



LIFE18 IPE/GR/000013
LIFE-IP CEI-GREECE
Circular Economy Implementation in Greece



Circwaste Final Seminar 26-27/10/2023



Project Overview
Green Fund

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LIFE-IP CEI-Greece - Circular Economy Implementation in Greece



The project LIFE18 IPE/GR/00013 is co-funded by LIFE programme of the EU



The project LIFE18 IPE/GR/00013 is co-funded by the Green Fund



ΧΑΡΟΚΟΠΕΙΟ ΠΑΝΕΠΙΣΤΗΜΙΟ
HAROKOPIO UNIVERSITY

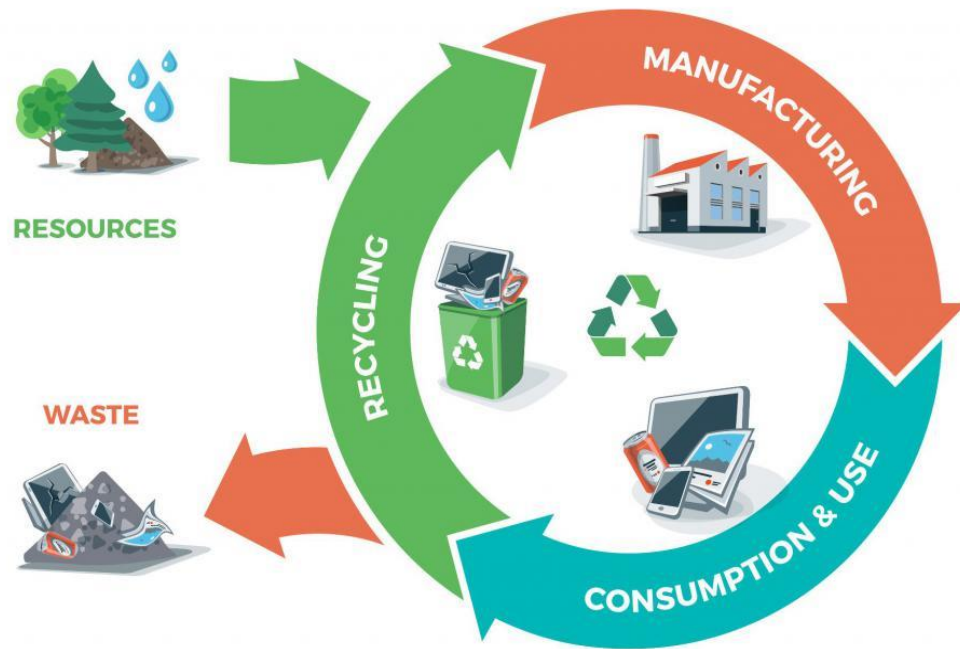


Διαδύμα
ΔΙΑΧΕΙΡΙΣΗ ΑΠΟΡΡΙΜΜΑΤΩΝ
ΑΥΤΙΚΗΣ ΜΑΚΕΔΟΝΙΑΣ Α.Ε.





Main project elements



1

AIM

The integrated LIFE project LIFE-IP CEI-Greece aims to contribute towards the implementation of the National Waste Management Plan, the National Waste Prevention Plan and the National Strategy for Circular Economy

2

PARTNERS

19

3

DURATION

8 years (1 NOV 2019 – 31 OCT 2027)

4

PHASES

4 biannual

5

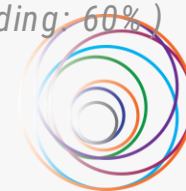
ACTIONS

A. Preparatory actions, C. Concrete implementation actions, D. Monitoring of the impact of the project actions, E. Public awareness and dissemination of results, F. Project Management and monitoring of project progress

6

BUDGET

15,93 m € (EU co-funding: 60%)



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The development of pilot actions in 9 municipalities and 1 region to promote the practical implementation of waste hierarchy:

- ◆ Integrated Waste Management based on circular economy principles (5 insular and 1 mountainous municipalities)
- ◆ Preparation for reuse and separate waste collection (2 urban municipalities)
- ◆ Hazardous household waste management (1 urban municipality and 1 region)
- ◆ Implementation of financial tools (1 urban municipality)



- ◆ Implement actions to promote food waste prevention and development of local/regional alliances for Agro-Food Waste Management in the context of circular economy

- ◆ Enhance the use of economic instruments, as well as developing secondary materials standards to support the implementation of circular economy



- ◆ Build-up a knowledge base to support monitoring of circular economy, particularly in the field of waste management

Project objectives (2)

- ◆ Develop alliances for the agri-food waste management as part of circular economy



- ◆ Improve awareness of key stakeholders, authorities and the general public with respect to the concept of circular economy and its implication in waste management

- ◆ Mobilize complementary funding resources to support the effective implementation of the National Waste Management Plan



- ◆ Disseminate the project results and ensure their implementation and replication in other areas



PILOT AREAS

Urban Areas
Athens, Vari-Voula-Vouliagmeni, Thessaloniki

Insular Areas
Tinos, Alonissos, Santorini, Paros, Antiparos

Mountainous Area
Nafpaktia

Regions
Western Macedonia

WASTE STREAMS

Materials with high circular capacity
Streams with targets set by legislation
Hazardous household waste
Food waste
Agri-food waste

TOOLS

Integrated and circular waste management systems
Preparation for reuse and separate collection infrastructure
Financial tools (Pay-As-You-Throw)
Local/Regional alliances
Voluntary agreements
Awareness, dissemination & vocational education



KEY actions | LIFE-IP CEI-Greece

► Construction of 3 Enhanced Green Centres (EGCs)

CHALLENGES

- Densely populated municipalities (Athens & Thessaloniki)
 - Limited availability of land
- ### ►
- Public perception of current waste management practices
 - Permitting procedure

SOLUTIONS

- Transfer of one EGC to another partner municipality (Vari-Voula-Vouliagmeni)
- Extensive dissemination campaign
- Close cooperation with relevant permitting authorities



Enhanced Green Centre in Thessaloniki

- 1 Upcycling centre (pic.)
- 2 Green centres in other locations

Enhanced Green Centre in Athens

Road works and necessary public infrastructure is being prepared



Enhanced Green Centres in Athens and Thessaloniki

- Upcycling centre (repair, reuse)
- Preparation for reuse (repair, re-purpose)
- Dismantling (recycling)
 - Sales or Free

KEY actions | LIFE-IP CEI-Greece



Agrofood Alliances

AIMS

- 
- Identification and facilitation of potential alliances
 - Development of Agrofood Waste Management Plans per established alliance
 - Financial engineering of the agro-food waste management projects per established alliance
 - Monitoring the maturation, implementation and operation status of the Agrofood Waste Management projects per established alliance
 - Techno-economic maturation;
 - Development of alliance's business plan;
 - Economic viability of the alliance;
 - Project implementation progress;
 - Environmental impact assessment;
 - Revolving funding of new projects.



