

Action plan Cyprus

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**MINISTRY OF AGRICULTURE
RURAL DEVELOPMENT
AND THE ENVIRONMENT**



**DEPARTMENT OF
ENVIRONMENT**



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Part I – General information

Project: ***COCOON, Consortium for a coherent European Landfill Management Strategy***

Partner organisation: ***Department of Environment, Ministry of Agriculture, Rural Development and Environment***

Other partner organisations involved (if relevant): ***N/A***

Country: ***Cyprus***

NUTS2 region: ***Κύπρος (Kypros)***

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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 addressed: ***Competitiveness and sustainable development 2014-2020. priority: Management of solid waste and water resources, axis on closing and rehabilitation of landfills***



Part III – Details of the actions envisaged

ACTION 1 - DEVELOPMENT OF A LANDFILLS MAPPING TOOL

1. The background

In the case of Cyprus, a comprehensive study was undertaken in 2005 which included an Environmental study and a Feasibility study for the restoration and management of landfills. The purpose of the study was to record all landfills, assess their status and level of risk, create a restoration priority list based on pollution risk assessments, undertake the appropriate environmental studies as well as feasibility studies for the restoration of the prioritized landfills. These studies were a necessary step for the restoration of all landfills recorded. The EU landfill directive is fully harmonized in the national legislation but not fully implemented. In 2005 a Landfill was constructed in Paphos district: once in operation all the dumpsites of the district were closed and their restoration was completed. In 2009 a Mechanical Biological Treatment Unit was constructed in Larnaca to serve the districts of Larnaca and Ammochostos, which was complemented with a landfill. Once the landfill and the unit were put in operation all the dumpsites for the two districts were closed. Their restoration started in 2014. All remaining dumpsites in the areas of Nicosia and Limassol were closed apart from the two largest ones, i.e. one in Nicosia, named Kotsiatis, and the other in Limassol, named Vati. For this reason Cyprus was condemned by the EU court, and in 2019 they were finally closed. The Government of Cyprus went on tender for the restoration of the rest of the dumpsites, as is required by the Landfill Directive. This is an on-going procedure that started in 2010 with the dumpsites of Paphos (finished) and the dumpsite of Larnaca/Ammochostos (expected to be finished in 2016) and will be finalised with the 62 dumpsites of Nicosia and Limassol. In summary, there are three landfills operating according to the Landfill Directive, one landfill under construction, two dumpsites still in operation that need to be closed and rehabilitated, while another 62 landfills (in Limassol and Nicosia) need to be rehabilitated, including the two largest ones, i.e. one in Nicosia, named Kotsiatis, with the other one in Limassol, named Vati.

However, a more concrete approach is required towards landfills management and monitoring (e.g. a Strategic Plan). For reaching this objective, there are several tools that may be utilized. The Department of Environment has identified specific tools through the Cocoon project exchange of experience process. One of these tools is the Good Practice promoted by the Belgian partner 'OVAM - Public Waste Agency of Flanders', entitled "Cedalion and Orion, a decision support tool for dynamic landfill management" (<https://www.interregeurope.eu/policylearning/good-practices/item/2862/cedalion-and-orion-a-decision-support-tool-for-dynamic-landfill-management/>). The Cedalion tool is based on a Flemish decision support tool (Flaminco), that is modified to meet current knowledge and standards. It consists of a desktop programme where the main database is located and the calculations are done. An application makes it possible to collect up-to-date information and send it to the calculation sheet. The Orion tool is a platform consisting out of existing tools, each with its strengths and weaknesses. It will help the user with estimations about the profitability of a business case, simulating certain



scenario's or finding interim solutions.

Based on the knowledge gained from the Belgian partner's experience, the Department of Environment decided to propose the creation, development and establishment of a "Landfills Mapping Tool" in Cyprus. The objective of the new innovative tool will be to collect and host information about the Cypriot Landfills in an advanced form (e.g. through the use of GIS, risk assessment data, restoration assessment data, management and maintenance data) so that monitoring and projections on potential usages of landfill would more easily and accurately be produced.

Under the selected Cypriot ESIF Policy Instrument "OP - Competitiveness and sustainable development 2014-2020" an integrated platform for information and awareness will be developed for the demands of the monitoring of the projects of the structural funds 2014-2020 and any other relevant needs of the Department of Environment including the Priority Axis "Management of solid waste and water resources".

