

Final event of results sharing

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Project Acronym: NETWAP

Project ID Number: 10047692

Project Title: NETwork of small "in situ" WAsTe Prevention and management initiatives

Priority Axis: 3 Environment And Cultural Heritage

Specific objective: 3.3 Improve the environmental quality conditions of the sea and coastal area by use of sustainable and innovative technologies and approaches

Work Package Number: 5

Work Package Title: Pilot actions and sustainability evaluations

Activity Number: 5.2

Activity Title: Sustainability evaluations

Partner in Charge: ENEA

Partners involved: All partners

Status: Final

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Table of content

1. Introduction	1
2. Abstract speeches	3
2.1 Coordinator	3
2.2 ENEA.....	4
2.3 Ruder Boskovich Institute	5
2.4 GAL Molise	5
2.5 Fondazione Fenice	6
2.6 Joint Secretariat	6
3. Final remarks.....	6

1. Introduction

The Final Event of results sharing was organised by Fondazione Fenice Green Energy Park on the 14th December 2021. It took place at Fondazione Fenice premises, Lungargine Rovetta 28, Padua, Italy according to the following Agenda:

Conference Programme

9.30 - 10.00	Welcome Coffee
10.00 - 10.30	NETWAP project overview and results presentation Josip Milic – Zadar Municipality
10.30 -10.45	“Low cost monitoring of composting equipment” Fabio Musmeci – ENEA (online presentation)
10.45 – 11.00	"Sustainability evaluation of the NETWAP pilot actions: and environmental and economic perspective" Gabriella Fiorentino – ENEA (online presentation)
11.00 – 11.10	“Position paper: recommendations and sustainability of new approach for the autonomous and sustainable waste management systems In small communities” Laura Zanchi – Ecoinnovazione srl (online presentation)
11.10 - 11.20	“Action plan for implementation of sustainable Organic and Plastic Waste Methodology” Flavio Scrucca – ENEA (online presentation)

- 11.20 - 11.30 "Waste management Methodology for small communities"
Lorenzo Cafiero – ENEA
- 11.30 – 11.45 "Sustainable and beneficial management of Posidonia Beach Casts and Banquette"
Sergio Cappucci – ENEA external expert
- 11.45 – 12.00 Greetings of the Joint Secretariat representative
Marin Miletic – Interreg Italy Croatia JS
- 12.00 – 12.15 "Use of modern technology in monitoring of marine debris: A case study at the Island of Ist, Croatia"
Neven Cukrov - Ruder Boskovic Institute
- 12.00 - 12.30 "A new organic waste management model: the pilot action of Fossalto (CB), Italy.
Adolfo Colagiovanni – GAL Molise verso il 2000
- 12.30 - 12.45 The Italy – Croatia cross-border cooperation network
Francesco Pulejo – Fondazione Fenice
- 12.45 Conclusions
- 13.00 Light Lunch

