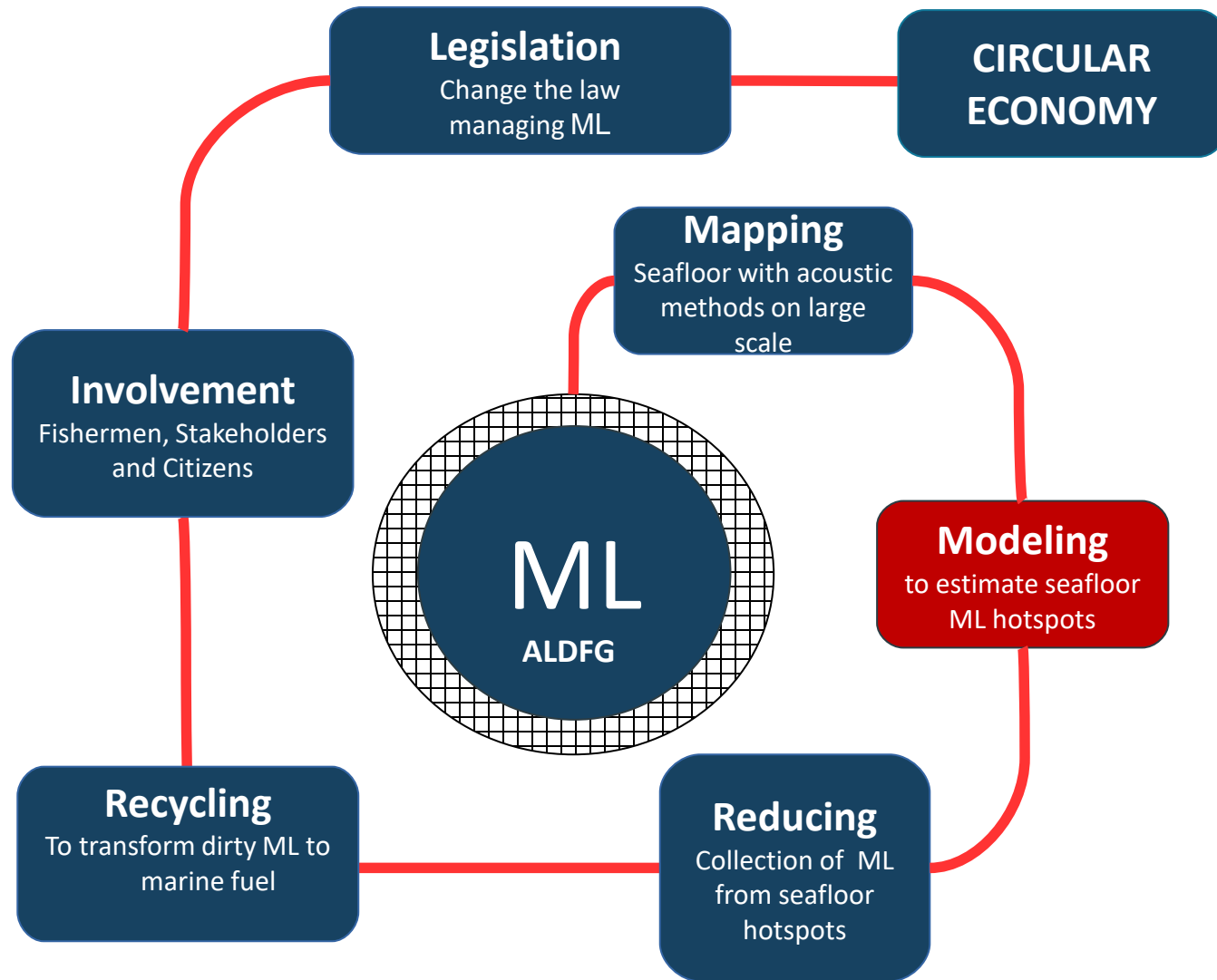


## How to Deal With Seafloor Marine Litter: An Overview of the State-of-the-Art and Future Perspectives

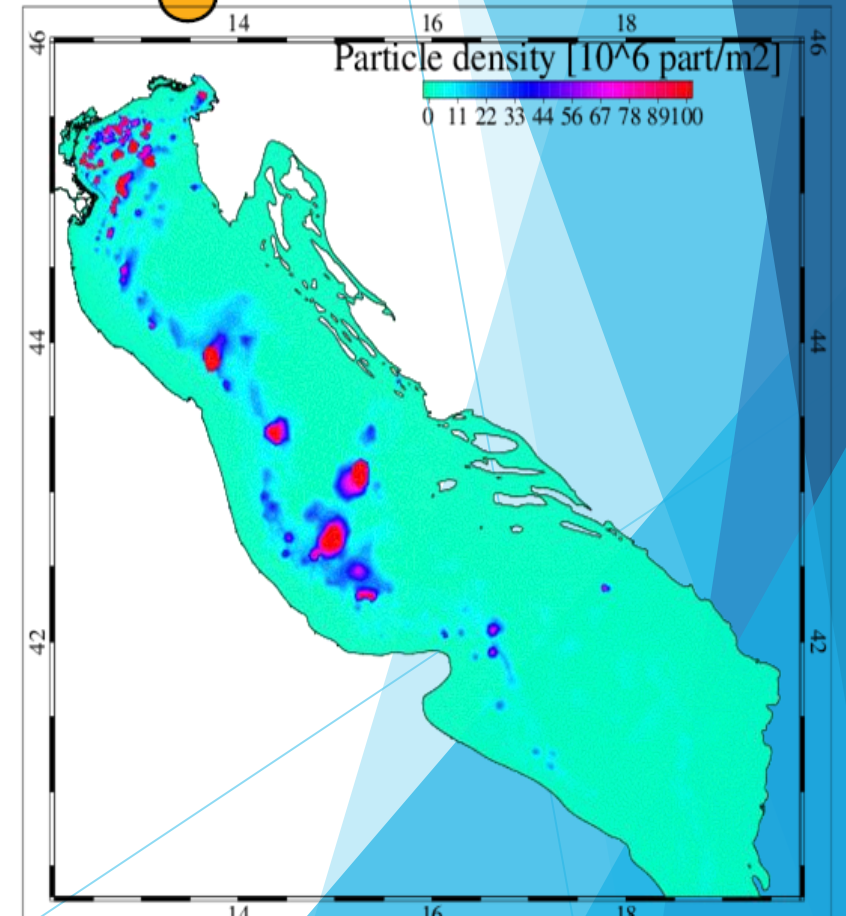
Fantina Madricardo<sup>1\*</sup>, Michol Ghezzi<sup>1</sup>, Nicoletta Nesto<sup>1</sup>, William Joseph Mc Kiver<sup>1</sup>, Gian Claudio Faussone<sup>2</sup>, Riccardo Fiorin<sup>3</sup>, Federico Riccato<sup>3</sup>, Peter Charles Mackelworth<sup>4,5</sup>, Jelena Basta<sup>4</sup>, Francesca De Pascalis<sup>1</sup>, Aleksandra Kruss<sup>1</sup>, Antonio Petrizzo<sup>1</sup> and Vanessa Moschino<sup>1</sup>

<sup>1</sup> Istituto di Scienze Marine-Consiglio Nazionale delle Ricerche, Venice, Italy, <sup>2</sup> SINTOL Srl, Turin, Italy, <sup>3</sup> Laguna Project s.r.l., Venice, Italy, <sup>4</sup> Blue World Institute of Marine Research and Conservation – BWI, Veli Losinj, Croatia, <sup>5</sup> Institute for Tourism, Zagreb, Croatia

