

Connectivity of precision farming systems

Riferimenti

Tipo di progetto

Gruppo Operativo

Acronimo

CAMPI CONNESSI

Tematica

Agricoltura di precisione

Information

Time frame

2019 - 2023

Durata

44 months

Partners (no.)

10

Regione

Toscana

Comparto

Viticultura

Localizzazione

ITI14 - Firenze

ITI19 - Siena

Costo totale

€360.211,20

Fonte di finanziamento principale

Programma di sviluppo rurale

Programma di sviluppo rurale

2014IT06RDRP010: Italy - Rural Development

Programme (Regional) - Toscana

Parole chiave

Farming/forestry competitiveness and diversification

Farming equipment and machinery

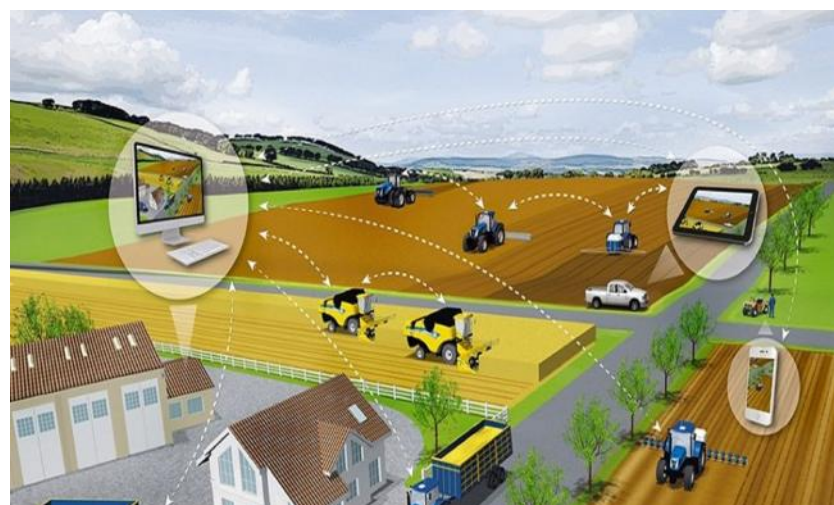
Agricultural production system

Sito web

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

Project status

completed



Objectives

The aim of the project is to indicate compatibility solutions in transferring and using data in precision agriculture systems: the entrepreneur acquires data from the sensors (control units, combine harvesters, sensors on tractors, etc.) which can often be viewed only on the manufacturer's software; needs to compare them on PC with other systems; needs to modify them and create files capable of being read by the machines in the field to carry out precision operations; the project indicates solutions for the safe operation of digital technologies for cultivation processes.

Activities

- classification and characterization of digital data used on farms
- Digital Innovation Hubs connected to the local organization and connection data
- Security Farm data
- Security monitoring systems and automation control systems (GPS, ITALPOS type networks)
- verification of interaction Data sources (speak the same language) on the companies of the territorial platform
- Interaction checks between Data "prescription maps" and VRT agricultural machines (Variable Rate Treatment)
- identification of professional figures emerging from needs
- visits of agricultural entrepreneurs to other European experiences (IoF2020, 4D4F_eu)

Professional training and skills acquisition

Context

The digitalization of the technical systems that modern society uses represents the current challenge for all social and productive activities. The agricultural enterprise is much more than all the other productive sectors timidly adopting this potential dominated by a fragmented and non-interconnected market of digital products and services in which a

technology is used (for example micrometeorological control units) but it is not possible to put in communication of digital information with other management systems present in the company or on the web. The problem becomes even more serious when digital prescription data must be used on devices or systems, especially in the field of agricultural machines operating in an external environment.

Partenariato

Role	Azienda	Address	Telephone	E-mail
Leader	Società Agricola Tenute del Cerro s.p.a.	Via Grazianella, 5 53045 Montepulciano SI Italy	0578 767722	info@tenutedelcerro.it
Partner	Agricoltura è Vita Etruria srl	Viale Sardegna 37 53100 Siena SI Italy	0577 203732	c.pizzetti@ciasiena.it
Partner	Società Agricola Antinori	via Cassia per Siena 133 50026 San Casciano val di Pesa FI Italy	055 23595	antinori@antinori.it
Partner	Azienda Agraria Siro Pacenti	Podere Pelagrilli 53024 Montalcino SI Italy	0577 848662	info@siropacenti.it
Partner	Azienda Agraria Martoccia	Loc. Martoccia 53024 Montalcino SI Italy	0577 848540	info@poderemartoccia.it
Partner	Copernico srl	Via Mazzini, 70 53024 Montalcino SI Italy	0577 848284	antoni@copernico.mobi
Partner	Confederazione Italiana Agricoltori Toscana	Via Iacopo Nardi, 41 50132 Firenze FI Italy	055 2338911	ciatoscana@cia.it

Role	Azienda	Address	Telephone	E-mail
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	CREA - FL Foreste e Legno	Viale Santa Margherita, 80 52100 Arezzo AR Italy	0142 330900	piermario.chiarabaglio@crea.gov.it
Partner	Banfi Società Agricola Srl	Castello di Poggio alle Mura 53024 Montalcino SI Italy	0577 840111	banfi@banfi.it

Pratiche abstract

Description

Digitalization of the technical systems, the current challenge for all social and productive activities. The term Industry 4.0 is now widespread in the complete digitalization of the manufacturing sector, but all our private or public social activity makes use of digital controls from the use of cars to communication tools. It is therefore necessary to identify the interactivity needs of digital systems by putting the farmers in a position to know in detail problems of interconnectivity and to choose and know how to direct the technology offer in the direction of the ever greater compatibility of the multiple technological components of the crop production system.

Link utili

Titolo/Descrizione	Url	Tipologia
Sito web del progetto	https://campiconnessi.ciatoscana.eu/	Sito web
La relazione finale del Gruppo Operativo Campi Connessi	https://campiconnessi.ciatoscana.eu/wp-content/uploads/2023/03/campiconnessi_RE...	Materiali utili

Titolo/Descrizione	Url	Tipologia
Lo speciale del G.O. Campi Connessi uscito sul numero di novembre 2022 di Dimensione Agricoltura	https://campiconnessi.ciatoscana.eu/wp-content/uploads/2023/03/campiconnessi_sp...	Link ad altri siti che ospitano informazioni del progetto
Materiale relativo ai corsi di formazione del G.O. Campi Connessi	https://campiconnessi.ciatoscana.eu/wp-content/uploads/2023/03/MATERIALI-CORSI-...	Materiali utili
La brochure del Gruppo Operativo Campi Connessi	https://campiconnessi.ciatoscana.eu/wp-content/uploads/2021/07/campiconnessi_br...	Materiali utili