Innovazione e trasferimento lungo la filiera olivo-olio per sostenibilità e qualità dei processi e dei prodotti

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Innovation and transfer in the olive oil sector for sustainability and quality of processes and products

Riferimenti Tipo di progetto Gruppo Operativo

Acronimo Inno_Olivo&Olio

Tematica Filiere agroalimentari

Information Time frame 2018 - 2020

Durata 24 months

Partners (no.) 10

Regione Basilicata

Comparto Olivicoltura

Localizzazione ITF51 - Potenza ITF52 - Matera

Costo totale €259.870,00

Fonte di finanziamento principale Programma di sviluppo rurale

Programma di sviluppo rurale 2014IT06RDRP017: Italy - Rural Development Programme (Regional) - Basilicata

Parole chiave

Climate and climate change Food quality / processing and nutrition Agricultural production system

Sito web vita/INNO-OLIVOOLIO-Olivicoltura/

Project status completed



Objectives

In the new rural development program, there is a need to act on the advances to improve the competitiveness of olive cultivation through the adoption and development of innovative olive oil models that reduce production costs, giving new impetus to the use of new cultivars (also recovering and improving existing ones) and leading to the rise of the quantitative character of the product.

The project intends to apply innovations to:

- reduce field production costs;

- reducing the environmental impacts of cultivation in the field, of the processing into a crusher;

- increase the quality standards of products (olives and oil);
- increase the production of olives per hectare.

Activities

Quality research will begin with field innovations with the application of DSS to facilitate the various cultivation operations and plant protection until the mill is reached (grinding and pressing).

Product bottle conservation should be improved to maintain the organoleptic properties and typical smell of the oil over a period of 18 months.

Lastly, a scouting activity will be set for the mill's wastewater management innovations to identify and therefore address a problem and, if possible,

https://www.alsia.it/opencms/opencms/Temi/atti increase the competitiveness of the practice with respect to current management.

Context

Lucan olive cultivation is largely based on traditional olive groves characterized by high production costs, poor productivity, marked production alternation, and difficult adaptation to mechanization. These





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olive groves are maintained and preserved in the future not only for reasons of preservation of the local heritage, but also for cultural and landscaping purposes and for the rule of the land, above all hilly. The problems of traditional olive groves can be attenuated and partly solved using the knowledge available today that allows rationalization of grass (breeding, pruning), soil, fertility and water resources management.

The need to "communicate" and promote Italian excellence oils is a longlasting goal that continues to be very important, but the work team stresses how important it is to make the consumer and the various potential users aware of the value Of oil other than the extra virgin, as a profitable source for the Italian areas rich in secular olive trees, and the potential for market outlets for by-products, even for energy use.

With the growing interest in food security issues (from the nineties), Community industry legislation has attempted to identify tools and methods to ensure the consumer with regard to the quality and the chemical characteristics of olive oil marketed , But it has also been strongly directed towards ensuring the origin and quality of the raw material. Against this aim is also the discipline of the designation of origin, which makes it possible to identify with certainty the origin of the olives and the place of their transformation, linking to the geographical name the set of natural and human factors and the processing techniques which definitely affect the Oil characteristics.

Partenariato

Role	Azienda	Address	Telephone	E-mail
Leader	Consorzio di Tutela Olio Vùlture D.O.P.	Piazza Garibaldi 85027 Rapolla PZ Italy	097 232639	
Partner	Organizzazione di Produttori Soc.Coop. "RAPOLLA FIORENTE"	Piano di Chiesa 85027 Rapolla PZ Italy	0972 760200	info@rapollafiorente.it
Partner	Frantoio Alamprese	Via Emilia 7 85029 Venosa PZ Italy	0972 31038	info@frantoioalamprese.com
Partner	Frantoiani del Vùlture S.r.l.	Contrada Le Tufarelle 85029 Venosa PZ Italy	0972 374635	info@oliovu.com



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Role	Azienda	Address	Telephone	E-mail
Partner	Università degli Studi della Basilicata - Dipartimento delle Culture Europee e del Mediterraneo	Via Lanera 20 75100 Matera MT Italy	0835 351411	dicem@unibas.it
Partner	ENEA	Via Lungotevere Thaon di Revel, 76 00198 Roma RM Italy	06 36271	rel@enea.it
Partner	CNR - Istituto di Metodologie per l'Analisi Ambientale (Sede di Tito Scalo - Potenza)	C.da S. Loja - Zona Industriale 85050 Tito Scalo PZ Italy	0971 427111	imaa@imaa.cnr.it
Partner	CREA-AA Agricoltura e Ambiente	Via della Navicella 4 00184 Roma RM Italy	055 2492256	aa@crea.gov.it
Partner	Agreenment srl	Via Annibale Maria di Francia 75100 Matera MT Italy	328 0217350	info@agreenment.it
Partner	ALSIA – Azienda Agricola Sperimentale Dimostrativa Baderta delle Murgine di Aliano	SS.598 di Val d'Agri Km.86.5 75010 Aliano MT Italy	334 6396251	egidio.destefano@alsia.it
Partner	Azienda Agricola Strafezza	Italy		
Partner	Azienda Agricola Casella	Italy		
Partner	Soc. Agr. Fratelli Alamprese	VIA Emilia 9 85029 Venosa PZ Italy		
Partner	Azienda Agricola Curci	Italy		



