MARINE LITTER IN THE DANUBE AND THE BLACK SEA REGION:
CONCRETE PROPOSALS FROM THE REGIONS

THURSDAY 4 NOVEMBER 2021 | 11.00 - 13.30 (CET)

Innovative technologies and methods for waste cleaning, with emphasis on macro and microplastics, in the marine environment: the CLAIM project approach

CLAIM
CLEANING LITTER BY DEVELOPING AND APPLYING INNOVATIVE METHODS IN EUROPEAN SEAS

Dr. George Triantaphyllidis
gvtrianta@hcmr.gr

INTERGROUP
Seas, Rivers, Islands & Coastal Areas

CO-ORGANISED BY: CPMR CRPM | CPMR BALKAN & BLACK SEA COMMISSION | INTERNATIONAL CENTER FOR BLACK SEA STUDIES ICBSS BLACK SEA ECONOMIC COOPERATION

This project receives funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 774586.

CLAIM: 2 Seas, 16 Countries, 21 partners, 54 months duration

Project Information

CLAIM

Grant agreement ID: 774586

Project website

Start date
1 November 2017

End date
31 October 2021

Ext: April 2022

Funded under
H2020-EU.3.2.5.

Overall budget
€ 6 185 612,75

EU contribution
€ 5 654 786,01

Coordinated by
HELLENIC CENTRE FOR MARINE RESEARCH

Greece

Sea litter / plastic pollution: A growing problem

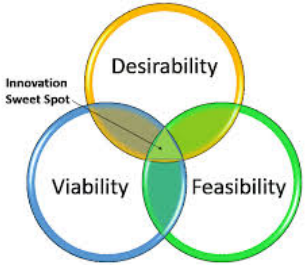
This project receives funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 774586.

CLAIM's Objectives

Advance our knowledge on the current status of marine plastic pollution

Fostering ecosystems: interventions to **tackle marine litter issues and produce impact** on human well being

Provide innovative technologies to reduce the amount and impact of plastic pollution



Test the economic feasibility, social acceptance, institutional framework

Set the basis for **operational forecasting of the impacts of marine plastic litter pollution**

Change policy and public perceptions and **provide advice for management decision making**

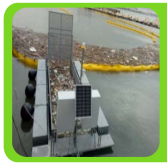
This project receives funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 774586.

IN BRIEF – TECHNOLOGIES AND APPROACHES

Technologies

WWTPs photocatalytic device

WWTPs pre-filtering device



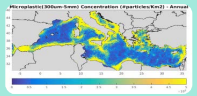
River mouths Floating Barriers (CLEAN TRASH system)

Harbour & Vessels small-scale Pyroliser

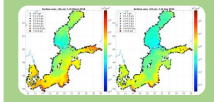
FerryBox flow-through filtering system

Knowledge / Forecasting tools & Methods

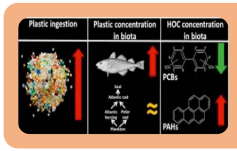
Database Macro/Micro marine plastic litter



Mediterranean (Saline & oligotrophic system) Macro/Micro plastic litter forecasting



Baltic (Brackish system heavily influenced by freshwater runoff) Macro/Micro plastic litter forecasting



