

Demonstrating resource efficiency through innovative, integrated waste recycling schemes for remote areas



1st Newsletter

1. *Development of the project's interactive website*
2. *Kick-off meeting in Naxos!*
3. *Design of the LIFE information boards in the project target areas*

Completed actions:

1. *Recording of the current situation of the recyclable materials' market*
2. *Study of the installation sites for the innovative MSW management systems in the project implementation areas*
3. *Start of the design phase of the innovative MSW management system*
4. *Circular economy & resource efficiency in Europe*

Beneficiaries:



**Municipality of Naxos &
Small Cyclades**



Fundación CARTIF



**National Technical
University of Athens**



**Δήμος Αρχαίας Ολυμπίας
Municipality of Ancient
Olympia**

The recording of the existing status in the market of recyclable materials was initiated:

The methodology includes the following steps

1

Potential recoverable and recyclable products



Category 15:
Waste packaging: sorbents, wiping cloths, filter materials and protective clothing not otherwise specified
Category 20:
Municipal wastes and similar commercial, industrial and institutional wastes including separately collected fractions

Sum of categories of the European Waste Catalogue (EWC)

Paper – paperboard (20 01 01)
Plastic (20 01 39)
Glass (20 01 02)
Metal (20 01 40)
Packaging of aforementioned materials (15 01 01, 15 01 02, 15 01 04, 15 01 05, 15 01 07)

Organic materials
Biodegradable kitchen and canteen waste (20 01 08)
Garden and park waste (20 02 01)

Special waste streams

Waste of electrical and electronic equipment (WEEE) (20 01 35)
Edible oil and fat (20 01 25, 20 1 26)
Waste batteries and accumulators (WB & A) (20 01 33, 20 01 34)

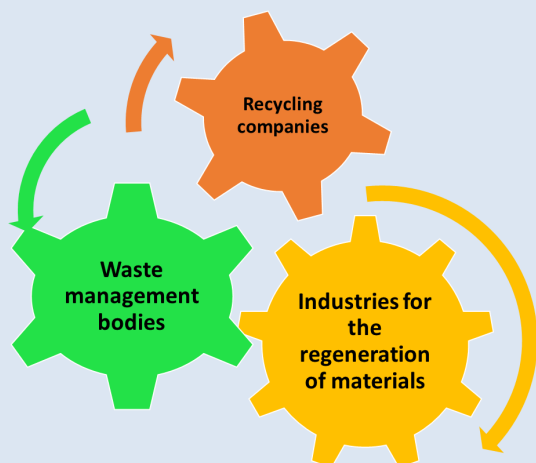
2

Contact and selection of stakeholders for waste management in the targeted remote areas

3

Specification of materials in the market of recyclables

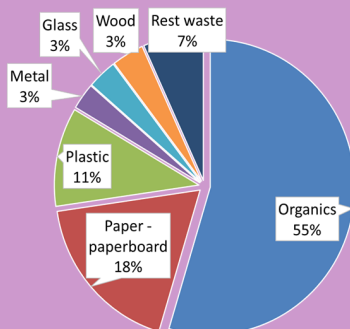
- ⇒ Purity levels
- ⇒ Waste quantities
- ⇒ Type of pre-treatment required (source-sorting, baling, compression, shredding etc.)



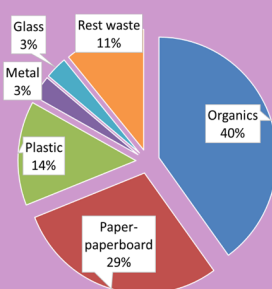
Investigation for the sitting of the innovative MSW management system within the two Municipalities

Data collection was conducted related to generation and composition of MSW in the two targeted areas for the determination of the installation sites for the innovative recycling systems

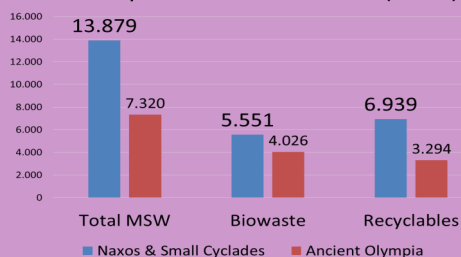
MSW composition Municipality of Ancient Olympia



MSW composition Municipality of Naxos & Small Cyclades



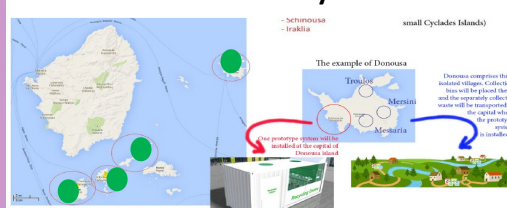
MSW production in tonnes (2020)



Indicative installation sites for the innovative recycling systems



Naxos & Small Cyclades



Initiation of the design of the innovative recycling systems which will be installed at selected locations of the participating remote areas

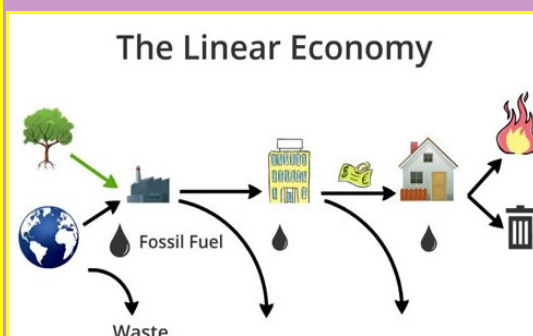


3D Design of the prototype innovative system

- Residents will carry the separated at source MSW and will dispose them in the prototype innovative recycling systems
- Information campaigns will be organized in the Municipalities of Ancient Olympia and Naxos and Small Cyclades in order to educate and raise awareness of the residents on issues of recycling and sustainable waste management of MSW.

Circular economy-Resource Efficiency

EC release date: 02/12/2015



To date, the economy operated under the model of "get-maker-reject" -a linear model in which each product is inevitably rejected.

Each year in the EU, used nearly 15 tons of material per person, each EU citizen produces, on average, more than 4.5 tonnes of waste per year, of which more than half goes to landfill. The linear economy, which relies exclusively on mining resources, is no longer a viable option.

The transition to a circular economy requires a change of focus to reuse, repair, refurbishment and recycling of existing materials and products. So what was previously considered "waste" can be converted into raw material, re-opening its lifecycle.

Source: European Commission: The circular economy. Connecting, creating and maintaining value.



Networking activities with other LIFE or non-LIFE projects:

21/12/2016: Meeting with the working group of the **project Recycling @Home** to exchange views on **recycling practices in the city** (Recycling @ Home, implementation in Municipalities of Maroussi and Mandra-Eidylas).

For more information please visit the project website:

<http://www.recyclingathome.eu/>

