

WHEN SPACE MEETS AGRICULTURE

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The support of RDP of Basilicata Region 2014-2020 for agriculture innovation: tools, resources, opportunities for enterprises and research networks.

ROCCO VITTORIO RESTAINO
BASILICATA 2014-2020 RURAL DEVELOPMENT PROGRAM
EFEARD MANAGEMENT AUTHORITY



in collaboration with



and the support of





THE GENERAL CONTEST IN THE REGION OF BASILICATA:

Smart agriculture has a great potential for local development.
The public services and the tools available in the region, managed by Alsia.

Servizio Agrometeorologico Lucano

Basilicata Agroweather Service : 40 agroweather stations are distributed on the territory to collect data (temperature, air, soil, humidity, wind directions) providing advices to farmers via SMS, web site, social.

Servizio di Difesa Integrata (SeDI)

Pest Management Integrated Service: Network of plant disease monitoring with collection, processing and dissemination of data, and a system of Forecasting and Warning (FitoSPA) for pests and parasites based on the use of predictive models.

Servizio Irriframe

Irriframe service: Decision Support System (DSS) for irrigation management, based on the water balance on soil / plant / atmosphere data and on the cost effectiveness of the irrigation.



Public research networks involved in precision farming services:

University of Basilicata, (UNIBAS), CNR (Research National Centre) - IMAA, Italian Space Agency (ASI), ALSIA-AGROBIOS.

Inter-University Centre for Precision Agriculture (CIRAP) c/o School of Agricultural Sciences, Forestry, Food and Environment

A collaboration initiative between UNIBAS and University of Padua for research and dissemination of the results obtained in the field of applied research and precision agriculture and for the coordination of initiatives, projects and research in this area.

OTHER PRIVATE and PUBLIC ENTERPRISES

CREATECH Consortium, which brings together 20 SMEs Lucan (13 in the province of Potenza and 7 the province of Matera), specialized in Industrial Research and Development of Innovative Services

The Technological District TeRN, consortium of SME that promotes the development and integration of different technologies of Earth observation for the prevention and mitigation of natural hazards, particularly with regard to climate risks, hydrogeological and seismic.



CLUSTERS

The Aerospace Cluster (CLAS) which brings together actors with the industrial component linked to the development of systems and equipment for aerospace, including the production of engines and drones.

The Bioeconomy Cluster (CLB) which has technologies and platforms in the agronomic and biotechnology sector that can support the development of Precision Agriculture applications.

BASILICATA REGION HAS BOTH PUBLIC AND PRIVATE EXCELLENT RESOURCES TO COMPETE IN THE IN THE AGROTECH MARKET.



WHAT CAN BE DONE IN THE INTENSIVE AGRICULTURE SECTOR AND IN THE INTERNAL AREA

Intensive Agriculture Areas

Development of applications for the improvement of **sustainability** (rational use of water resources, fertilizers, plant protection, etc.) and quality of **the fruit and vegetable species, for example strawberries.**

The irrigation sector, in particular in the field of **horticulture**, highlights the need of innovation in the **rationalization of water resources**, along with nutrient and pesticide treatments.

End users: production organizations

Internal Areas







Development of protocols and tools for agriculture organizations for the optimization of water use and fertilizers based on a combination of technologies such as: high-resolution electrical mapping of the soil, hyperspectral radiometry, proximal sensing, and dynamic modeling.

Development of applications for improving the **sustainability of livestock activities** with particular reference to the use of **sludge in agriculture.**

End users: livestock farms, Regional Breeders Association

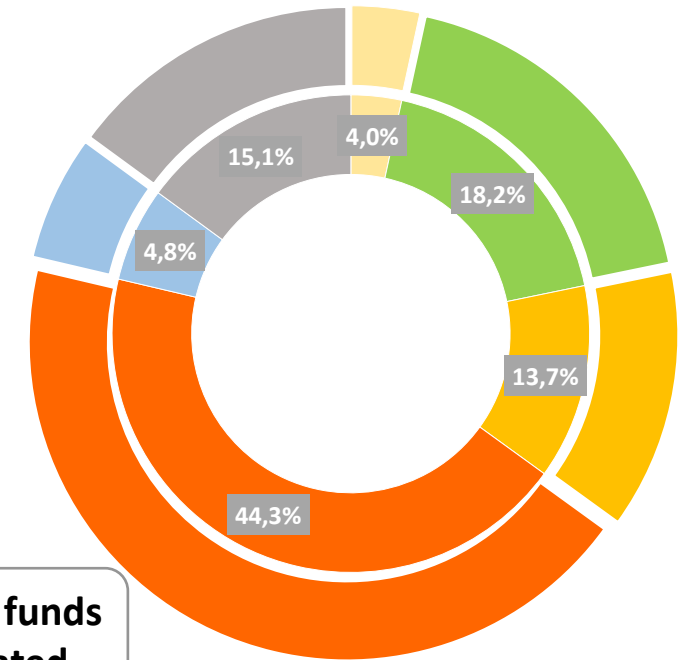


THE REGIONAL STRATEGY FOR RURAL DEVELOPMENT : A BRIEF OVERVIEW

	€ 127.4 mln	P 2: Competitiveness
	€ 93.1 mln	P 3: Food chain organization
	€ 301.4 mln	P: Ecosystem
	€ 32.3 mln	P 5: Resource efficiency and climate
	€ 102.9 mln	P 6: Social inculsion
	€ 23.3 mln	Technical Assistance

P 1: Knowledge transfer is a cross cutting priority

- 6 PRIORITIES
- 16 FOCUS AREAS
- 16 MEASURES
- 54 OPERATIONS



10% of funds allocated

680,2 M€

The chief environmental challenges in Basilicata relate to **soil erosion, water quality and biodiversity protection.**



COOPERATION

3% of funds will be allocated for Cooperation (Measure 16) € 20.247.933

We have launched 3 calls for proposals for **Cooperation (M.16.0-16.1 16.2)** in order to stimulate the birth of **Operational Groups** with the aim to consolidate the network of regional expertise and transfer this potential in terms of innovation, to the territory and to the agri-business system.

Number of GO expected: **7 (Rete Rurale)**

The region is planning to launch **100** co-operation project.



WHAT CAN BE DONE:

Development of a **Smart Farm Infrastructure for services** to experiment innovations in collaboration with public and private partners and to facilitate start ups and app development.

EU Multi-funds approach to get financial resources.

EAFRD can support the production and Precision Farming Applications and the creation of Decision Support Systems to assist the farm management and the impact assessment.

Proposal for GO in **Agrotech** are expected that will bring together research organizations involved in the Precision Farming Agriculture, the ICT, aerospace and Telco companies with are relevant stakeholders.



MANY THANKS!

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