For this reason a tender was appointed (T.Π 20/2019, budget 18.000+VAT, duration of 8 months) through public procedures to cover the needs of technical terms regarding the development, installation, and maintenance of a "single on-line information system and awareness platform", as well as communication and capacity building to facilitate the demands of the monitoring of the projects of the structural funds 2014-2020 and any other needs of the Department of Environment. The consultant will give an analytic budget estimation for the single on-line information system and awareness platform as a deliverable. It has been preliminary estimated around 500.000 Euros.

2. Actions

Sub action 1.1: Detect all updated info about landfills in region

The Department of Environment (DoE) needs to gathering together all the necessary data in order to update all necessary information about landfills' recording and characterization in Cyprus.

Sub action 1.2: Detailed exchanges with the owner of the GP

In parallel, DoE should proceed in further exchanges with the Belgian partner owning the GP in order to study the tool in details, understand better its functions and conclude on which elements to adapt and adopt according to the local conditions in Cyprus. These exchanges can take place through a series of bilateral virtual training workshops/meetings.

Sub action 1.3: Define the properties of the tool

Following the capacity building and knowledge gain bilateral exchanges with 'OVAM - Public Waste Agency of Flanders', DoE needs to proceed in defining the properties of the new proposed tool (which information should be hosted by the tool, in which form, which functions should the tool include etc). This will be applied through an analysis of the

information collected through the previous two sub-actions (1.1 and 1.2) and a set of proposals that would be included in a report as part of the deliverable of the contract TP20/2019.

Sub action 1.4: Put the needed info for the creation, establishment, development and operation of the tool. Finalise the tool with all landfills included

The contactor of contract of TP 20/ 2019 will initiate the process of preparing the terms and conditions for the public procurement process of publishing the tender to sub-contract the creation, establishment, enrichment with data and operation of the new proposed tool.

Sub action 1.5: Project implementation

The contract will be awarded to the winning organization for the integrated single on-line information system and awareness platform and the new project will be implemented.

3. Players involved

- Directorate General for European Programs, Coordination and Development (DG-EPCD) - Managing Authority of the Policy Instrument
- Department of Environment, Ministry of Agriculture, Rural Development and Environment, Water Development Department - Final Beneficiary of the new project
 - Water Development Department Ministry of Agriculture, Rural Development and Environment, Water Development Department - Final Beneficiary of the new project
- Public Waste Agency of Flanders (OVAM) - exporting partner

4. Timeframe

A/A	Sub-Action Title	Duration	Indicative Time-Plan
1.1	Gathering all needed available data to detect all landfills	6 months	January - August 2020
1.2	Detailed exchanges with the owner of the GP	3 months	April - June 2020
1.3	Define the properties of the tool	9 months	January - Sept 2020
1.4	Creation, establishment, development and operation of the tool. Finalise the tool with all landfills included	7 months	June - December 2021
1.5	Project Implementation and Maintenance	6 months	September 2021 - February 2022

5. Costs

A/A	Sub-Action Title	Indicative Budget
1.1	Detect all landfills in region	Manhours of DOE
1.2	Detailed exchanges with the owner of the GP	Manhours of DOE
1.3	Define the properties of the tool	within TP20/2019
1.4	creation, establishment, development and operation of the tool. Finalise the tool with all landfills included	the consultant of TP 20/ 2019 contract will estimate the cost
1.5	Project Implementation and Maintenance	

6. Funding sources

The budget (mainly staff cost) required for actions 1.1, 1.2 will be financed through DoE own resources and the budget required for action 1.3 will be financed through DoE and Department of Information Technology Services own resources within the contract TΠ20/ 2019 (Total Budget 18.000 +VAT).

The budget for actions 1.3, 1.4 and 1.5 will be financed by the selected ESIF Policy Instrument of Cyprus “OP - Competitiveness and sustainable development 2014-2020”, more specifically under its Priority Axis “Management of solid waste and water resources”

ACTION 2 - Generation of a Portal on illegal practices and awareness raising for waste management

1. The background

During local stakeholders’ group meeting in Cyprus, on 17/5/19, where a training was given in waste management, stakeholders demanded the creation of a central point of contact, where anyone could easily report an illegal practice identified in landfills or within the waste management system in general. In addition, the Cypriot local stakeholders suggested that through this contact point, several good practices on waste management should be available (either from Cyprus or from other EU regions) so that the public and local entities improve their way of thinking and acting towards a better waste management.

