WATER RETENTION AND NUTRIENT RECYCLING IN SOILS AND STREAMS FOR IMPROVED AGRICULTURAL PRODUCTION

Fact Sheet

Project Information

WATERAGRI
Grant agreement ID: 858375
Status
Ongoing project
Start date
1 May 2020
End date
30 April 2024

Funded under
H2020-EU.3.2.1.1.

Overall budget
€ 6 999 986,25
EU contribution
€ 6 999 986,25

Coordinated by
LUNDS UNIVERSITET
Sweden

Objective

The WATERAGRI vision is to solve agricultural water management and soil fertilisation challenges in a sustainable manner to secure affordable food production in Europe for the 21st century. The WATERAGRI concept aims to introduce a new framework for the use of affordable small water retention approaches for managing excess and shortage of water as well as better recovery of nutrients from agricultural catchments applying a multi-actor approach. The objectives are to
(a) Co-develop (multi-actor approach) the links between agricultural land and soil-sediment-water management for improved management of water excess and shortage, maximizing crop production and improving water quality and nutrient uptake by crops;
(b) Undertake both technical and sustainability assessments of proposed measures considering tested and reviewed management options;
(c) Develop a cloud-based simulation and data assimilation system based on a physically-based terrestrial system model, which is able to assimilate in situ and remotely sensed observations of hydrological and plant variables and meteorological data in near-real time to analyse effects of structures such as drains and dams for improved farm-scale water management and retention;
(d) Identify, develop and test affordable and easy-to-implement long-term technical and operational farm solutions such as controlled drainage, regulated deficit irrigation, subsurface irrigation, groundwater recharge, farm constructed wetlands, soil management and nutrient recovery options;
(e) Assess the techniques for their potential regarding adaptation to climate change and their impact on ecosystem services for different biogeographic regions using case studies; and
(f) Disseminate the implemented innovations to farmers, advisory services and decision-makers as part of a multi-actor approach.

The key performance indicators are increased crop production, enhanced nutrient recovery from streams and a simulation and data assimilation system.

Field of science

/social sciences/economics and business/economics/sustainable economy
/engineering and technology/environmental engineering/water management/irrigation
/social sciences/sociology/governance/public services

Programme(s)

Topic(s)

Call for proposal

H2020-SFS-2019-2

Funding Scheme

RIA - Research and Innovation action

Coordinator

LUNDS UNIVERSITET

Address

Activity type

EU contribution

24363
## Participants (22)

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<th>Organisation</th>
<th>Address</th>
<th>Activity type</th>
<th>EU contribution</th>
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<td>EDEN MICROFLUIDICS</td>
<td>83 Avenue Philippe Auguste</td>
<td>Private for-profit entities</td>
<td>€ 249 375</td>
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<td></td>
<td>75011 Paris</td>
<td>(excluding Higher or Secondary Education Establishments)</td>
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<td>Forschunsgzentrum Julich Gmbh</td>
<td>Wilhelm Johnen Strasse</td>
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EU contribution € 249 812,50

Address
Egyetem Ter 1
4032 Debrecen

Activity type
Higher or Secondary Education Establishments

Website
Contact the organisation

ALCHEMIA-NOVA GMBH

Austria

EU contribution € 280 000

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Baumgartenstrasse 93
1140 Wien

Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)

Website
Contact the organisation

AGROGEO AGARFEJLESZTO-FOLDTANI-FOVALLALKOZO KORLATOLT-FELELOSSEGU TARSASAG

Hungary

EU contribution € 67 050

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Wesselenyi Utca 1/A, 1
6000 Kecskemet

Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)

Contact the organisation

UNIVERSITAET FUER BODENKULTUR WIEN

Austria

EU contribution € 285 000

Address
Gregor Mendel Strasse 33
1180 Wien

Activity type
Higher or Secondary Education Establishments

Website
Contact the organisation
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<td>€ 224 500</td>
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<td>Ul Pszczelinska 99, 05 840 Brwinow</td>
<td>Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)</td>
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INOSENS DOO NOVI SAD
Serbia
EU contribution
€ 250 000
Address
Sonje Marinkovic 18/1/3
21000 Novi Sad
Activity type
Private for-profit entities
(excluding Higher or Secondary Education Establishments)

UNIWERSYTET PRZYRODNICZY WE WROCLAWIU
Poland
EU contribution
€ 285 962,50
Address
Ul. Cypriana Kamila Norwida 25
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Activity type
Higher or Secondary Education Establishments
Website
Contact the organisation

BAY ZOLTAN ALKALMAZOTT KUTATASI KOZHASZNU NONPROFIT KFT.
Hungary
EU contribution
€ 203 125
Address
Kondorfa Utca 1
1116 Budapest
Activity type
Research Organisations
Website
Contact the organisation

VULTUS AB
Sweden
EU contribution
€ 252 937,50
Address
Lilla Fiskergatan 19
Activity type
Private for-profit entities
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<td>TECHNISCHE UNIVERSITEIT DELFT</td>
<td>Stevinweg 1, 2628 CN Delft</td>
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<td>UNIVERSITE DE NEUCHATEL</td>
<td>Faubourg De L’hopital 41, 2000 Neuchatel</td>
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<td>AB GARDSTANGA NYGARD</td>
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AGRICOLUS S.R.L.

Italy

EU contribution

€ 316 000

Address

Via Settevalli 320
06129 Perugia

Contact the organisation

INSTITUT NATIONAL DE RECHERCHE POUR L'Agriculture, L'Alimentation et l'Environnement

France

EU contribution

€ 128 001,25

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Contact the organisation

REGELSBERGER MARTIN

Austria

EU contribution

€ 100 000

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8200 Gleisdorf

Contact the organisation