

**WINPOL**  
**Waste Management Intelligent Systems and Policies**  
**P8 - Drobeta Turnu Severin City Hall**  
**P9 – Mehedinti County Council**  
**ACTION PLAN**



## Consiliul Județean Mehedinți

89 Strada Traian str, RO-220134 Drobeta-Turnu Severin, Romania  
<http://www.cjmehedinti.ro> | [cjmehedinti@cjmehedinti.ro](mailto:cjmehedinti@cjmehedinti.ro) | +40 372 521 013

Calea Traian nr.89, Cod postal: 220134 Drobeta Turnu Severin, Judetul Mehedinți.

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PROGRAMME	<b>INTERREG EUROPE 2014-2020</b>
CALL	<b>3</b>
PRIORITY AXIS	<b>4. Protecting the environment and promoting resource efficiency</b>
SPECIFIC OBJECTIVE	<b>4.2. proving resource-efficient economy policies</b>
PROJECT	 <span style="margin-left: 100px;">PGI04924</span>  <span style="margin-left: 10px;">European Union European Regional Development Fund</span>  <b>Waste Management Intelligent Systems and Policies</b>
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## Contributor

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## Abbreviations

CF	Cohesion Fund
CP	Cooperation Programme
EC	European Commission
ERDF	European Regional Development Fund
EU	European Union
GIS	Geographic Information System
ICT	Information and Communication Technology
IP	Investment Priority
JS	Joint Secretariat
LIOP	Large Infrastructure Operational Programme
MA	Managing Authority
NGO	Non-Government Organisation
NSRF	National Strategic Reference Framework
PAYT	pay as you throw (economic instrument)
PJGD	Planul Județean de Gestionare a Deșeurilor
PPP	Public – Private Partnership
RDP	Rural Development Programme
TO	Thematic Objective
RIS3	Research and Innovation Strategies for Smart Specialisations
SO	Specific Objective



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## Introduction

In recent years, technology and innovation have reached the field of waste. They offer an excellent opportunity to improve policies aiming to minimise waste generation and reach resource efficiency. However, **the degree of introduction of innovative equipment and practices varies significantly from one territory to another.**

WINPOL prime objective is to **improve the regional policies for solid waste management** so that they increasingly foster and promote the use of intelligent equipment and planning derived of it, significantly contributing to waste minimisation in European cities and regions, through improved management procedures and awareness campaigns.



## Project Partners

EMULSA. Municipal Company of Urban Environment Services of Gijón	 ES
ACR+. Association of Cities and Regions for the Recycling	 BE
City of Antwerp	 BE
ERA. Environment and Resources Authority	 MT
Region of Crete	 EL
Municipality of Heraklion	 EL
SNAGA. Company for Waste Management and other Utility Services	 SI
Drobeta Turnu Severin City Hall	 RO
Mehedinti County Council	 RO



## About this Document

This document presents the Action Plan for the improvement of the Policy Instrument that will be exploited for the Solid Waste Management in the Mehedinti County, Romania.

It is based on the exchange of experiences during the project implementation, the good practices analyzed by the project partners and the study visits developed, aiming to transform learning into actions. The selected actions are the output of a process with consultation and discussions among stakeholders, policy makers and WINPOL project partners and are in line with the policy instruments involved.

The present Action Plan brings together specific actions, financiers, implementation entities and end-users and concerns the following project partners:

- 8-PP Drobeta Turnu Severin City Hall (RO)
- 9-PP Mehedinti County Council (RO)

## The Policy Instrument by Mehedinti County

The Policy Instrument addressed was changed from the initial:

- Large Infrastructure Operational Programme (LI OP) 2014-2020 / Priority Axis 3: Development of the environmental infrastructure in the conditions of efficient resource management / Thematic Objective 3.1 - Reducing the number of non-compliant landfills and increasing recycling preparedness in Romania

To the new Policy Instrument:

- Large Infrastructure Operational Programme (LI OP) of the Structural Funds Operational Programme 2021-2027 managed by the Ministry of European Investments and Projects.



