

eip-agri  
AGRICULTURE & INNOVATION



## **EIP-AGRI WORKSHOP**

# **'Opportunities for farm diversification in the circular bioeconomy'**

### **6-7 February 2019 - Vilnius, Lithuania**

**Operational Groups, innovative projects, Horizon 2020 multi-actor projects,  
Horizon 2020 thematic networks and projects under the Biobased Industry Joint  
Undertaking represented at the workshop**

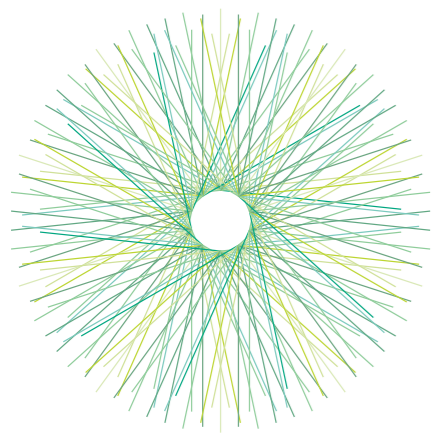
**update 31 January 2019**

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This booklet was created for the [EIP-AGRI Workshop "Opportunities for farm diversification in the circular bioeconomy"](#), 6-7 February 2019 in Vilnius, Lithuania.

The content for this document was provided by the workshop participants, and does not represent the views of the European Commission.



## Multifunctional family farm "OCHSEN"

CZECH REPUBLIC – Southern Moravia

Budget allocated for execution: €200 000

**Starting date - expected end date | 01.01.06.2012 - ongoing**

### Innovative project

[www.ochsen.cz](http://www.ochsen.cz)

The farm was set up to recultivate old orchards and vineyards in a less favoured area. Waste and use of resources is minimalised by symbiotic effects of traditional mixed farming, on-farm processing and cooperation with producers and traders. Animals are fed waste from the fruit production and customer and animal manure is used in the orchards. By careful manual labour, produce reaches high organic quality. The employment of local people, strengthens the regional effects and relationships.

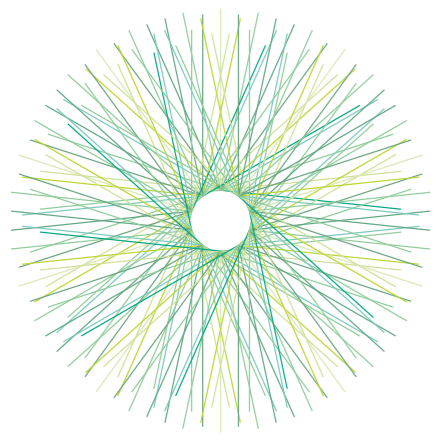
### Farmers:

- ▶ **Tomáš Ignác Fénix**
- ▶ **Robert Thomas Zahrl**



### Project & workshop contact:

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T: +42 608978148 | [office@ochsen.cz](mailto:office@ochsen.cz)



## The Essence of Mink Farming

DENMARK - Aarhus

Budget allocated for execution: €55 328

Continuously improving and ongoing project

### Innovative project

[www.kopenhagenfur.com](http://www.kopenhagenfur.com)



In Denmark, and most of Europe, 100% of the mink is used with zero waste. Therefore, Kopenhagen Fur and the Danish fur farmers add a successful story to how companies in the Danish agriculture and food cluster can produce more with less and have a circular approach to agricultural and animal production. Therefore, mink can easily be resembled as a small re-cycling wonder.

First, mink feed consists of by-products from the human food production. Secondly, the manure from the mink, the carcasses and fat are processed and used for fertilizer in agriculture and energy purposes (biogas and bio-diesel). Thirdly, fur is a beautiful, warm, durable and natural material, that can be handed down through generations, before it is eventually returned to the biological circle itself.

However, mink farmers in Denmark are continuously looking for new ways of even better circular solutions and therefore new projects focusing on raw materials of insect origin from upcycling of food waste into fur animal feed are in pipeline.

## Lead partner: Kopenhagen Fur / Danish Fur Breeders' Association

### Other partners

#### Organisations

- ▶ Fur Europe
- ▶ DAKA Denmark

#### Research

- ▶ Kopenhagen Fur Research
- ▶ Aarhus University
- ▶ Technical University of Denmark
- ▶ Technical Institute

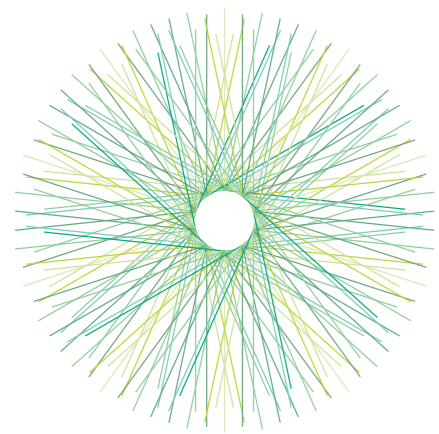
#### Farmers

- ▶ Tage Pedersen / Danish Fur Breeders' Association
- ▶ John Papsø / Danish Fur Breeders' Association



### Project & workshop contact:

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## Global Eco – Inno-Eco FINLAND

Budget allocated for execution: €55 328

Starting date - expected end date | 01.02.2018 – 30.6.2020

### Innovative project

[www.prizz.fi/globaleco](http://www.prizz.fi/globaleco)

Prizztech Ltd is in charge of the implementation of the international Leader cooperation project "Global Eco" in Finland. The main objective of the project is to boost green economy and sustainable business in rural areas. The activities of the project include networking with various private and public operators, organising international and national workshops and mapping and benchmarking best practices in each partner area. Created information is used for raising awareness and encouraging farms and enterprises in rural areas to broaden their businesses to new market sectors, especially in the bio and circular economy. In Finland, the project promotes the area of Northern Satakunta as a "bio-region" that sets forth eco-innovations, self-sufficiency and green approaches.



**Lead partner: LAG Aktiivinen Pohjois-Satakunta ry, Finland**

### Other partners Organisations

- ▶ Prizztech Ltd, Finland

### LAG

- ▶ MTÜ Lääne-Harju Koostöökogu, Estonia
- ▶ LAG Aizkraukles rajona partnerība, Latvia
- ▶ LAG AD ELO – Associação de Desenvolvimento Local da Bairrada e Mondego, Portugal
- ▶ GAL Valle Umbra e Monti Sibillini, Italy
- ▶ LAG Campidano, Italy
- ▶ Ü Lääne-Harju Koostöökogu (Western Harju Partnership)
- ▶ ktiivinen Lääne-Harju Koostöökogu (Western Harju Partnership of SME)



### Project & workshop contact:

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## TaReCa

Tailoring of secondary metabolism in horticultural residuals and cascade utilisation for a resource efficient production of valuable bioactive compounds