The poster of the event is reported in

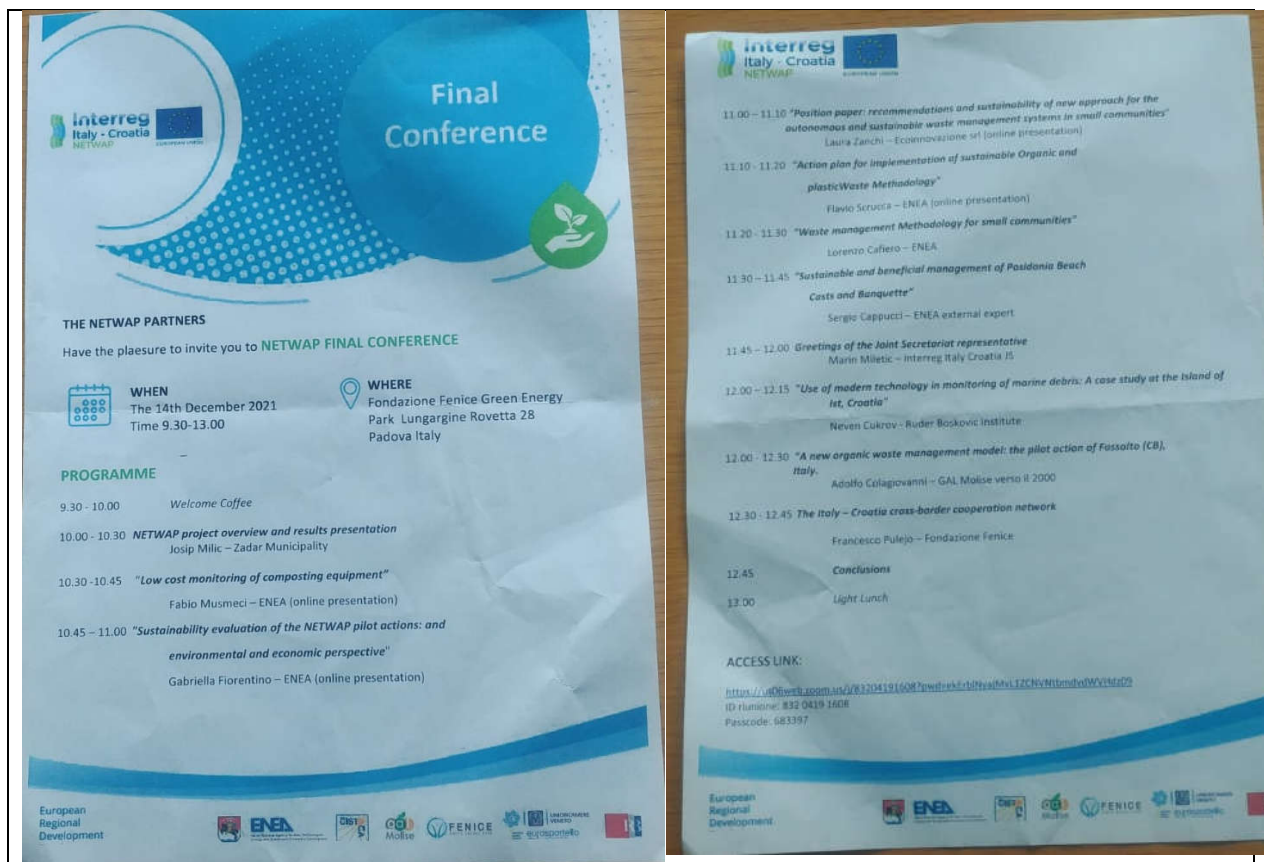


Figure 1. – Poster of the Final Event which took place in Padua on the 14th December 2021.

2. Abstract speeches

2.1 Coordinator

Mr. Josip Milic, coordinator of the project, resumed the main activities carried out since January 2019. He stressed the efforts made in order to install the electromechanical composter in Ist Island and the difficulties also occurred in Molise to start the pilot action. A great challenge was posed by the Covid-19 pandemic. Notwithstanding, both pilot actions have been finally started and also an effective monitoring campaign of microplastics in Dalmatia was organized. Then he launched a video prepared by Union Camere Veneto which assembled the contributions from all partners. This video summarized the main achievements of the project both in Ist Island and Fossalto.

2.2 ENEA

ENEA illustrated the main results of sustainability evaluations within WP 5 activities:

Life cycle and Life cycle costing assessments were presented by Ms. Gabriella Fiorentino. A comparison between baseline and NETWAP scenarios in the two targeted territories of Fossalto and Ist Island was carried out. The NETWAP scenario allows to obtain considerable savings in terms of Global Warming Potential as the transportation impact is strongly reduced.

Mr. Flavio Scrucca showed the Action plan for implementation of Sustainable Organic and Plastic Waste Methodology, indicating as the scheme of “local composting” appears the most suitable one for the two territories.