The Department of Environment noted the local stakeholders suggestions and demands and sought relevant Good Practices through its cooperation with the Cocoon project partners. Inspired by the Good Practices “Waste Rooms” and “Flemish raise awareness campaigns on waste sorting” promoted by the Spanish ‘Sanitation Cordoba - SADECO’ and the Belgian ‘OVAM - Public Waste Agency of Flanders’ partners respectively, DoE decided to propose a new project for the creation of a “Portal on illegal practices and awareness raising for waste management”.

“Waste room” of public use is a system that aims to use a public area for the storage of public solid waste so that it is kept away from public visible areas, the best hygienic, sanitary and security conditions being ensured while the impact on the environment and surrounding scenario is minimised. “Waste room of private use” is a system that consists in devoting a private area to store the containers, away from the public areas, guaranteeing the maintenance of the hygienic-sanitary conditions and minimizing the impact of waste upon the surrounding area. The waste area can be designed with capacity for the storage of a flexible number of selective collection containers, depending on the number of users, types of waste, etc. OVAM’s GP is meant to give fellow organisations inspiration in how such a campaign can look like. Most campaigns in Flanders are done via posters, on places which are known to generate a lot of waste (shopping streets, bus stops, alongside highways,...). Also radio and TV commercials exist.

The objective of the new project would be to provide citizens and local organizations the opportunity to report easily and directly any illegal action they observe as well as to offer them a rich database of Good Practices in the sector of waste management and landfill use.

Under the selected Cypriot ESIF Policy Instrument “OP - Competitiveness and sustainable development 2014-2020” an integrated platform for information and awareness will be developed for the the demands of the monitoring of the projects of the structural funds 2014-2020 and any other relevant needs of the Department of Environment including the Priority Axis “Management of solid waste and water resources”.

For this reason a tender was appointed (T.Π 20/2019, budget 18.000+VAT, duration 8 months) through public procedures to cover the needs of technical terms regarding the development, installation, and maintenance of a single on-line information system and awareness platform, as well as communication and capacity building to facilitate the demands of the monitoring of the projects of the structural funds 2014-2020 and any other needs of the department of Environment. The consultant will give an analytic budget estimation for the single on-line information system and awareness platform as a deliverable. It has been preliminary estimated around 500.000 Euros.

2. Actions

Sub action 2.1: Design the project

The Department of Environment (DoE) shall define the elements of the new proposed portal (which information should be available, in which form, which functions should the portal include etc). In addition, different awareness raising actions should be decided as well as a sufficient number of Good Practices to be promoted through the portal.

This action will be delivered within the deliverables of TΠ 20/2019. (Budget 18.000 +VAT)

Sub action 2.2: Project Implementation

The contract will be awarded to the winning organization and the new project will be implemented.

3. Players involved

- Directorate General for European Programs, Coordination and Development (DG-EPCD) - Managing Authority of the Policy Instrument
- Ministry of Agriculture, Rural Development and Environment, Department of Environment - Final Beneficiary of the new project

4. Timeframe

Sub-Action No	Sub-Action Title	Duration	Indicative Time-Plan
2.1	Design the project	8 months	January - August 2020
2.2	Include the TORs for new project through the new tender	3 months	Sept - November 2020
2.3	Project Implementation and Maintenance	10 months	March 2021 - December 2021

5. Costs

Sub-Action No	Sub-Action Title	Indicative Budget
2.1	Design the project	Manhours of DOE, within ΤΠ20/2019
2.2	Include the TORs for Acquire funding for the new project through new tender	Manhours of DOE
2.3	Project Implementation and Maintenance	Manhours of DOE and within budget of a "single on-line information system and awareness platform"

6. Funding sources

The budget required for action 2.1, 2,2 will be financed through DoE own resources within ΤΠ20/2019.

The budget for action 2.3 will be included in a new tender financed by the selected ESIF Policy Instrument of Cyprus "OP - Competitiveness and sustainable development 2014-2020" for the development of a "single on-line information system and awareness platform".

Date: 30/12/2019

Signature: 

Stamp of the organisation (if available):



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