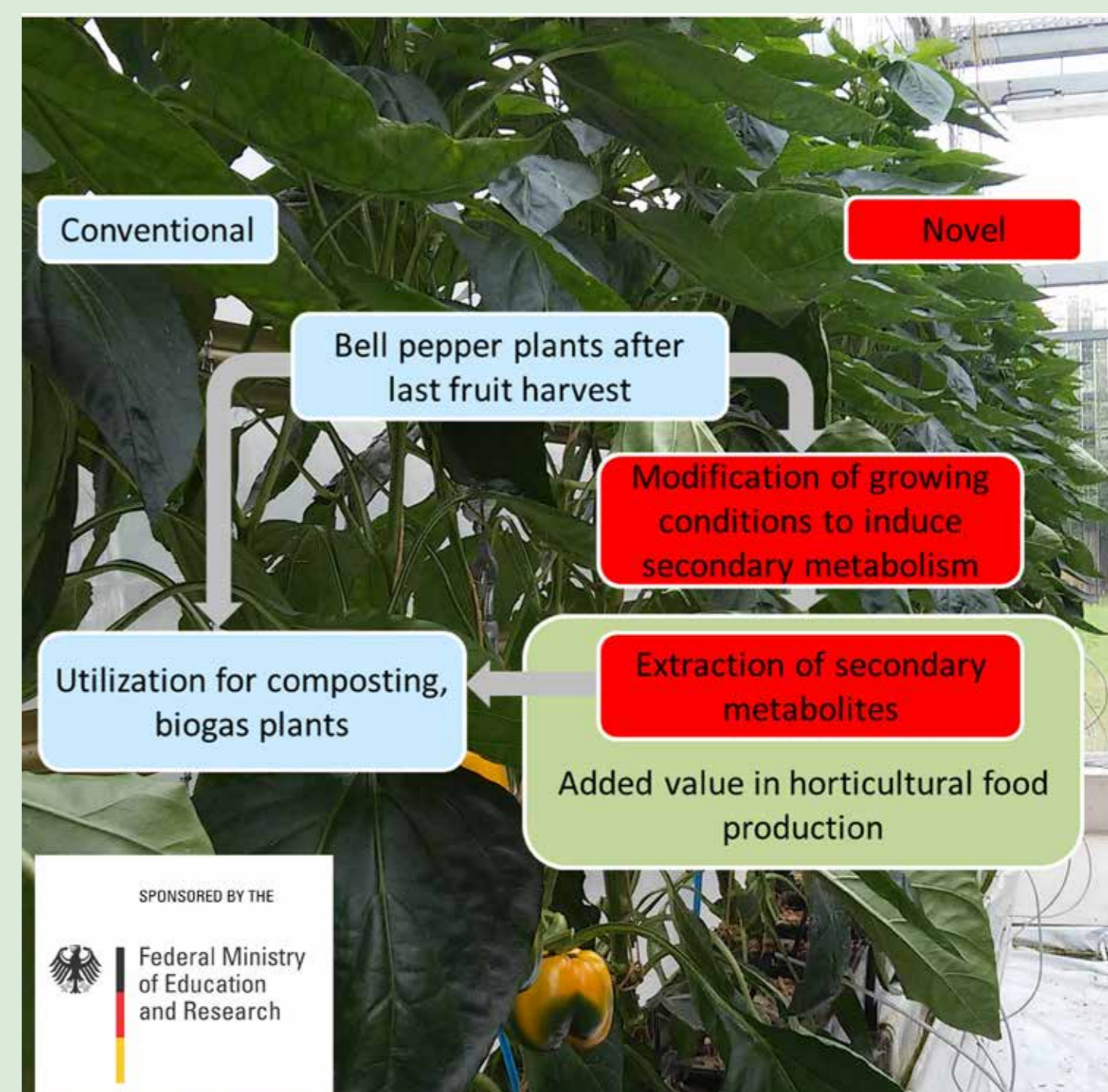
Budget allocated for execution: €1 577 068

Starting date - end date | 01.11.2017 – 31.10.2020

### Innovative project

[www.fz-juelich.de](http://www.fz-juelich.de)

The production of food and feed leaves large amounts of plant residuals behind. This is spare biomass which often contains valuable plant secondary metabolites. The project TaReCa investigates the valorisation of horticultural residual plants left over after last fruit harvest in greenhouses by stress treatments applied to increase the content of bioactive valuable plant secondary metabolites for extraction and industrial use. Utilising such by-products, through cascade uses, adds value to food production and increases the output gained for invested resources.



### Lead partner:

- ▶ **Forschungszentrum Juelich GmbH (Research Centre) (Part B)**
- ▶ **RWTH Aachen (University) (Part A and D)**
- ▶ **Bonn University (University) (Part C)**

Funded by BMBF

### Industrial advisory board

- ▶ Symrise AG (flavor and nutrition)
- ▶ Trifolio-M GmbH (bioactive compounds)
- ▶ Hoffmann (horticultural farm)
- ▶ Chamber of agriculture North Rhine Westphalia, Straelen



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**Dr. Laura Carraresi**  
T: +49 228 73 3504 | [L.Carraresi@ilr.uni-bonn.de](mailto:L.Carraresi@ilr.uni-bonn.de)

# FoodOASIS - Development and optimization of an aquaponic system to increase sustainability in food production

GREECE

Budget allocated for execution: €820 000

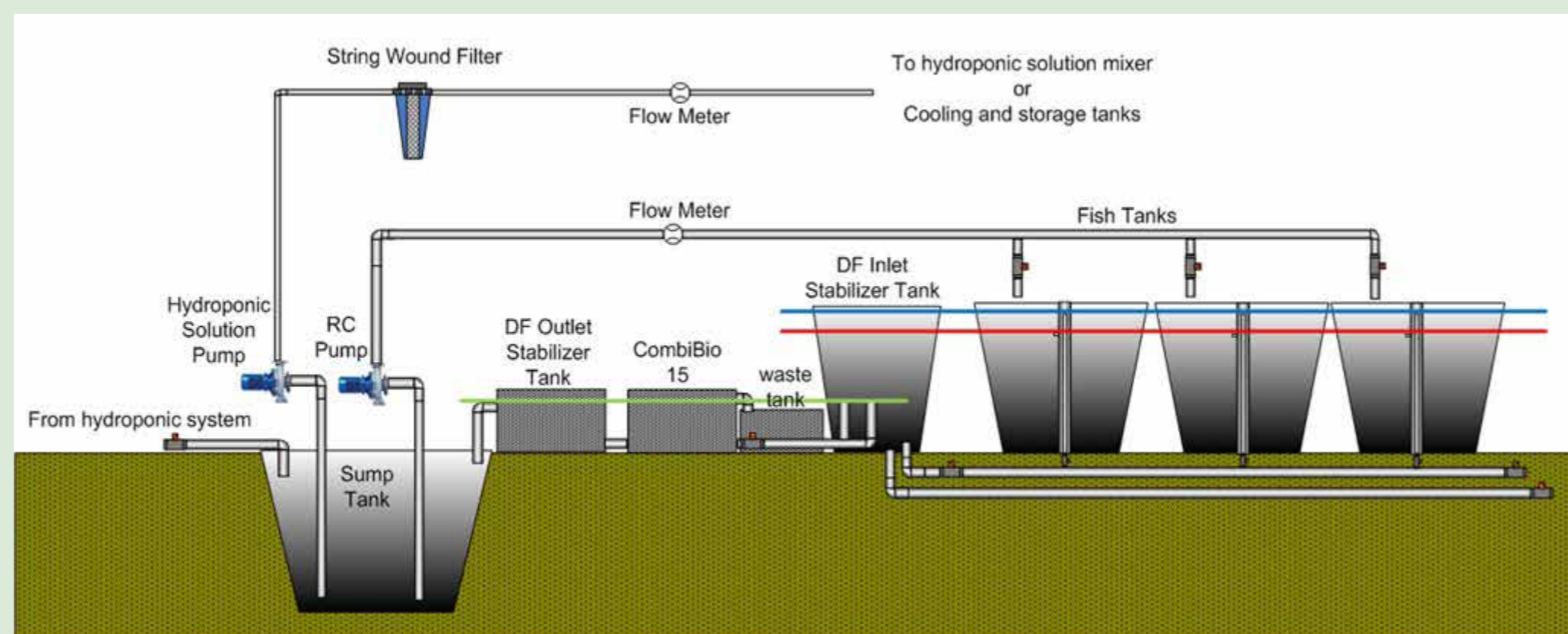
Starting date - expected end date | 09.07.2018 - 08.07.2021

## Innovative project

[www.foodoasis.eu](http://www.foodoasis.eu)

The FoodOASIS project will develop and pilot test an aquaponic system for urban and industrial scale applications. The system will include a DSS for eco-friendly management and increase of circularity in aquaponic systems. The project will create a cooperation network to enhance business competition and productivity towards best agricultural practices and sustainability.

