



**Common borders. Common solutions.**

**”BSB 785 LitOUTer”**

**Raising Public Awareness and Reducing Marine Litter for Protection of  
the Black Sea Ecosystem**

**Karadeniz Ekosisteminin Koruması için Toplumsal Farkındalığın  
Artırılması ve Deniz Çöplerinin Azaltılması Projesi**

**Assoc. Prof. Dr. (Doç. Dr) Coşkun ERÜZ**



Project funded by  
EUROPEAN UNION



## Common borders. Common solutions.

### Brief summary of the litter problem

We know that, marine litter pollution is an universal problem.

Accumulation of solid waste on the land and in the sea had been started from settlement of the cities since the ancient times. The dimension of the marine litter pollution has increased in line with the industrial development and changing of the habits of consumers towards industrial products.

Majority of these products and old goods are not degradable and causing litter pollution in small or large extent.

Cumulative impact of them has become a serious pollution sources of the terrestrial and marine environment today.

Especially, due to cheaper and easy manufactured goods made from plastics are widely used in daily life. Therefore, the volume of pollution is very huge and destructive for the nature.

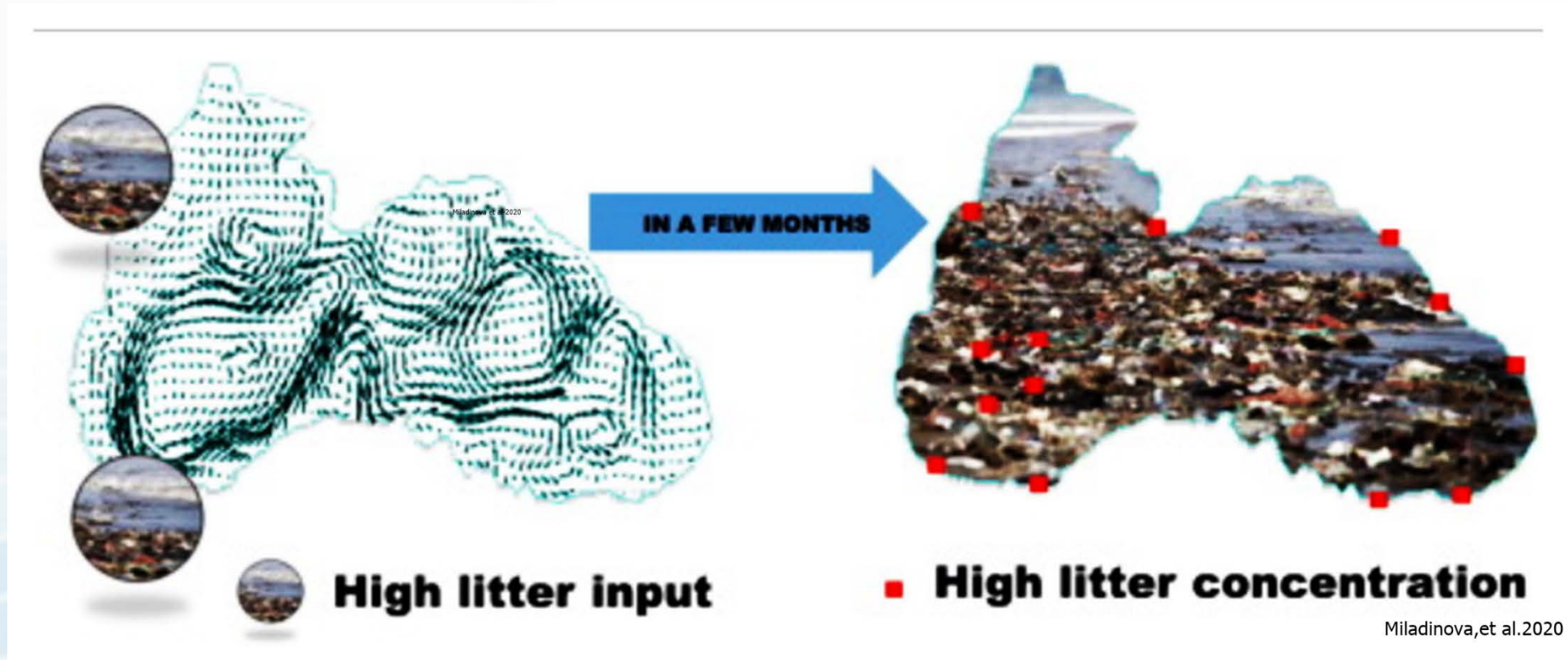
**Assoc. Prof. Dr. (Doç. Dr) Coşkun ERÜZ**



Project funded by  
EUROPEAN UNION



## Common borders. Common solutions.



Litter Source can be local but problem will spread and accumulate all over the sea





## Common borders. Common solutions.

Black sea and other areas , there are many actions has been carried out for reduction of the solid wastes on the land and marine litters in the sea.

Some of them are;

- identification of the landfill areas to undercontrol the solid wastes in certain locations,
- classification of solid wastes and recycling,
- obligation for the waste treatment facilities for all industrial plants,
- collection of the solid waste from cities, villages and other settlement areas under the control of local authorities.

The reason of all these actions and others are implemented to reduce litters from the sources. And many of these methods have been used for a long time to save our environment.

In this project, we will identify some other solutions to reduce uncontrolled litters either at the source or in the last destination which is the sea bed.

Some of the methods and ideas could be suggested for reducing litters are;

- ✓ To increase the frequency of the collecting solid wastes from sources by the responce local authorities
- ✓ Using new awareness tecnics for classification and seperation of litters at home and continue these procedures,
- ✓ To raise the public awareness on wider, use of new training (dredging sea bottom, litter transport model etc.) and visual perception methods (simulation, animation, toys, etc.) to increase public awareness in a wider area.

