

Grow the sustainability towards a territorial protocol

Riferimenti

Tipo di progetto

Gruppo Operativo

Acronimo

PROINOS

Tematica

Gestione aziendale

Information

Time frame

2019 - 2021

Durata

24 months

Partners (no.)

9

Regione

Veneto

Comparto

Viticultura

Localizzazione

ITH34 - Treviso

ITH35 - Venezia

Costo totale

€416.238,00

Fonte di finanziamento principale

Programma di sviluppo rurale

Programma di sviluppo rurale

2014IT06RDRP014: Italy - Rural Development

Programme (Regional) - Veneto

Parole chiave

Pest /disease control

Fertilisation and nutrients management

Supply chain, marketing and consumption

Water management

Food quality / processing and nutrition

Agricultural production system

Sito web

<https://www.proinos.it/>

Project status

completed



Objectives

The project objective is demonstrating the efficacy of vineyard cultivation approaches addressed to 'sustainability', with specific focus for 'water' resource.

The project faces 3 main technical matters related to viticulture: pest control (impact of pesticides), fertilisation (nutrient leaching), and irrigation (IrriSmart™ system). Technical solutions proposed by the project are characterized by high innovation level. Finally, the implementation of 2 certification standards are expected: VIVA and SQNPI.

Project actions include also training, mainly addressed to vine growers, and activities for disseminating the project contents.

Activities

PEST CONTROL: use of predictive models for improving the strategy of pest control, based on the analysis of meteorological data (in cooperation with OG BODI - Condifesa TVB)

FERTILIZATION: substitution of synthetic fertilizers with organic ones, use of vigour maps for regulating the spreading, introduction of green manure, selection of rootstocks resistant to drought and use of mycorrhizae

IRRIGATION: implementation of IrriSmart™ technology, based on soil moisture monitoring through sensors and use of algorithms for preparing irrigation advices

SUSTAINABILITY CERTIFICATION: implementation of Italian standards VIVA and SQNPI

Context

The project idea arises from the need of improving the environment sustainability of viticulture. Despite European and national regulations already limit the practices having significant impacts on the environment, the research of more compatible approaches is requested by consumers,

citizens and some growers that , first than others, are subjected to negative effects caused by not updated cultivation strategies.

Several technical solutions are nowadays made available by technologies and researches, avoiding to impact on the economic results of vine growing but optimizing the use of the resources. Nevertheless, growers need tangible and operative examples on the exploitation of these solutions and demonstrative poofs of their suitability. The OG PROINOS aims to implement some advanced technologies and modern technical solutions, with demonstrative purposes in order to provide growers with examples about feasibility and efficacy of that solutions. For this reason, the project also include training activities (with practical lessons on the plots where advanced solutions are implemented) and the certification of some vineyards through VIVA and SQNPI Italian standards.

Partenariato

Role	Azienda	Address	Telephone	E-mail
Leader	Cantina Sociale di Orsago	Via Pontebbana, 24A 31010 Orsago TV Italy	0438 992108	cantina.orsago@gmail.com
Partner	DESAM Ingegneria e Ambiente srl	Via Girardini, 13 31021 Mogliano Veneto TV Italy	041 5283952	info@desam.it
Partner	Università Cattolica del Sacro Cuore - Istituto di Entomologia e Patologia vegetale	Via Emilia Parmense 84 29100 Piacenza PC Italy	0523 599 245	segreteria.distas-pc@unicatt.it
Partner	Arzanà srl	Viale Ancona, 15 MESTRE VE 30100 Mestre VE Italy	041 2750223	info@azanadv.it
Partner	Gianesin Canepari & Partners	Via Strada Muson, 2C 31011 Asolo TV Italy	0423 951785	info@gianesincanepari.it

Role	Azienda	Address	Telephone	E-mail
Partner	Greendecision srl	Via delle Industrie, 21/8 30175 Marghera VE Italy	041 2348951	management@greendecision.eu
Partner	Consorzio di Bonifica Piave	Via S. Maria In Colle, 2 31044 Montebelluna TV Italy	0423 2917	info@consorziopiave.it
Partner	Università degli Studi di Padova - Dipartimento Territorio e Sistemi Agro-forestali	Viale Università 16 35020 Legnaro PD Italy	049 8272728	ricerca.tesaf@unipd.it
Partner	Professione Consulenti srl	Via P. Nenni, 78B 53035 Monteriggioni SI Italy	0577 309150	info@professioneconsulenti.com

Pratiche abstract

Description

INNOVATIVE FERTILIZATION. The project implements innovative strategies for the fertilization of the vineyards, aimed to reduce the leaching of nutrients and based on several technical approaches:

- Measurement of the plant vigour, along the rows, as a tool for regulating the spreading of fertilizers on the base of real needs of the plants
- Substitution of mineral fertilizers with organic ones and leaf stimulants
- Use of green manure for integrating the fertilization of the vineyard and improve the biodiversity
- Use of rootstocks improved for their resistance to water stress
- Inoculum of mycorrhizae for improving the vigour of rootstocks and make them more resistant to stress and drought

All these measures contribute to reduce risks of water pollution by nutrients (especially nitrates) and reduce the need of water.