Ms. Laura Zanchi of Ecoinnovazione presented the position paper with the following recommendations: Policy makers at different levels are expected to involve local communities and other territorial stakeholders in the management of small scale composting. It is advisable to:

- develop awareness campaigns upon environmental and socio-economic sustainability targets.
- Set up specific regulatory action for EU Member States to promote an ecological transition across Europe to reduce marine litter and waste production derived from beach cleaning operation;
- Create economic incentives to support extra cost related to waste separation service applied to of marine litters (e.g., contribution of the central governments, subtracted from the burden of state concessions);

Mr. Fabio Musmeci showed the operation of the monitoring system based on the acquisition of data of gas emissions data measured by sensors. This monitoring system was developed to help the proper management of the electromechanical composter.

Mr. Lorenzo Cafiero presented the methodology of organic waste management tailored on the two targeted territories and the scheme of valorization of plastics collected from beach litter. Moreover, he presented the results of a washing process developed in order to make plastics coming from beach litter suitable for mechanical recycling.

Mr Sergio Cappucci was invited as ENEA expert for the valorization of biomass residuals which can be found on the beaches. This biomass residuals are being often contaminated with mixed waste such as coming from human origin and need to be properly recovered. He illustrated the achievements obtained with the application of a patented procedure to re-use such biomass, avoiding landfilling.

2.3 Ruder Boskovich Institute

Ruder Boskovich Institute, through the speech of Mr. Cukrov, reported the main results of the monitoring campaigns of marine litter carried out in the sea off the coast of Zadar and Sibenick. Moreover Mr. Cukrov showed an analysis method in order to properly identify the sampled microplastics. Finally, the results of biowaste treatment in Ist Island was illustrated. The electromechanical composter has been operated from the end of May till the end of September treating both food waste and prunings. Both residents and tourists (through restaurants and bed and breakfast) were involved. This action allowed to introduce for the first time a biowaste separate collection in a small island of Dalmatian Archipelagus.

2.4 GAL Molise

GAL Molise described the action carried out in Molise Region in order to introduce the practice of small scale composting. Starting from 2019, a collaboration agreement with Campomarino Municipality had been set up. This collaboration with the support of ENEA allowed to establish:

- 1) new rules for the valorization of biowaste
- 2) the location of the installation of the electromechanical composter
- 3) the involvement of a local association which could start the “community composting”
- 4) the involvement of a campsite which could start a practice of “home composting”

Unfortunately, this collaboration was interrupted in December 2020 and Gal Molise was compelled to address to another municipality. This new collaboration was set up with Fossalto Municipality, a small village of around one thousand residents, which accepted the installation of the electromechanical composter and the start of local composting.

2.5 Fondazione Fenice

Fondazione Fenice presented the results of a large awareness campaign conducted among pupils of first grade schools in Fossalto. This campaign consisted in showing the benefits of recycling by tests of extrusion on packaging plastics such as containers and water bottles. The launch event of the start of electromechanical composter operations was also presented.

2.6 Joint Secretariat

Mr. Marin Miletic – Interreg Italy Croatia JS expressed his satisfaction of the NETWAP Project and encouraged all partners to move forward and apply for the next Interreg Call which is supposed to be launched by 2023, in order to consolidate the obtained results.

3. Final remarks

At the end of the conference Fondazione Fenice presented to all partners a draft of “Memorandum of Agreement / Understanding” as foreseen in the deliverable called “Cross border cooperation network of local authorities and technical experts”.

The aim of this new Network, as stated in the project proposal, is to:

- Involve local actors committed with the project’s development and other stakeholders interested in sharing the project’s lessons learned;
- Share and discuss results and outputs of the pilot actions;
- Disseminate the aims and tools of the innovative waste management methodology and related actions, in view of their possibly adoption it in other communities and territories.

Also, the signature of the Agreement would be open to others, such as municipalities, regions, other public and private institutions, companies, etc, interested on being part of the network.



Figure 2. - The participants to the Final Conference in Padua on the 14th December 2021