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Role	Azienda	Address	Telephone	E-mail
Partner	Oliveti del Vulture	Italy		
Partner	Azienda Agricola Calabrese	Italy		
Partner	Società agricola Oleifici Masturzo	Contrada Le Tufarelle 85029 Venosa PZ Italy	0972 32639	info@oliomasturzo.it

Pratice abstract

Description

Applying Innovative Techniques for Correct and Sustainable Management. Aims:

- Transfer of innovations to increase the profitability of olive groves;

- Increase the fertility of olive groves;

- Improve product quality on the field, increasing its yield.

The activities envisaged in the OR2 will be developed on the following main lines:

- soil management, intended as the control of the weeds, humidity and fertility (nutrients and organic matter). Special attention must be paid to the erosion processes, the need of reduction of chemical inputs and the optimization of water use;

- pruning management in order to maximize production and product quality and reduce the final costs;

- nutrition management to reduce nutritional deficiencies and promote production;

- the enhancement of the environmental function of olive groves with a landscape function (certification and sequestration of CO2).

Results

Through OR2, using the results of scientific researches already available in the literature, it will be possible to educate the olive growers to manage the olive groves in sustainable manner. This includes workshops, seminars and visits to regional and extra regional pilot camps when the effectiveness of sustainable management could be ascertain.

In addition, the standard management protocols will be created to share with farmers in order to correct the existing nutrition management and improve productivity, product quality and agroecosystem services provided by olive cultivation.

Finally, the impact on the environment of the various olive management systems will be determined in order to induce the olive grower to marry sustainable farming techniques and at a low environmental cost.

Description

Applying technologies and updating oil mill processes to improve oil quality. Objectives of the A3 dedicated to the transformation phase are:

- to innovate the process of transforming olives into oil through the use of advanced machines and / or techniques;
- to control the quality of the initial product in field and to transfer it to the oil;
- to extend the continuous olive processing technique (focus on grinding and pressing);
- to achieve the highest quality standards of the oil product;
- to ensure the quality retention during the shelf life (at least 18 months).

Activities

Innovations in mechanical extraction process of virgin olive oils must be lead to the improvement of the quality and extrinsic characteristics of the oils.

Closely related to the transformation phase, the following activities will be undertaken:



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- Adoption of continuous olive processing technique and creation of closed production cycle (energy saving);

- Monitoring of product quality along the transformation chain (low cost analysis tools);

Through A3 it is expected:

- an increasing of the average quality of product on regional scale, which would lead to an increase in the price of final product (oil);

- a homologation of the productive and transformation processes to ensure the maintenance of final product quality.

- an update of olive oil processing techniques to eliminate the defects presented in traditional processes;

- an achievement of the highest quality standards for the oil products.

- an optimization of the oil packaging for better preservation and maintenance of quality.

Description

Optimization of the management for oil reflux.

The objectives of the A4 dedicated to the transformation phase are:

- To identify the innovations useful for optimizing the management of oil reflux (vegetation waters).

- To find the technical solutions for a possible recycling of oil reflux.

Activities

The A4 will soon undertake an important worldwide scouting activity for innovations in wastewater management (sewage and vegetation waters). New machines, more instrumentation efficiency, reuse or recycling potential will be identified to find a solution to the problem by providing added value to them and possibly increasing the competitiveness of the practice compared to current water spill (by reducing the legislative risks that come from inapropriate oil reflux management). Expected results

Through A4 we expect to:

- apply technological solutions for the management of oil reflux (without violating current legislation);

- solve problems with the management of oil reflux (reducing volumes, extracting useful fractions, facilitating disposal or directing products to recycling).

- to define new possibilities for disposal on agricultural land (de-calendarized).

Link utili

Titolo/Descrizione	Url	Tipologia
Sustainable agriculture in Basilicata Region	https://www.youtube.com/watch?v=MRDngSLZ7R4	Materiali utili
Sustainable agriculture in Basilicata Region	https://www.youtube.com/watch?v=xdgecEW02Ro	Materiali utili
Sustainable agriculture in Basilicata Region	https://www.youtube.com/watch?v=bNx6OBiERaw	Materiali utili
Università di Perugia (food quality)	https://www.youtube.com/watch?v=Al9C1c4wpg0	Materiali utili



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Titolo/Descrizione	Url	Tipologia
ENEA	https://www.youtube.com/watch?v=NxQd8pvqwt8	Materiali utili
OLIOVULTURE	https://www.youtube.com/watch?v=ThDjFYU-4ow	Materiali utili
Relazione scientifica conclusiva	https://www.alsia.it/opencms/export/sites/alsia/.allegati/Progetti/risultati/IN	Materiali utili

