

ISSUE 01

**ZEFFIROS**

PROJECT NEWSLETTER

**Interreg - IPA CBC**



CCI 2014 TC 16 I5CB 009

**ZEFFIROS**



**ZERO-WASTE ENERGY-EFFICIENT  
AGRICULTURAL COMMUNITIES IN THE  
GREECE - REPUBLIC OF NORTH  
MACEDONIA CROSS-BORDER AREA**

## IN THIS ISSUE

### PG. 2

Making biowaste our fuel  
ZEFFIROS: Our project identity

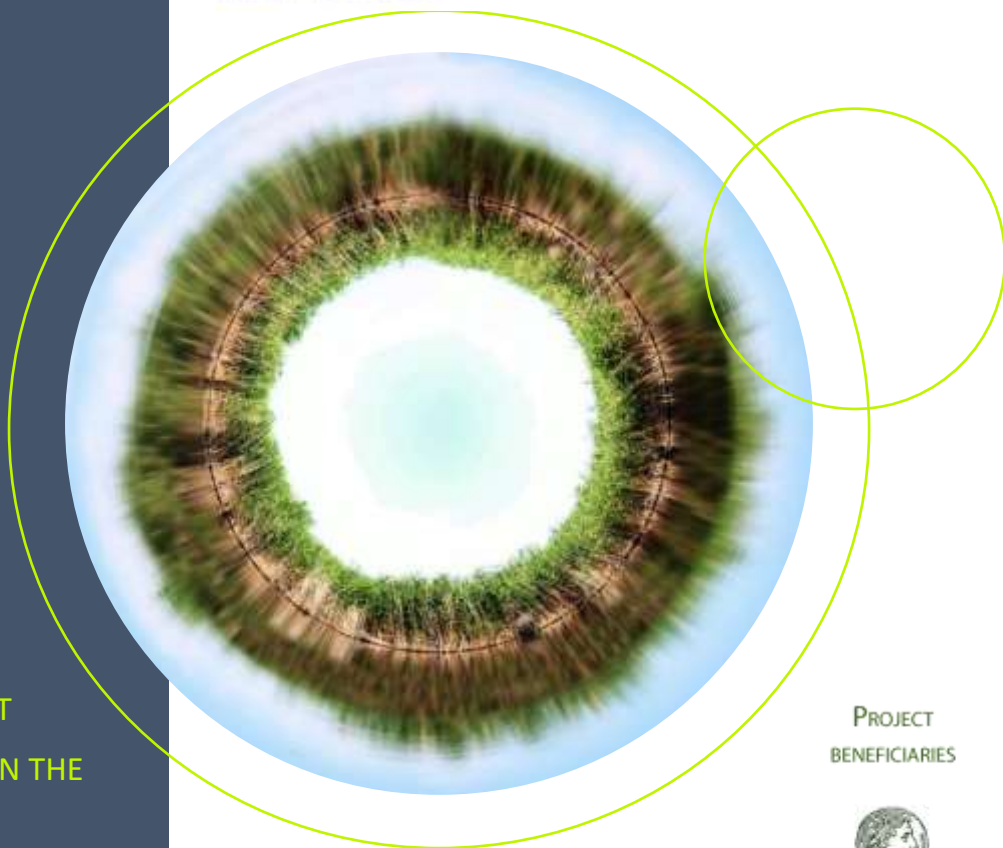
### PG. 3

2<sup>nd</sup> Project Meeting In Dojran

### PG. 4

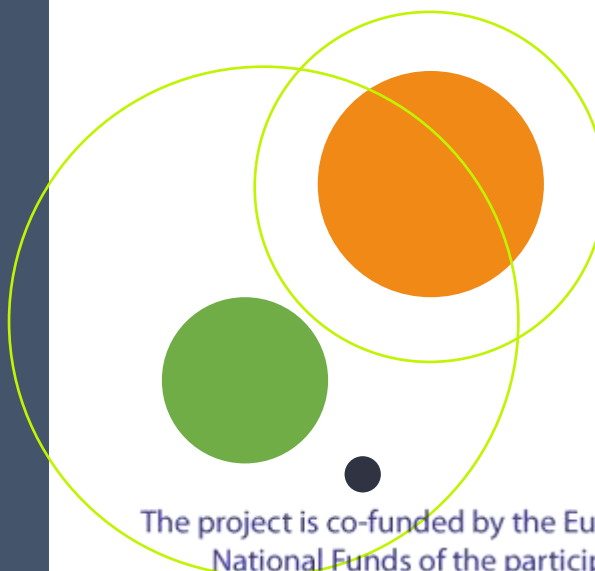
Spreading the word about ZEFFIROS

The views expressed in this publication do not necessarily reflect the views of the European Union, the participating countries and the Managing Authority



Find out more at

[www.zeffirosproject.eu](http://www.zeffirosproject.eu)



**PROJECT  
BENEFICIARIES**



ARISTOTLE UNIVERSITY  
OF THESSALONIKI



SLAUGHTERHOUSE MUNICIPALITY  
OF STRYMONA O.L.G. S.A.

