

Smart agricultural water management in the periurban area of Florence

Riferimenti

Tipo di progetto

Gruppo Operativo

Acronimo

ORTIBLU

Tematica

Risorse idriche

Information

Time frame

2019 - 2023

Durata

44 months

Partners (no.)

10

Regione

Toscana

Comparto

Orticoltura

Localizzazione

ITI14 - Firenze

Costo totale

€337.661,00

Fonte di finanziamento principale

Programma di sviluppo rurale

Programma di sviluppo rurale

2014IT06RDRP010: Italy - Rural Development

Programme (Regional) - Toscana

Parole chiave

Water management

Farming practice

Plant production and horticulture

Sito web

<https://ortiblu.ciatoscana.eu/>

Project status

completed



Objectives

The Orti Blu project aims to introduce innovative tools for the management of water resources in peri-urban agricultural areas and to experiment with technologies to reduce its use.

Activities

- Introduction of Non-Woven Fabric (TNT) for mulching and for the application of crop protection products and fertilizers, to safeguard both the quantity and quality of water resources, and the use of Arduino technology for monitoring water demand and implement precision irrigation.
- Realization of a pilot study for the reuse of wastewater from the purifier.
- Monitoring of proposed water resource management solutions through a water footprint analysis, with ISO 14046 - Water Footprint methodology, also valid for an international certification.
- Training of stakeholders, represented by agricultural enterprises in peri-urban areas of the Tuscan territory, on the themes of the project.

Context

The development of periurban agriculture is part of the dynamic that is characterizing the global landscape evolution and that, even in our country, has characterized the society from the post-war period until today. If initially these dynamics were characterized by a clear division between urban and rural environment, this dichotomy has been replaced by the evidence of the peri-urban continuum developed as an interface between the two realities. The peri-urban space has acquired its own autonomous identity in which agriculture is a key role. European Agricultural Policy also draws attention to the particular role of farmers in peri-urban areas, believing that farmers and

land managers in peri-urban areas can promote solutions that meet the goals of both Lisbon (knowledge, research, innovation) and Gothenburg (sustainability).

Partenariato

Role	Azienda	Address	Telephone	E-mail
Leader	Water Right and Energy Foundation	Via Niccolò da Uzzano, 4 50126 Firenze FI Italy	348 4410870	v.striano@wrf.it
Partner	Società Agricola Gabbrielli S.S.	Via di Stagno, 14 50055 Lastra A Signa FI Italy	339 8907043	agricola.gabbrielli@gmail.com
Partner	Next Technology Tecnotessile	Via del Gelso, 13 59100 Prato PO Italy	0574 634040	chemtech@tecnotex.it
Partner	Università degli Studi di Firenze - Dipartimento di Scienze e Tecnologie Agrarie, Alimentari, Ambientali e Forestali (DAGRI)	Piazzale delle Cascine, 18 50144 Firenze FI Italy	055 2755700	direttore@dagri.unifi.it
Partner	Università degli studi di Firenze - Dipartimento di Ingegneria Civile e Ambientale (DICEA)	Via di S. Marta, 3 50139 Firenze FI Italy	055 2758811	segreteria.dicea@unifi.it
Partner	CIPA-AT Grosseto	Via Monte Rosa 182 58100 Grosseto GR Italy	0564 450662	info@qmtt.net
Partner	CNR - Istituto per la BioEconomia IBE	Via Madonna del Piano, 10 50019 Sesto Fiorentino FI Italy	055 3033 711	

Role	Azienda	Address	Telephone	E-mail
Partner	Confederazione Italiana Agricoltori Toscana	Via Iacopo Nardi, 41 50132 Firenze FI Italy	055 2338911	ciatoscana@cia.it
Partner	Azienda agricola Beni Piero	Viuzzo di Ugnano, 2 50142 Firenze FI Italy	338 8336826	
Partner	Legnaia Vivai Soc.Agr. a r.l.	Via Baccio da Montelupo, 180 50142 Firenze FI Italy	055 7358221	simone.tofani@legnaia.it

Pratiche abstract

Description

Monitoring of proposed water resource management solutions through a water footprint analysis, with ISO 14046 - Water Footprint methodology, also valid for an international certification.

Description

Introduction of Non-Woven Fabric (TNT) for mulching and for the application of crop protection products and fertilizers, to safeguard both the quantity and quality of water resources, and the use of Arduino technology for monitoring water demand and implement precision irrigation.

Description

Reuse of wastewater from the San Colombano purifier, managed by Publiacqua.

Link utili

Titolo/Descrizione	Url	Tipologia
Sito web del Progetto	https://ortiblu.ciatoscana.eu/	Sito web
La relazione finale del Gruppo Operativo Orti Blu	https://ortiblu.ciatoscana.eu/materiali-download/	Materiali utili

Titolo/Descrizione	Url	Tipologia
Le presentazioni (file PDF o PPTX) relative agli incontri tematici di Orti Blu	https://ortiblu.ciatoscana.eu/wp-content/uploads/2023/02/ortiblu_incontri-temat...	Materiali utili
La brochure del Gruppo Operativo Orti Blu	https://ortiblu.ciatoscana.eu/wp-content/uploads/2021/11/ortiblu_brochure.pdf	Materiali utili
Lo speciale Orti Blu uscito sul numero di gennaio 2023 di Dimensione Agricoltura	https://ortiblu.ciatoscana.eu/wp-content/uploads/2023/02/Da_202301_speciale_ort...	Materiali utili