



Horizon Europe Brokerage Event
Cluster 6 Calls 2024

Brussels , 26 September 2023

Innovative water treatment technology enabling significant water and fertilizers savings

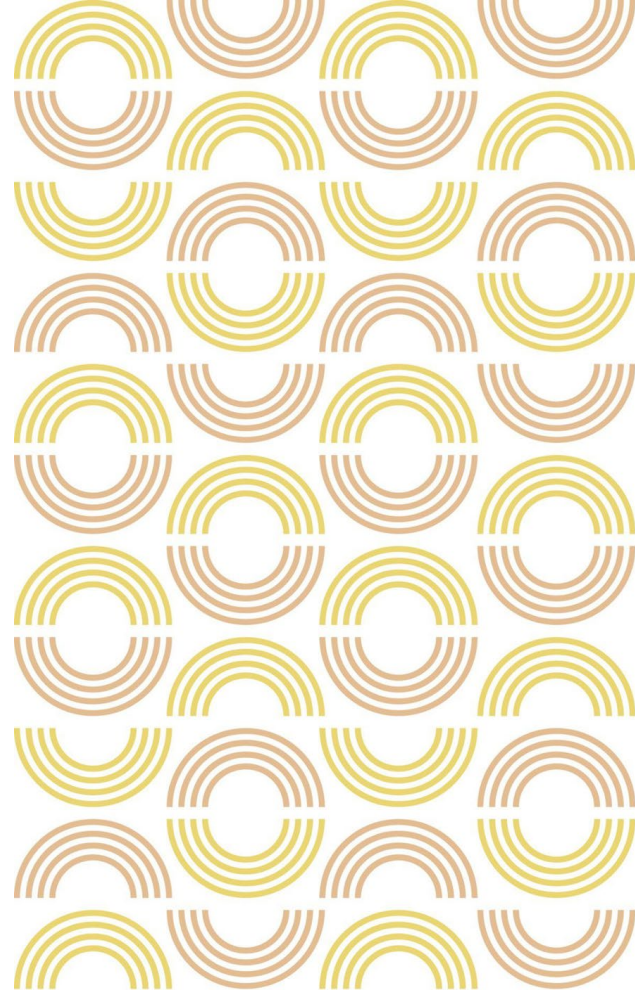
Charles -Henri FAURE

[AQUA4D® by ©Planet Horizons Technologies SA](#)



This project has received funding from the European Union's Horizon Europe research and innovation programme, under Grant Agreement No 101059839

Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the European Commission. Neither the European Union nor the granting authority can be held responsible for them.



Topic(s) addressed :

- HORIZON-CL6-2024-CLIMATE-01-1

[Improving irrigation practices and technologies in agriculture](#)

Other topics of interest:

- HORIZON-CL6-2024-FARM2FORK-02-1-two-stage: Increasing the availability and use of harmless inputs in organic farming
- HORIZON-CL6-2024-CircBio-02-6-two-stage: From silos to diversity – small-scale bio-based demonstration pilots
- HORIZON-CL6-2024-ZERO POLLUTION-01-1: Demonstrating how regions can operate within safe ecological and regional nitrogen and phosphorus boundaries
- HORIZON-CL6-2024-GOVERNANCE-01-13: Developing EU advisory networks on sustainable livestock systems

Project idea

- **AQUA4D®**: Irrigation water treatment technology using Very Low Frequency resonance fields to modify physical water properties to significantly reduce water and fertilizer usage
- **Water management**: Improves water penetration and retention in soil, enabling significant water savings through changes to irrigation
- **Nutrients**: Improves fertilizer dissolution and therefore its efficiency, with better absorption of nutrients and hence significant fertilizer savings
- **Salinity management**: Prevents crystallization of salts in soil & allows irrigation with saline water (using less water in the process)
- **Life span of irrigation facilities**: Prevents mineral and organic clogging in pipes and drippers, resulting in increased uniformity, less system maintenance, and fewer consumables

Main expertise offered / sought

- Expertise : Irrigation water treatment technology using Very Low Frequency resonance fields
- Successful EU-funded project (Grant agreement ID: 873723):
 - AQUA4D, for an efficient use of irrigation water
- Role in project : partner as
 - Technology provider
 - Expert in managing / monitoring irrigations
- Looking to join a consortium to continue :
 - To prove the efficacy of AQUA4D® water treatment in various settings
 - To continue technology optimization

Contact details

Charles-Henri Faure

Director of Research & Innovation

Mob. +41 79 374 24 16

Tel. +41 27 456 40 38

Teams/Email faure@aqu4d.com

Planet Horizons Technologies SA (SME)

Ecoparc de Dava 1 A 9

3960 Sierre

Switzerland

www.aqua4d.com