**Assoc. Prof. Dr. (Doç. Dr) Coşkun ERÜZ**



Project funded by  
EUROPEAN UNION



**Common borders. Common solutions.**

**LitOUTer project Partners are;**



Karadeniz Technical University Marine Science Faculty (TR) - Lead Partner



International Business and Economic Development Center (GE) (PP2)



Non-governmental environmental organization Mare Nostrum (RO) (PP3)



Bulgaria, Institute of Oceanology - BAS (BG) (PP4)



National Institute for Marine Research and Development "Grigore Antipa" (RO) (PP5)



Black Sea NGO Network (BG)(PP6)



**Common borders. Common solutions.**

## **Project Details**

**Project Starting date : 1 July 2020**

**Project Duration : 30 Months**

**Project Budgeted : 930.000 Euro**





**Common borders. Common solutions.**

## **AIM OF THE PROJECT**

**The main aim of the project is;**

- **to reach correct target groups, who are the most powerful impact to reduce litter in the source,**
- **To educate and aware of the most sustainable group of population such as children, housewife, etc**
- **To select the most available method to aware target groups**
- **To show target groups how their litters move from the sources to the end, and, how litter distribute and accumulate far from the sources. Model simulations will help to undertand the journey of the litters in the sea**



Project funded by  
EUROPEAN UNION



## Common borders. Common solutions.

**Project is focused on;**

### **1-Human resources, targeted groups**

- Raising awareness of public and local decision makers are crucial point for reducing, managing marine litters in the coastal area, in the sea bed
- Another focused target group is local people who produce litter in the source
- NGOs, and commercial sectors related with marine are our targed groups..

### **2. Training activities in,**

- schools
- religion places
- villages
- open areas
- Beaches
- Public places etc

### **3. Materials for awareness,**

- Toys
- Leaflets
- Playcards
- Animations/cartoons
- Litter Model simulations
- Social media activities





## Common borders. Common solutions.

The activities of the Project are;

1. At the beginning the state of the litter situation in the Project partner countries will be analysed

- ✓ according to the regulations (national regional international)
- ✓ Determination of the awareness level of public in selected areas

2. Determination/selection of the awareness methodology

- ✓ Training over seminars, workshops, and exhibitions to increase stakeholders' awareness of the litter problem.
- ✓ Reduction of the litters at sources (starting from house to final collection to the regular dumping/storage areas.
- ✓ Motivation of local government, SMEs to establish new litter collection, recycling and reuse strategy.
- ✓ A questionnaire will be the indicator for an understanding of the improvement of public awareness. There will be two questionnaires applied, first, one will be done in the first quarter, the last one will be done last quarter of the project.
- ✓ The open-air exhibition will be prepared in a public place together with the local authorities to show litter diversity and dimension. This activity will also be supported with other awareness materials such as project roll-ups, posters, leaflets etc.
- ✓ Dredging operation and training will be carried out by ship to show stakeholders the litter pollution which accumulated on the sea floor.

## Common borders. Common solutions.

### 3. Determination and demonstration of the litter movement from sources to accumulation area

- ✓ Showing the hot points (based on information from modeling) in the coastal area and in sea bottom in order to explain how litter problem has reached dangerous levels to the local governments and relevant ministry local administrations together with the advice on how to remove.
- ✓ Modelling-GIS will be used as an awareness tool to understand the faith of the litters on the coast and sea bottom.

### 4. Training of the stakeholders by using audiovisual materials for raising awareness

- ✓ To develop various awareness materials for different stakeholder groups at different ages (toys, animation/film, leaflet, brochures, posters, web site, mass, and web-based social media submissions, etc).
- ✓ Training activities will define according to stakeholder age, job and educational stage s

5. Communication and visualisation are the most powerfull tools for the awareness of the people. The dosage of these activities must be undercontrolled. Otherwise, too much pressure can have a negative effect.



**Common borders. Common solutions.**

### **PROJECT MAIN OUTPUTS**

- **State of legal framework and current state of marine litter pollution in the partner countries will be reported**
- **Collaboration to reach common purpose and harmonisation between project partners and stakeholders**
- **Training of the stakeholders to raise litter pollution awareness.**
- **Methodology and events for awareness of marine litter problems**
- **Production of scenarios for raising awareness by using GIS or web based map module**
- **Demonstration of the source and accumulation places of marine litters by using GIS/Web based applications models**





Project funded by  
EUROPEAN UNION



**Common borders. Common solutions.**  
**common mind... best solution.....**

**The Project will finish at 2022 but the impact and awareness of these activities will be continue for generation.**

**We believe that, children will carry these knowledge to their children and aware stakeholders will affect their neighbours and their families.**

Dear participants and partners,  
I thank you very much for your cooperation and participation in the LitOUTer Project kick off meeting. We believe that, this project will also supply new collaborations and new project possibilities in the future,  
more effort, bring us more success.....

Yours truly ..

Thank you again.

Assoc. Prof. Dr. (Doç. Dr) Coşkun ERÜZ



**Common borders. Common solutions.**

**”BSB 785 LitOUTer”**

**Raising Public Awareness and Reducing Marine Litter for Protection of  
the Black Sea Ecosystem**

**Karadeniz Ekosisteminin Koruması için Toplumsal Farkındalığın  
Artırılması ve Deniz Çöplerinin Azaltılması Projesi**

**Assoc. Prof. Dr. (Doç. Dr) Coşkun ERÜZ**