

**CORFU**



**2022**

**15-18 JUNE** . [corfu2022.uest.gr](http://corfu2022.uest.gr)

*Intelligent Cities Challenge (ICC):  
A green and digital transition opportunity for the  
Municipality of Central Corfu and Diapontia Islands*

**Victor Dimoulis**

Assistant Project Manager of Corfu's ICC Team -

Scientific Advisor to the Mayor

*Municipality of Central Corfu and Diapontia Islands*



# **UNIFIED MUNICIPALITY OF CORFU ≈** **102.000 permanent residents**

**(until 31/08/2019)**



Despite the unified Municipality of Corfu being fully functional, the necessary measures that would have brought into force the management of generated waste were not taken (implementation of recycling infrastructures, raising awareness of citizens, early transition from lineal to circular economy, etc.). As a result, in 2018 the problem on the island became untenable, which consequently led to:

- a) The only landfill of the whole island being overloaded,**
- b) The island's environment being further degraded, affecting thus public health,**
- c) The European Court fining the municipality for the above and**
- d) international negative press for the entire island of Corfu, which until today relies on the tourism industry to an extent of up to 90%.**

# DIVISION OF UNIFIED MUNICIPALITY OF CORFU = 3 new smaller municipalities (from 01/09/2019 – Today)

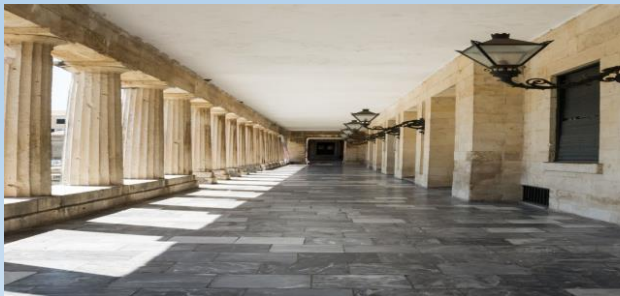
Municipality of South Corfu  $\approx$  **16.000** permanent residents

Municipality of North Corfu  $\approx$  **18.000** permanent residents

Municipality of Central Corfu and the Diapontian Islands  
 $\approx$  **70.000** permanent residents



The Municipality of Central Corfu and Diapontian Islands (hereafter MCCDI) is a new municipal authority, established in 2019 and is the largest of the 3 different Municipalities created, following the division of the formerly unified Municipality of Corfu.



# MUNICIPALITY OF CENTRAL CORFU and DIAPONTIAN ISLANDS

The Mayor and the municipal authority of the MCCDI have embraced the vision to transform the new Municipality (MCCDI) into one of the most sustainable islands in Europe, well in advance of the previous elections.

To conform with this vision and in support of the existing plans of the new municipal authority to solve the biggest problem that the island of Corfu has ever faced (the waste management issue) and following successfully applying the principles of circular economy, the Department of European Affairs, Development and Digital Governance with the assistance of the Scientific Advisor to the Mayor, Mr. Victor Dimoulis, succeeded in becoming part of the «100 Intelligent Cities Challenge - ICC» initiative, as the only medium sized European island that has been chosen to participate in the programme.





# 100 INTELLIGENT CITIES CHALLENGE

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THE SUCCESSOR TO THE DIGITAL CITIES CHALLENGE

The 100 Intelligent Cities Challenge (ICC) is a European Commission initiative / programme which is funded by COSME, the EU programme for the Competitiveness of Enterprises and SMEs and supports 136 cities in using cutting-edge technologies to lead the intelligent, green and socially responsible recovery.

