Adrion Interreg Sub-Cluster 2.3 "Waste Management and Reduction of Pollution Diffusion"

Activities and challenges to preserve the environment in the wider Adriatic area: The case of Adrion Interreg Sub Cluster for waste management and reduction of pollution
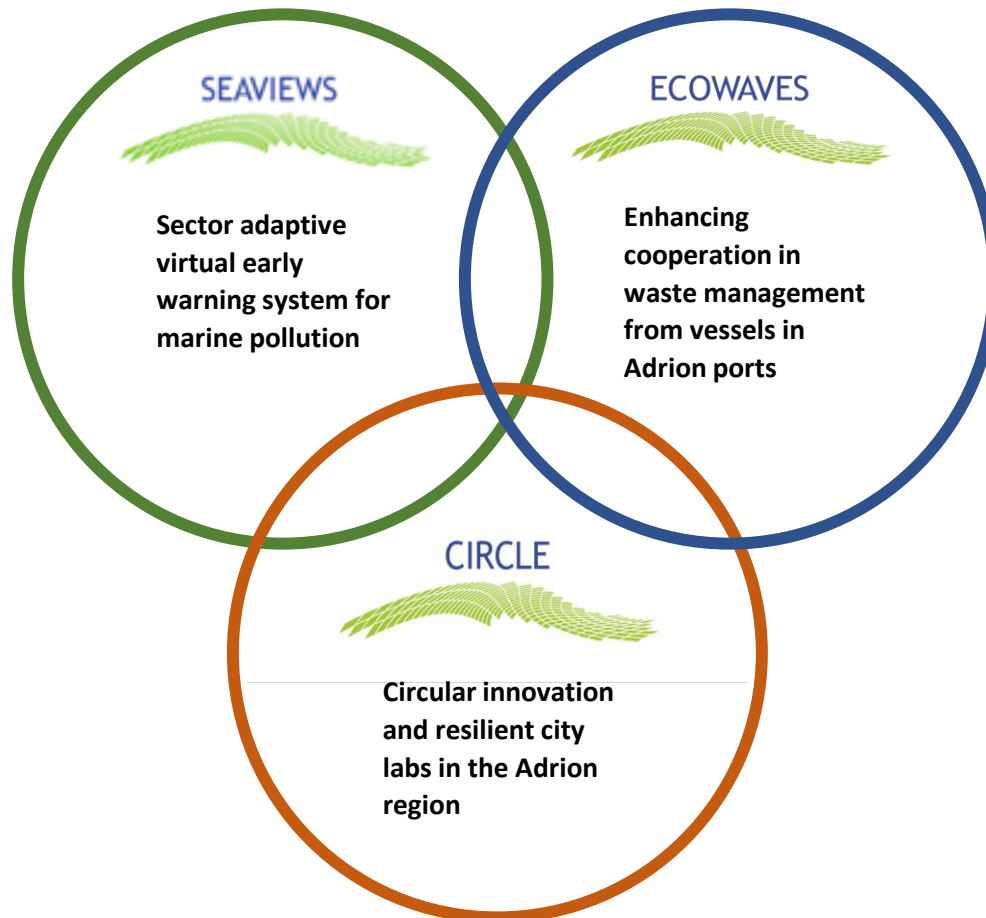
Marco Affronte

Interreg ADRION - Sub-Cluster 2.3

Adrion Interreg Sub-Cluster 2.3 "Waste Management and reduction of pollution diffusion" was established in 2021.

SEAVIEWS

Sector adaptive virtual early warning system for marine pollution

ECOWAVES

Enhancing cooperation in waste management from vessels in Adrion ports

CIRCLE

Circular innovation and resilient city labs in the Adrion region

Interreg ADRION ADRIATIC-IONIAN
European Regional Development Fund : Instrument for Pre-Accession II Fund

SEAVIEWS   CIRCLE   ECOWAVES

SEAVIEWS Main outputs

SEAVIEWS PROJECT

SEctor Adaptive VIrtual Early Warning System for marine pollution

Output 1.1

A transnational repository network that will receive, store and analyse data from a network of smart sensors installed in critical points in the ADRION area.
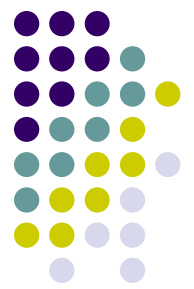
- Sensors
- Mobile App
- Marine Pollution Hubs

