



Co-funded by the
Erasmus+ Programme
of the European Union

beeB Project

Foster for beekeeping bridges through innovative and participative training



Proj No: 2019-1-PT01-KA202-60782

beeB - Foster for beekeeping bridges through innovative and participative training

beeB partners



About beeB

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The “**beeB - Foster for beekeeping bridges through innovative and participative training**” project is focused to develop tools that will allow family beekeepers or any other non-professional beekeepers, to acquire skills in this area by using innovative and adaptive forms of training that are based on ecological and good beekeeping practices.

Thus, it is intended to provide family beekeepers with training, which often does not exist or is scarce and encourage new publics, especially women and unemployed from mainly rural areas, to practice this activity.

The project, co-funded by the Erasmus + Programme of the European Union, is intended to meet the training needs of each beekeeper, using innovative, attractive and adaptive methodologies that can be used at workplace.

Objectives

- 01** To contribute for the acquisition and development of **basic skills and key competences in smart beekeeping**, based on continuing vocational training, in order to facilitate the process of innovation, economic growth and social cohesion, through education, training and personal development.
- 02** To **reduce disparities in the access to and engagement of groups with less opportunities**, like family and women beekeepers, and unemployed people in rural areas.
- 03** To **develop tools** that will allow family beekeepers, or any other non-professional beekeepers, to **acquire skills** in ecological and good beekeeping practices using innovative and adaptive forms of training.
- 04** **Encourage new publics, especially women and unemployed** from mainly rural areas, to practice and initiate a beekeeping activity.
- 05** **Disseminate knowledge and values associated with the world of bees** and its wonders, raising a general interest that might contribute to value the beekeeping sector and to stimulate innovative beekeeping pathways.

Target Groups



BEEKEEPING
TECHNICIANS



FAMILY
BEEKEEPERS



OTHER
NON-PROFESSIONAL
BEEKEEPERS



NEW PUBLICS,
especially women
and unemployed
from mainly
rural areas



PUBLIC
IN GENERAL

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The beeB project has the support of the Erasmus + Programme of the European Union. Erasmus+ is the EU's programme to support education, training, youth and sport in Europe. The aim of Erasmus+ is to contribute to the Europe 2020 strategy for growth, jobs, social equity and inclusion, as well as the aims of ET2020, the EU's strategic framework for education and training.



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Partners

Six partners from six European Countries will carry out this project: 2 universities of Portugal and Estonia, 2 associations of Norway and Italy and 2 enterprises of Spain and Croatia.

Instituto Politécnico de Viseu - Polytechnic of Viseu. **Portugal.**

The Polytechnic of Viseu (IPV) is a public higher education institution with 5 schools, 400 teachers and around 6500 learners. IPV provides a diverse range of high level training, expressed in different levels of higher education from ISCED 4 to ISCED 7, in the areas of teacher training, media studies, cultural studies, sports, multimedia, engineering, management, marketing, tourism, agrarian sciences and nursing, and supports its activities in numerous partnerships and projects. It is the leader partner of beeB project.

Eesti Maaülikool - Estonian University of Life Sciences. **Estonia.**

Estonian University of Life Sciences (EMÜ) is a public university, established in 1951. It is the centre of research and development in the fields of agriculture, forestry, animal science, veterinary science, rural life and economy, food science and environmentally-friendly technologies in Estonia.

Norges Biokterlag Forening - Norwegian Beekeepers Association. **Norway.**

The Norwegian Beekeepers Association (NBA) was founded in 1884 as the professional organization working for better terms for beekeepers in Norway. NBA has 4 200 members organized in more than 100 local entities.

Estrategia y Organización SA - Strategy and Organization, SA. **Spain.**

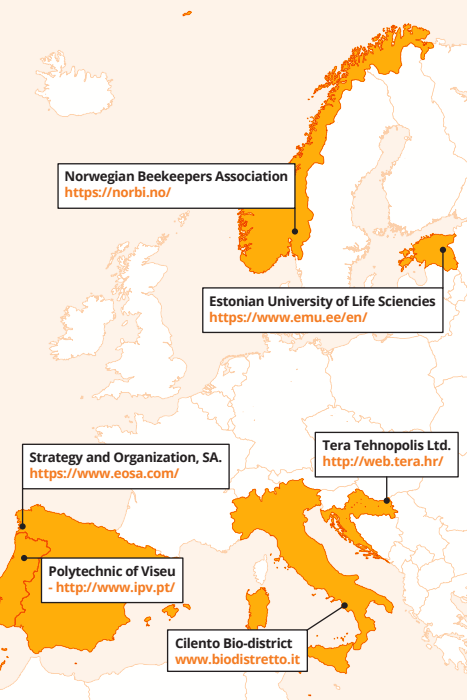
Strategy and Organization, SA (EOSA) is a consulting company established in 1993 and specialising in the area of consultancy and training, aimed at both public administrations and private entities.