Co-financed by the European Union and Greek national funds through the Operational Program Competitiveness, Entrepreneurship and Innovation, under the call RESEARCH – CREATE - INNOVATE (project code: T1EDK-01153)

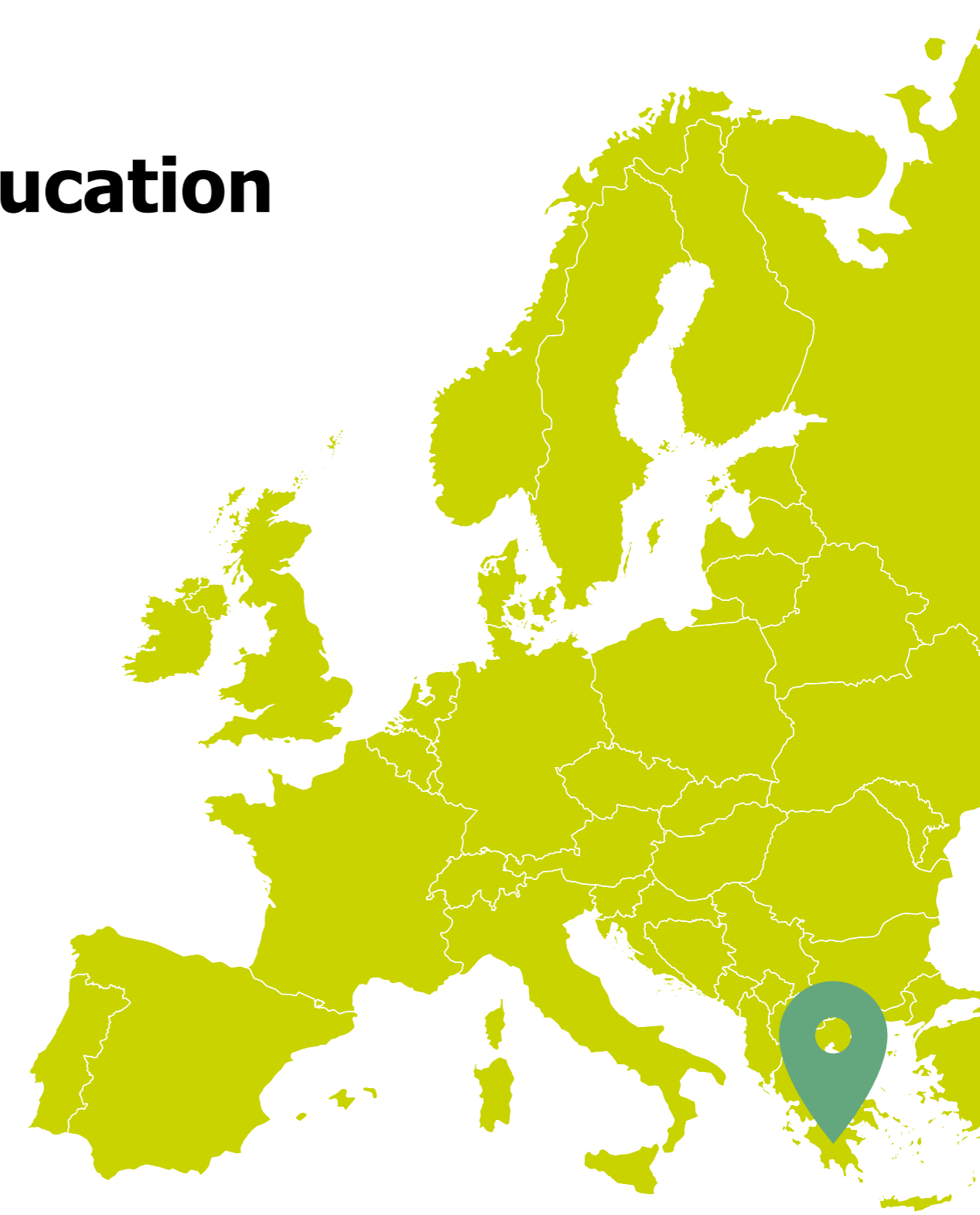


**Lead partner: University of Thessaly / Research and Education**

**Other partners**

**SMEs**

- ▶ Agrostis S.A
- ▶ Emmanouilidis SA



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# BIOREFINERY GLAS

## Small-scale Farmer-led Green Biorefineries

### IRELAND

Budget allocated for execution: €940 498

**Starting date - expected end date | 01.03.2019 - 28.02.2021**

#### Operational Group

[www.eip-agri.eu](http://www.eip-agri.eu)

Biorefinery Glas aims to improve the sustainability, value and resource efficiency of Ireland's agriculture sector through farmer diversification into the bioeconomy. To achieve this Biorefinery Glas will:

- Demonstrate a replicable small-scale biorefinery with Irish farmers which integrates easily into Ireland's existing agricultural structures
- Improve agricultural resource efficiency through on-farm biorefining to produce value-added products and increase protein availability
- Reduce GHG emissions associated with manure and feed imports
- Drive new bioeconomy value-chain development and demonstrate business models which offer diversification opportunities for farmers



**Lead partner: Institute of Technology Tralee**

**Other partners**

#### Research

- ▶ University College Dublin (IE)

#### Farmers co-operatives

- ▶ The Carbery Group (IE), Barryroe Co-operative (IE)

#### SME

- ▶ GRASSA B.V. (NL)



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<b>Workshop contact:</b>	<b>James Gaffey</b>	Institute of Technology, Tralee, Ireland T: +353 86 1544407   <a href="mailto:james.gaffey@staff.ittralee.ie">james.gaffey@staff.ittralee.ie</a>
	<b>Johan Sanders</b>	T: +31 610 940 858   <a href="mailto:johan@grassa.nl">johan@grassa.nl</a>



## Biogas plant - Adding value to innovative sustainable farming ITALY - LOMBARDIA

Budget allocated for execution: Biogas plant €5M - dehydration plant €0.5M - new products R&D €0.5 - €1.5M

**Starting date - expected end date | 2012 - 2027**

### Innovative project

The aim is to create market opportunities and assure added value to locally produced crops. Farmers are evolving towards a market driven economy that takes into account environmental benefits, such as bioenergy and biofuel production, carbon sequestration and traced innovative products; consequent development of the local rural community. Sustainable farming and Conservation Agriculture: no-till, crop rotations, cover crops. Farmer owned and operated anaerobic digestion plant 1 MWe, own innovative technology. CHP thermal energy recovery for additional processing of locally produced alfalfa, own technology. Innovative protein products and organic micro fertilisers Research & Development is associated as part of the circular bioeconomy process.