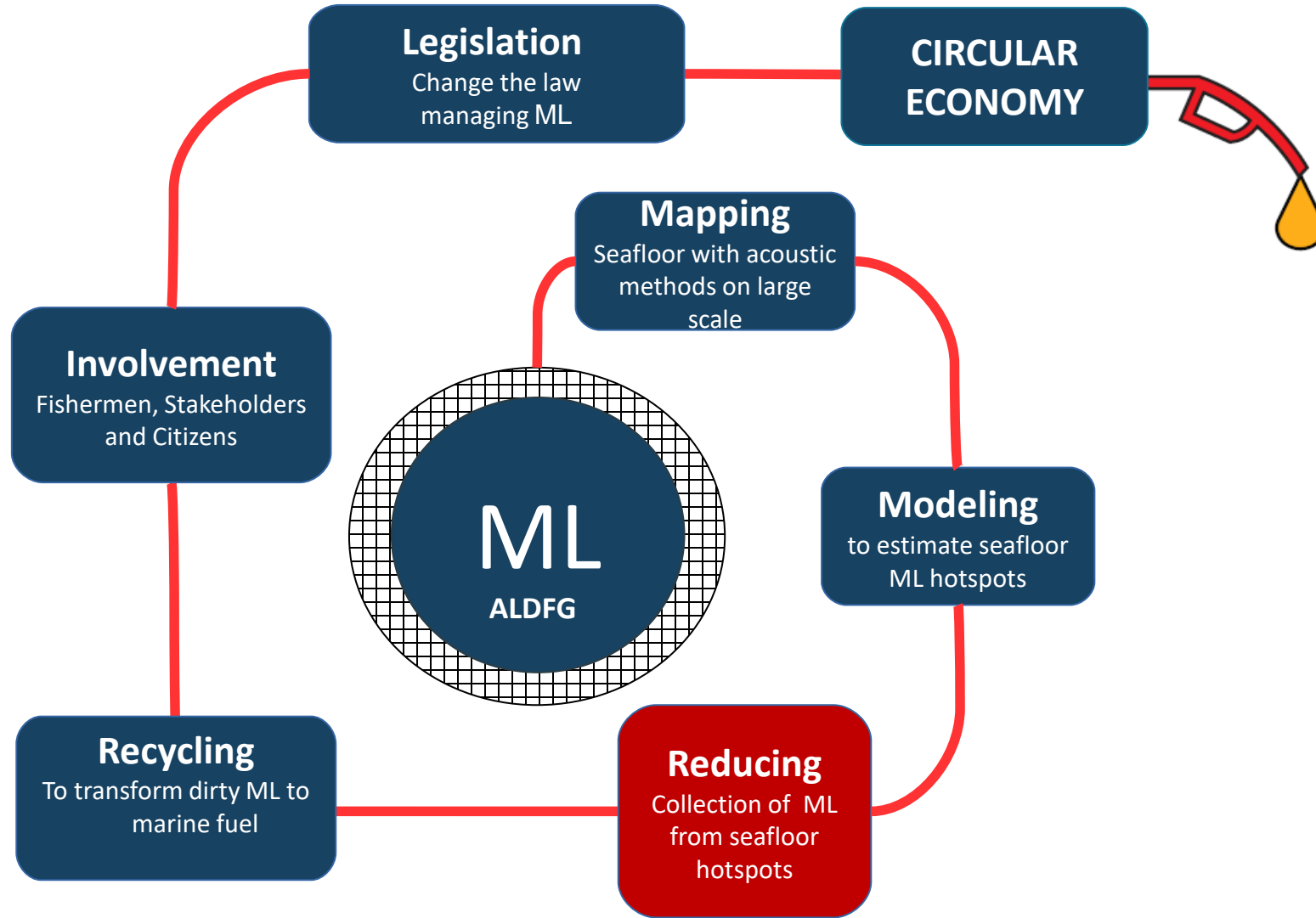


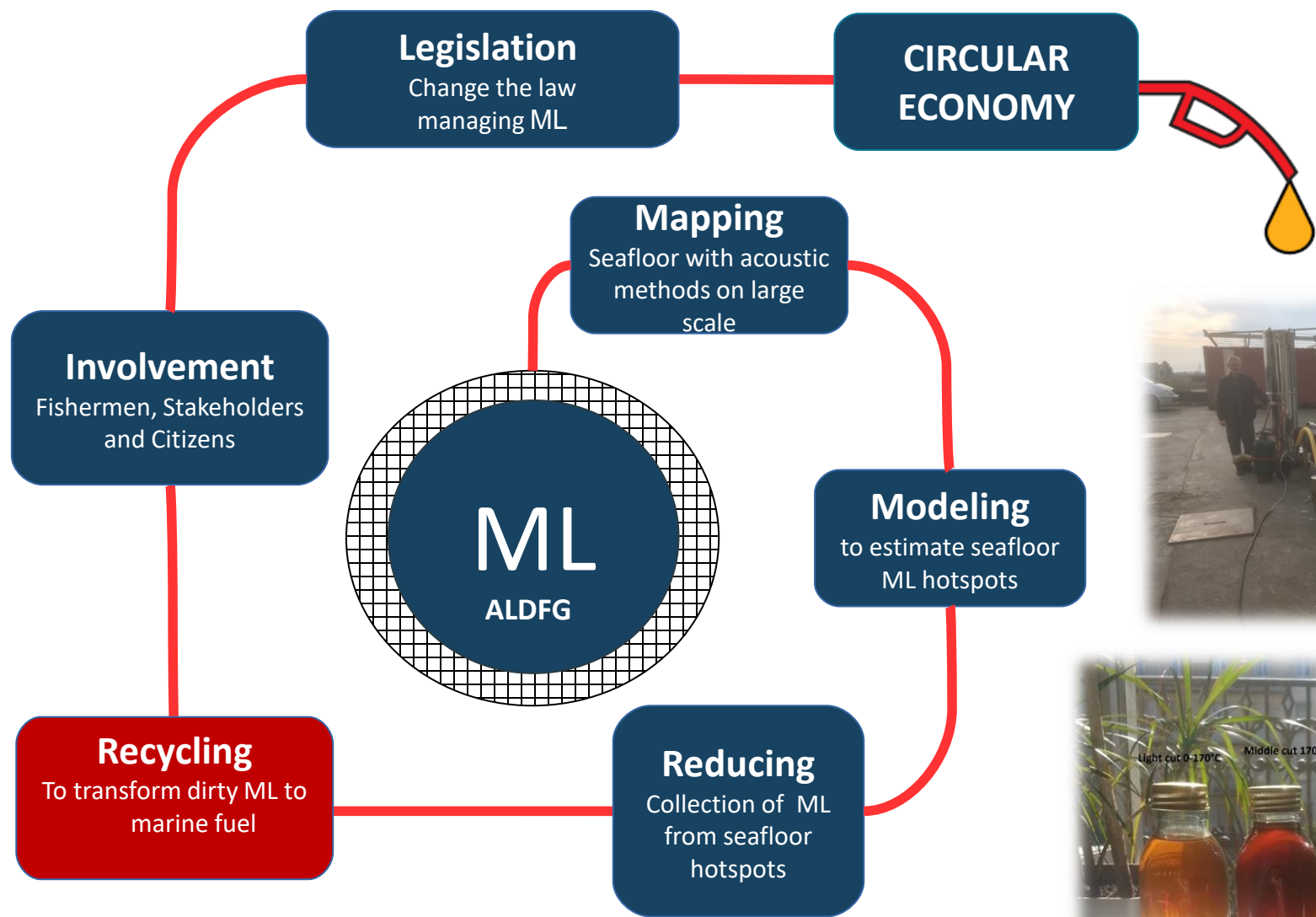


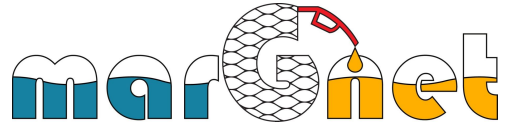
✓ Maps of ML hotspots in the Northern Adriatic Sea









