

# Intelligent monitoring and efficient waste reduction in Cyprus Island

LIFE-IP CYzero WASTE



PROJECT

# Zero Waste Cyprus

waste management culture



Co-funded by  
the European Union



Republic of Cyprus



DEPARTMENT OF  
ENVIRONMENT



PROJECT

# Zero Waste Cyprus

waste management culture

## Partners

### Coordinating Beneficiary

Department of Environment,  
Ministry of Agriculture,  
Rural Development & Environment

### Associated Beneficiaries

- National Technical University of Athens
- Agricultural Research Institute
- Cyprus Chamber of Commerce and Industry
- Nicosia Municipality
- Limassol Municipality
- Larnaka Municipality
- Pafos Municipality
- Geroskipou Municipality
- Paralimni Municipality
- Agia Napa Municipality
- Aradippou Municipality
- Polis Chrysochous Municipality
- Nicosia Development Agency
- Development Agency of Lemesos
- Larnaca and Famagusta District Development Agency
- Pafos Development Company Aphrodite
- Troodos Development Company

LIFE-IP CYzero WASTE – LIFE20 IPE/CY/000011

<https://cyzerowaste.com/>



## The Project

LIFE-IP CYzero WASTE | “Intelligent Monitoring and Efficient Waste Reduction in Cyprus Island”

The project aspires to contribute to the implementation of the Municipal Waste Management Plan 2022-2028 and the National Waste Prevention Programme 2022-2028. Among the general objectives of the project is the implementation of European and national legislation on waste management and circular economy, as well as addressing the gaps identified both in the Environmental Implementation Review of 2019 and in the Early Warning Report of the EU of 2018. It also aims to highlight a new concept in the field of waste management based on the principles of waste prevention and circular economy.

The above will be achieved by adopting practices and changing behaviour and mindset, to increase the life cycle of products, turning waste into resources, and effectively implementing the legislative package on waste.

Project duration  
**8 years**

(01/10/2021-30/09/2029)

Budget  
**€14.785.848**

(EU co-funding: 60%)



The project is co-financed by the European Union and the partners' own funds. The project is coordinated by the Department of Environment of the Ministry of Agriculture, Rural Development and Environment and is implemented in collaboration with 18 strategic partners.

### LINEAR ECONOMY

Take  
↓  
Make  
↓  
Use  
↓  
Waste



### RECYCLING ECONOMY

Take  
↓  
Make  
↓  
Use  
↓  
Waste

Recycle



### CIRCULAR ECONOMY

Take  
↓  
Make  
↓  
Use  
↓  
Reuse

Recycle

Repair



# Project Objectives

Development of pilot actions in municipalities and communities to promote the practical implementation of waste prioritisation:

- Separate sorting at the source of bio-waste, recyclable materials and hazardous household waste
- Preparation for repair and reuse
- Collection of marine litter and discarded fishing equipment, including fishing boat mooring lines

Development of secondary material standards to support the implementation of the circular economy.

Mobilisation of additional financial resources to support the effective implementation of the Municipal Waste Management Plan and the Waste Prevention Programme Plan.

Implementation of specific waste management actions that will support, strengthen and maximise the implementation of waste prioritisation and separate collection of waste streams, to ensure the diversion of waste from landfills.

Strengthening of the use of financial instruments to support the circular economy.

Implementation of actions to promote the prevention of food and agricultural waste generation.

Raising of awareness among stakeholders and the general public about the concept of circular economy and its connection to the waste sector.

Introduction of institutional changes with the creation of a Waste Management Coordinating Body.

Dissemination of project results and support for their implementation and reproduction in other areas of the island.

# Concrete Actions

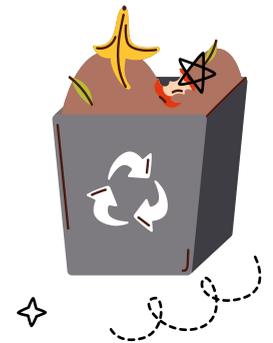
## Biowaste source separation and management schemes

These actions include the installation of home and decentralised units in mountainous and remote areas of all the districts of Cyprus.

The diversion of the biodegradable fraction of municipal solid waste from landfill is ranked as a high priority at the European and national level, as it contributes significantly to resource efficiency, based on the principles of circular economy.

The installation of composters in mountainous and remote areas will help to implement the obligations arising from the recent Municipal Waste Management Regulations by Local Government Authorities.

At the same time, it will contribute to reducing the cost of transporting organic waste, as the processing will be done within the boundaries of the communities, while at the same time, it will allow the reuse of the produced compost as fertilizer at a local level.