And will be implemented through the

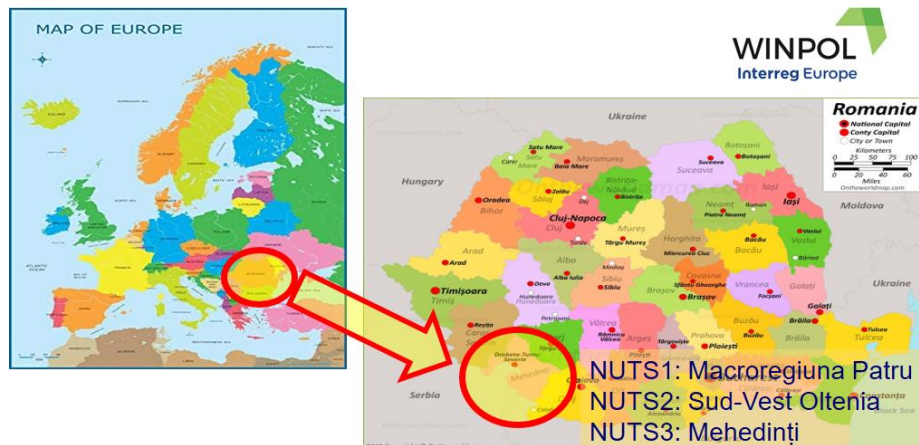
- Mehedinti PJGD 2019-2025 (Mehedinti Waste Management County Plan 2019-2025<sup>1</sup>) which was officially approved on 28 January 2020 and which makes use of LI OP funds.

Mehedinti PJGD 2019-2025 is the planning tool ensuring a local efficient waste management in Mehedinti County with a minimum impact on the environment and human health and consumption of resources and energy.

WINPOL lessons learned and experience exchanged inspired significantly the new territorial strategy for managing waste in Mehedinti County (Mehedinti PJGD 2019-2025).

## Coverage

The Policy Instrument addressed, covers the Mehedinti County.



<sup>1</sup> PLANUL JUDEȚEAN DE GESTIONARE A DEȘEURILOR ÎN JUDEȚUL MEHEDINȚII (2019-2025)





## Part II – Policy context

- The Action Plan aims to impact:**
- Investment for Growth and Jobs programme
  - European Territorial Cooperation programme
  - Other regional development policy instrument

**Name of the policy instrument(s) addressed:**

*Large Infrastructure Operational Programme (LI OP) of the Structural Funds 2021-2027*

LI OP is managed by the Ministry of European Investments and Projects of Romania and will fund the actions in Mehedinti County through the facilitation tool:

*Mehedinti Waste Management County Plan 2019-2025: Mehedinti PJGD 2019-2025*

WINPOL lessons learned and experience exchanged inspired the new territorial strategy for managing solid waste in Mehedinti County, which is funded through LI OP.

**Further details on the policy context and the way the action plan should contribute to improve the policy instruments:**

Mehedinti PJGD 2019-2025 includes measures and actions of county competence proposed as priority for the waste flows. The main objectives of the instrument are:

- assessment of the current situation in the field of waste management in the county of Mehedinți: quantities of waste generated and managed, existing facilities and identification of problems causing inefficient waste management;
- forecast of waste generation: waste management alternatives for municipal waste based on legal provisions and the rules determined by the National Waste Prevention Program (PNGD);
- establishing measures to prevent the generation of waste, based on the measures of the National Waste Prevention Program (PNGD);
- identification of investment needs and establishment of actions and initiatives at the local level, those in the WINPOL action plan being part of this strategy.

The specific objectives of the policy instrument which are new are:

- Reducing the amount of household and similar waste generated per inhabitant in 2025 by at least 13% compared to 2017;
- Decoupling the increase of the quantity of packaging waste from the economic growth, respectively the increase of the quantity of packaging waste in 2025 compared to 2017 with at least 10% less than the GDP growth for this period.

The following measures have been included in the new Mehedinti County Waste Management Plan to achieve the aforementioned objectives:

- Implementation of "Pay for what you throw" models;
- Support and development of existing actions regarding individual composting of bio-waste;
- Half-way reduction of the amount of food wasted by 2025;
- Prevention of printed paper waste;
- Introduction in the school curriculum for pre-university education of topics related to the prevention of household waste.