Bio - Distretto Cilento - Cilento Bio-district. **Italy.**

Cilento Bio-district was constituted in 2004 and represents the first bio-district in Europe: territory that act according the principles and methods of the organic production and consumption, which become drivers of sustainable development, adopting an integrated approach and active participation of the different territorial actors.

Tera Tehnopolis Ltd. **Croatia.**

TERA Tehnopolis Ltd. (TERA) is a joint-venture of the Josip Juraj Strossmayer University of Osijek, the City of Osijek and the Osijek-Baranja County. TERA experts assist entrepreneurs in practicing their knowledge and skills for effective management and they provide



Results of beeB project

Results of beeB project

07 INTELLECTUAL OUTPUTS

The project beeB is based on the development of **7 intellectual outputs, 5 training events and 6 multiplier events** dedicated to technicians, beekeepers and the general public. They will be carried out until March 2022.



A: MOOC Course Curriculum in Beekeeping

The MOOC course allows a personalized learning pathway adapted to trainees learning rhythm based on its previous knowledge, interests and needs and to the reality of beekeeping in different contexts and regions. The MOOC course will grant a qualification/certification at national and European level.



B. Collaborative b-Learning HUB for beekeeping with innovation and knowledge

A technical structure and the virtual environment of Collaborative b-Learning will be assembled to support the components from the next working-steps and through which trainees can select the contents and create their personal learning itineraries (adaptive learning) and share experiences and knowledge - crowdlearning.



C. Infographic and pills of knowledge ensemble of organic and good beekeeping practices

A set of micro and adaptative learning will be organized, using Infographic and pills of knowledge, that will materialize the MOOC course, structured in small contents adapted to the needs of the participants, allowing to create personalized learning itineraries and enabling "instant learning".



D. Bee health field tool

A specific tool that can be easily used in the field by all beekeepers, independent of their background, using an innovative learning strategy - gamification – that provides an effective, informal learning environment, and helps learners practice real-life situations to assess and manage the beehive in the most and actual technical constraint in beekeeping, which are the technical features related with bee diseases and nutrition.



E. Cross visiting training guide

This result of the project will allow to structure the presential component of training, in a familiar training ecosystem – the apiary environment of a fellow beekeeper. A guide for the training steps and for the learning outcomes assessment will be delivered.



F. Bee roadmaps for citizens

In order to stimulate innovation pathways among beekeepers, and pursuing an increasing interest of consumers and the general public, a Storytelling approach will be implemented and organized as a communicative tool in order to teach knowledge and values associated with the world of bees and raise a more general interest, which are fundamental assets that might contribute to value the beekeeping sector.



G. Building new ideas for beekeeping using spirals of innovation

beeB project will stimulate entrepreneurship in the beekeeping sector on the target group using spirals of innovation as methodology aiming to prepare them to establish or broaden their business. Materials and training guidance will be delivered to implement this methodology and similar ones.

05 TRAINING EVENTS

Five Training events will be contemplated where the intellectual outputs would be tested in the partner's countries:



Bee Diseases and Good Practices of Control - Use of gamification to assess and manage the beehive in Estonia.



Innovation in beekeeping - New techniques, new products in Norway.



Building new ideas for beekeeping using spirals of innovation in Croatia.



Training for beekeeping valorization using the Cross-visiting method in Italy.



Design Bee roadmaps for citizens - the wonders of bee life and products as tools to promote a new business in Spain.

06 MULTIPLIER EVENT

Six multiplier events will be celebrated in the context of beekeeping, one in each partner's country:



Organic and good beekeeping practices in EcoRegions (Italy)



Designing pathways for innovation in beekeeping (Norway)



Building bridges between citizens and beekeepers as a mean to protect bees (Croatia)



Bees and pollinators - better practices, better environment, better health. (Estonia)



Ideation for training in beekeeping with innovation and knowledge (Spain)



beeB - Foster for beekeeping bridges through innovative and participative training (Portugal)



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