Output 1.2

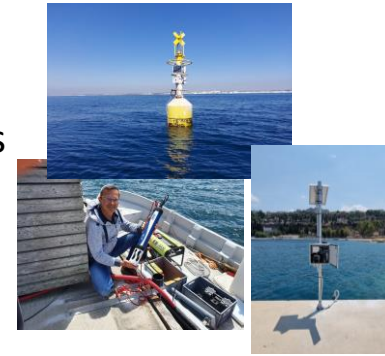A strategy and action plan developed in the field of environmental protection

- Big Data Analytics
- Mapping national and regional strategies
- Propose amendments and RCO's (Risk Control Options)

Output 1: Transnational repository network

Network of smart-sensors

- Measure water quality parameters
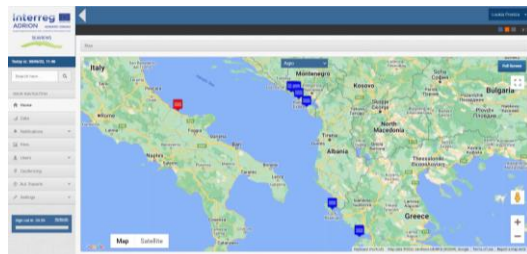- Installed in key locations in the ADRION

Marine Pollution Hubs

Focal points to promote marine environment protection, innovation and better governance

04

01

02

03

SEAVIEWERS Application

Citizen science tool to report marine pollution incidents

POLLUTION:
why is important to send data as citizen scientist

Marine pollution is a serious problem that affects biodiversity and ecosystems. It is not always easy to identify its sources but, being everywhere, citizens can identify and report pollution with one click through the SEAVIEWERS application.

Be a citizen scientist!

Platform

- Collects and hosts all received data (sensors, mobile app)
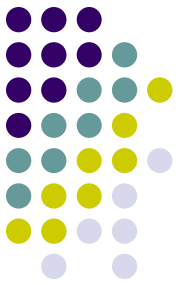- Various stakeholders have access to it

- Exploitation of input data applying **big data analytic** tools Descriptive statistics and AI algorithms in big data volumes

- These tools will lead to the **early identification of marine pollution** incidents and the mitigation of impact

- Development of a **dynamic decision policy**

- **Mapping of existing strategies** and involved authorities, identify gaps and proposing amendments

- Propose **Risk Control Options (RCOs)** minimizing risk based on the elaboration of collected data

CIRCLE Main outputs

To **promote models of waste management/recycling** based on a strongest and diffuse implementation of the **circular economy's** principles in the Adrion region, thanks to planning and implementation of a collaborative approach
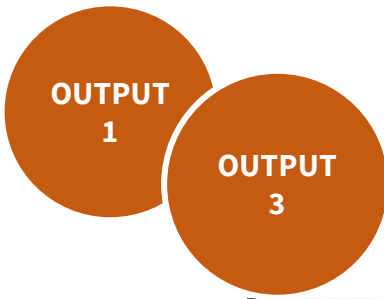
OUTPUT 1
Transnational strategy for the establishment of Circular Innovation Resilient City Lab (CIRCLab)

OUTPUT 2
Transnational Action Plan to advance in waste management in the four thematic areas
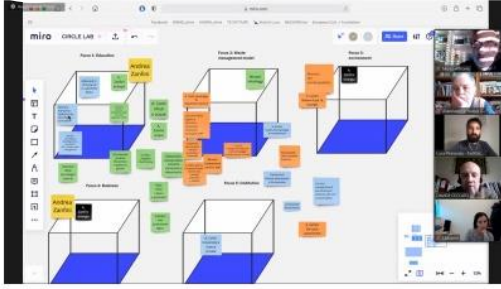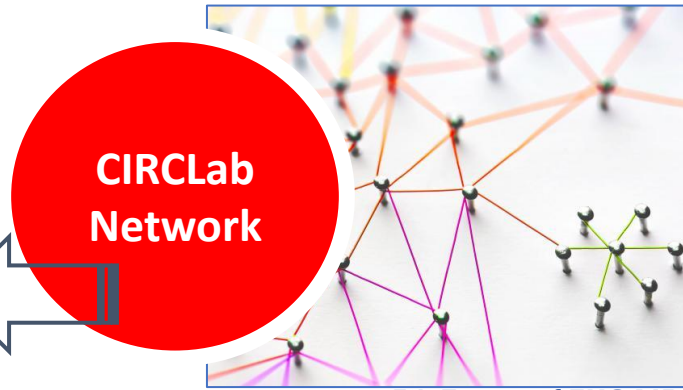
OUTPUT 3

