

## Renewal crops valorization in Tuscany to tackle up the future climatic changes

### Riferimenti

Tipo di progetto

Gruppo Operativo

Acronimo

VARITOSCAN-Clima

Tematica

Biodiversità

Information

Time frame

2019 - 2021

Durata

32 months

Partners (no.)

7

Regione

Toscana

Comparto

Cerealicoltura

Localizzazione

ITI12 - Lucca

ITI17 - Pisa

ITI1A - Grosseto

Costo totale

€360.370,60

Fonte di finanziamento principale

Programma di sviluppo rurale

Programma di sviluppo rurale

2014IT06RDRP010: Italy - Rural Development

Programme (Regional) - Toscana

Parole chiave

Climate and climate change

Food quality / processing and nutrition

Genetic resources

Sito web

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

Project status

completed



### Objectives

The aim of the OG is the implementation of a Pilot Project for the identification of varieties / populations of maize and millet adapted to Tuscan pedoclimatic environments and the development of a low-input agronomic management model that reduces the necessary water supply to these crops and conserve soil fertility. The product obtained will also be characterized by high nutraceutical organoleptic qualities and characterized by a strong territorial link, a combination that will allow the insertion of specific niches in the national and international agri-food sector.

### Activities

- identification of: best variety / population for each cultivation area; best agronomic practices for the conservation of soil fertility and for the limited and efficient use of water resources;
- definition of an agronomic production protocol;
- nutraceutical characterization of grains based on the genotype and its interaction with the growing environment;
- evaluation in the third year of the best accessions to start a breeding program for the selection of populations adapted to different environments of cultivation and resilient towards future climate changes;
- dissemination of results and training

### Context

The profitability of farms in marginal areas is severely tested both for the increasingly globalized market trends and for the problems associated with extreme weather events that are now for several years they are manifesting more and more frequently. In fact, for some time now we have been witnessing an irreversible simplification and specialization of production systems that result in monoculture phenomena that are rarely alternated with crops, renewal or set-aside crops, also due to the lack of profitable

renewal crops. This causes a depletion of soil fertility, a strong reduction in Organic Matter and field water capacity, therefore a consistent and necessary use of energy inputs external (fertilizers, herbicides, etc.). It is therefore necessary to try to develop innovative supply chains based on agronomic practices and sustainable transformation processes both from an environmental point of view and technology, able to enter the markets and guarantee income stability for farmers. An agriculture oriented to the maintenance and restoration of the natural fertility of the soil and using rotations with varieties adapted to the cultivation environments can provide, besides income and high quality products for the consumers, a series of advantages for the surrounding environment. The use of varieties resilient to climate change and adapted to the pedoclimatic conditions of a certain area of cultivation would represent a fundamental resource for those low-input agriculture models such as biological and biodynamic, which could be developed and economically profitable even in marginal areas.

### Partenariato

Role	Azienda	Address	Telephone	E-mail
Leader	Azienda Agricola Biologica Biodinamica "Il Cerreto"	Località Il Cerreto 56045 Pomarance PI Italy	0588 64213	tecnico@ilcerreto.it
Partner	ANCI Toscana	Viale Giovine Italia 17 50122 Firenze FI Italy	055 2477490	posta@ancitoscana.it
Partner	Fondazione per il Clima e la Sostenibilità (FCS)	Via G. Caproni, 8 50145 Firenze FI Italy	055 3033711	infofcs@climaesostenibilita.it
Partner	Università degli Studi di Firenze - Dipartimento di Scienze delle Produzioni Agroalimentari e dell'Ambiente	Piazzale delle Cascine 19 50144 Firenze FI Italy	055 2755700	segreteria@dispaa.unifi.it
Partner	Istituto di Scienze della Vita - Scuola Superiore Sant'Anna	Via Santa Cecilia 3 56127 Pisa PI Italy	050 883919	

## Valorizzazione delle colture da rinnovo in ambienti toscani in previsione dei futuri cambiamenti climatici

3/3

<https://www.innovarurale.it/pei-agri/gruppi-operativi/bancadati-go-pei/valorizzazione-delle-colture-da-rinnovo-ambienti-toscani>

Role	Azienda	Address	Telephone	E-mail
Partner	Azienda Agricola Vecchioni Giovanna	Podere Tesorino 58022 Follonica GR Italy	0566 860000	
Partner	Garfagnana Coop Alta Valle del Serchio Soc. Coop a.r.l.	Loc. Staiolo - Sillicagnana 55038 San Romano in Garfagnana LU Italy	0583 613154	garfagnanacoop@tiscali.it

Pratiche abstract

Link utili

Titolo/Descrizione	Url	Tipologia
Sito web del progetto	<a href="https://www.varitoscan.it/">https://www.varitoscan.it/</a>	Sito web
Documentazione varia	<a href="https://www.varitoscan.it/portfolio/work-package-n-8/">https://www.varitoscan.it/portfolio/work-package-n-8/</a>	