

## Livestock Smart Farming

### Riferimenti

Tipo di progetto

Gruppo Operativo

Acronimo

LIV.ING

Tematica

Benessere animale

Information

Time frame

2018 - 2020

Durata

26 months

Partners (no.)

28

Regione

Umbria

Comparto

Zootecnia - bovini/bufalini

Localizzazione

ITI21 - Perugia

ITI22 - Terni

Costo totale

€688.184,34

Fonte di finanziamento principale

Programma di sviluppo rurale

Programma di sviluppo rurale

2014IT06RDRP012: Italy - Rural Development

Programme (Regional) - Umbria

Parole chiave

Animal husbandry and welfare

Sito web

<http://www.umbriasmartfarming.it/>

Project status

completed



### Objectives

The main goal is the development of an innovative model of producing, collecting and data processing, to integrate data from activities of several farms involved and to collect data from main livestock production chains in Umbria. The computer platform will work as a data collector from different sources and it will process data to provide breeders with real-time operating lists and indexes on animal welfare, health status, drug management and livestock management, to assess the economic and environmental efficiency of company, the reduction of using drug and the products improvement.

### Activities

Development and search for new indexes to support the available ones about: animal welfare, animal health, business management, productivity, quality products, economic and environmental aspects. Testing of operating protocols to collect data. Creating new management protocols for different production chains. Implementation and prototyping of new data collection systems in companies that take part in the project. Development of the computer platform for data collecting and processing. Training of the breeders involved. Dissemination of the results. Creating and testing of a process certification system.

### Context

A reduction in the number of breeding farms and an increase in the average number of animals has been in Umbria and in Italy during the last decades. This shows that animal husbandry is developing to a new business model that has to take on new challenges, first of all the conservation of consumers trust, put to the test by negative events (BSE, Dioxin, Residuals, etc.) and by attention to breeding conditions. Animal husbandry is encouraged to adopt more respectful production models for animal welfare.

Lack of transparency about this argument risks to compromise the trust between producers and consumers. New breeding models and operating protocols should be developed to respect animal welfare and they should be connected to divulgation systems, highlighting adopted actions in the main production chains. In addition, animal welfare should be understood in a broader sense, as optimal conditions of livestock management, correct animal nutrition and optimal healthy and productive conditions. Animal welfare becomes an essential element for the production sustainability and, indirectly, for reduction or better usage of veterinary drug. This element, in turn, produces further positive effects on breeding farms (reduction of production costs), on environment (reduction of environmental impact of animal manure) and on public health (reduction of risks of residues in foodstuffs and control of antibiotic resistance).

## Partenariato

Role	Azienda	Address	Telephone	E-mail
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#### Pratiche abstract

##### Description

The development of an innovative model of producing, collecting and data processing on the main livestock production chains in Umbria, to create indexes about animal welfare, environmental impact, productivity and food safety in an Umbria livestock farms sample. In particular: development and research of new indexes to assess animal welfare, management, productivity and environmental impact; trial of operative protocols to improve animal welfare; development of optimal

management models on each production chain; collecting data about environmental aspects, property and use of zootechnical waste, management and characteristics of animal feed ration; establishment of knowledge to improve productivity and reproductivity of livestock farms; development of technical, economical and environmental indexes to assess business efficiency; development of a computer platform to manage information from productive processes; identification of methods to enhance zootechnical products. This project is very important to encourage the management improvement and business competitiveness. The possibility of certifying the product, also in terms of productive process to defend animal welfare, to reduce drug use and to guarantee transparency of productive cycle, can be a tool to support short-term decisions, but also long-term strategies and to improve the competitiveness of whole production chain.

### Link utili

Titolo/Descrizione	Url	Tipologia
Sito web del progetto	<a href="http://www.umbriasmartfarming.it/">http://www.umbriasmartfarming.it/</a>	Sito web
Pagina sul sito PIU Umbria	<a href="https://www.piumbria.com/progetto3a/lifestock-smart-farming/">https://www.piumbria.com/progetto3a/lifestock-smart-farming/</a>	Link ad altri siti che ospitano informazioni del progetto