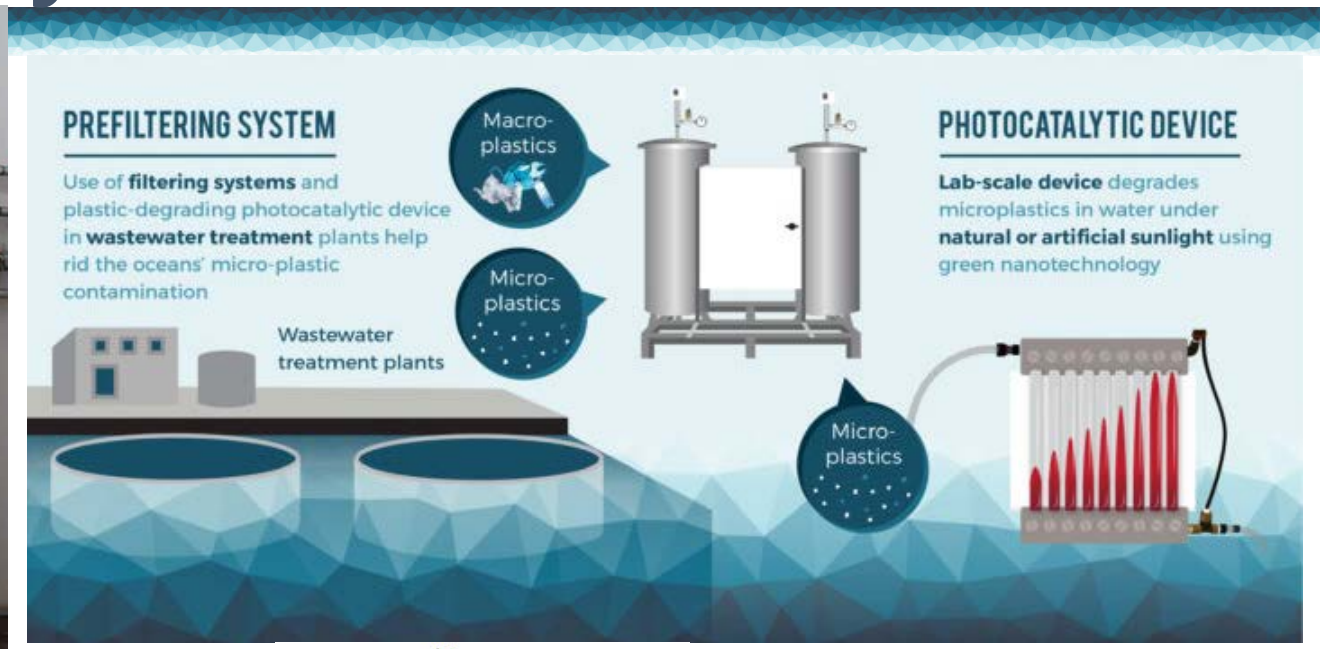
Fostering ecosystem services

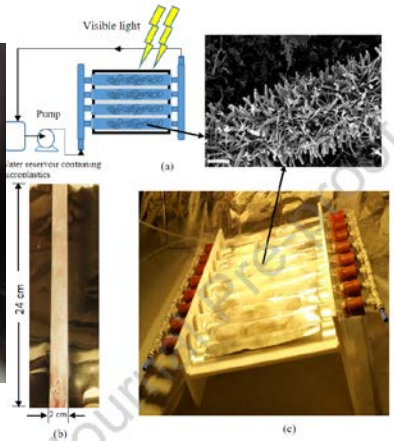
Cost-effectiveness analysis, Social acceptance, Business models, MCDA

Communication & Dissemination

This project receives funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 774586.

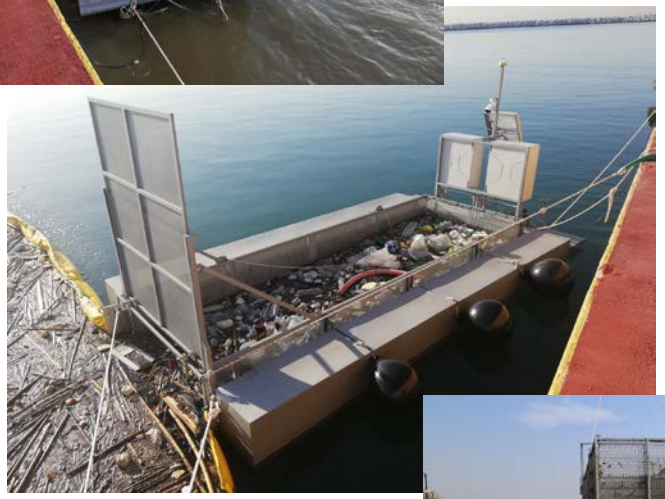
Pre-filtering system and Photocatalytic device

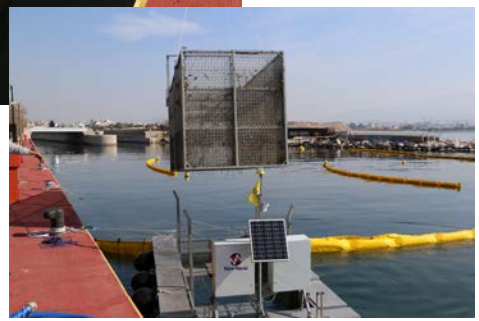




This project receives funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 774586.