*Based on the procedures of implementation of the EU structural funds, the source of funding for PJGD will be the Large Infrastructure Operational Programme (LI OP) of the Structural Funds Operational Programme 2021-2027 managed by the Ministry of European Investments and Projects<sup>2</sup>. The official allocation of the funds for the PJGD 2019-2025 is expected to happen during the first three (3) quarters of 2021.*

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<sup>2</sup> In Romania funding for most local activities can be sourced only from this central Ministry in Bucharest as there are no local sources of funding.

*In order to achieve the objectives / investments provided by the PJGD and respectively the Action Plan, the Mehedinți County Council concluded a partnership agreement with the ADMINISTRATION OF THE ENVIRONMENT FUND (<https://www.afm.ro>)<sup>3</sup>.*

*The selected actions presented in Part III are included directly in the facilitation tool Mehedinti Waste Management County Plan 2019-2025 (PJGD 2019-2025).*

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<sup>3</sup> The object of this partnership is to obtain financing through the new Large Infrastructure Operational Program 2021-2027, Priority Axis 3. Development of environmental infrastructure in conditions of efficient management of resources, Investment Priority 3.1. Reducing the number of non-compliant landfills and increasing the readiness for waste recycling in Romania, call for projects POIM / 870/3/1 / Reducing the number of non-compliant landfills and increasing the readiness for waste recycling in Romania, for drawing up a financing application, including supporting documents, documentation / award documentation for works, services and / or supply contracts, including support in contracting-tendering.



## Part III – Details of the actions envisaged

### ACTION 1:

**Name of the action:** *Collection Platforms for household and similar waste*

#### 1. Relevance to the project

*The suggested action 1 is the output of the inspiration of good practices that were presented during the project implementation. More specifically, the sources of inspiration were the following good practices<sup>4</sup>:*

- (1) Horizon 2020 “Waste4Think” – the case of Sevezo (IT)  
(presented video: June 2020);*
- (2) The experience of the Municipality of Hersonissos / Crete (GR)  
(presented: June 2020);*
- (3) two site-visits to Snaga’s installations  
in May 2019 during the Thematic Seminar I*

#### 2. Nature of the action

*The action envisages the creation and put in operation of sixty seven (67) collection points (platforms). One platform in each Rural / Urban Administrative Territorial Unit (UAT: Unitate administrativ-teritorială). Especially for City of Drobeta Turnu Severin, the seat of the County and partner of the WINPOL project, the action envisages two (2) such points. The estimated required area, depending on the specific needs and the location of each collection point, is between 200 and 400 square meters.*

<sup>4</sup> More information is provided in Annex1

*General steps to be taken:*

- (1) *Promote the concept to stakeholders/players & the public, in advance;*
- (2) *Preparation of General Terms of Reference;*
- (3) *Preparation of a unified software with separate users with rights to use for it with their local sub-systems;*
- (4) *Preparation of the Call for Proposals and submission of Proposals;*
- (5) *Actual Implementation.*

**3. Stakeholders involved**

- *The County as the manager and coordination of the Policy Instrument;*
- *The Municipalities, Cities and Communities in the Country as the players who will implement in their administration territories, the action plan (works, procurement, information & publicity for the sensitisation of the citizens);*
- *The NGOs for environment in the area of intervention, for multiplying the sensitisation about the optimal involvement of the citizens for the success of the action;*
- *The Citizens of the area of intervention as the end-users, whose role is the key-parameter for the successful implementation of the action.*

**4. Timeframe**

*The action will be implemented in the period 2021-2025.*

Activity	2021	2021	2022	2022	2023	2023	2024	2024	2025	2025
	A	B	A	B	A	B	A	B	A	B
Preparatory Phase	X	X								
Call for Proposals		X	X							
Approval of the projects within the action			X							

