

In Italy about 1800 children – from childhood to lower secondary education – and 130 teachers will be educated through developed educational programs

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

DELIVERABLE D3.2.2.

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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

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 for a total of 21 months. The general objective of the ML – REPAIR project is to prevent and reduce the incineration and spraying of waste in the Adriatic Sea. The Adriatic Sea is a semi-closed pool with slow streams, making it vulnerable to pollution. Marine Litter (ML) is defined as any solid, manufactured or processed solid material discharged 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 already have cross-border effects, so wastewater issues require common approaches from different countries and their joint efforts to find the right and appropriate solution and approach. Within the ML-REPAIR project, activities are being carried out in Croatia and Italy, and the main focus of the project is 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 is CA 'Foscari Faculty, University of Venice, and partners are the Italian National Institute for Environmental Protection and Research (ISPRA), the Association of M.A.R.E. and LIMOSA from Italy and the Institute of Oceanography and Fisheries, 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, Split.

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 to 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

2.1 Activity description

Within A3.2 a comprehensive educational programme for local communities' children was developed and implemented in order to raise their awareness and understanding of marine litter problems. Engaging children they directly influenced their parents also. This program was composed of 4 h laboratories, educating about the marine litter issue and stimulating the autonomous work of the students (with its implementation for 30 groups of students in every one of the 4 comprehensive institute / schools (one in every territorial place)) and of exhibition of elaborates made by students, open to parents (5000) and public.

4 h laboratories - educating about the marine litter issue and stimulating the autonomous work of the students (with its implementation for 30 groups of students in every one of the 4 comprehensive institute / schools (one in every territorial place)) were organized in 2nd and 3rd reporting period by PP1 (ISPRA) and PP2 (Limosa) in kindergartens, primary and secondary schools as well as in high schools. In Cattolica and Molfetta PP3 (M.A.R.E.) conducted laboratories and exhibitions of elaborates.

Exhibition of elaborates made by students, open to parents (5000) and public was being developed during 2nd and 3rd reporting period and presented on open area and/or in schools. Based on laboratory and field work, children made their own projects which were combined with *Plastica(mente)* exhibition as well as with "Fish market litter exhibition".

2.2 Achievement of Deliverable 3.2.2. (D3.2.2. In Italy about 1800 children – from childhood to lower secondary education – and 130 teachers will be educated through developed educational programs)

It was planned that during project implementation, developed educational program will reach about 1800 children and 130 teachers and will be educated through following activities:

4 h laboratories - run by LIMOSA, educating about the marine litter issue and stimulating the autonomous work of the students (implementation for 30 groups of students in every one of the 4 comprehensive institute / schools (one in every territorial place) - Chioggia (2 kindergartens, 3 primary schools, 4 secondary schools), Venezia (4 primary schools), Cavallino Treporti (1 kindergarten, 2 primary schools, 1 secondary school). ISPRA was in charge of educational school activities (2 primary and 1 secondary

classroom with cca 90 students) and monitoring activities with high school students within the Alternation school-work Project (one on the Sottomarina beach and one in the Chioggia lagoon) while Limosa conducted laboratory activities with more than 45 classes (cca 900 students).

M.A.R.E was in charge of activities in the schools of Cattolica (4 schools: Emilio Filippini, Carpignola, Torconca and Repubblica) which lasted from 19 November 2018 to 19 February 2019. In total PP2 involved 13 classes (283 students and 13 teachers). Specifically, 2 laboratories (2 hours each) per class were carried on. In Molfetta, two local schools were involved in the projects and in particular 15 classes (332 students and 15 teachers) participated. Laboratories lasted from 25 February 2019 till 7 May 2019. Every class did 2 laboratories, 2 hours each.

Activities with children (PP1, PP2, PP3) can be seen in Figure 1-Figure 7.

Exhibition of elaborates made by students, open to parents (5000) and public organized and coordinated by LIMOSA. As the programme was composed of thematic workshops combining class, field and practical work, children learned about marine litter problem, through field class they learned how to conduct simple monitoring and have understanding on litter amounts and compositions and part of workshops was organized in line with exhibition openings, allowing children to exhibit their projects developed during workshops.

M.A.R.E. had the conclusion of the activities in Cattolica in 2 different exhibitions: the first one “Giornata del Mare”, was on 11 April 2019 (open from 11 – 14 and 19 – 22 of April) and included compositions of different projects, including ML-Repair. The second one was on 1 - 2 June, but the launch was on 31 May 2019. This last exhibition was open from 10:00 – 12:30 pm and again from 16:00 – 19:00. Students brought their parents and friends to visit it and to let them see their compositions. In Molfetta, as a conclusion of the projects, children made some compositions and texts about marine litter and they were exhibited in the schools. Exhibitions of elaborates with children (PP1, PP2, PP3) can be seen in Figure 8-Figure 13.