## Installation and operation of Green Kiosks for dry recyclables

In the context of this action, the installation and operation of Green Kiosks for separate collection of recyclable waste in mountainous and remote areas of all the districts of Cyprus is envisaged.

The Green Kiosks will operate as small-scale recycling centers, suitably adapted to a modified container, with the aim of expanding the network of separate collection of recyclable municipal waste streams to more places in Cyprus. In the green kiosks, paper/

cardboard, plastic, metal and glass will be collected, as well as special waste streams such as, small electrical appliances, batteries, lamps and others.

All of the above will be taken by citizens to the kiosks, which will be separated, temporarily stored and finally transferred to licensed management units by licensed collectors/transporters.



## Implementation of Household Hazardous Waste (HHW) collection and management

This action aims to promote the diversion of the flow of Household Hazardous Waste (HHW) from municipal solid waste to licensed hazardous waste management facilities in Cyprus.

After separation at the source, the HHW will be collected either by towed mobile units that will tour different areas, or by HHW management centers.

The action also includes raising public awareness of the types of hazardous household waste, their collection and management.



## Foodwaste and agrowaste prevention actions

The actions focus on creating an effective system to monitor and prevent food waste generation along the entire food supply chain from production to consumption through:

- Evaluation of the current situation and the annual production of food waste and agricultural waste.
- Development and operation of a Prevention, Monitoring and Management Platform for food waste and agricultural waste.
- Demonstration actions to prevent the generation of food waste and agricultural waste.

## Construction and operation of reuse and repair centres and second-hand store networks in all cities

This action foresees all the necessary procedures and actions for the construction and operation of two repair/reuse centers in the districts of Lefkosia and Lemesos, as well as the creation of a network of second-hand stores.

The centres will be built in strategic locations to serve all five districts, and will act as collection points for items to be reused. The aim of this action is to create organised areas for the collection, sorting, repair and reuse of items, such as furniture, electrical appliances, clothes, books, toys, etc.

In addition, a network of second-hand shops will be established in urban areas, where citizens can buy second-hand items that will be channeled to them from the centers.



## Monitoring and Optimisation of the “Pay As You Throw” Scheme

This action aims to monitor the financial instrument “Pay As You Throw” (PAYT) to analyse and review its effectiveness.

The purpose of this action is to facilitate the implementation of the PAYT scheme, to optimise it, and to improve its efficiency.

### Marine debris collection and management system

This action focuses on the:

- Development of a tool for mapping and monitoring marine litter.
- Development of stations and a system for the collection of

marine litter and discarded fishing equipment, as well as fishing boat mooring ropes.

- Utilisation in the market of the collected marine litter.

### Application of economic instruments

In the context of this action, the implementation and demonstration of financial instruments to support the implementation of the National Waste Management Plan and the National Waste Prevention Plan is foreseen through:

- Introduction and application of the landfill tax.

- Introduction and operation of the Waste Management Fund.
- Development of standards/ technical specifications for secondary materials to support their re-introduction into the economy as new raw materials.

### Capacity building activities

Capacity building actions focus on the development of a high-quality circular economy dissemination mechanism.

These actions are expected to “transfer” knowledge and skills. In particular, the following will be implemented:

- Seminars on special topics, adapted to the needs of interested parties.
- Remote training of Local Authorities, interested parties including the general public, for the use of the electronic waste and material flow platform.