During the project, analysis will be conducted in order to verify the efficacy of the measures implemented by the project.

The vineyard where the project will be carried out will be used for didactic purposes and will be available for visits of scientific community, technicians, vine growers as examples of good practices.

Description

FUNCTIONAL PEST CONTROL. The project supports the use of an innovative tool for improving the strategies for pest control and reducing risks of water pollution from pesticides. Moreover, the proper use of pesticides reduces risks for the health of citizens, consumers and vine growers and, generally, a lower impact on environment and natural ecosystems.

The solution adopted by the project exploits a tool developed by the OG of the project BODI (project leader CONDIFESA TVB - <https://www.condifesatvb.it/bodi/>). The tool uses meteorological data related to single vineyards and, through predictive models based of the lifecycle of pathogens, provide vine growers with advices on the choice of pesticides (active principle), doses, spreading date in order to ensure the higher efficacy of the treatment. Thanks to the advices, it is possible to reduce

the number of treatments (compared to traditional predictive strategies) and, moreover, the grower is addressed toward active principles having lower impacts on health and natural environment.

Within the project are also undertaken studies for verifying the possibility of apply the same strategy also for controlling insects proliferation.

The vineyard where the project will be carried out will be used for didactic purposes and will be available for visits of scientific community, technicians, vine growers as examples of good practices.

Description

MODERN IRRIGATION. The matter of vineyards irrigation increased its importance in the last years. Because of climate change, with frequent droughts, irrigation became a need for all the vine growers that aim to good quality and satisfying yields. Moreover, the lack of water determined in the last years higher competition for the resource, also for other uses than agriculture, and therefore in the future the lowering of its availability is expected.

The project tests the IrriSmart™ technology that is based on the following main concepts:

- Evaluation of the field water capability through soil analysis
 - Installation of probes for measuring the soil moisture, at 10-50 cm
 - Installation of hubs for transmitting data on soil moisture to the data centre
 - Data elaboration and transmission to the growers of irrigation advices based on the real needs of their plants
- Within the project is also expected the cooperation with the local drainage consortium (partner of the OG) for verifying the possibilities of improving the water distribution systems in order to support the more rationale use of the water in the vineyards.

The vineyard where the project will be carried out will be used for didactic purposes and will be available for visits of scientific community, technicians, vine growers as examples of good practices

Description

SUSTAINABILITY CERTIFICATION. The certification of environmental sustainability for vine growing and transformation of grapes in wine is a fundamental step for valorising the efforts of all the actors involved in wine production. Thanks to the certification, the consumers understand the quality of the work performed by growers and the reasons why the products have a higher price on the market, compared to traditional wines.

The project tests 2 different certification schemes:

- VIVA project, promoted by Italian Ministry for the Environment and based on 4 indicators (Air, Water, Vineyard and Territory)
 - SQNPI system, promoted by the Italian Ministry for Agriculture and based on national/regional procedural guidelines
- Presently, the 2 procedures are still separated but a national process is undergoing for unifying the procedures and obtain a unique sustainability certification for all the products from agriculture.

Within the project, at least 40 vineyards will be certificated VIVA/SQNPI also the Cantina di Orsago (project leader).

In order to facilitate the certification of the vineyards, within the project several technical seminars will be organised, dedicated to winegrowers, technicians, agronomists.

Link utili

Titolo/Descrizione	Url	Tipologia
Official PROINOS website	https://www.proinos.it/	Sito web

Titolo/Descrizione	Url	Tipologia
The sustainability for Cantina di Orsago	https://youtu.be/hRAuZ8nHxgl	Link ad altri siti che ospitano informazioni del progetto
Interview to the PROINOS project leader #1	https://youtu.be/etNNHsUWN0M	Link ad altri siti che ospitano informazioni del progetto
Interview to the PROINOS project leader #2	https://youtu.be/HhZ6vIACmk	Link ad altri siti che ospitano informazioni del progetto
The VIVA project	https://youtu.be/T-iouSFCHVY	Link ad altri siti che ospitano informazioni del progetto
Instagram page	http://instagram.com/proinos_ps	Link ad altri siti che ospitano informazioni del progetto
Facebook page	http://facebook.com/proinos/	Link ad altri siti che ospitano informazioni del progetto
Article - Teatro Naturale - Proinos project for water resources protection and innovation in viticulture	https://www.teatronaturale.it/strettamentetecnico/mondo-enoico/28380-il-proget...	Materiali utili
Article - TrevisoToday - PROiNOS: sustainability in viticulture, more than 2 thousand farms in the network	https://www.trevisotoday.it/green/proinos-convegnovitivinicultura-oderzo-2022...	Materiali utili