### Lead partner: Alfalfa Energia & Innovative start up

#### Other partners

- ▶ Martino Rossi SpA, Italy

#### Research

- ▶ Prof. Vincenzo Tabaglio. Università Cattolica del Sacro Cuore. Piacenza, Italy. Dept. Sustainable Agricultural Production
- ▶ Prof. Francesco Morari. Università di Padova, Italy Dept. Agronomy, Food, Natural Resources, Animals, Environment
- ▶ Giuliano Degrassi, PhD. International Center for Genetic Engineering and Biotechnology. Trieste, Italy and Buenos Aires, Argentina
- ▶ Laimburg Research Centre. Province of Bolzano, Italy
- ▶ INTA Instituto Nacional Tecnología Agropecuaria, Argentina

#### Farmers / SME

- ▶ Alfalfa Energia srl Società Agricola, Italy



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# DIGESTATE\_100% - Innovative integrated system for digestate fertigation

ITALY – EMILIA-ROMAGNA

Budget allocated for execution: €139 244

Starting date - expected end date | 01.09.2018 - 31.08.2022

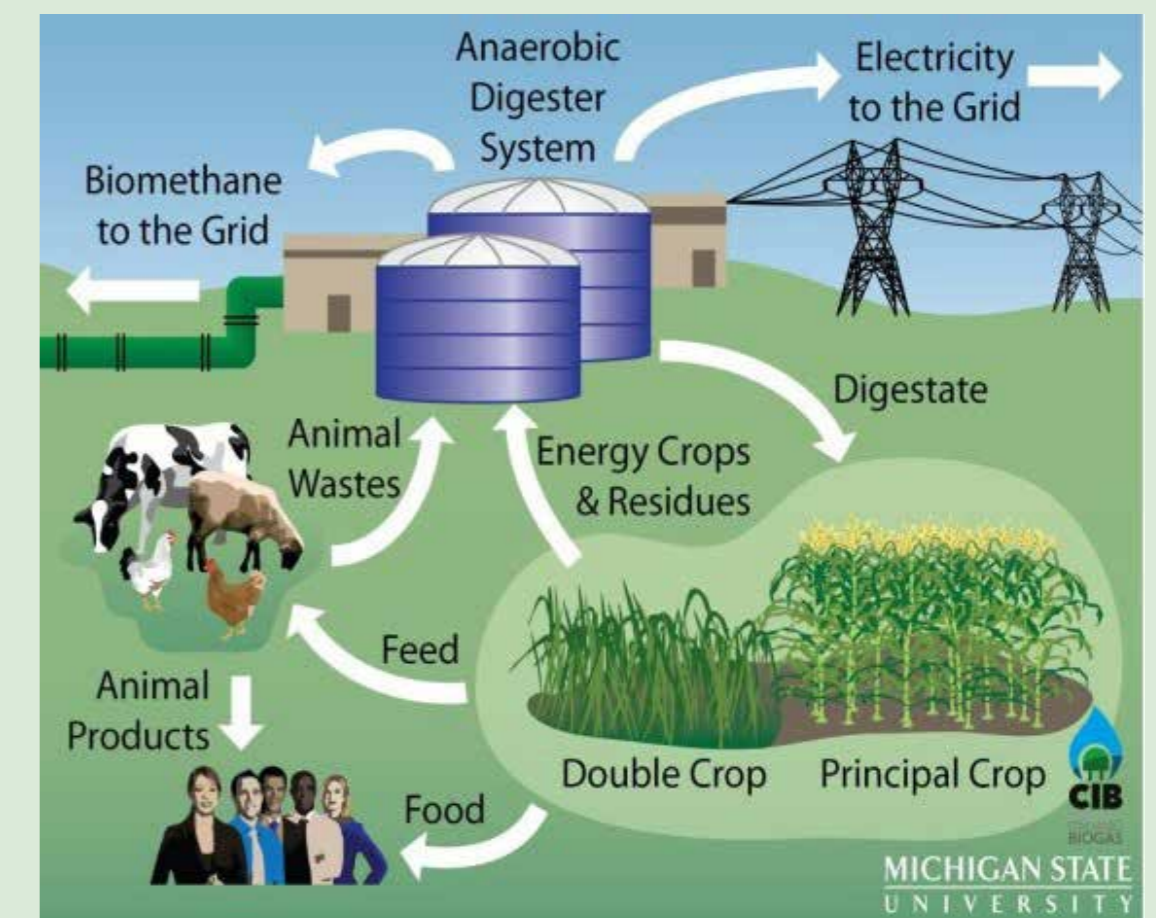
## Operational Group

[digestato100.crpa.it](http://digestato100.crpa.it)

Digestate\_100% integrated system allows to maximise the nutrients use efficiency of the digestate from biogas plants, reducing to zero the use of mineral fertilisers.

The OG set up and validated an innovative integrated system for the use of digestate in fertigation, made of "screw press separation + microfiltration + fertigation by drip lines".

The trials demonstrated that it is possible to distribute the digestate in fertigation through drip lines, during the growing season of crops, without causing blockage: the keystone is the new digestate microfiltration equipment.



**Lead partner: Centro Ricerche Produzioni Animali – CRPA (Research Organisation)**

## Other partners

### Research

- Fondazione CRPA Studi Ricerche

### Farmers

- Fratelli Migliari Società agricola
- Maiero Energia Società agricola
- Euroforaggi Società agricola

### Others

- Consorzio Italiano Biogas, Netafim Italia, WAMgroup



**Project contact: Giuseppe Moscatelli** |  
T: +39 0522 436999 |

Viale Timavo, 43/2 – 42121 Reggio Emilia, Italy  
[g.moscatelli@crpa.it](mailto:g.moscatelli@crpa.it)

**Workshop contact: Paolo Mantovi**  
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[p.mantovi@fondazionecrpa.it](mailto:p.mantovi@fondazionecrpa.it)

# SCOOTER - Vegetable wastes: energetic and reuse opportunities

ITALY- EMILIA ROMAGNA

Budget allocated for execution: €180 872.68

Starting date - expected end date | 24.08.2017 – 24.12.2019

## Operational Group

In this plan, multi step processes are used in order to give the maximum value to the vegetable by-products and to reduce to zero the final wastes and related environmental impacts.

In particular, residual biomasses are digested by larvae to produce protein and lipids that can be used to produce renewable energy. The residues of the Larvae digestion could be used to feed pyrolysis plant in which syngas, biochar and bio-oil are produced.



