

## APPEN.BIO: Food for health from Appennino

### Riferimenti

Tipo di progetto

Gruppo Operativo

Acronimo

APPEN.BIO

Tematica

Agricoltura biologica

Information

Time frame

2016 - 2019

Durata

36 months

Partners (no.)

6

Regione

Emilia-Romagna

Comparto

Multifiliera

Localizzazione

ITH55 - Bologna

Costo totale

€370.137,94

Fonte di finanziamento principale

Programma di sviluppo rurale

Programma di sviluppo rurale

2014IT06RDRP003: Italy - Rural Development

Programme (Regional) - Emilia Romagna

Parole chiave

Food quality / processing and nutrition

Sito web

<http://www.appenbio.eu/>

Project status

completed



### Objectives

This project aims to raise farms revenue-generating in the Bologna Appennines and to enhance these countries for their potential in producing healthy products, in order to reduce the growing landslide risk and agricultural land use due to the abandonment of an activity unprofitable. Firstly, the project wants to find varieties, cultivars and farming techniques to comply, not only with nutrition needs but, above all, with healthy needs. Secondly, all that will be made defining a balanced and consistent business model that can be spread on a large scale.

### Activities

1. Research for the development of the plan (Market research, Feasibility study, Business plan).
2. Context analysis for milk and cereals: Breeding evolution of cereals (wheat tender and spelt) and assessment of milk product from hay and cereals, qualitative difference and processing of by-products.
3. Experimentation (done on farms involved in the Plan and participating in the GO): field analysis and analysis in breeding / laboratory.
4. Harmonization of the model guidelines and drafting of the model "Appen.Bio", will contain the procedures to be followed in carrying out various activities.
5. Dissemination and transfer.
6. Training.

Partenariato

Role	Azienda	Address	Telephone	E-mail
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Partner	Dipartimento di Scienze e Tecnologie Agro- Alimentari - DISTAL   Università di Bologna	Viale Fanin 44 40127 Bologna BO Italy	051 2096240	distal.amm.dipartimento.respammgest@unibo.it
Partner	La Cartiera dei Benandanti s.s. societa' agricola	Via Idice 8 40063 Monghidoro BO Italy	051 6551498	info@lacartiera.it

#### Pratiche abstract

#### Description

Research for the development of the plan (Market research, Feasibility study, Business plan)

It involves the construction of an organizational analysis to optimize flows of goods and information and to plan the organizational and logistics; specifically it involves the construction of a study to assess the feasibility of transferring the results of the Plan to agricultural companies involved and their impact on the market.

It therefore acts in a preliminary stage (ex-ante) and subsequently in two moments (in progress) by assigning the evaluation

a key role in the success of the subsequent actions, with the aim to include them in the project.

This feasibility study will be a cognitive tool to support the feedback related to adopting the innovation choices identified in the GO plan. Based on the study content it will be possible to make a first technical assessment of implementation of the involved structures from an organization-management point of view.

At the conclusion of the analysis, the feasibility study allows you to:

- Have a "snapshot" of clear institutional and functional characteristics of the stakeholders;
- focus of attention points on which to ponder the choice;
- have a comprehensive description of evaluation criteria of a technical nature which, along with other elements of opportunity and feasibility of an economic and commercial nature, supports the decisions to be taken.

#### Description

##### ANALYSIS OF THE CONTEXT OF CEREAL AND MILK

The action includes the following activities:

- Evolutionary Breeding of cereals (wheat and barley): development / definition of "innovative mixtures" (evolutionary populations) obtained by the union of different genotypes of the same crop, which due to their high variability characteristics, have the potential to adapt to climate and soil cultivation (ie the Emilian Apennines). The genotypes that are most appropriate to this evolutionary improvement process are those of the ancient constitution, not subject to repeated breeding programs and then with a large genetic variability. It is also genotypes with habitus not nano, responding better to productive schemes (manuring, crop rotation) typical of organic farming.
- Evaluation of milk hay and grains, unlike the products quality and workmanship to outline:
  - the production characteristics of the animal;
  - the production characteristics of the foods / food.