CLEAN TRASH
CLAIM's Litter Entrapping Autonomous Network Tactical Recovery Accumulation System Hellas





This project receives funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 774586.

CLEAN TRASH
CLAIM's Litter Entrapping Autonomous Network Tactical Recovery Accumulation System Hellas

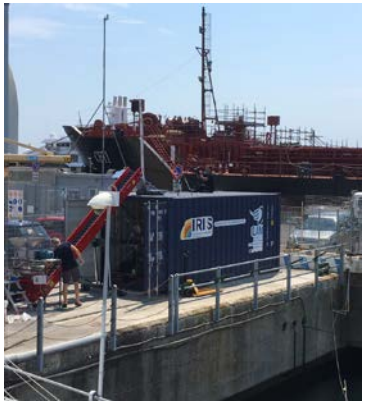
https://www.claim-h2020project.eu/technologies/

https://www.claim-h2020project.eu/successful-installation-and-trial-of-claims-marine-litter-containment-floating-boom/

This project receives funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 774586.

PYROLISER

VESSEL

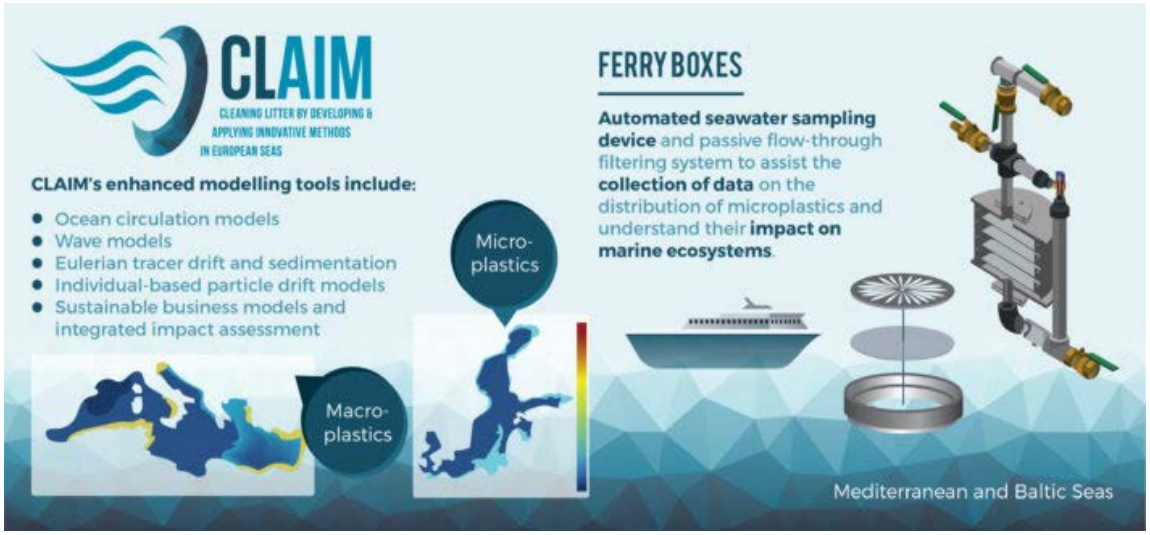


https://www.claim-h2020project.eu/one-step-closer-to-battling-marine-plastic-litter/

PORT

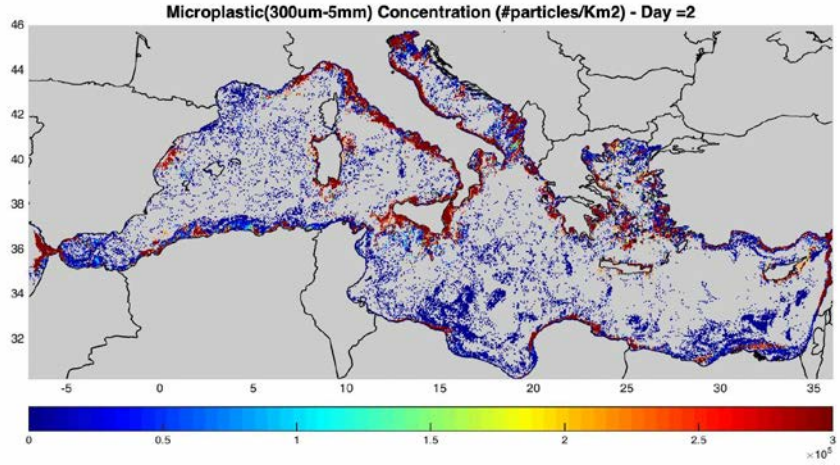
This project receives funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 774586.