1st Agrofood Alliance in Central Macedonia

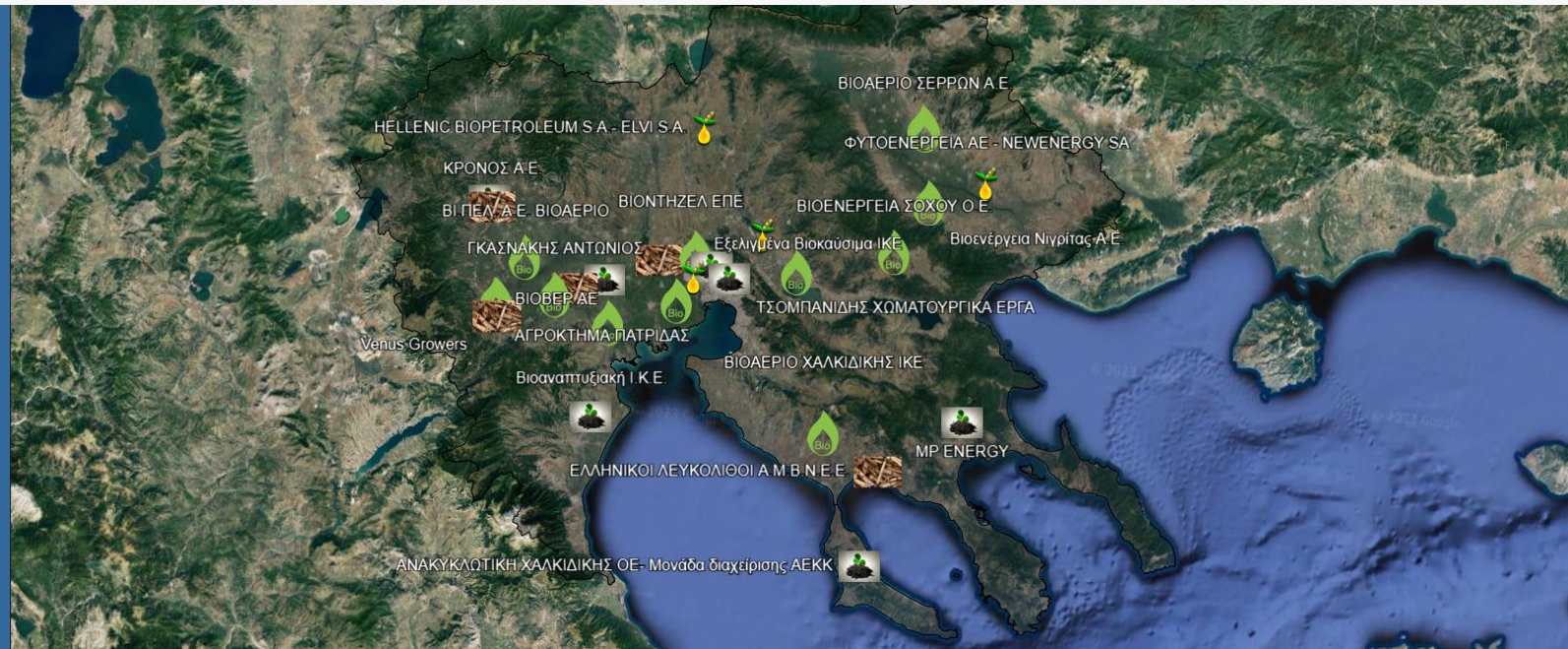
At least 10 stakeholders will sign the MOU with the Ministry (action leader): Regional Development Fund, Region of C. Macedonia, the KEAGRO Interdisciplinary Agrifood Center, the Greek Exporters Association (SEVE), the AgroTechnology Export Cluster, the Central Food-market of Thessaloniki, NGOs, Companies etc.

Bioeconomy

Bio-distillery and added value solutions will be sought. The local food production characteristics will be utilized. Local biowaste treatment plants will be engaged. New investments will be supported with available funding tools.

Biowaste Treatment Plants of C. Macedonia

30 Biowaste Treatment Plants have been identified and geo-positioned



- 7 Composting



- 4 Biofuel Production



- 6 Energy from biomass



- 13 Biogas production



KEY actions | LIFE-IP CEI-Greece

➤ Full scale implementation of hazardous household waste (HHW) collection networks and management