More specifically, the ICC initiative's goals are to provide:

- a) Strategic advice from international experts tailored to each city that participates,**
- b) Mentoring from the most innovative mentor cities in the EU,**
- c) Support by transversal services on access to data, access to finance and through a marketplace full of innovative solutions.**
- d) Community conventions – for action over talk,**



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## ICC Team of the City of Corfu



**Meropi - Spyridoula Ydraiou**  
Mayor of the Municipality of Central Corfu and the Diapontian Islands



**Panagiota Tzanne**  
City Project Manager - Deputy Mayor of European Affairs, Development and e-Governance



**Victor Dimoulis**  
Assistant City Project Manager - Scientific Advisor to the Mayor



**Prof. Markos Avlonitis**  
Local Ecosystem Advisor 1 - Associate Professor in the Department of Informatics of the Ionian University of Corfu



**Mr Ioannis Metallinos**  
Local Ecosystem Advisor 2 - Civil Engineer and elected President of the Executive Committee of Technical Chamber of Greece - Department of Corfu



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The ICC has already begun to provide the MCCDI with assistance in order to establish effective strategies for circular economy, renewable energy solutions and green mobility, while at the same time aspiring to simplify citizens' lives through e-Government and by digitizing public services to make cities fit for the European Digital Age.

To succeed on that front, the ICC programme requested from the cities to deliver “quick wins” from their City Goals in the first 6 months, followed by larger projects that will improve city life, which for the City of Corfu are the following:

 **City goal 1– “Waste management and circular economy” (Prior City goal)**

 **City goal 2– “e-Government and digitizing public services”**

 **City goal 3– “Scaling up renewable energy solutions / energy-efficiency”**

 **City goal 4– “Smart and green mobility and transport”**

# Waste management and circular economy

The Mayor and Corfu's ICC team are committed to providing sustainable and permanent solutions to the biggest problem that the island of Corfu has ever faced, which is our 1st and outmost prior City goal - **“Waste management and circular economy”**.

That's why the process must be modernized and there should be more data that will help introduce, adopt and implement all the necessary circular economy principles which ensure sustainable resource management based on the 3Rs and enable better decision-making.



