INAPRO - Innovative Aquaponics for Professional Application

Geographical location:
Belgium
Germany
Netherlands

Keywords:
aquaculture
Water management
fishery
Food quality / processing and nutrition
horticulture
Plant production and horticulture
integrated farming
Agricultural production system
Farming practice
tomato

Agricultural sectors:
Other sectors

Main funding source:
EU Framework programmes

Project acronym:
INAPRO

Project type:
Research project

Starting date:
2016

End date:
2018

Project status:
going

Website:
INAPRO [1]

Title (in English):
INAPRO - Innovative Aquaponics for Professional Application

Language:
English

Objective of the project (native language):

Aquaponics is a food production system that couples aquaculture and horticulture. In an aquaponic system, the nutrient-rich water from the fish unit is used as fertiliser for the hydroponically grown crops, which therefore reduces the sewage of the fish component. Aquaponics is a highly efficient way of producing food but is yet to spread onto the market. This is mainly due to a lack of stability, economic profitability, and technical and technological standardisation. The INAPRO project aims to overcome these limitations by innovating and improving aquaponics.
Objective of the project (in English):

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Description of activities (native language):

INAPRO aims at improving current approaches to aquaponics through the development of a model and the integration of innovative technologies allowing to save water and to optimise energy and nutrient management. Indeed, INAPRO allows the production of local, healthy and sustainable food minimising the water and carbon footprint. The INAPRO system is scalable to different greenhouses, from large scale rural facilities to small urban faming systems, and adaptable to different geographical and climatic conditions. At the time being, an INAPRO test facility in Abtshagen (Germany), is already running and producing tilapia and tomatoes. By spring 2016, two other demonstration sites will be built in Europe, one in Waren (Germany) and the other in Murcia (Spain).

Contact person:

Sofia MINERO
sofia.minero@alienoreu.com [2]

Contact e-mail:
sofia.minero@alienoreu.com [2]

Organization/Institution name (original language):

Forschungsverbund Berlin e.V.

Short summary for practitioners

Project partners

Organization/Institution Forschungsverbund Berlin e.V. - Leibniz- Institute of Freshwater Ecology and Inland Fisheries

Organization/Institution PAL-Anlagenbau GmbH Abtshagen

Organization/Institution Automation & software Günther Tausch
Organization/Institution: Beijing CAUIOT Co. Ltd.
Partner category: Researcher

Organization/Institution: Tilamur

Organization/Institution: Fischerei Müritz-Plau

Organization/Institution: EUROVIX

Organization/Institution: Inagro

Organization/Institution: Ftytagoras

Organization/Institution: AliénorEU

Organization/Institution: Fraunhofer Application Center System Technology
Partner category: Researcher

Organization/Institution: Wageningen University – Biomass Refinery & Process Dynamics
Partner category: Researcher

Organization/Institution: China Agriculture University
Partner category: Researcher
Organization/Institution: Yellow Sea Fisheries Research Institute
Partner category: Researcher

Organization/Institution: Havforskningsinstituttet

Organization/Institution: Stichting Dienst Landbouwkundig Onderzoek

Organization/Institution: IFQ

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[2] mailto:sofia.minero@alienoreu.com