

# In Croatia about 540 children and 20 kindergarten teachers will be educated through developed educational programs Deliverable report

WP3 – Activity 3.2 – Marine litter educational programme development and implementation

## DELIVERABLE D3.2.1.

Partner in Charge: PP6

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ML-Repair Reducing and preventing, an integrated Approach to Marine Litter Management in the Adriatic Sea – Axis 3 – SO 3.3

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## 1 PROJECT PRESENTATION

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### 1.1 *Project description*

The ML-REPAIR project (REducing and Preventing, an Integrated Approach to Marine Litter Management in the Adriatic Sea) started on 01.01.2018 and lasted 21 months, ending on 30 September 2019. The general objective of the ML – REPAIR project was to prevent and reduce the input of waste in the Adriatic Sea through the involvement of the main stakeholders. The Adriatic Sea is a semi-closed basin with slow streams, making it vulnerable to pollution. Marine Litter (ML) is defined as any solid, manufactured or processed solid material discarded, disposed of or abandoned into the marine and coastal environment. It is a growing cause of concern for the degradation of the marine and coastal ecosystems, potentially endangering the functionality of the ecosystem itself and reducing the quality of coastal waters for fishing and tourism. Sea cross-border issues due to their cross-border effects require common approaches from different countries and their joint efforts. Within the ML-REPAIR project, activities have been carried out in Croatia and Italy, and the main focus of the project was to involve the target groups – fishermen and fishing associations/cooperatives, local communities and the younger population, the tourism sector, public administration bodies and the FLAG – (Fisheries Local Action Groups in Croatia and Italy) and LAGs (Local Action Groups). The project leader was Ca' Foscari University of Venice, and partners were the Italian National Institute for Environmental Protection and Research (ISPRA), the cooperatives M.A.R.E. and LIMOSA for Italy and the Institute of Oceanography and Fisheries (IZOR), Public Institution RERA S.D. for the coordination and development of the Split-Dalmatia County and the Association for Nature, Environment and Sustainable Development (Sunce), for Croatia.

### 1.2 *WP 3 - raising awareness and knowledge transfer about marine litter issues to target groups*

The objective of the WP3 was to capitalize the DeFishGear project (DFG) by educating and raising awareness on marine litter problems and solutions within main target groups that are both sources of the problem and affected by the problem – local communities, tourists, fishermen. A comprehensive cross-border campaign was developed and implemented by a series of tools and activities such as exhibitions, workshops, video, posters, leaflets and work with the media. The campaign was built on WP2 communication strategy. WP3 activities have been coordinated and implemented by Croatian and Italian partners PP6 Sunce and PP3 Limosa experienced in environmental education and awareness-raising. PP1 ISPRA, PP4 IZOR and PP2 MARE implemented activity 3.4 especially targeted to fishermen. Other partners were involved by providing inputs on main DFG documents, recommendations and other outputs that needed to be communicated. They also provided inputs and feedback on educational and awareness rising messages; support in identifying contacts, distribution channels and participated in some of the WP3 events (exhibition openings, work with the media). All partners provided support in distributing produced material through their social networks, internet pages and networks of contacts, therefore increasing visibility, relevance, impact and ownership over project deliverables and outputs. Main outputs

have been used by institutional representatives of target groups (schools, museums, tourism agencies, marinas, fishermen cooperatives, media, relevant ministries and agencies, etc.), as well as by partners. Target groups representatives have been consulted at the very early stage of producing educational and communication material and activities to have deliverables that were relevant for each specific target group and could be easily distributed/implemented.

## 2 ACTIVITY 3.2. - MARINE LITTER EDUCATIONAL PROGRAMME DEVELOPMENT AND IMPLEMENTATION

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### 2.1 Activity description

Within Activity 3.2 a comprehensive educational programme for local communities' children was developed and implemented in order to raise their awareness and understanding of marine litter problem. Engaging children directly influence their parents too. This program was composed of: half-day workshops on marine litter topic which followed the exhibition *Plastica(mente)*; three-day workshops including theory, fieldwork and the development of a small project; a competition on the best marine litter project with a field trip as a reward; one-day workshop with 15 kindergarten teachers (trained on how to implement marine litter workshop for kindergarten children; implementation of minimum one workshop in the kindergarten.

A half-day workshop for school children was organized together with “*Plastica(mente)*” exhibition installed in Split, Zadar, Rijeka and Dubrovnik. In total, 86 children participated in these workshops in Split (Elementary schools Kamen Sine, Kraljice Jelene Solin, and Lucac), 182 children (Elementary school Smiljevac), 160 during workshops in Rijeka (elementary schools: Nikola Tesla, Pehlin, Brajda, Belvedere, Pod Murvica and 1 CSO Moje mjesto pod Suncem) and 50 during workshops in Dubrovnik. Additionally, Association educator did expert guidance for children (41) from elementary school Komiža during the exhibition *Plastica(mente)* installed in the Cultural Center Vitić (30 May 2019).