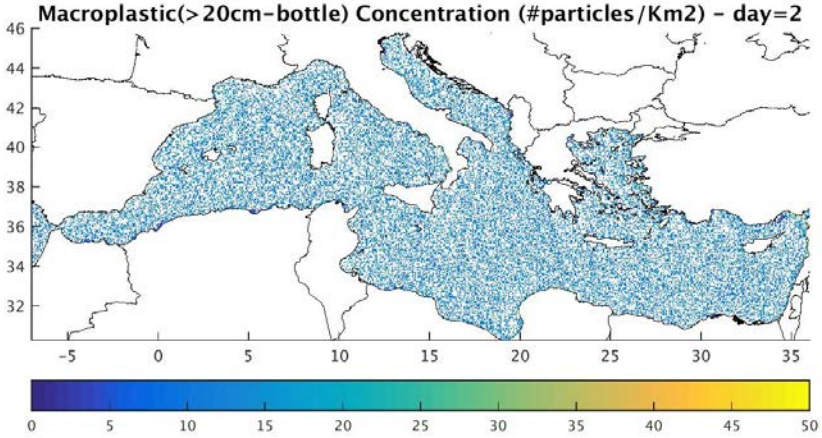
FerryBox automated seawater sampling device and passive flow-through filtering system

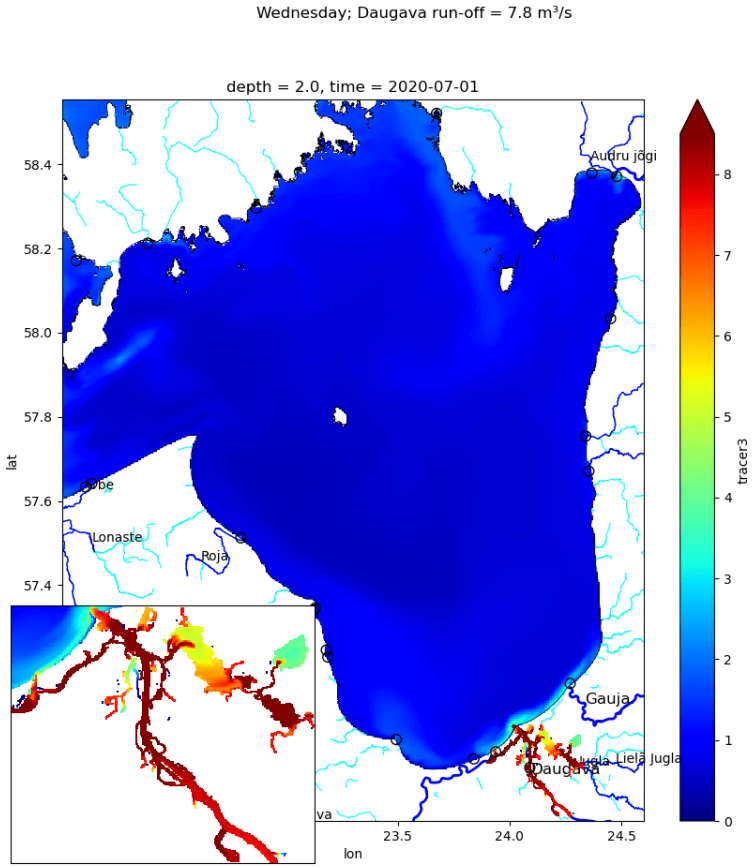


This project receives funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 774586.