<i>Works / Procurents Installation</i>			X	X	X					
<i>Information &amp; Publicity</i>			X	X	X	X	X	X	X	X
<i>Pilot Operation</i>					X	X				
<i>Operation</i>						X	X	X	X	X
<i>Assessment</i>										X

5. **Costs**

*Approximately 3,350,000€ for the actual implementation*

6. **Funding sources**

*Ministry of European Investments and Projects / new structural funds instrument: Large Infrastructure Operational Programme (LI OP) 2021-2027*

## ACTION 2:

**Name of the action:** *Collection platforms for construction and demolition waste*

### 1. Relevance to the project

*The suggested action 2 is the result of the inspiration found during the study visits held during the project implementation. More specifically, the following<sup>5</sup>:*

- (1) *site-visits to Snaga's installations (Slovenia) in May 2019 during the Thematic Seminar I*

### 2. Nature of the action

*The action envisages the creation and put in operation of five (5) collection points (platforms) for construction and demolition waste. It is envisaged to cover the needs of the population and businesses on a radius of fifty (50) kilometers. Each of the five platforms will require a minimum surface of 4,000 square meters*

*General steps to be taken:*

- (1) *Promote the concept to stakeholders and end-users;*
- (2) *Preparation of General Terms of Reference;*
- (3) *Preparation of a unified software with separate users with rights to use for it with their local sub-systems;*
- (4) *Preparation the Call for Proposals and submission of Proposals;*
- (5) *Actual Implementation.*

### 3. Stakeholders involved

- *The County as the manager and coordination of the Policy Instrument;*
- *The Municipalities, Cities and Communities in the Country as the players who will implement in their administration territories, the action plan (works, procurement, information & publicity for the sensitisation of the citizens);*

- The professionals in the Construction sector, who will have a key-role;
- The NGOs for environment in the area of intervention, for multiplying the sensitisation about the optimal involvement of the citizens for the success of the action;
- The Citizens of the area of intervention as end-users whose role is the key-parameter for the successful implementation of the action.

#### 4. Timeframe

The action will be implemented in the period 2021-2025.

Activity	2021	2021	2022	2022	2023	2023	2024	2024	2025	2025
	A	B	A	B	A	B	A	B	A	B
Preparatory Phase	X	X								
Call for Proposals		X	X							
Approval of the projects within the action			X							
Works / Procurements Installation			X	X	X					
Information & Publicity			X	X	X	X	X	X	X	X
Pilot Operation					X	X				

<sup>5</sup> More information is provided in Annex1

Operation						X	X	X	X	X
Assessment										X

5. **Costs**

*Approximately 5,000,000€ for the actual implementation*

6. **Funding sources**

*Ministry of European Investments and Projects / new structural funds instrument: Large Infrastructure Operational Programme (LI OP) 2021-2027*

## ACTION 3:

**Name of the action:** *Prevention of household waste – training the primary and secondary school students*

### 1. Relevance to the project

*The suggested action 3 is the result of the inspiration found in good practices presented during the project implementation. More specifically, the sources of inspiration were the following<sup>6</sup>:*

- (1) *-partly- EMULSA Citizen ReuseApp (ES)  
(presented: May 2019);*
- (2) *–partly- G´scheit feiern Party Smart in Styria (AT)  
(presented: November 2019);*
- (3) *RethinkWaste (Life programme) – Know as you throw (KAYT) (IT)  
(presented video: June 2020).*

### 2. Nature of the action

*The action 3 envisages the promotion of the sustainable solid waste management and particularly the reduction of the volume of the household waste, through a specific curriculum that will be prepared and used for the schools in the areas of intervention.*

*General steps to be taken:*

- (1) *Promotion of the concept to local directorates of education and directors of schools, in advance;*
- (2) *Preparation of a mobile app for the activities with the students (could include or be upgraded to be sued with other initiatives like reusable items database, etc.);*

<sup>6</sup> More information is provided in Annex1

(3) Preparation of General Terms of Reference;

(4) Preparation of a unified Software with separate users with rights to use for it with their local sub-systems;

(5) Preparation the Call for Proposals and submission of Proposals;

(6) Actual Implementation.