CIRCLabs Network

The CIRCIabs

1. CIRCLab Forlì (Italy)
2. CIRCLab Velenje (Slovenia)
3. CIRCLab Goriška region (Slovenia)
4. CIRCLab Međimurje County (Croatia)
5. CIRCLab Croatia (Croatia)
6. CIRCLab Eastern Thessaloniki (Greece)
7. CIRCLab Western Greece(Greece)
8. CIRCLab Bosnia and Herzegovina (Bosnia and Herzegovina)
9. CIRCLab Serbia (Serbia)
10. CIRCLab Ulcinj (Montenegro)
11. CIRCLab Tirana (Albania)

The CIRCLabs are based on the principles and characteristics of Living Labs, which are "physical regions or virtual realities, or interaction spaces, in which stakeholders form public-private-people partnerships (4Ps) of companies, public agencies, universities, users, and other stakeholders, all collaborating for creation, prototyping, validating, and testing of new technologies, services, products, and systems in real-life contexts"

It could be an informal network/cluster, or a formal network (e.g. an association or another legal statement)

CIRCLab Network

The four thematic pilot actions

Industrial symbiosis

Waste matching database
Market survey on special waste flows

Organic waste

Municipality of Laktaši (Bosnia Herzegovina) bought:
a waste truck, 15 containers, 85 composters

Waste electrical & electronic equipment (WEEE)

The city of Zrenjanin (Serbia) bought:
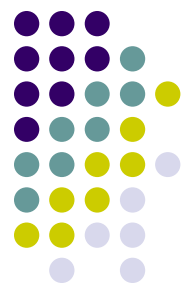10 WEEE containers, 1 cargo van for transportation of electronic waste

Construction and demolition waste (CDW)

Still working on this…

They have already collected almost 9 tonnes of waste, 5 of which in cooperation with some local schools.

ECOWAVES Main outputs

Project Objective

- To establish coordinated transnational strategies for port authorities to support waste management and recycling.
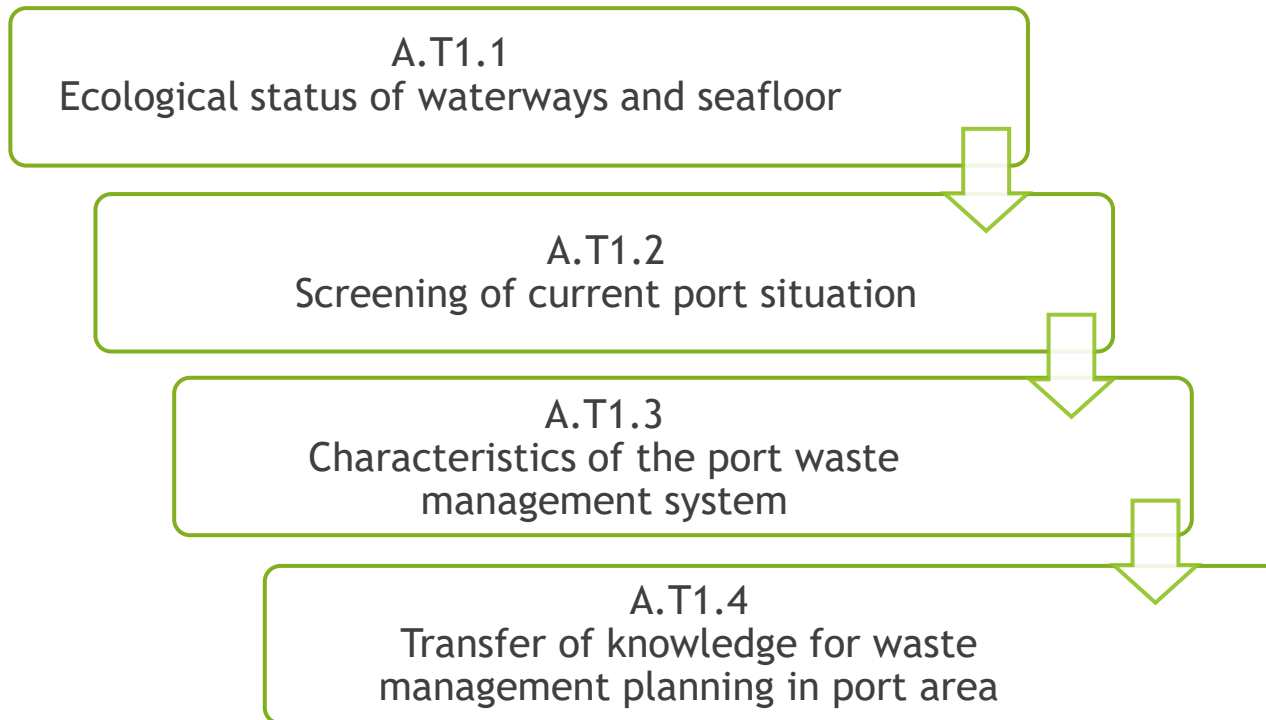
Output 1