Use of hydrodynamic – ecological models - Ecosystem approach

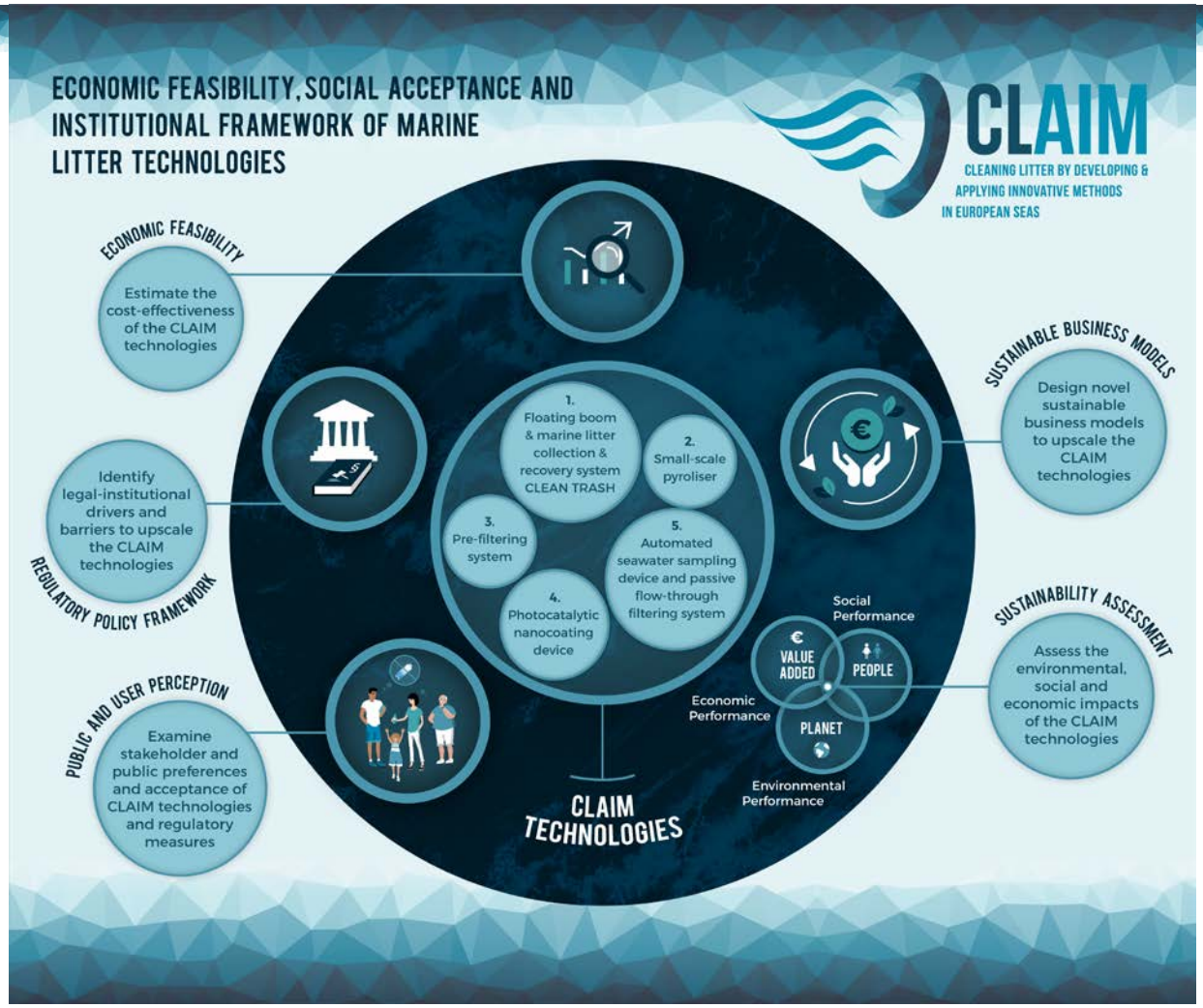






This project receives funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 774586.

Socioeconomics



This project receives funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 774586.

Website: www.CLAIM-H2020project.eu

Email: claim@hcmr.gr

Twitter: @CLAIM_H2020

Facebook: @CLAIM.H2020

Instagram: @claim.h2020

YouTube: CLAIM H2020

- **Dr. George Triantaphyllidis**

gvtrianta@hcmr.gr

Institute of Oceanography
Hellenic Centre for Marine Research

THANK YOU

QUESTIONS?

This project receives funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 774586