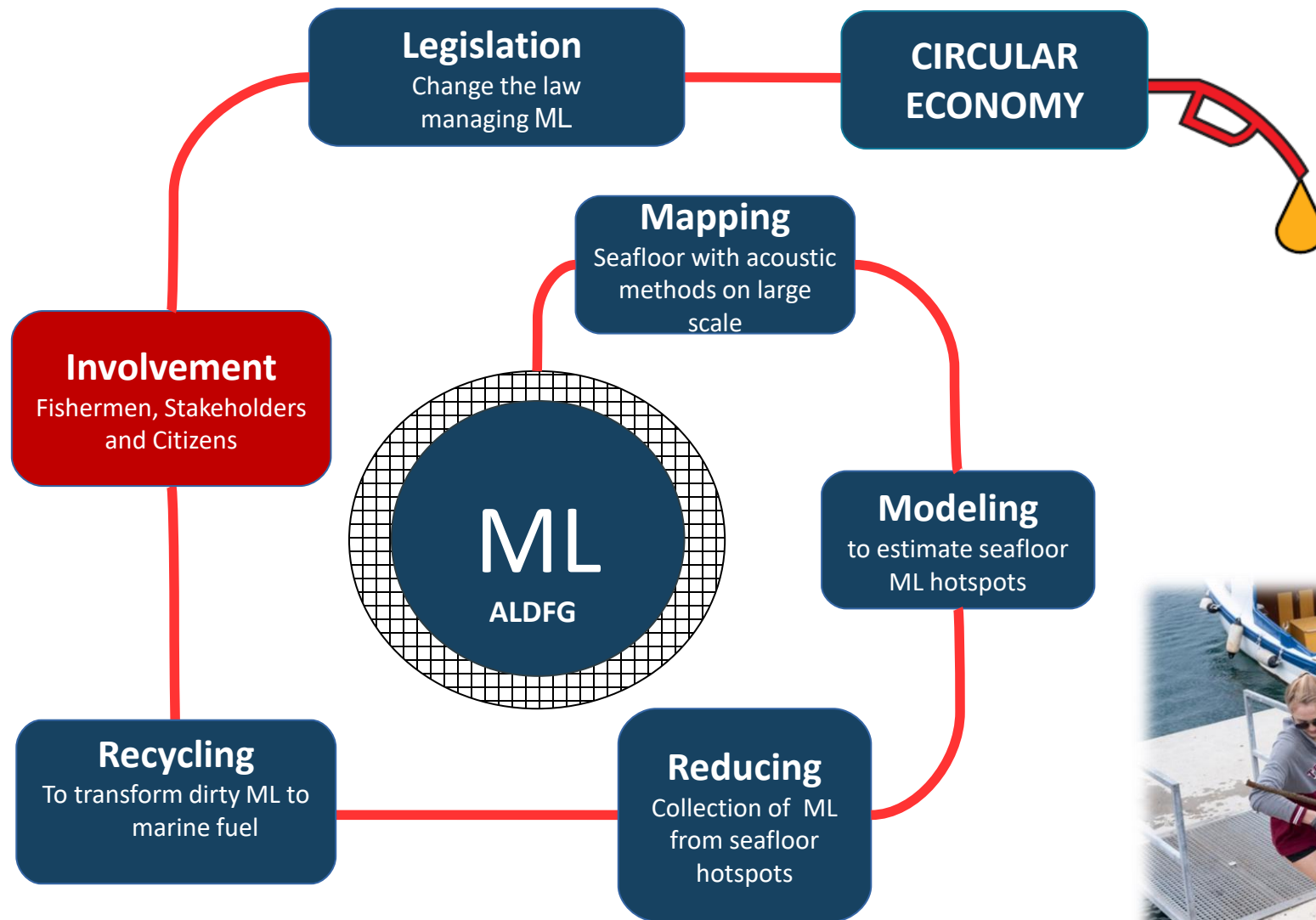


## RECYCLING MAIN RESULTS

- ✓ Development and test of low temperature pyrolysis prototype for ML recycling into **marine fuel**
- ✓ Over 250 Kg overall material processed without pre-treatment during project period
- ✓ Overall average products yield  
ML→fuels~45/50 wt%
- ✓ Reduction of 0,75 ton CO<sub>2</sub>eq/ton using the prototype fuel instead of marine fuel





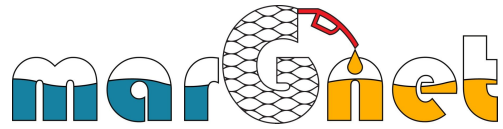


# marGnet INVOLVEMENT

- ✓ Involvement of fishermen through seminars, infographics, questionnaires
- ✓ Involvement of citizen and stakeholders through events and **art exhibitions** (clean ups, WOD and NET)
- ✓ Dissemination of the project at large scale events (ECOMONDO and FAIR) and demonstrations
- ✓ Agreement with the Chioggia Municipality to **test the prototype** at the fish market in March 2021

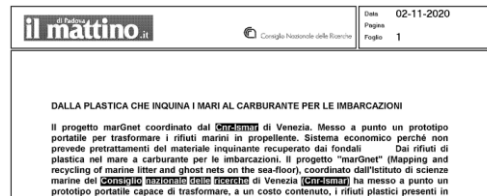






# LEGISLATION and MEDIA

- ✓ Involvement of relevant political stakeholders to overcome legislative barriers
- ✓ On. Rocca, president of the Environment Commission of the Camera dei Deputati, Italian Parliament participated to the 3 October 2020 marGnet demonstration in Venice
- ✓ Hopefully the media interest awoken by marGnet will help to induce legislative changes