**Lead partner: Università Cattolica del Sacro Cuore (University)**

## Other partners

### Research

- ▶ Università degli Studi di Parma

### Farmers

- ▶ Az. Agricola Amedei Claudio
- ▶ Az. Agricola Orsi Simona
- ▶ Az. Agricola Porta Camillo

### SMEs

- ▶ Centro di Formazione, Innovazione e Sperimentazione "Vittorio Tadini"
- ▶ Az. Agraria Sperimentale Stuard



## Project & workshop contact:

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T: +39 0523 599219

| [lucrezia.lamastra@unicatt.it](mailto:lucrezia.lamastra@unicatt.it)

# URSA Project - Alqueva By-product Recirculation Units

PORTUGAL - Alentejo

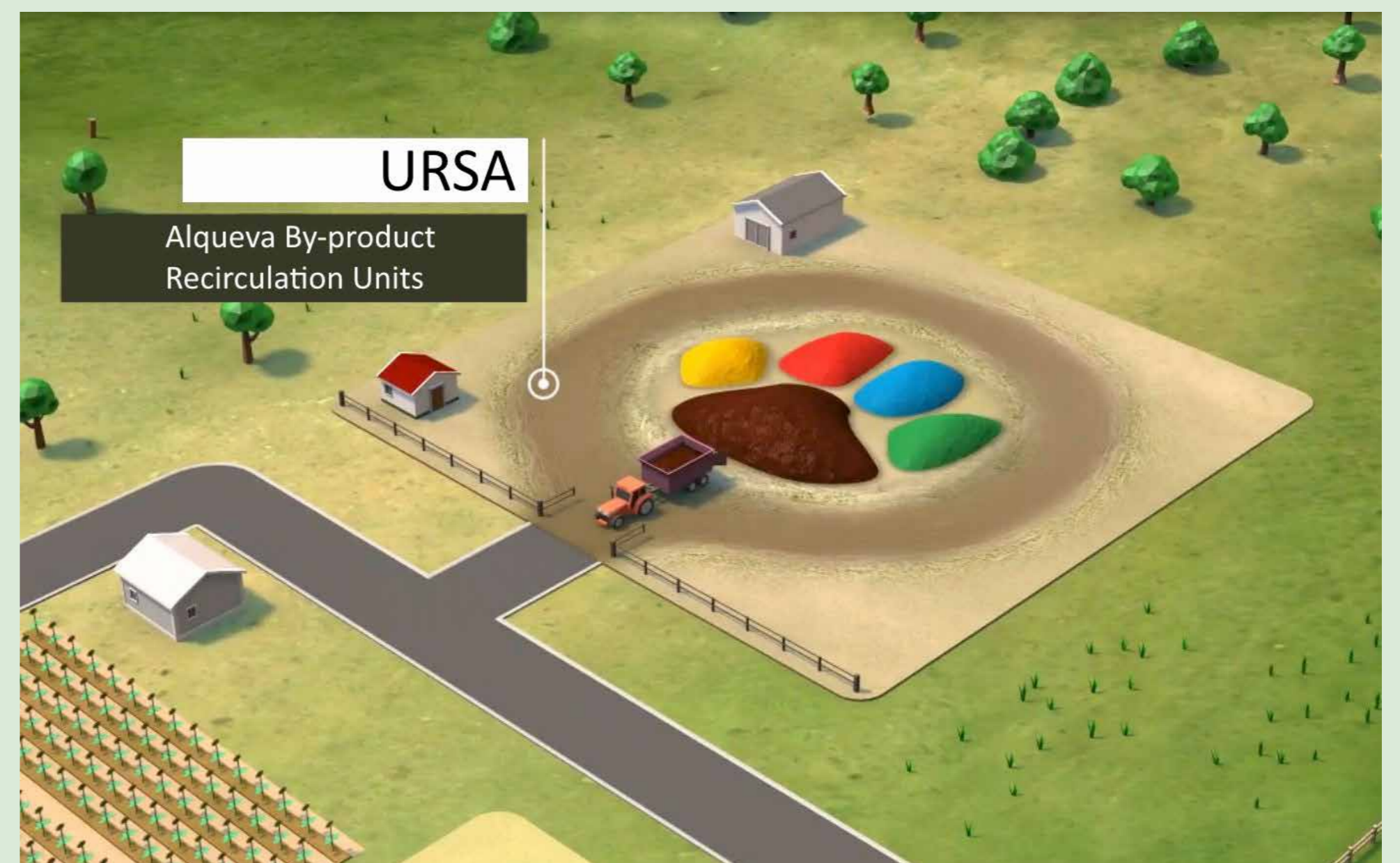
Budget allocated for execution: €250 000

Starting date - expected end date | 01.08.2018 – 28.02.2019

## Innovative project

The URSA Project - Alqueva Byproduct Recirculation Units - aims to create a constellation of by product valorisation units, through controlled composting, where organic fertiliser will be produced and delivered to local farmers to be applied in their crops, thus contributing to soil fertility improvement and its rehabilitation as filtering barrier for the promotion of water quality and irrigation sustainability.

URSA project consists in the implementation of an innovative and disruptive business model, based on agricultural by-products exchange for organic fertiliser destined to agronomic use by local farmers, thus materialising the circular economy in the agricultural context.



Lead partner: **EDIA**

Research partner: **ISQ**



Project contact:

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Workshop contact:

**Pedro Miranda**

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# Integral use of rapeseed as a sustainable alternative for DOP Idiazabal cheese production

SPAIN- BASQUE COUNTRY

Budget allocated for execution: €127 918

**Starting date - expected end date** | 01.12.2016 – 31.12.2018

## Operational Group

[www.turtolio.com](http://www.turtolio.com)

The aim of the project is to study the integral use of rapeseed: cake for livestock feeding and oil for boilers. A previous project concluded that rapeseed is adequate, but not easy to use in animal feed factories, so in this project, farmer will test rapeseed cake in feed ration, separately.

On the other hand, the second objective is to use the oil in boilers, as fuel, to increase the energetic efficiency of artisanal cheese factories



**Lead partner: Kerixara sll (Farmer)**

## Other partners

### Research / Advice

- ▶ Neiker - Tecnalia
- ▶ Noemi Salazar Gómez (nsg)

### Farmers

- ▶ Kerixara sll (artisanal cheese maker)
- ▶ Kerezara Nekazalturismoa (Agroturism)



## Project contact:

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## Workshop contact:

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| [fajuria@idiazabalgazta.eus](mailto:fajuria@idiazabalgazta.eus)