AIMS

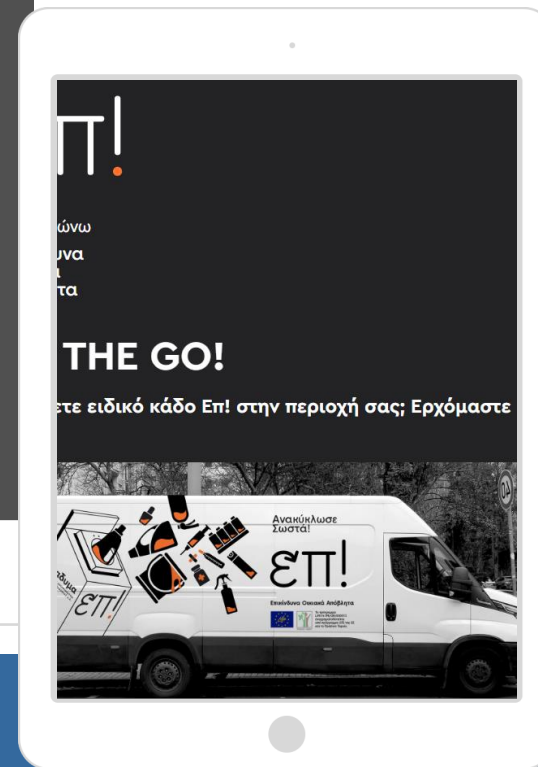
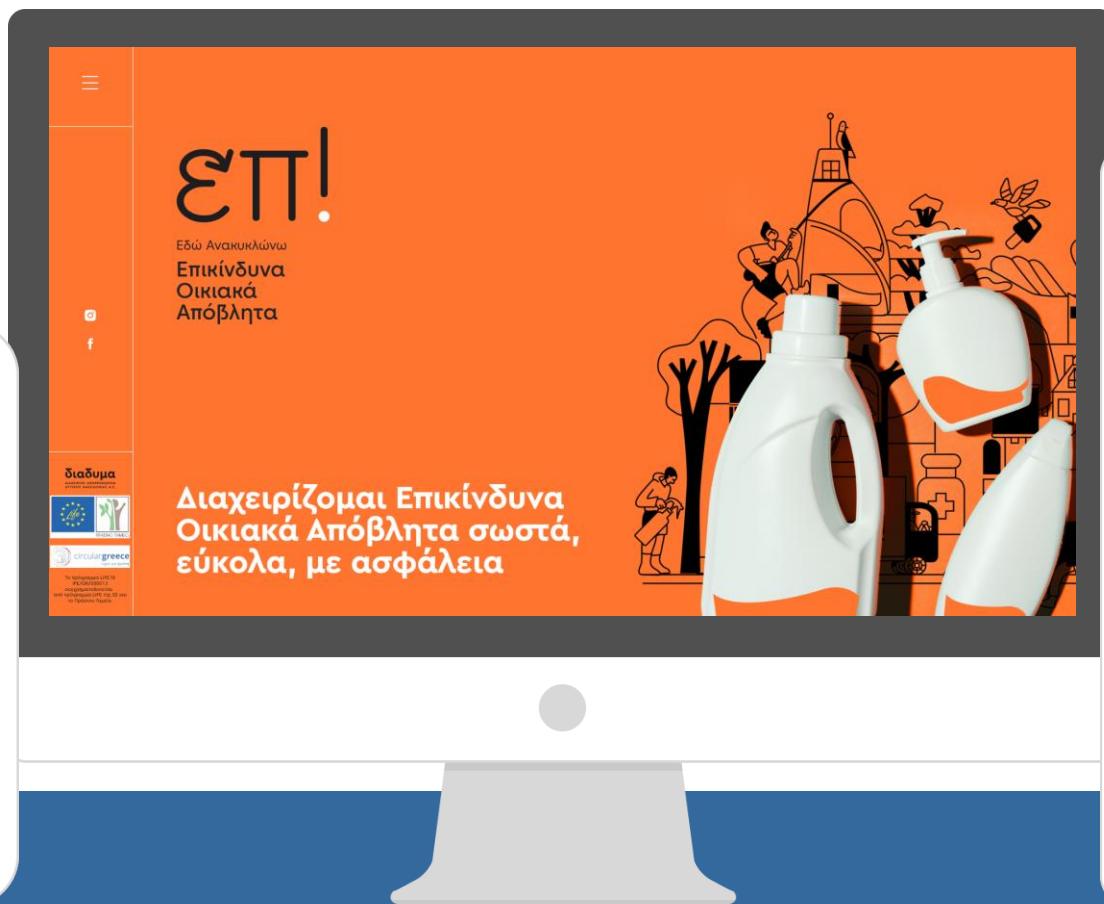
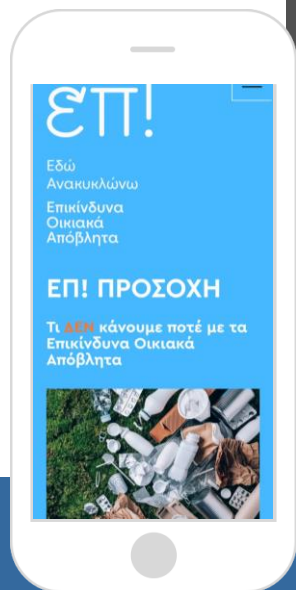
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- Set-up of the HHW collection network in the Region of Western Macedonia
 - Set-up of the HHW collection network in the Municipality of Athens