The concept of the three – day workshop for children was developed during 2<sup>nd</sup> reporting period and educators implemented the theoretical part with children from schools that joined this activity (Kamen Šine, Visoka, Žnjan – Pazdigrad, Skalice). During the 3<sup>rd</sup> reporting period, fieldwork was implemented with 81 children from these schools. Fieldwork included a trip to nearby beaches (Omiš and Pantan) to implement marine litter monitoring protocol (26 and 28 March, 2 April 2019). After that, children did their small personal projects (as a practical part of the three–day workshop) which they presented during the last workshop organized in every school (27 May 2019 in elementary school Žnjan – Pazdigrad and Kamen – Sine, 3 June 2019 in Skalice and Visoka).

**A competition on the best marine litter project** was organized during April 2018 with **184 children from 11 classes**. In total, 3 field trips were organized as a reward for this competition.

**One-day workshop for kindergarten teachers** was organized on 2 May 2018 and **26 teachers** were trained on how to implement a marine litter workshop for kindergarten children. One workshop was implemented with kindergarten Popaj in Split on 15 May 2018 with 27 kindergarten children participating.

## **2.2 Achievement of Deliverable 3.2.1. (D3.2.1. In Croatia about 540 children and 20 kindergarten teachers will be educated through developed educational programs)**

It was planned that during project implementation, the developed educational program would have reached about 540 children and 20 kindergarten teachers through the following activities:

- half-day workshops on marine litter topic implemented in 4 coastal cities, along with exhibition opening;
- three-day workshops including theory, fieldwork and the development of a small project, implemented in Split;
- organized competition on best marine litter project for 12 classes in Split, with a field trip as a reward;
- a one-day workshop for 15 kindergarten teachers trained on how to implement a marine litter workshop for kindergarten children and implementing minimum one, in total engaging 20 children per workshop.

**Half-day workshops** for school children were organized during “Plastica(mente)” exhibition installed in **5 cities** (Split, Zadar, Rijeka, Dubrovnik and Komiža). In total, **25 workshops** were organized (4 in Split, 9 in Zadar, 9 in Rijeka, 2 in Dubrovnik and 1 in Komiža) with **519 children** participating (86 in Split, 182 in Zadar, 160 in Rijeka, 50 in Dubrovnik and 41 in Komiža) (Figure 1-Figure 5).

**A three-day workshop** including theory, fieldwork and the development of a small project for children was developed during the **2<sup>nd</sup> reporting period** and educators implemented a theoretical part with **81 children** from schools that joined this activity (Kamen Šine, Visoka, Žnjan – Pazdigrad, Skalice). During the **3<sup>rd</sup> reporting period**, fieldwork was implemented which included a trip to nearby beaches (Omiš and Pantan) and children developed their small personal projects which they presented during the last workshop organized in every school (Figure 6-Figure 10).

**A competition on the best marine litter project** was organized in April 2018 with **184 children from 11 classes** (Figure 11). In total, **3 field trips** were organized as a reward for this competition. A **one-day workshop for kindergarten teachers** was organized on 2 May 2018 and **26 teachers** were trained on how to implement marine litter workshop for kindergarten children (Figure 12). One workshop was implemented with kindergarten Popaj in Split on 15 May 2018 with **27 kindergarten** children participating (Figure 13).

**Thus, within D3.2.1 812 children and 26 kindergarten teachers were educated through educational programs developed during the period of project implementation.**

### 2.3 Photos of educational activities within ML – REPAIR project



Figure 1 - Half-day workshop in Split



Figure 2 - Half-day workshop in Zadar



Figure 3 - Half-day workshop in Rijeka



Figure 4 - Half-day workshop in Dubrovnik



Figure 5 - Half-day workshop in Komiza





Figure 6 - Three-day workshops - fieldwork (22.03.2019. Omiš beach)



Figure 7 - Three-day workshops - fieldwork (28.03.2019. Pantan beach)



Figure 8: Three-day workshops - fieldwork (02.04.2019. Pantan beach)



Figure 8 - Three-day workshops – practical work presentation (27.05.2019. schools Znjan – Pazdigrad and Kamen Sine)



Figure 9 - Three-day workshops – practical work presentation (03.06.2019. School Skalice)



Figure 10 - Three-day workshops – practical work presentation (10.06.2019. School Visoka)



Figure 11 - Competition on best marine litter project



Figure 12 - One day workshop with 15 kindergarten teachers



Figure 13 - Workshop with kindergarten children