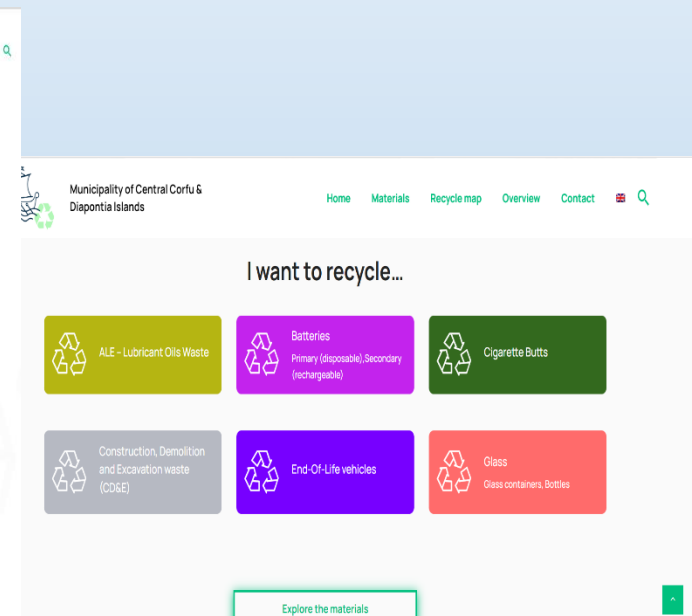
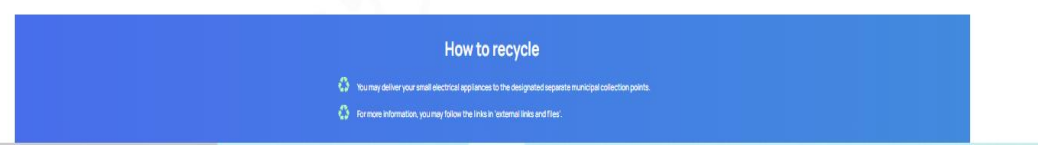
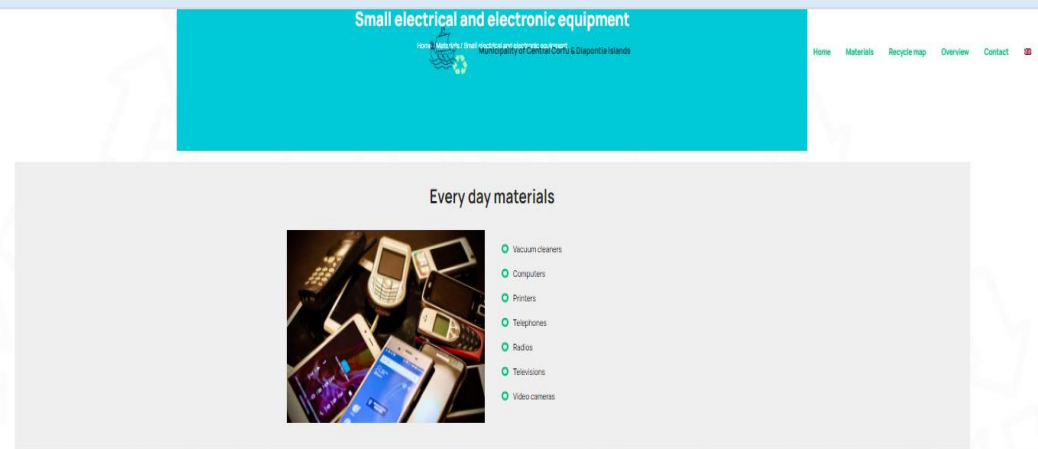
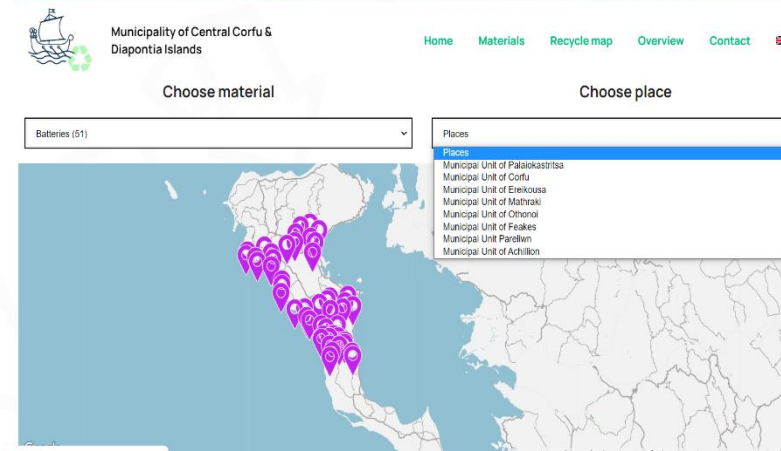


# Waste management and circular economy

In this direction, the MCCDI is focusing on:

## 1) Informing and raising awareness actions of the general population in the Municipality

Development of the website: <https://recycle.corfu.gr/>



# Waste management and circular economy

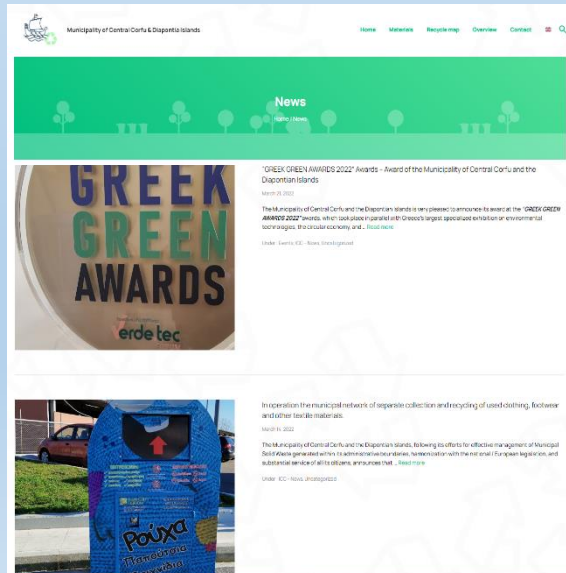
In this direction, the MCCDI is focusing on:

## 1) Informing and raising awareness actions of the general population in the Municipality

Development of a special information - publicity page within the informative website <https://recycle.corfu.gr/> on the ICC initiative.