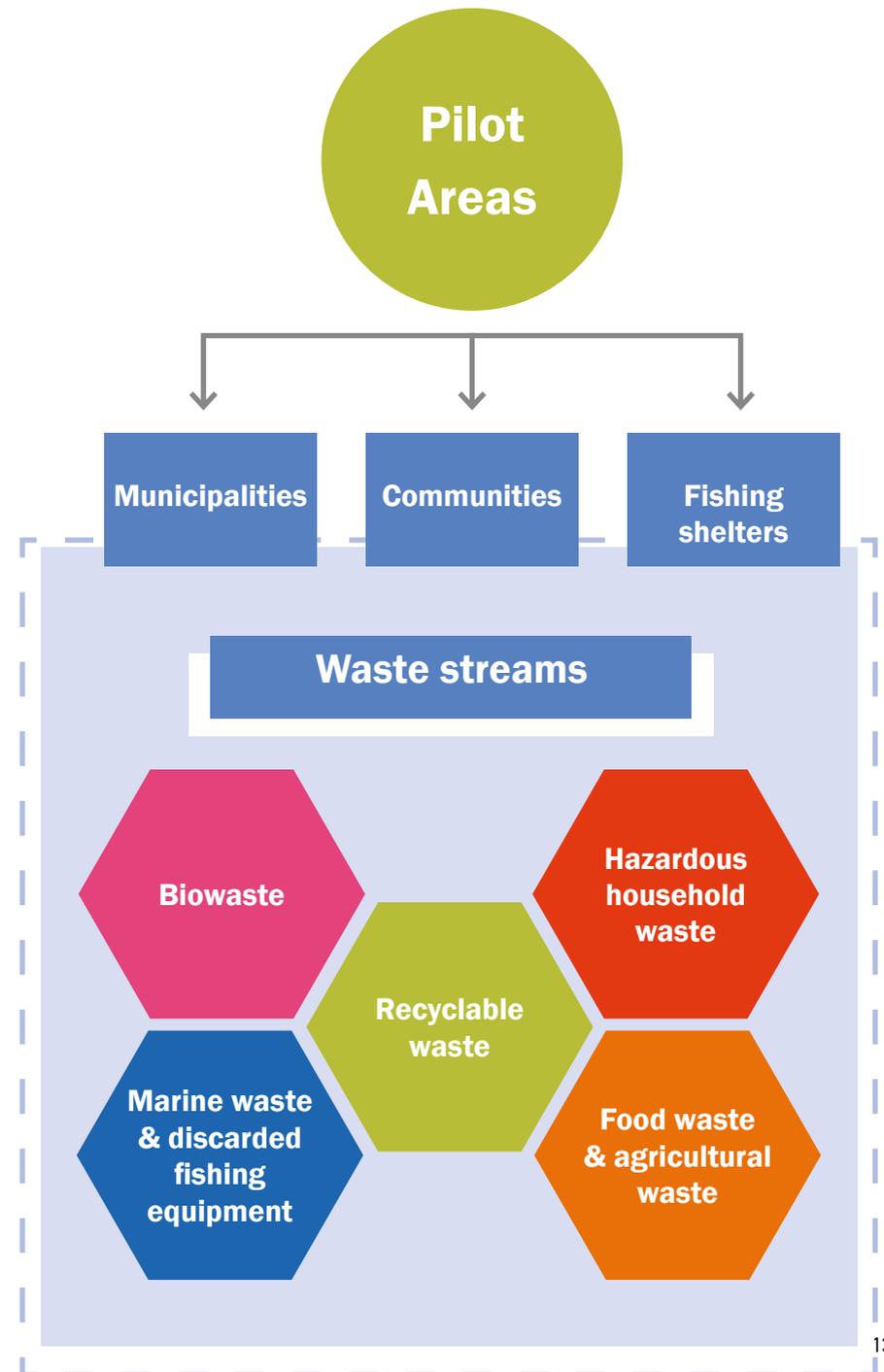
### Establishment of the Waste Management Coordinating Body

The purpose of this action is to establish a Waste Management Coordinating Body, which will ensure the coordination of procedures for the rational management of waste. This action seeks to bridge the gap between Central Government and Local

Authorities and to provide a flexible and effective mechanism that will upgrade waste management towards prevention and separate collection.



# Pilot Actions



# Expected Results & Impact

## Expected Results

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### Green Kiosks

Operation of green kiosks in remote areas for the separate collection of recyclable materials.

### Decentralised and home composting units

Development and operation of decentralised and household composting units in remote, mountainous and semi-mountainous areas.

### Repair/reuse centers

Development and operation of two organized centers and organization of a network of second-hand stores.

### Hazardous Household Waste

Development and operation of towed mobile units and centers for the collection and management of hazardous household waste.

### “Pay As You Throw” Scheme

Review and evaluation of the “Pay As You Throw” scheme.

### Data Recording

Recording and monitoring the production of food waste and agricultural waste in Cyprus.

### Monitoring and prevention of waste production

Development of an electronic platform to monitor and manage the prevention of food and agricultural waste production.

### Mapping and monitoring of marine litters

Development of a tool for mapping and monitoring marine litter and establishment of collection stations.

### Standards for secondary materials

Development of standards for determining secondary materials.

### Informing citizens for waste management

Organisation of information days and campaigns for proper waste management based on the principles of the circular economy.

### Education

Organisation of targeted capacity building workshops for capacity building and skills development for waste management.

## Expected Impact

- Changing the attitude of citizens towards waste management:
  - Prevention of waste generation
  - Reuse of materials
  - Preparation for reuse
  - Recycling
  - Separate collection
  - Sorting at the source
  - Participation



- Improvement of waste management services provided by municipalities and communities.
- Promotion of food waste prevention.
- Improving the environmental performance of businesses/industries in the agri-food sector.
- Capacity building, means and synergies to strengthen the circular economy.
- Integration of circular economy principles into the funding criteria.
- Raising awareness of stakeholders for a smooth transition to the circular economy.
- Creation of new jobs.



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