
SYMBIOSIS Project

**Symbiotic Networks of Bio-Waste Sustainable
Management**

4th Periodical report

Date:

September 2020

About the project

SYMBIOSIS promotes re-manufacturing, reuse and recycle, and transforms one industry's waste to another's raw material and/or fuel, to pave the way for a more circular economy for the regions, where waste is eliminated and resources are used in an efficient and sustainable way. The direct beneficiaries of Symbiosis project will be the 'producers' and 'users' of bio-wastes that include a large number of companies and agro-industries inside the cross-border area. The common platform of SYMBIOSIS project will meet the 'offer' with the 'demand' of bio waste creating synergies and business opportunities providing new solution for exploitation of bio-waste. Scope is the real matching of those companies and the sign of cooperation agreements among them. Moreover, the local authorities responsible for waste management will conduct pilot testing for the exploitation of urban and agro-waste and will develop their Action Plans for bio-waste management and separate treatment. Last but not least, experts will conduct studies on the environmental and economic impact of the project to the participated regions.

Main target

The project main objective is to set up an integrated, sustainable, bio-waste management and trading scheme between the partner regions of Western Macedonia in Greece (former pref. of Florina) and the municipality areas of Bitola and Novatsi in Republic of North Macedonia following the Industrial Symbiosis concept. SYMBIOSIS will develop symbiotic networks bringing together companies and stakeholders from all business sectors, aiming to improve cross industry resource efficiency through material trading and sharing assets in an environmentally sustainable way.

Specific objectives

- To set-up a cross industry resource efficiency through organic material trading and sharing assets;
- To create industrial sustainable networks especially in the agro-food industry;
- To achieve maximum efficiencies in energy and water use;
- To have a reference point where the demand will meet the offer of bio-waste materials in CBC area;
- To improve the local policies on the management of bio-waste streams and tackle this issue individually following the directions of the EU policy for less bio-waste to the landfills and better utilization for other uses;
- To improve the environmental benefits by reducing the bio-waste streams that were disposed into landfills;

- To generate tangible social benefits to local communities by better use of bio resources from the food industry in favor to social activities;
- To improve the cooperation among sectors and businesses in cross-border area thus improving the local economies and boosting entrepreneurship;
- To support the local economies by safeguarding raw materials or fuel coming from bio-waste;
- To promote job creation in the regions into question by exploring the trade opportunities and using the waste as a resource.

Project partners

PARTNERS	PARTNER TITLE	COUNTRY
LB	Public Enterprise KOMUNALEC Bitola	The former Yugoslav Republic of Macedonia
PP2	Waste Management of Western Macedonia DIADYMA SA	Greece
PP3	Public Enterprise for communal works KOMUNALNA HIGIENA Novaci	The former Yugoslav Republic of Macedonia
PP4	INNOPOLIS - Centre for Innovation and Culture	Greece
PP5	Movement for Environment MOLIKA DOM Bitola	The former Yugoslav Republic of Macedonia
PP6	NTUA (National Technical University in Athens)	Greece

Actions

Greek area partners' actions

By June 2020 the match-making of the offer and demand of different bio-waste streams and point out where significant bio waste request could be covered by cross sectoral bio waste in Greek target area was completed. Moreover, a study on the economic benefits to the regional economies in CBC area, result of Symbiosis platform operation was made. Also in the current period all the partners helped in order to train the local stakeholders for the use of the platform (<https://symbiosisproject.eu/e-learning-course-for-the-use-of-platform/>). An Action Plan for the integration of Symbiosis networks to the regional strategies was

developed and a report on the national policies on Waste Management and the current level of their implementation in regional level. In the report the poor results in biowaste treatment and recycling were explained. Furthermore, a pilot implementation of the composting unit for 6 months and its report of the operation is completed. Furthermore, helpful articles were published in order to communicate information to local stakeholders and public, in the dissemination hub of the official website and in all social media of the project in the following links:

<https://www.facebook.com/Symbiosis-Project-361545404478162>

<https://symbiosisproject.eu/category/articles/>

<https://twitter.com/symbiosisproje1>

Also, the 6th and 7th newspaper were published

6th→[https://us18.campaign-archive.com/?u=40f91692fb642e20fba644086&id=6779789426,](https://us18.campaign-archive.com/?u=40f91692fb642e20fba644086&id=6779789426)

7th→<https://us18.campaign-archive.com/?u=40f91692fb642e20fba644086&id=9a3d77704e>

Republic of North Macedonia area partners

Training local stakeholders to use Symbiosis platform. The purpose of the training is a presentation of Symbiosis Platform and recruiting new members (users) among the project target group and training them for the use of the platform. Communication and campaign material (<https://symbiosisproject.eu/communication-and-campaign-material/>). 4th Project meeting organized online due to COVID-19. Dissemination material was published (<https://symbiosisproject.eu/dissemination-material/>)

Final conference to present project results and achievements, as well as partners' dissemination will be held at the end of the project.