Participation of the Municipality in the FOLLOWGREEN web platform.

Launch in a large scale of a well-structured campaign that will include all the necessary methods of informing and raising awareness of the general population.





# Waste management and circular economy

## 2) Smart management of bins and smart fleet management

Developing of a smart sensors network to as many bins as possible to monitor their condition and collect data so we can create the best routes according to their fullness. At the same time, we will also put GPS trackers to the Municipality's garbage trucks, so the citizens will know when the trucks are close to their area.

**Trying to be applied  
on the field until  
the 1st quarter of  
2023**





# Waste management and circular economy

## 3) Successfully implement separate collection to all areas of the Municipality

The successful performance of the 3Rs and “waste separation at source” is responsibility of the general population

The final treatment of the organic and the mixed waste stream are mostly the responsibility of the local or the regional Solid Waste Management Body

Waste management problem is an issue that can be solved only collectively and when each party fulfilling its duties.

The Municipality is responsible to implement well-based and effective public infrastructures and to ensure that separate collection for most of the waste streams will be applied to all the areas of its jurisdiction.



# Waste management and circular economy

## 3) Successfully implement separate collection to all areas of the Municipality

In this direction, the MCCDI since the beginning of the ICC initiative (September 2020), has implemented separate collection networks for the following streams to all areas of the Municipality:

**Batteries -  
(51 spots)  
(in the municipal  
buildings)**



**Light Bulbs -  
(20 spots)  
(in the municipal  
buildings)**



**Small electrical  
and electronic  
equipment -  
(10 spots)  
(in the municipal  
buildings)**



**Ink Cartridges –  
Toner -  
(10 spots)  
(in the municipals  
buildings)**



# Waste management and circular economy

## 3) Successfully implement separate collection to all areas of the Municipality

In this direction, the MCCDI since the beginning of the ICC initiative (September 2020), has implemented separate collection networks for the following streams to all areas of the Municipality:

**Marine litter**  
(ghost nets, plastic, etc.) -  
(from underwater & coastal clean ups)



**Cigarette Butts -**  
(40 spots) -  
(1<sup>st</sup> municipality in Ionian Islands)



**Used textiles -**  
(26 spots) -  
most recent waste stream



**Unused – non expired medicines -**  
(1 spot)





# Waste management and circular economy

## 3) Successfully implement separate collection to all areas of the Municipality

Until next year, MCCDI plans to implement for 1st time, proper public infrastructures for separate collection for as many as possible waste streams. More particularly :

**Network of Green Points**  
(in all the sizes)

**Network of  
Recycling Corners**  
(at least 15 with  
deposit refund  
schemes - DRS)

**Network of  
mobile  
Green Points**  
(at least 5  
vehicles)



# Waste management and circular economy

## 3) Successfully implement separate collection to all areas of the Municipality

... also until next year, the MCCDI plans to implement separate collection networks for the following waste streams, which are:

### **Used Cooking Oils -**

(from the citizens and the HO.RE.CA. businesses)



### **Paper and cardboard -**

(1.100 yellow bins + 3 dedicated vehicles)



### **Plastic or/and metal objects - (more than 150 red bins)**



### **Bio-waste (more in next slide)**



# Waste management and circular economy

## 3) Successfully implement separate collection to all areas of the Municipality



1.800 bins for  
In-Home  
Composting



6 dedicated  
garbage  
trucks only  
for bio-waste

Separate  
collection  
network for the  
bio-waste stream  
will include:

20 bins for  
“green waste”