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# THE BENEFITS marGnet



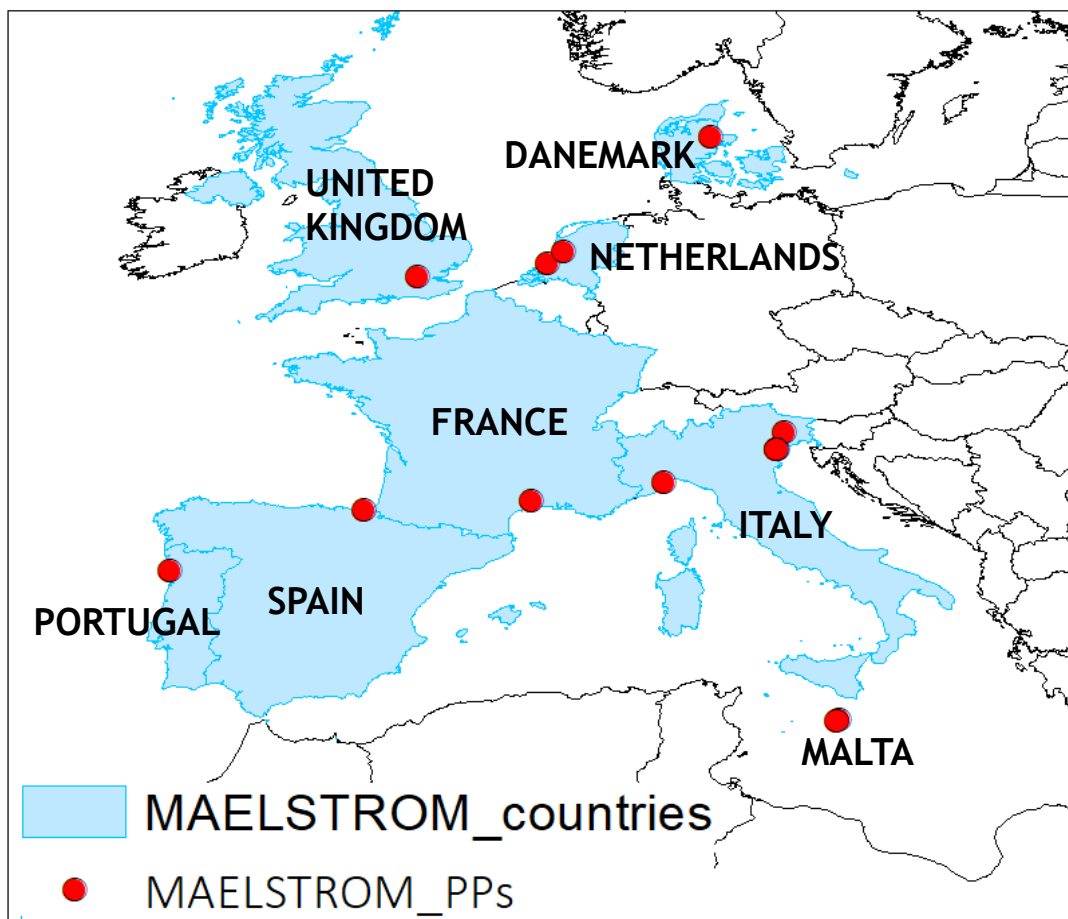




MAELSTROM

# H2020 MAELSTROM

## Smart technology for Marine Litter susTainable RemOval and Management



14 PARTNERS

8 EUROPEAN COUNTRIES

CNR (IT) COORDINATOR

EU contribution granted:

5,988,295.63 € (87%)

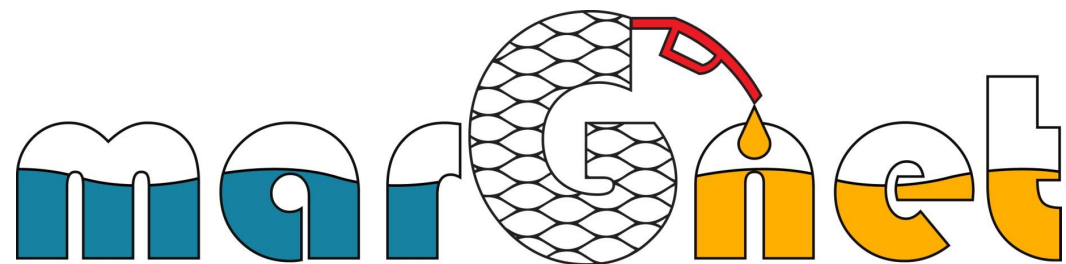
Project start - 01/01/2021

Project end 31/12/2024

Duration - 48 months



Co-funded by the Horizon 2020 programme  
of the European Union



THANK  
YOU!