# ICT-BIOCHAIN – ICT tools in efficient biomass supply chains for sustainable chemical production

EU – IRELAND, SPAIN

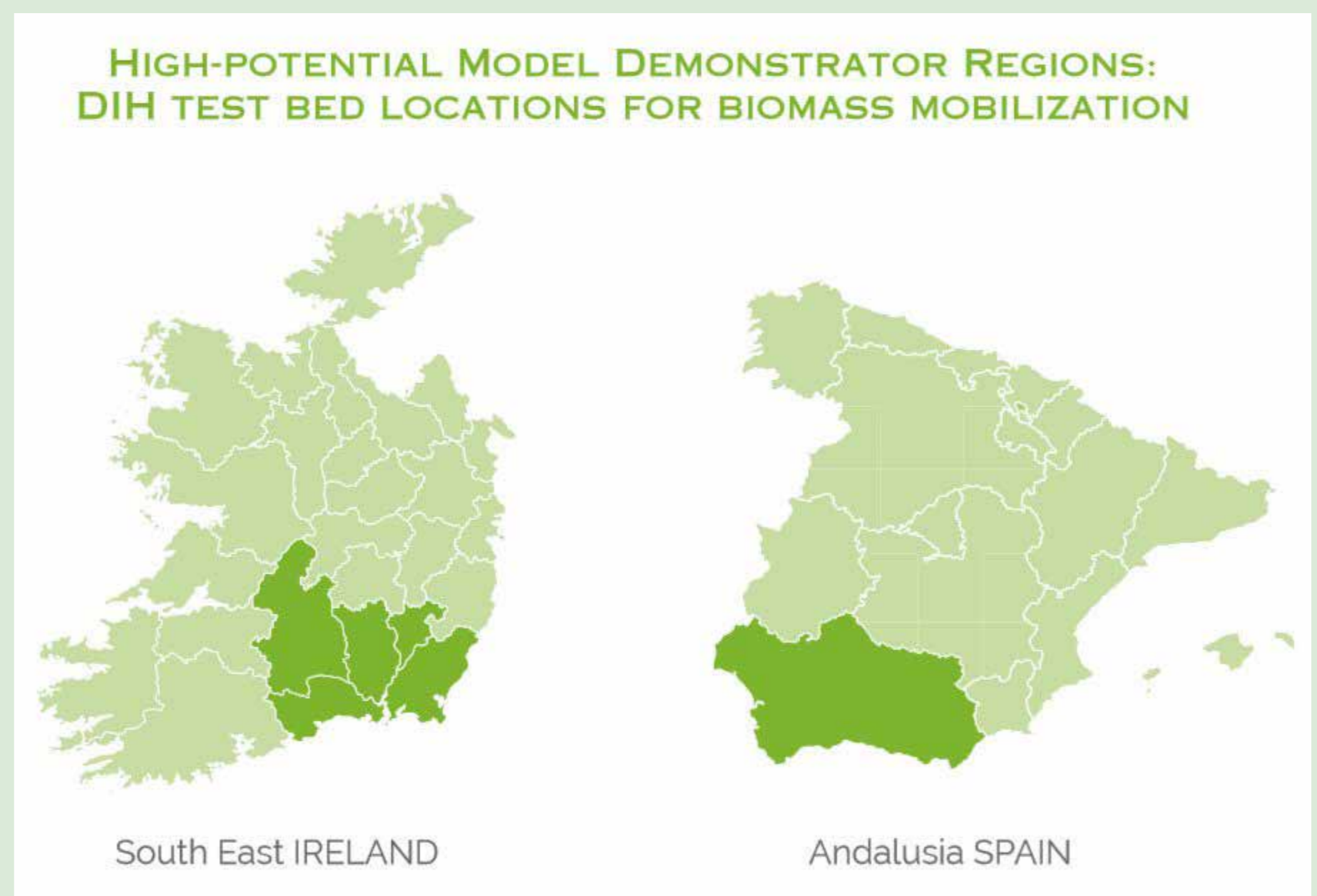
Budget allocated for execution: €999 668

Starting date - expected end date | 01.06.2018 - 31.05.2020

## Projects under the Biobased Industry Joint Undertaking

[ictbiochain.eu](http://ictbiochain.eu)

ICT-BIOCHAIN supports the development of efficient regional biomass supply chains for bioeconomy regions (model demonstrator regions for sustainable chemical production) in South-East Ireland and Andalusia. The project pilots a consistent transferable approach for developing regional bioresource data models, identifies opportunities for ICT, IOT and Industry 4.0 technologies to improve biomass supply chains, and supports multi-actor networks (primary producers, biobased industries, technology providers) managed by Europe's first Digital Innovation Hubs for a circular bioeconomy. ICT-BIOCHAIN will develop a roadmap for transferring the methodology developed to other EU bioeconomy regions.



**Lead partner: Viceministry of Agriculture, Fisheries and Rural Development of Andalusia (ES)**

### Other partners

#### Research

- ▶ Institute of Technology, Tralee (IE)
- ▶ University of Strathclyde (UK)
- ▶ VTT Technical Research Centre of Finland (FI)
- ▶ Fraunhofer-Institut für Materialfluss und Logistik (DE)
- ▶ Technological Corporation of Andalusia (ES) Bioeconomy

#### Bioeconomy association

- ▶ Irish Bioeconomy Foundation (IE)

#### SMEs

- ▶ Sustainable Innovations Europe (ES)



**Project contact:** **Judit Anda** | Tabladilla s/n, 41013 Sevilla  
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**Workshop contact:** **James Gaffey**  
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# Circular Agronomics

## EUROPE

Budget allocated for execution: €6 999 795.50

Starting date - expected end date | 01.09.2018 - 31.08.2022



### Horizon 2020 multi-actor project

[www.circularagronomics.eu](http://www.circularagronomics.eu)

#### Objectives:

1. Increase the understanding of C, N, P flows and the potential to reduce environmental impacts at farm and regional level under different bio-geographical conditions
2. Closing nutrient loops and increase the reuse of waste/wastewater from food-industry to improve soil fertility and to increase nutrient use efficiency
3. Highlight the performance of different prototypes of agro-ecological systems and increase sustainability of food production in the EU
4. To contribute to the improvement of the EU Agricultural Policies by providing evidence based, farmer led and consumer recommendations for the agri-food chain

**Lead partner: IRTA (Institute de Recerca i Tecnologia Agroalimentàries). Research institute, Catalonia, Spain**

#### Other partners

#### Research

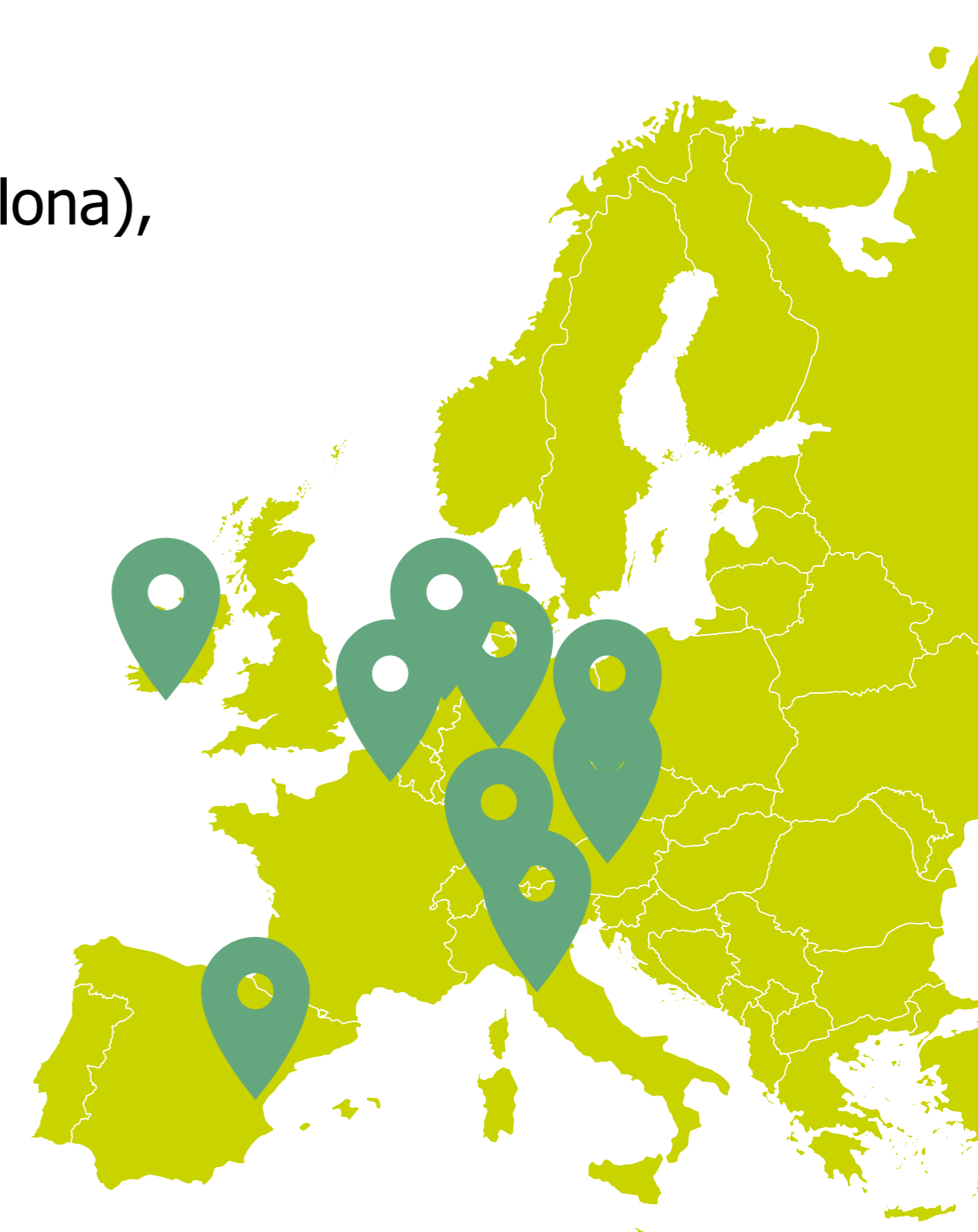
- Kompetenzzentrum Was Torre Marimon. 08140, Caldes de Montbui (Barcelona), Spain ser Berlin
- Wageningen University
- Institut für Agrar- und Stadtökologische Projekte
- Technische Universität München
- Agricultural Research and Education Centre
- Center for Agro-food Economy and Development
- Agriculture and Food Development Authority
- Agroscope.