It is expected, finally, the definition of guidelines for the production of milk from mountain pasture and for its transformation in its first derivatives (yoghurt). Wanting to "point" to the production of a milk which has not negative but positive effects on human health it is necessary to identify them and see if with breeding techniques and nutrition can modulate them.

#### Description

##### EXPERIMENTAL ANALYSIS IN THE FIELD AND ANALYSIS IN TRAINING / LABORATORY

The trial is preceded and accompanied by the formation of companies, in order to assisting them for proper implementation of the guidelines.

The experiment is made in farm involved in the plan and adhering to the GO which reflect the starting characteristics for cereal production and breeding of dairy cattle.

The action includes the following activities:

- field surveys and analyzes (cereals): During the course of the field trials, the company provides:
  - The collection of meteorological data in order to correlate the principal production parameters with the factors of the environment;
  - To the relief of the various phenological stages of the crop material. These data will be used to assess the evolution and dynamics of the various degrees of ripening varietal mixtures;
  - The compilation of a logbook in which they will be marked with all the agronomic solutions adopted during the different stages of farming organically: tillage, fertilization, methods and techniques of planting, fertilizing, any of the plant disease control treatments, timing and mode collection.
- field surveys and analysis (dairy sector): In the farms affected by the action of development of the model object of this project is to create breeding conditions which respect the complex ethology of the dairy cow. In addition, it is assumed to check what race was chosen to produce milk as the Friesian little is suitable for breeding and feeding techniques "traditional."

#### Description

##### HARMONIZATION OF THE GUIDELINES AND ESTABLISHMENT OF THE MODEL "APPEN.BIO"

The model will contain the procedures to be followed in carrying out various activities.

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**Description****PLAN DISCLOSURE OF TRANSFER OF RESULTS AND IMPLEMENTATION OF NETWORK PEI**

The dissemination and transfer activities will aim to bridge the traditional gap between the results of scientific research and in translating them into innovative agricultural practices.

This action is to ensure the widest possible dissemination of the project. The dissemination strategy has the greatest impact in the community and gives visibility to the project both inside and outside of the GO. To this end, it plans to organize specific events (seminars and popular conference) for a composite public (local authorities, companies, associations) and sought the most significant contacts in business and public field. Among the dissemination tools it envisages the use of informative material. The network will also be used as a communication channel.

Locally, however, the spread of such practices among farmers and breeders of the Apennines is made, moreover, from marketing channels to raise awareness of these new productions. main target groups are the neighbors and direct markets to be created, the enhancement of sites along the different Apennine valleys better prepared to represent products and different manufacturers, canteens of schools and hospitals, identifying in children the first recipients of these foods, the store delivery direct to consumers, up to an enhancement in their points of modern distribution.

**Description****TRAINING ACTIVITIES**

The training activities are designed to farms involved in the project, located in rural areas with development problems, and provide two different training proposals:

- "Techniques of cultivation of wheat and spelled in the 'Bologna Apennine for the production of flour with high health value": the transfer aims at defining a replicable model in other companies of the Apennines, thanks to which it will be possible to produce wheatflour tender and spelled with excellent quality and healthful features. Transfer and contextualization of the path also leads to the growth of human capital and provides an availability of more information. The production obtained in this way bring a direct benefit to farmers in terms of increased market share and achieved potential customers.
- "Techniques of dairy cattle breeding in the Apennines of Bologna for the production of organic milk with high nutritional health value": the transfer aims at defining a replicable model in other companies of the Apennines, thanks to which it will be possible to produce a milk with excellent quality and healthful features.

The companies in question also can: increase their image and reputation; strengthen business strategy, expand and qualify its product portfolio; increase the company's turnover; use the commodity diversity of its production, as a tool to generate market niches; improve their reputation rooted in the territory enterprise; improve relations with customers and withconsumers

**Link utili**

<b>Titolo/Descrizione</b>	<b>Url</b>	<b>Tipologia</b>
Sito web del progetto	<a href="http://www.appenbio.eu/">http://www.appenbio.eu/</a>	Sito web