

Aquaponic Smart: small and medium farm model of economic improvement, environmental sustainability, monitoring and simplified big data management

Riferimenti

Tipo di progetto

Gruppo Operativo

Acronimo

Acquaponica Smart

Tematica

Gestione aziendale

Information

Time frame

2019 - 2022

Durata

36 months

Partners (no.)

5

Regione

Veneto

Comparto

Multifiliera

Localizzazione

ITH34 - Treviso

ITH36 - Padova

Costo totale

€183.237,27

Fonte di finanziamento principale

Programma di sviluppo rurale

Programma di sviluppo rurale

2014IT06RDRP014: Italy - Rural Development

Programme (Regional) - Veneto

Parole chiave

Farming/forestry competitiveness and diversification

Plant production and horticulture

Agricultural production system

Sito web

<https://aquaponicsmartap.it/>

Project status

completed



Objectives

Optimize an efficient work protocol, for small and medium farms, of aquaponics installed in a greenhouse that is able to define the best balance between vegetable and fish species;

Valorise important vegetal species that have been forgotten;

Use a work model sustainable both for an energetic and for an economic point of view (minimize the costs and increase the yields);

Develop a work model usable also for a farmer manager with a few available time (by automate as much operations as possible) and to provide a monitoring system of the main parameters to have a 24/24 hours check and advise system if something is not going to work.

Activities

Coordination activity for the inclusion of vegetable species in the aquaponic system:

- Development of a management protocol of the vegetable species;
- Monitoring activity for the conversion from a pilot plant in a productive plant;
- Monitoring of the vegetable and water parts;
- SmartAPP developing;
- Pilot plant/auxiliary productive achievement;
- Conversion of the Pilot plant productive into a production facility;
- Production facility achievement;
- Vegetable seeds harvesting and sowing in nurseries;
- Plant and Fish species insert;
- Starting the productive activity;

Acquaponica Smart: modello di miglioramento economico piccola/media azienda agricola, sostenibilità ambientale, monitoraggio e gestione semplificata big data

2/4

<https://www.innovarurale.it/pei-agri/gruppi-operativi/bancadati-go-pei/acquaponica-smart-modello-di-miglioramento-economico>

- Making a short supply chain;
- Making a operative protocol for the short supply chain.

Partenariato

Role	Azienda	Address	Telephone	E-mail
Leader	Moretto Johnny	Via Francesco Baracca, 18 31035 Crocetta del Montello TV Italy	349 124 66 71	info@surveyproject.it
Partner	Radici Azzurre Società Agricola S.S.	Via Rio Bianco, 2 35010 Santa Giustina in Colle PD Italy	3515442136	info@radiciazzurre.eu
Partner	Istituto Agrario I.S.I.S.S. "Domenico Sartor"	Via Postioma di Salvarosa, 28 31033 Castelfranco Veneto TV Italy	0423 490615	posta@istitutoagrariosartor.gov.it
Partner	Impresa Verde Treviso e Belluno srl	Via Sante Biasuzzi 20 31023 Paese TV Italy	0422954111	treviso@coldiretti.it
Partner	Università degli Studi di Padova - Dipartimento di Agronomia Animali Alimenti Risorse Naturali e Ambiente (DAFNAE)	Viale dell'Università 16 35020 Legnaro PD Italy	049 8272664	ricerca.dafnae@unipd.it

Pratiche abstract

Description

In the first phase of the project, the website was created and the project was added to the various social networks, facebook, Instagram and the innovative Agrinnovation ("Agri"social network). The six-monthly news-letter has also been scheduled with updates on the progress of the project. The project presentation meeting was organized and was attended by authorities, local farmers and companies interested in the project. The technical drawings of the plant were also created at this stage through meetings with the whole GO, these drawings concern the greenhouse, the hydraulic system, the tanks, the electrical systems, the water supplies and all the plants in general. Part of the materials necessary for the construction of the greenhouse were also purchased. The prototypes of the vertical cultivation systems were made and the most appropriate variant was selected. Together with the partners, the plant and fish species have been selected which will be included in the productive-experimental system. Based on the selected species, some products have been evaluated that

Acquaponica Smart: modello di miglioramento economico piccola/media azienda agricola, sostenibilità ambientale, monitoraggio e gestione semplificata big data

3/4

<https://www.innovarurale.it/pei-agri/gruppi-operativi/bancadati-go-pei/acquaponica-smart-modello-di-miglioramento-economico>

could be brought to national and international markets, currently the study and business plan are under construction phase. The SmartAP protocol has also been optimized.

Link utili

Titolo/Descrizione	Url	Tipologia
Sito web del progetto	https://aquaponicsmartap.it/	Sito web
Social Network agrinnovation.it	https://agrinnovation.it/s/acquaponica-progetto-smartap/	Link ad altri siti che ospitano informazioni del progetto
Pagina Facebook	https://www.facebook.com/aquaponicsmartap/	Link ad altri siti che ospitano informazioni del progetto
Pagina dipartimento DAFNAE Università di Padova	https://www.dafnae.unipd.it/ricerca/progetti-di-ricerca/smartaphttp://	Link ad altri siti che ospitano informazioni del progetto
EIP-AGRI	https://ec.europa.eu/eip/agriculture/en/find-connect/projects/smartapacquaponic...	Link ad altri siti che ospitano informazioni del progetto
VenetoNews.it	https://www.venetonews.it/2020/03/smartap-acquaponica-intelligente/amp/	Link ad altri siti che ospitano informazioni del progetto
Article - ANSA - CRV - 'Smart AP - Intelligent Aquaponics' for environmental and economic sustainability	https://www.ansa.it/pressrelease/veneto/2023/05/23/crvsmart- ap-acquaponica-int...	Materiali utili

Acquaponica Smart: modello di miglioramento economico piccola/media azienda agricola, sostenibilità ambientale, monitoraggio e gestione semplificata big data

4/4

<https://www.innovarurale.it/pei-agri/gruppi-operativi/bancadati-go-pei/acquaponica-smart-modello-di-miglioramento-economico>

Titolo/Descrizione	Url	Tipologia
Smart ap: a project to spread aquaponics	https://www.youtube.com/watch?v=b1JorHGQ-X0	Materiali utili
SmartAp: Coldiretti Treviso presents intelligent aquaponics	https://www.youtube.com/watch?v=qFh-ff3FExY	Materiali utili
Report finale dei risultati	https://aquaponicsmartap.it/wp-content/uploads/sites/7/REPORT_FINALE_SMARTAP_co...	Materiali utili