Biodiversity and Sustainable Precision Agriculture in Sannio

Riferimenti
Tipo di progetto
Gruppo Operativo

Acronimo
Bio.Gran.Sannio

Tematica
Agricoltura di precisione

Information
Time frame
2019 - 2022

Durata
36 months

Partners (no.)
20

Regione
Campania

Comparto
Cerealicoltura

Localizzazione
ITF32 - Benevento

Costo totale
€345.439,15

Fonte di finanziamento principale
Programma di sviluppo rurale

Programma di sviluppo rurale
2014IT06RDRP019: Italy - Rural Development Programme (Regional) - Campania

Parole chiave
Supply chain, marketing and consumption
Biodiversity and nature management
Agricultural production system

Sito web
https://www.biogransannio.it/

Project status
completed

Objectives
Preservation of cereal biodiversity through sustainable precision production processes;
Production of semolina and flour with important nutritional and nutraceutical properties.

Activities
- Genetic characterization of cultivars and development of the traceability model;
- Introduction of precision cereal farming models and diffusion of innovative techniques (vertical seeding on semisode);
- Introduction of precision agriculture and soil fertility conservation techniques with cover crops through innovative mechanization;
- Monitoring of production performance and health conditions (Phytopathies);
- Introduction of the most suitable raw material storage and milling techniques to reduce mycotic contamination;
- Molecular evaluation of kernels, flours and semolina;
- Disclosure.

Context
Benevento has about 60,000 hectares of arable land, of which around 36,000 (Istat data 2010) are cultivated with wheat and maize grains. Fortore Beneventano, Alto Tammaro and part of Titerno are among the most suitable territories in the province.
The growing demand for traditional and healthy products and the need to preserve genetic diversity are among the main reasons for the renewed attention towards the historical species and varieties of cereals. In recent years, in fact, interest has grown for the flour and groats of wheat and corn which have represented the main sources of human and animal nutrition in

recent centuries. The varieties of wheat and corn considered by us favor the adoption of low or zero impact cultivation models from which the improvement of environmental conditions and the greater healthiness and food safety of the production arise.
This confirms the importance of safeguarding their genetic heritage, in contrast with contemporary agriculture and the advent of genetically improved and / or modified cereals; manipulations that led to an imposing genetic erosion, the reduction of the nutraceutical quality of the products, the diffusion of production processes with a high environmental impact and the fall in grain prices.
Based on these considerations, it is considered appropriate and necessary to reintroduce genotypes that represent the history and cereal specificity of the Samnite production area, also in order to direct the sector towards productions on the one hand that are more responsive to the needs of the consumer. from the links of a market that is no longer profitable and unsustainable for agricultural entrepreneurs.

Partenariato

Role	Azienda	Address	Telephone	E-mail
Leader	Agricoltura è Vita Campania	Via delle Puglie 34 82100 Benevento BN Italy	0824481623	info@agricolturavitacampania.it
Partner	Università degli studi del Sannio di Benevento	Piazza Guerrazzi n. 1 82100 Benevento BN Italy	3317855181	varricchio@unisannio.it
Partner	GENUS BIOTECH Società a Responsabilità Limitata Semplificata	via Cesare Beccaria n. 28 82100 Benevento BN Italy	3899385896	vito@unisannio.it
Partner	Istituto Zooprofilattico Sperimentale del Mezzogiorno	Via Salute, 2 80055 Portici NA Italy	0817865111	federico.capuano@izsmportici.it
Partner	Associazione presepe nel presepe	via Luciano Paolucci n. 11 82026 Morcone BN Italy	3492820499	info@presepenelpresepe.org

Role	Azienda	Address	Telephone	E-mail
Partner	Azienda Agricola Agostinelli Liana	Contrada Campanaro n. 2, 82018 San Bartolomeo in Galdo BN Italy	3293138774	
Partner	Azienda Agricola Albanese Lucia	via Macchiarelle n. 1 San Nazzaro BN Italy	0824330049	
Partner	Molini Pilla S.r.l.	via Flora 31 82100 Benevento BN Italy	0824481623	
Partner	Azienda Agricola Tedesco Anna Maria	Contrada Tolli n. 6 Colle Sannita BN Italy	3401476669	
Partner	Azienda Agricola Tufo Alessandro	Località Cupazzo n. 11 82021 Apice BN Italy	0824481623	
Partner	Azienda Agricola Manzo Paola	via Raffaele Paganini s.c. 83030 Savignano Irpino AV Italy	0824481623	
Partner	Azienda Agricola D'Imperio Rina	Borgo Casalotto n. 58 82025 Montefalcone di Valfortore BN Italy	3470019058	
Partner	Masseria Roberti di Leonardo Roberti	Contrada Miscano n. 2/A 82022 Castelfranco in Miscano BN Italy	3298589445	
Partner	Agriturismo di Fiore di Mobilia Erica	c.da Coste snc 82026 Morcone BN Italy	3296317707	

Role	Azienda	Address	Telephone	E-mail
Partner	Azienda Agricola Micco Antonio	Contrada Cancelleria n. 56 82100 Benevento BN Italy	0824481623	
Partner	Azienda Agricola Martino Bernardino Gerardo	Contrada Piana n. 262 82026 Morcone BN Italy	0824957033	info@mastrofrancesco.it
Partner	La Rufesa Società Agricola Semplice	via Benevento n. 29 82025 Montefalcone di Val Fortore BN Italy	3339039919	
Partner	Azienda Agricola Le Camarelle S.a.s. di Barricelli Pasquale & C.	via Odofredo n. 17 82100 Benevento BN Italy	0824481623	
Partner	Lentamente Società Cooperativa Agricola	via Fabbricata n. 48 82030 Torrecuso BN Italy	3494229003	
Partner	La Zolfatara Società Agricola Semplice	Contrada Zolfatara n. 2 82028 San Bartolomeo in Galdo BN Italy	3472306505	

Pratice abstract

Description
Development of conservative agronomic practices of the soil resource and cereal biodiversity;

Development of traceability models of the raw material through the identification of molecular markers;

Development of "best pratics" production processes aimed at ensuring low input and easily adopted sustainability.

Development of new cereal storage methods for the reduction of fungal agents and / or other contaminants.

Results
Expected results:

- Production of flours and semolina of high functional and nutritional quality;
- Safeguard and increase of traditional production "cereal biodiversity";
- Implementation of organic farming schemes;
- Creation of strong territorial link chains;

- Development of rapid methods for the traceability of semolina and flour;
- Limitation of plant diseases and elimination of food risks from microbial metabolites dangerous for human health, REG / CE 1881/06 and subsequent;
- Improvement of the environmental condition and restoration with minimal energy inputs of the optimal structural conditions and soil fertility.

Link utili

Titolo/Descrizione	Url	Tipologia
Sito web del progetto	https://www.biogransannio.it/	Sito web