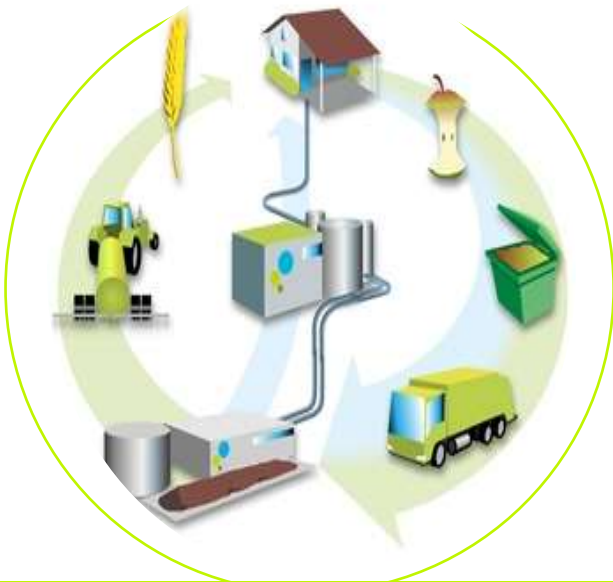


MUNICIPALITY  
OF DOJRAN



MUNICIPAL PRIMARY SCHOOL  
"KOCO RACIN" DOJRAN

The project is co-funded by the European Union and by  
National Funds of the participating countries



## ZEFFIROS: OUR PROJECT IDENTITY

The ZEFFIROS project aims to **implement the first, one-of-a-kind, biogas energy production pilot installations in two sites, Serres and Dojran**, designed and operated through inter-municipal cooperation and cross-border exchange of knowledge and good practice.

Named after Zeffiro or Zephyro, the God of west wind or God of Spring, **the project aims to bring a transformative wind in the region towards zero-waste agriculture and the circular economy, leading to rural development and jobs creation.**

ZEFFIROS capitalises on a 4-year long investment made by its **Lead Partner, the municipality of Serres**, who has already received an official approval based on the Environmental Impact Assessment for the **installation of an anaerobic digestion biogas plant of 250KW nominal power** in the Elaionas Livestock Farm (ELF).

**ZEFFIROS will demonstrate effective solutions to existing problems** in the cross-border area:

- Illegal disposal of waste from farming and animal husbandry and non-utilisation of by-products
- Misuse of chemical soil-fertilisers with implications on food and water safety
- High cost of biowaste disposal that jeopardises business viability (e.g. municipal slaughterhouse)
- Negative impacts on financial and environmental sustainability from dependence on fossil-fuels

## MAKING BIOWASTE OUR FUEL

ZEFFIROS will

- Implement two pilot biogas installations in the cross-border area (a 40 kW unit in Serres, Greece and a 10 kW unit in Dojran, Republic of North Macedonia) to study operation flow and productivity with different biowaste mix (e.g. rotten potatoes, slaughterhouse waste, manure, dairy waste, etc.)
- Solve energy consumption problems or decrease energy supply costs to support rural development (e.g. water pumping for remote rural areas, electricity and heating needs for municipal buildings)
- Develop a complete business value chain and an operational model for each pilot unit to continue operation after the project ends
- Train farmers, animal breeders and other food processing professionals to reap the benefits of the circular economy
- Guide towards certification to promote the use of by-product compost as a fertilizer
- Raise awareness and change citizens' attitudes by running neighbourhood-bin compost pilots, promoting compost production in urban and suburban areas





## 2<sup>ND</sup> PROJECT MEETING IN DOJRAN

The 2nd project meeting took place in Dojran on October 4th, 2019. The meeting was graciously hosted by the Mayor of the Municipality of Dojran, Mr. Ango Angov, at the Hotel "La Terazza" in Star Dojran.

The meeting was attended by 27 participants from both countries, representatives of the Project Beneficiaries and experts. The Managing Authority of European Territorial Cooperation Programmes, which was represented by Mr. Dimitrios Gertsos and Mr. Giorgos Papapostolou.

During the meeting, the participants discussed the progress on the work plan and articulated an action plan for the next period. The technical teams from each project beneficiary analysed the specifications and requirements for the 2 biogas pilot units in Serres and Dojran and exchanged information and technical details concerning the implementation of the plants.

The Aristotle University of Thessaloniki presented the project's branding and communication materials and proposed an operational agenda for enhancing the project's dissemination in the cross-border area.

Building a  
biowaste-based  
circular economy in  
the Greece -  
Republic of North  
Macedonia cross-  
border area





## SPEADING THE WORD ABOUT ZEFFIROS



### ZEFFIROS at the 12<sup>th</sup> EFITA International Conference

Dr. Charisios Achillas, researcher at the Aristotle University of Thessaloniki, participated at the 12<sup>th</sup> EFITA International Conference and presented the work entitled "Legal and policy framework analysis on biowaste management for the promotion of circular economy", in the context of ZEFFIROS dissemination activities.

165 people attended the event, where they were informed about the objectives of the project, the technical studies and the piloting activities under preparation. Among the participants, 35 farmers or breeders, 30 students and teachers and 100 research and training centre representatives were acquainted with ZEFFIROS project and took interest in our activities aimed at biowaste exploitation for sustainable development in the region.

The conference facilitates participants from over 25 countries worldwide, dealing with knowledge sharing and thinking on the future of ICT technologies within the agri-food and bioresource sectors.

### 10<sup>th</sup> Regular Meeting of the Delegation of the Technical Chamber of Greece - Dpt. CM

On 11<sup>th</sup> of June 2019, Mr. Christos Pallas, Director of the Technical Services of the Municipality of Serres, participated in the 10<sup>th</sup> Meeting of the Delegation of the Technical Chamber of Greece / Dpt. of Central Macedonia and presented the municipality's activities and actions concerning the energy sector. Mr. Christos Pallas had the opportunity to present the ZEFFIROS project, focusing on its objectives, its expected outputs and results, etc.

Approximately 30 participants attended the event, including members of the delegation of the Technical Chamber of Greece Dpt. CM, civil engineers, landscape architects and engineers, reps of Local Authorities and of the Regional Unit of Serres, etc.

