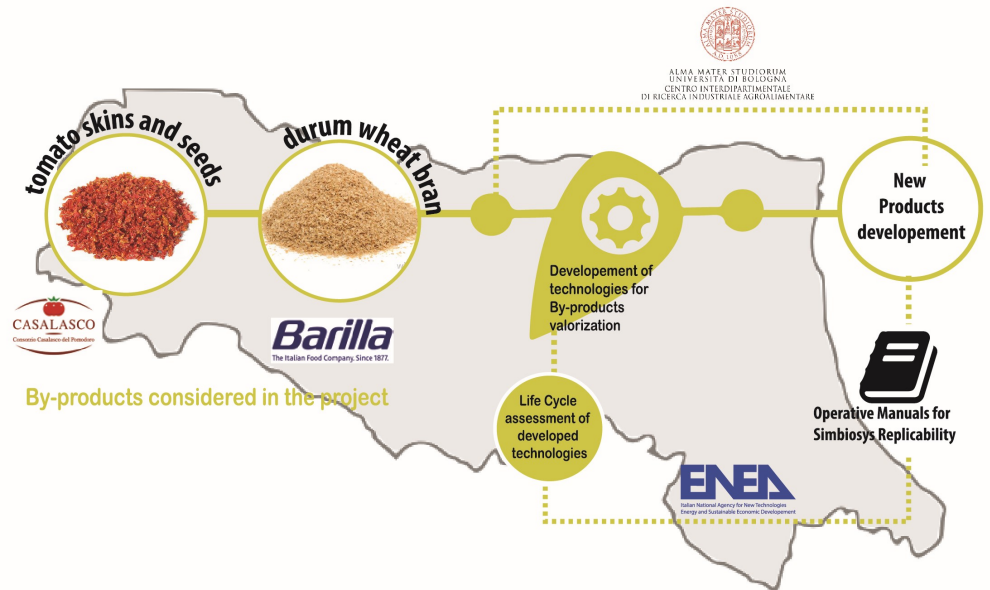


THE FOOD CROSSING DISTRICT PROJECT: INDUSTRIAL SYMBIOSIS FOR THE AGRIFOOD SECTOR IN THE EMILIA-ROMAGNA REGION IN ITALY

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Food Crossing District project aims to detect technological and system solutions that can help activating symbiosis paths among regional enterprises in order to valorise by-products and waste, and obtain new products using low environmental impact technologies.

- 1 The project particularly focuses on selected typologies of **agrifood by-products**, such as tomato skins and seeds, and durum wheat bran, coming from two industrial chains that are well developed in Emilia-Romagna and have a great strategic relevance at national level.
- 2 Study and development of **new products** using low environmental impact technologies.
- 3 Development of **Operative manuals** for the realization of individuated symbiosis paths as a support to companies.
- 4 **Mapping of strategic companies related to the project** to understand the symbiosis paths potentials in the Region in terms of economic and environmental opportunities and feasibility.



The project will end by March 2018 and gathers two different industrial research labs: the University of Bologna - Interdepartmental Centre for Industrial Agrifood Research (CIRI AGRO), whose expertise is focused on agrifood products and processes and ENEA- Italian National Agency for New Technologies Energy and Sustainable Economic Development - Laboratory for the Environment, whose expertise is focused on industrial symbiosis and environmental impact evaluation, mainly through Life Cycle Assessment. The labs work in synergy with two important agrifood companies of the Emilia-Romagna territory, Consorzio Casalasco del Pomodoro and Barilla. This collaboration is aimed at detecting solutions for the valorisation of some by-products.

Activities

Ica



Mapping of strategic companies related to the project

Operative manuals



Industrial simbyosis platform

The platform is the tool for supporting territorial analysis and to exploit the replicability potential of the method. The platform is available on line and can be used by companies to upload information about their by-products, which could be shared with others companies, and their requests for resources, which could be fulfilled with by-products of other industries. The platform also allows its administrators to highlight potentials for interactions on the territory which are not explored yet, also in relation to new technologies and inter sectoral collaborations.



The symbiosis platform, which is now being updated, wants to extend and improve functions and stability of the existing ENEA platform which is available on-line at www.simbiosiindustriale.it

The objective of the platform is to create a network of users who can geo-localize their activity, upload their resources (input/output) in the database and detect symbiosis paths by using this information. The current development activity aims in particular to improve the usability of the tool and wants to enhance some functions related to the management and implementation of the database. It also aims to further elaborate the input/output relation tables with the objective to detect the symbiosis synergies.