1.000 brown  
bins



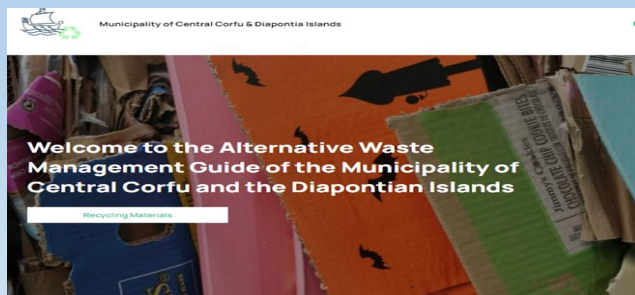
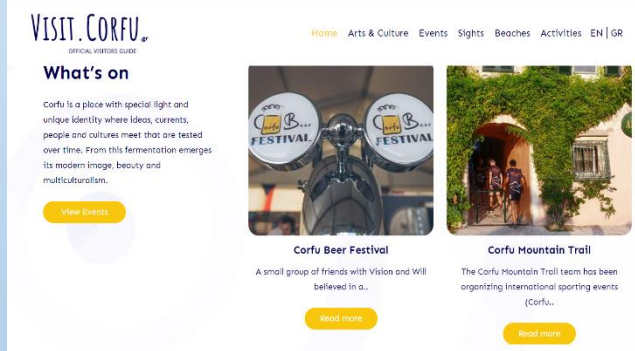
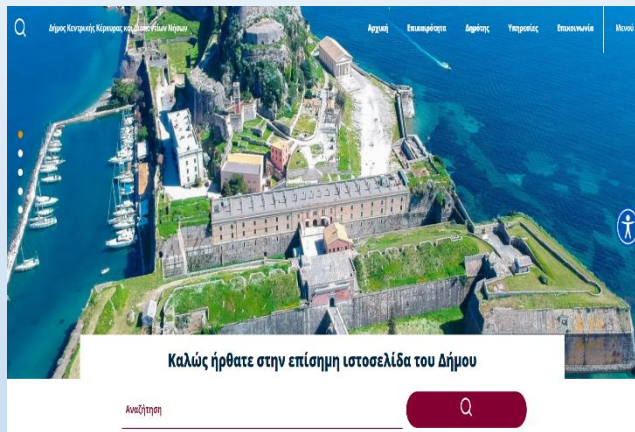


# 100 INTELLIGENT CITIES CHALLENGE

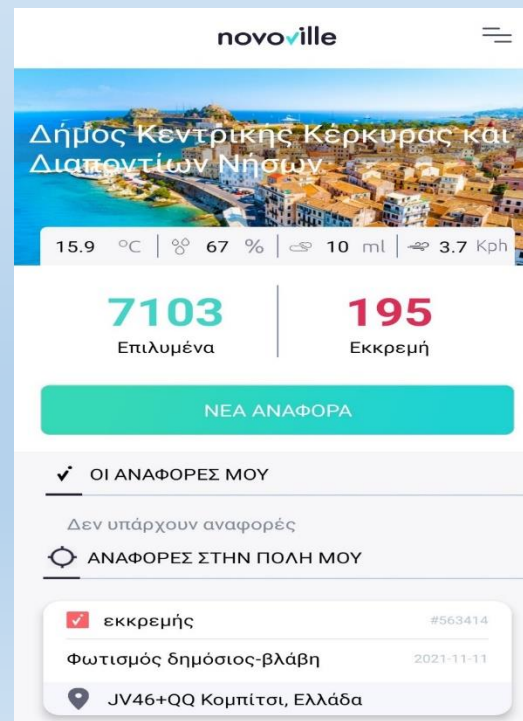
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## Milestones on - City goal 2 – “e-Government and digitizing public services”

Creating for the first time a FREE public Wi-Fi network which will be extended geographically during the following years



Participation in the digital platform "Novoville" for managing citizens' requests.