#### SME

- SOGESCA
- PONDUS
- EMA
- NURESYS
- ASIO
- SOEPENBERG

#### Foundation and organisations

- Fondazione CRPA
- Rural Investment Support for Europe
- The Eastern Africa Farmers Federation



**Project contact: Victor Riau** | Torre Marimon. 08140, Caldes de Montbui - Barcelona (ES)  
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**Workshop contact: Paolo Mantovi**  
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# TRUE - Transition Pathways for Sustainable Legume-based systems in Europe



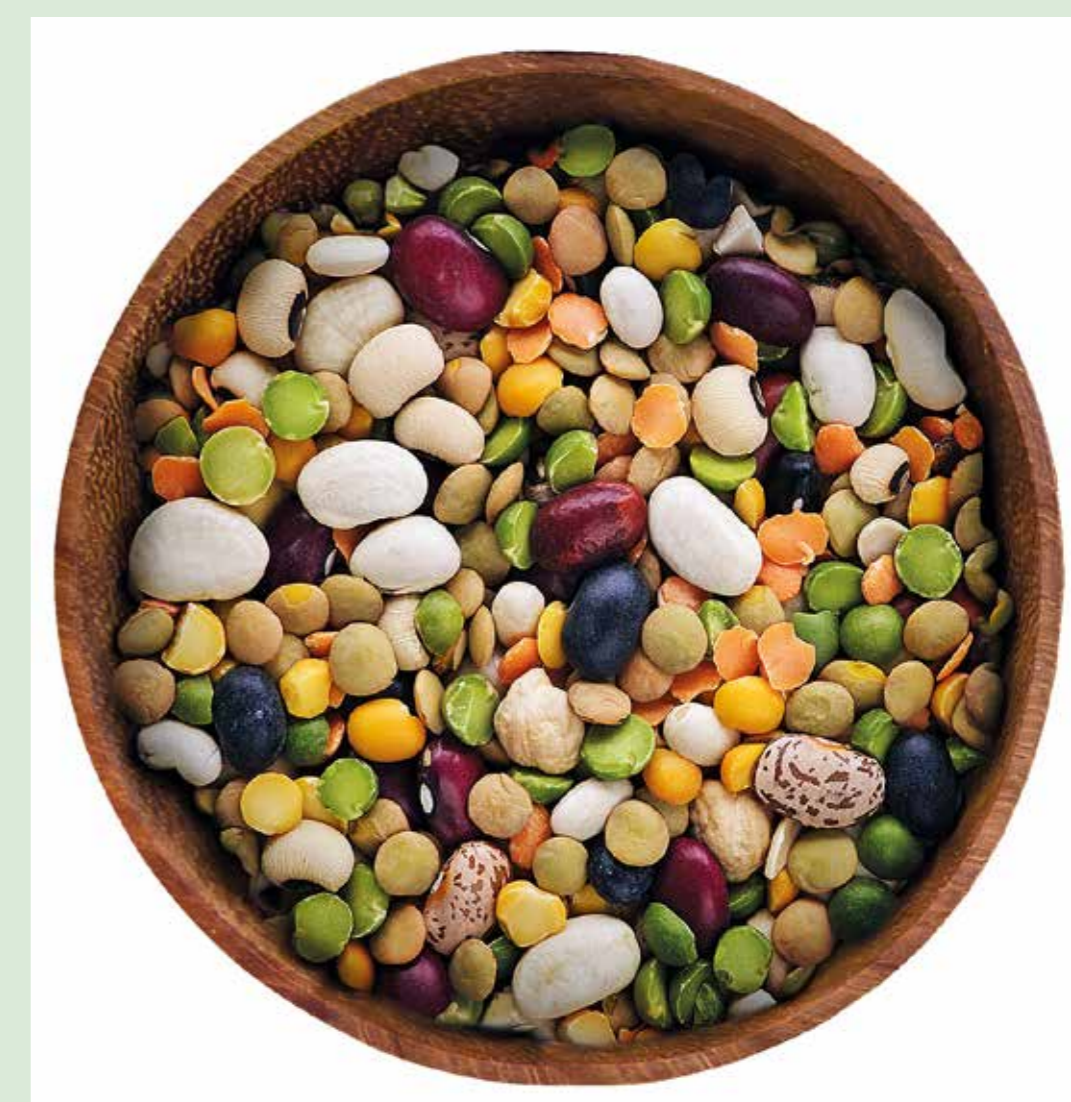
**Starting date - expected end date | 01.04.2017 - 30.03.2021**

## Horizon 2020 multi-actor project

[www.true-project.eu](http://www.true-project.eu)

TRUE utilises a suite of innovative Case Studies which span the agri-food system and demonstrate the added-value of **home-grown grain- and forage-legumes**. The Case Study data is allied to information from the TRUE European Legume Innovation Network workshops to inform: Life Cycle Analysis, economics policy-appraisals and multi-attribute decision aid modelling. Thus, TRUE comprises nine strategic Work Packages (WP): WP1, Knowledge Exchange and Communication - WP2, Case Studies - WP3, Nutrition and Product Development - WP4 Markets and Consumer; WP5, Environment - WP6 Economics - WP7, Policy and Governance - WP8, Transition Pathways - WP9, Coordination.

The approach delivers new tools to test and valorise legume-based diversification for all 'three pillars of sustainability' – economy, society and environment.