EXPECTED RESULTS

The total HHW quantities that are estimated to be managed during the project are:

- Region of Western Macedonia will be ~1,700 tn (289.4 tn/yr)
- Municipality of Athens they are estimated to be ~4,000 tn (677.3 tn/yr)





Household Hazardous Waste

<http://eoa.diadyma.gr/el> Pilot implementation of HHW collection in the Region of West Macedonia by DIADYMA S.A., the Regional Waste Management Authority

Hazardous Household Waste collection bins



Safe disposal

The bins were installed in April 2023 in Kozani and network will spread to all Western Macedonia

Clear messaging



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KEY actions | LIFE-IP CEI-Greece

► PAYT implementation in the Vari-Voula-Vouliagmeni Municipality

► CHALLENGES

- Pay-As-You-Throw system full implementation for a 50,000 inh. municipality
- First full implementation in Greece
- ≈11,400 residential buildings and offices produce 60% of municipal biowaste
- ≈ 330 restaurants, hospitals and hotels produce 40% of municipal biowaste

OPPORTUNITIES

- Capitalisation on previous EU funded projects (Benefit As you Save – BAS – Interreg Balkan-Mediterranean)
- LIFE-IP CEI-Greece

Pay-As-You-Throw System in VVV Municipality



Separate collection

- 1 Brown Bin (Biodegradable waste) per Household
- Recyclables in plastic bags of separate colour per stream



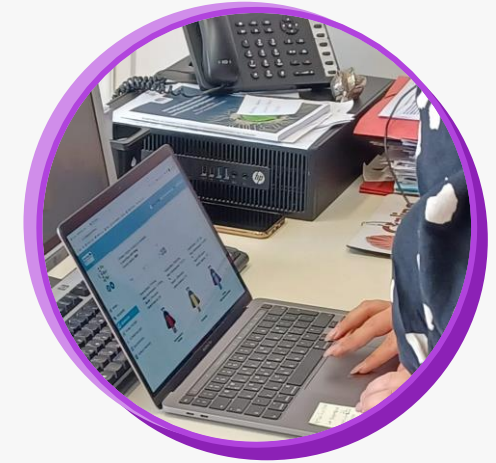
QR codes on bags

- QR scanned prior weighing per material (paper, PMT)
- Profit-As-You-Save program in parallel



Big producers

Big brown bins for big food-waste producers



Dedicated personnel

Trained and dedicated personnel is necessary to start successful implementation

C7.1 Capacity building seminars



Alexandroupolis, June 2023



Alexandroupolis, June 2023



Kozani, October 2023



Kozani, October 2023



Kozani, October 2023

- 2 seminars, 3 days each
- 238 participants
- 11 seminars remaining



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