### 3. Stakeholders involved

- The County as the manager and coordination of the Policy Instrument;
- The Municipalities, Cities and Communities in the Country as to support the action;
- The Directorates of Education and the Schools;
- The associations of parents and guardians of the students.

### 4. Timeframe

The action will be implemented in the period 2021-2025.

Activity	2021	2021	2022	2022	2023	2023	2024	2024	2025	2025
	A	B	A	B	A	B	A	B	A	B
Preparatory Phase		X	X							
Call for Proposals			X	X						
Approval of the projects within the action				X						
Information & Publicity			X	X	X	X	X	X	X	X
Pilot Operation					X	X				



Operation						X	X	X	X	X
Assessment										X

5. **Costs**

*Approximately 500,000€ for the actual implementation*

6. **Funding sources**

*Ministry of European Investments and Projects / new structural funds instrument: Large Infrastructure Operational Programme (LI OP) 2021-2027*



## Conclusions

*The previous actions impact directly the new Policy Instrument LI OP 2021-2027 through their presence in the Mehedinti Waste Management County Plan 2019-2025 (Mehedinti PJGD 2019-2025) which is funded by LI OP. Their implementation will contribute to the achievement of the WINPOL project objectives and indicators, impacting and improving the addressed Policy Instrument.*

*It is expected to have long-lasting impact in the environment and the mentality of the end-users of the areas of intervention, while these actions could inspire other areas as well and bring new concepts on the table for the preparation of new and advanced projects.*

**Date:** \_\_\_\_\_

**Name of the organisation(s) :**

- (1) Mehedinti County Council
- (2) Ministry of European Investments and Projects

**Signatures of the relevant organisation(s):** (1) \_\_\_\_\_ (2) \_\_\_\_\_



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## Annex1 – WINPOL Good Practices that inspired the proposed actions: key elements

### Action 1: Collection Platforms for household and similar waste

#### (1) Horizon 2020 “Waste4Think” – the case of Sevezo (IT)

(presented video: June 2020)

- Pay As You Throw (PAYT) with RFID bags, with vending machines, personal cards with statistics information.

#### (2) The experience of the Municipality of Hersonissos / Crete (GR)

(presented: June 2020)

- Development of a fair Pay as you Throw ( model targeting hotels, based on all collected data from hotels and real data from waste management;
- Determination of actual cost of managing waste (based on real data).

#### (3) two site-visits to Snaga’s installations

in May 2019 during the Thematic Seminar I

- Efficient use and optimisation of the waste collection vehicles within the working shift;
- Route optimisation system equipped with powerful optimisation algorithms which is tailored for collection routes.



## **Action 2: Collection platforms for construction and demolition waste**

### *(1) site-visits to Snaga's installations*

*in May 2019 during the Thematic Seminar I*

- Efficient use and optimisation of the waste collection vehicles within the working shift;
- Route optimisation system equipped with powerful optimisation algorithms which is tailored for collection routes.

## **Action 3: Prevention of household waste – training the primary and secondary school students**

### *(1) partly- EMULSA Citizen ReuseApp (ES)*

*(presented: May 2019)*

- Creation and use of Citizen App to improve information channel with citizen and increase the reuse percentage of objects in good condition;
- Citizen App – Sustainable Business Map to improve the exchange of information with citizens and ease the access to the different sites in the city.

### *(2) –partly- G´scheit feiern Party Smart in Styria (AT)*

*(presented: November 2019)*

- Improvement of waste management in festivals: promotion and sensitisation for reusable items (crockery and cutlery, etc.), reusable packaging of food and drinks, recyclable materials and separate collection of unavoidable waste;
- Use products from local/regional companies; use of fairtrade products when they cannot be produced in the region;



- Travel by bus or shared taxi, etc.;
- Criteria to fund festivals, including good practices to be used.

*(3) RethinkWaste (Life programme) – Know as you throw (KAYT) (IT)*  
*(presented video: June 2020)*

- PAYT with KAYT (Know As You Throw). KAYT benefits of the use of many communication platforms (SMS, WhatsApp, Telegram) to sensitise the non-sensitised people.