- Transnational strategy on waste management for the protection of port environments

Output 2

- Creation of a transnational network for the environmental protection of port areas

Work Package T1: Port Environmental Framework

A.T1.1
Ecological status of waterways and seafloor

A.T1.2
Screening of current port situation

A.T1.3
Characteristics of the port waste management system

A.T1.4
Transfer of knowledge for waste management planning in port area
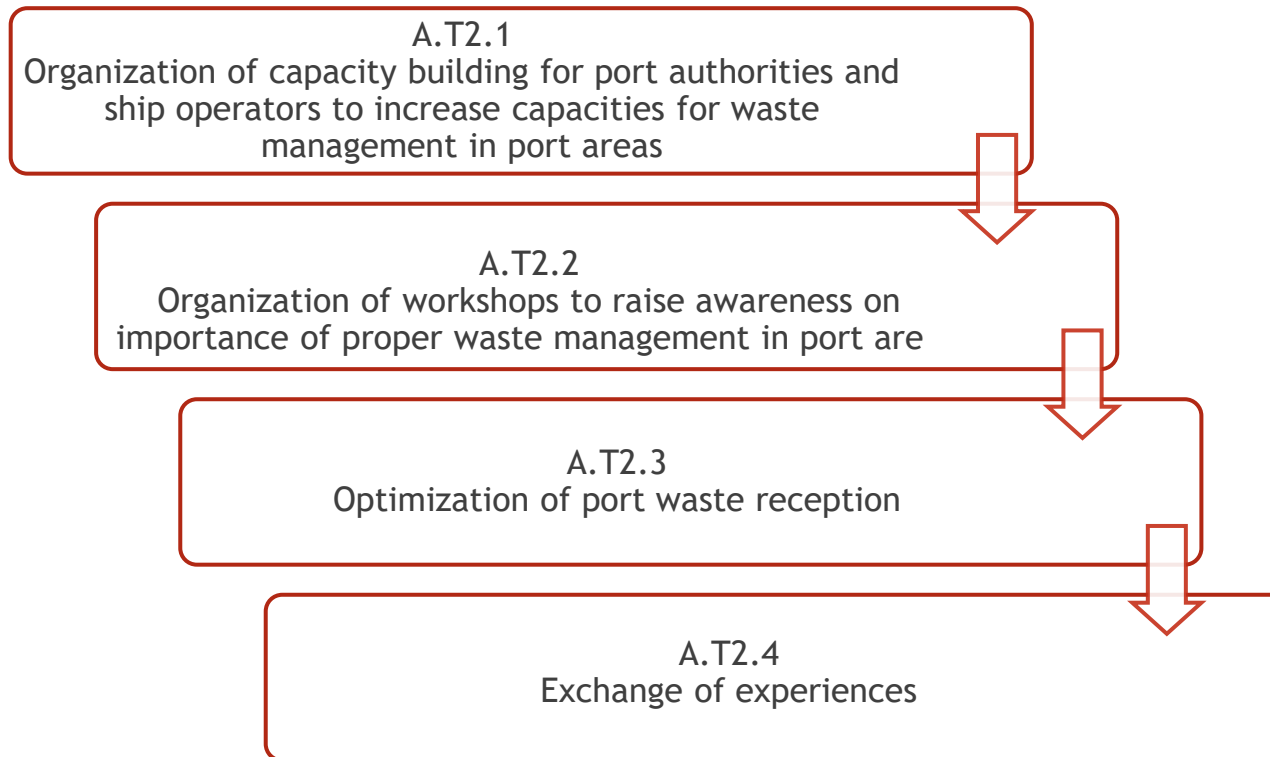
Focus:
- Setting the knowledge framework
- Collecting data regarding the ecological status of waterways and seafloors, vessels flow in ADRION ports and waste generation and characterization.
- Good practices in waste management in port and navigable area
- SWOT analysis of current port regulation on waste management will be also performed.
- Transfer knowledge of waste planning in port area.