Thus, to sum target reached within D3.2.2 in total 3785 children and 199 teachers included through developed educational programs during period of project implementation.

2.3 Photos of educational activities within ML – REPAIR project

2.3.1. Photos of laboratory activities



Figure 1 - Laboratory work in high school in Chioggia by PP1



Figure 2 - high school children during laboratory work in Chioggia



Figure 3 - Beach monitoring in Italy (PP1)



Figure 4 - First laboratory work for secondary school by PP3

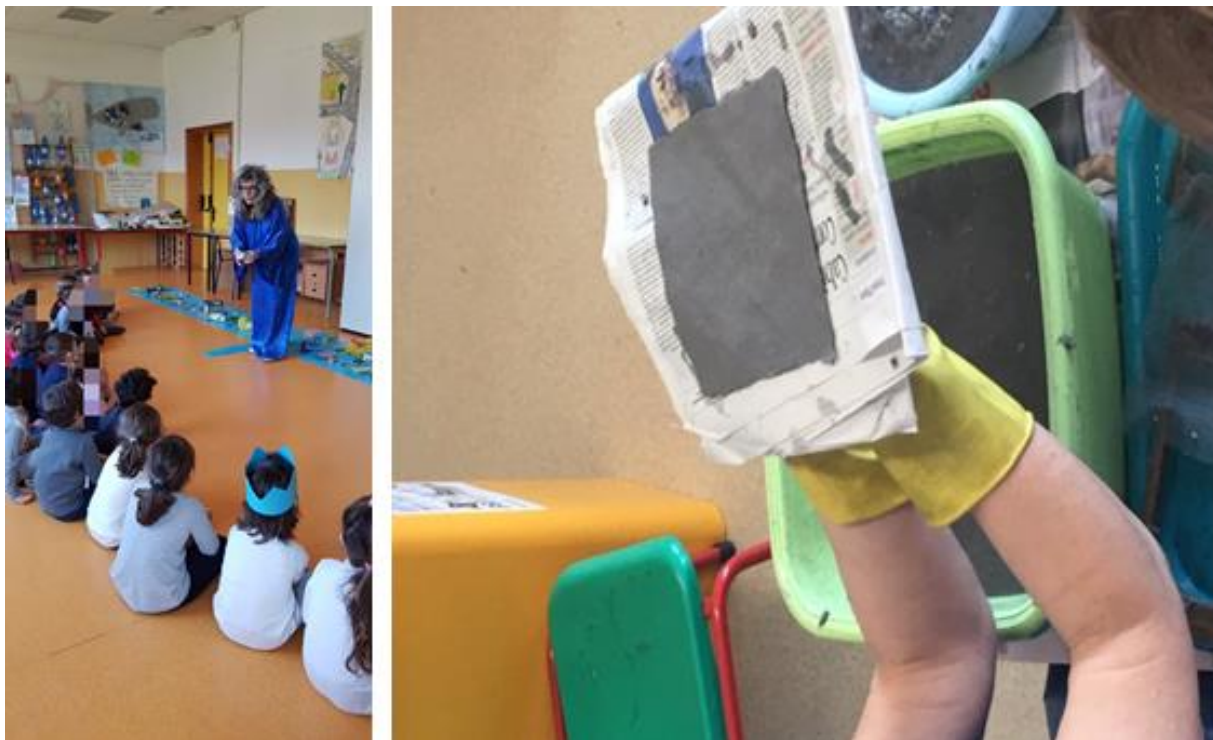


Figure 5 - Laboratory work for kindergarten children (PP3)



Figure 6 - Activities in Cattolica with children by PP2 (M.A.R.E.)



Figure 7 - Activities in Molfetta with children by PP2 (M.A.R.E.)

2.3.2. Photos of exhibitions of elaborates



Figure 8 - Exhibition elaborate in secondary school Chioggia (PP1)



Figure 9 - Exhibition elaborate of primary school in Marghera (with Plastica(mente) and "Fish market litter exhibition") (PP3)



Figure 10 - Exhibition elaborate of primary school Fontaniva (PP1)



Figure 11 - Exhibition elaborate of primary school in Chioggia (PP3)



Figure 12 - Exhibition elaborate of primary school in Cattolica (PP2)

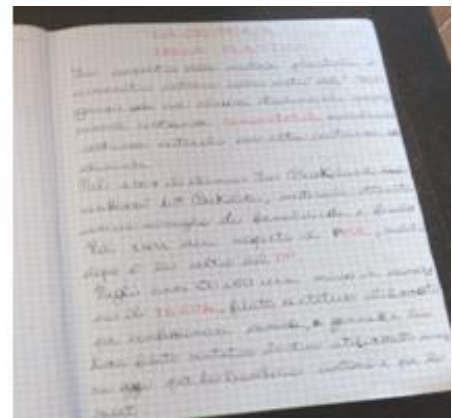


Figure 13 - Exhibition elaborate of primary school in Molfetta (PP2)