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**Milestones on - City goal 3 – “Scaling up renewable energy solutions / energy-efficiency”**

**Replacement of the old street lighting bulbs with LED lamps**



**Energy Upgrading of school buildings of the Municipality** →



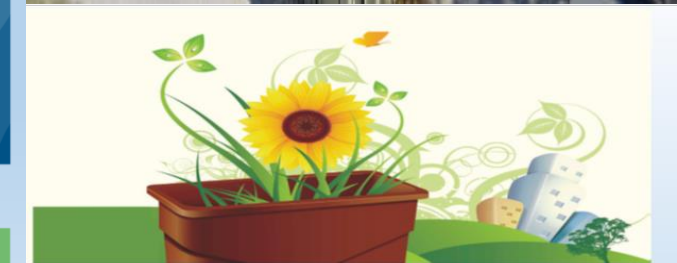
**Decarbonization Study of Diapontia Islands**



**New Energy Solutions Optimised for Islands**



**EUROPEAN ISLANDS FACILITY**



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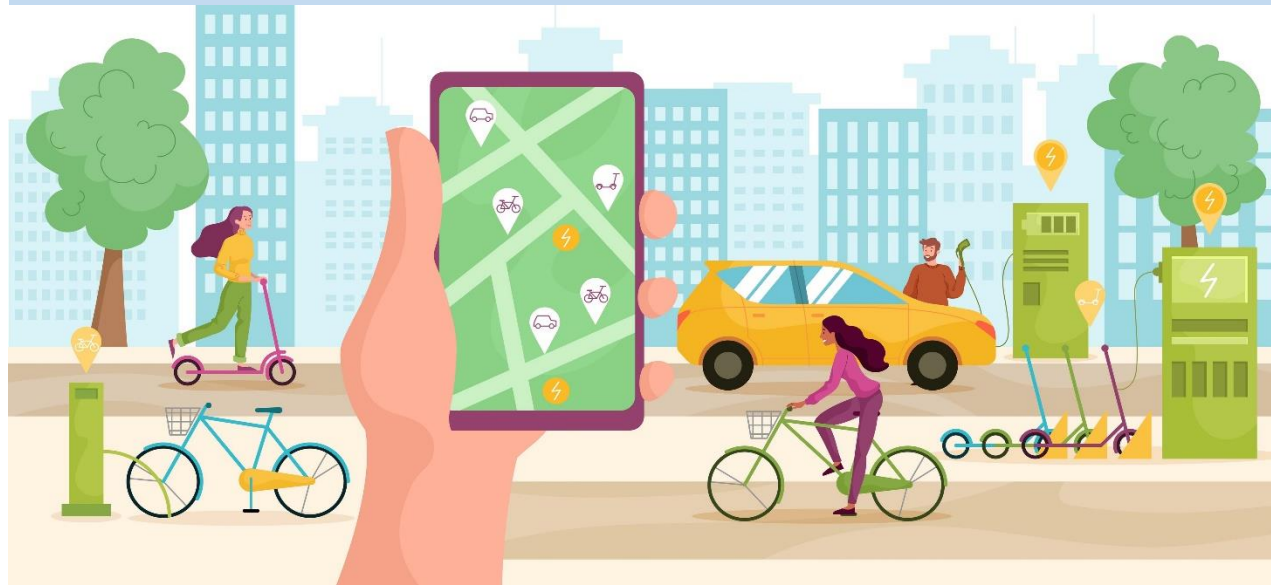
**Milestones on - City goal 3 – “Scaling up renewable energy solutions / energy-efficiency”**

**Installation of 36 smart  
stop shelters**



**Electric Vehicle Charging Plans →**

**Sustainable Urban Mobility Plan (SUMP)**





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*Thank you for  
your attention!*



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COUNCIL



MUNICIPALITY  
OF CENTRAL CORFU  
AND  
DIAPONTIAN ISLANDS