Work Package T2: Enhancing the capacities

A.T2.1
Organization of capacity building for port authorities and ship operators to increase capacities for waste management in port areas

A.T2.2
Organization of workshops to raise awareness on importance of proper waste management in port are

A.T2.3
Optimization of port waste reception

A.T2.4
Exchange of experiences

Focus on:
- port authorities' capacity building and optimizing port waste reception
- increase awareness about proper waste management in port areas,
- Agreement will be signed to implement transnational policies, creating efficient networks among all Partners.
- Agreement with cruising lines setting environmental obligations on all vessels voyaging to and from ADRION programme countries

The Sub-Cluster 2.3 activities

Collaboration

Regular Meeting

Visibility

ADRION Website

Synergies

Macro-regional events

Added Value

Position Paper

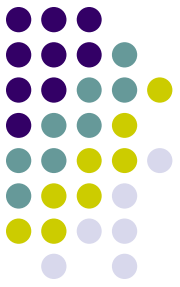| |
|---|
| Organization and participation to at least 3 cluster meetings with the involvement of all projects of the respective cluster |
| Participation to the ADRION Annual Events and/or ADRION capitalization events to present the outcomes of the capitalization activities and discuss on the potentials of the themes /topics covered |
| Contribution to the update of the new ADRION web section on clusters |
| Organization of 1 macro-regional event for the dissemination of TC outcomes and potentials; and 1 joint stakeholders' meeting addressing common interest |
| Elaboration of specific position (white) paper for influencing the policy debate in the theme of the TC |

Interreg ADRION ADRIATIC-IONIAN
European Regional Development Fund : Instrument for Pre-Accession II Fund

SEAVIEWS

CIRCLE

ECOWAVES

Cluster contribution to the EUSAIR strategy

EU Strategy for the Adriatic and Ionian Region
EUSAIR

ECOWAVES

- Improving the capacity of Port areas in the collection and management of several kind of waste is pivotal for protecting the marine environment.
- Raising awareness among public and private stakeholders about the importance of preventing waste to flow to the sea and rivers from the industrial port areas;
- Acquisition and test of new and improved equipment to put in place an effective waste management system;
- Exchange of knowledge about policies and best practices between EU and non-EU decision makers, in order to obtain a transnational improvement in the Adriatic-Ionian region
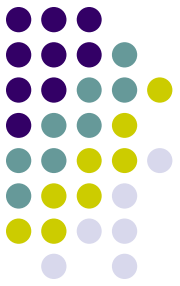
SEAVIEWS

- Enhanced coordination among stakeholders, regions, countries, in emergency issues related to marine pollution.
- Cleaner seas are vital for sustainable tourism, environmental quality and sustainable blue growth.
- Creation of a common data repository enabling compatibility and better coordination and links with other data repositories and platforms for marine waters monitoring (connecting the Region).
- Contribution to the development of common strategies and Risk Control Options to confront marine pollution in ADRION.

CIRCLE

- Circle aims to improve waste management by reducing waste flows, making waste a resource in a circular economy model. Improving waste management helps to reduce waste flows to the sea.
- The general objective of the EUSAIR is to promote economic and social prosperity and growth in the region, and CIRCLE with the creation of CIRCLabs, CIRCLab Network and the 4 different pilot projects can help develop new business for companies in the area.

Interreg
ADRION ADRIATIC-IONIAN
European Regional Development Fund : Instrument for Pre-Accession II Fund

SEAVIEWS   CIRCLE   ECOWAVES

Adrion Interreg Sub-Cluster 2.3 "Waste Management and Reduction of Pollution Diffusion"

Thank you

Contacts:

SEAVIEWS: Eirini Stomatopoulou - eirini_stamatopoulou@hotmail.com

CIRCLE: Marco Affronte - affronte@gmail.com

ECOWAVES: Paolo Lopolito - paolo.lopolito@programmasviluppo.it