## Lead partner: James Hutton Institute

### Other partners

#### Research and universities

- ▶ Coventry University ▶ Scotland's Rural College ▶ Kenya Forestry Research Institute
- ▶ Universidade Católica Portuguesa ▶ Universitaet Hohenheim ▶ Agricultural University of Athens ▶ Bangor University ▶ Institut Jozef Stefan, European Social Sciences Research Group, Alfred-Wegener-Institut ▶ Agriculture And Food Development Authority ▶ Trinity College Dublin

#### Developmental agencies/social enterprises/farmers

- ▶ Public Institution REDEA ▶ Slow Food Deutschland ▶ Sociedade Agrícola do Freixo do Meio, Lda ▶ Eurest ▶ Solintagro

#### SMEs

- ▶ Stockbridge Technology Centre ▶ Institute for Food Studies & Agroindustrial Development, Processors and Growers Research Organisation, IGV GmbH ▶ Agri Kulti Kft ▶ Arbikie Distilling Ltd



**Project contact:** **Pete Iannetta** | James Hutton Institute  
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## AFINET – Agroforestry Innovation Networks

Spain, UK, Belgium, Portugal, Poland, Hungary, Italy, France and Finland

Budget allocated for execution: €1 999 987

Starting date - end date | 01.01.2017 - 31.12.2019

### Horizon 2020 Thematic network

[eurafagroforestry.eu/afinet](http://eurafagroforestry.eu/afinet)

AFINET is a Thematic Network aimed to foster the information exchange and knowledge transfer in the agroforestry sector. Agroforestry is a type of Climate-Smart Agriculture consisting of the intentional mixing of trees or shrubs into crop and/or animal production systems to create environmental, economic and social benefits. In nine Regional Agroforestry Innovation Networks, stakeholders will identify knowledge gaps and main challenges regarding the topics selected in each region. They also provide research results, existing good practices and innovative ideas from the field that can fill the gaps and face the identified challenges, to stimulate uptake of innovative agroforestry practices.



**Lead partner: Universidad de Santiago de Compostela (ES)**  
(research)

### Other partners

- ▶ Organic Research Centre & ABACUS Agriculture (UK)
- ▶ Institute for Agricultural and Fisheries Research & INAGRO (BE)
- ▶ Instituto Superior de Agronomia (PT)
- ▶ Institute of Soil Science and Plant Cultivation (IUNG-PIB)(PL)
- ▶ University of Sopron Cooperational Research Centre (HU)
- ▶ Istituto di Biologia Agro-ambientale e Forestale (IT)
- ▶ European Agroforestry Federation (Int.)
- ▶ Association Française d' Agroforestrie (FR)
- ▶ Fundación Empresa-Universidad Gallega (ES)
- ▶ European Forest Institute (FI)



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# AGRIFORVALOR - Bringing added value to agriculture and forest sectors by closing the research and innovation divide



IRELAND, ANDALUSIA (SPAIN) AND HUNGARY

Budget allocated for execution: €1 997 416.25

Starting date - expected end date | 01.03.2016 - 31.08.2018

## Horizon 2020 Thematic network

[www.agriforvalor.eu](http://www.agriforvalor.eu)

AGRIFORVALOR's vision is to connect a range of stakeholders in order to achieve new value chains, and stimulate biomass sidestream market uptakes into value-added products.

The focus of the project is on the transfer of know-how and information to enable and support farmers and foresters to exploit existing research results and the facilitation of business model development for new bio-industry start-ups. Practitioners are united in three Biomass Innovation Design Hubs, piloted in Spain (Andalucía), Hungary and Ireland.

AGRIFORVALOR delivers an added value to the primary sector and to the Bio-economy community in general, having developed end-user materials and tools for farmers and foresters enabling knowledge transfer and capacity building. This will contribute significantly to achieving new value chains and stimulating biomass sidestream market uptakes into value-added products in Europe.



## Lead partner: Steinbeis 2I GMBH

### Other partners

#### Research and Innovation

- ▶ Institute Of Technology Tralee
- ▶ Universiteit Gent
- ▶ Stichting Wageningen Research
- ▶ Agencia Andaluza Del Conocimiento
- ▶ Bay Zoltan Alkalmazott Kutatasi Kozhasznu Nonprofit Kft.
- ▶ Teagasc - Agriculture And Food Development Authority
- ▶ Nemzeti Agrarkutatasi es Innovacioskozpont
- ▶ Lenduletben az Agro-Biotech Vallalkozas-Fejlesztéssel Innovation
- ▶ Non-Profit Alapítvány

#### SMEs and bio-industries

- ▶ Gabinete de Iniciativas Europeas, S.A.
- ▶ Pilze-Nagy Kft.1
- ▶ Ibec Limited\*Irish Business And Employers Confederation
- ▶ Growabric

#### Farmer associations

- ▶ Cooperativas Agro-Alimentarias De Andalucia
- ▶ Asociacion de Empresas Forestales y Paisajisticas de Andalucia
- ▶ Feirmeoiri Aontuithe na H-Eireann Iontaobiathe Teoranta Lbg



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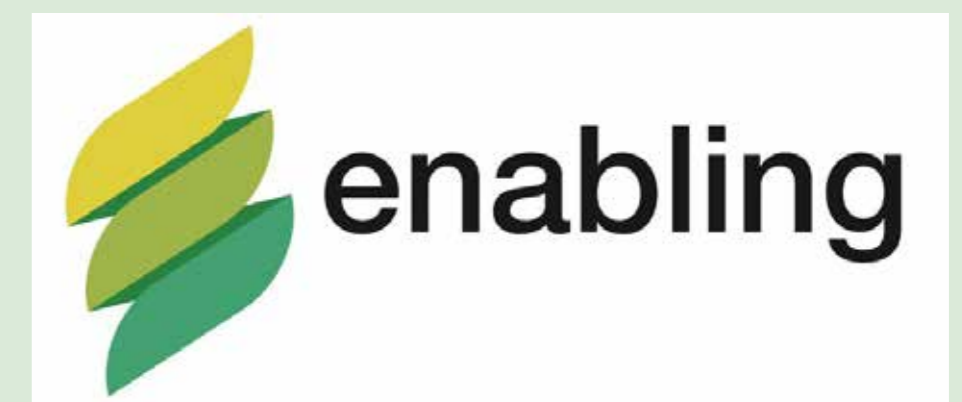
## ENABLING

### Enhance New Approaches in BioBased Local Innovation Networks for Growth

16 PARTNERS FROM 13 COUNTRIES

Budget allocated for execution: €1 997 640

Starting date - expected end date | 01.12.2017 - 30.11.2020



#### Horizon 2020 Thematic network

[www.enabling-project.com](http://www.enabling-project.com)

Enabling will contribute to bridging the gap of knowledge between farmers and foresters with research and innovation.

The project will gather and communicate best practices in the production, pre-processing and provision of biomass for Bio-based Products and Processes, across Europe.

It aims at favoring and reinforcing networks around the European bio-based Industry, improving and systematising collaboration among different stakeholders.

Key actors interested by the initiative are those operators working as suppliers of biomass streams, the processing and transformation industry as well as further stakeholders connected with biomass production and transformation processes.

#### Lead partner: Federunacoma, The Italian Agricultural Machinery Manufacturers Association

#### Other partners

- ▶ Itabia (Italian Biomass Association)
- ▶ Tinada (SME)
- ▶ BB Projecten (Extension Service)
- ▶ Western Norway Research Institute
- ▶ Celignis Biomass Analysis Laboratory
- ▶ European Centre for Renewable Energy
- ▶ Biomass Bulgaria
- ▶ Collision and Associates (SME)
- ▶ The Southern Agriculture and Horticulture Organization (ZLTO)
- ▶ Core Innovation (SME)
- ▶ Wireless Info (Technology Transfer)
- ▶ MIGAL Galilee Research Institute Ltd
- ▶ ACTIA - The French Network of Food Technology Institutes
- ▶ Euknow – European Knowledge (SME)
- ▶ EPC - Eimer Projekt Consulting (SME)



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# BIOCIRCULAR - Bioproduction System for Circular Precision Farming

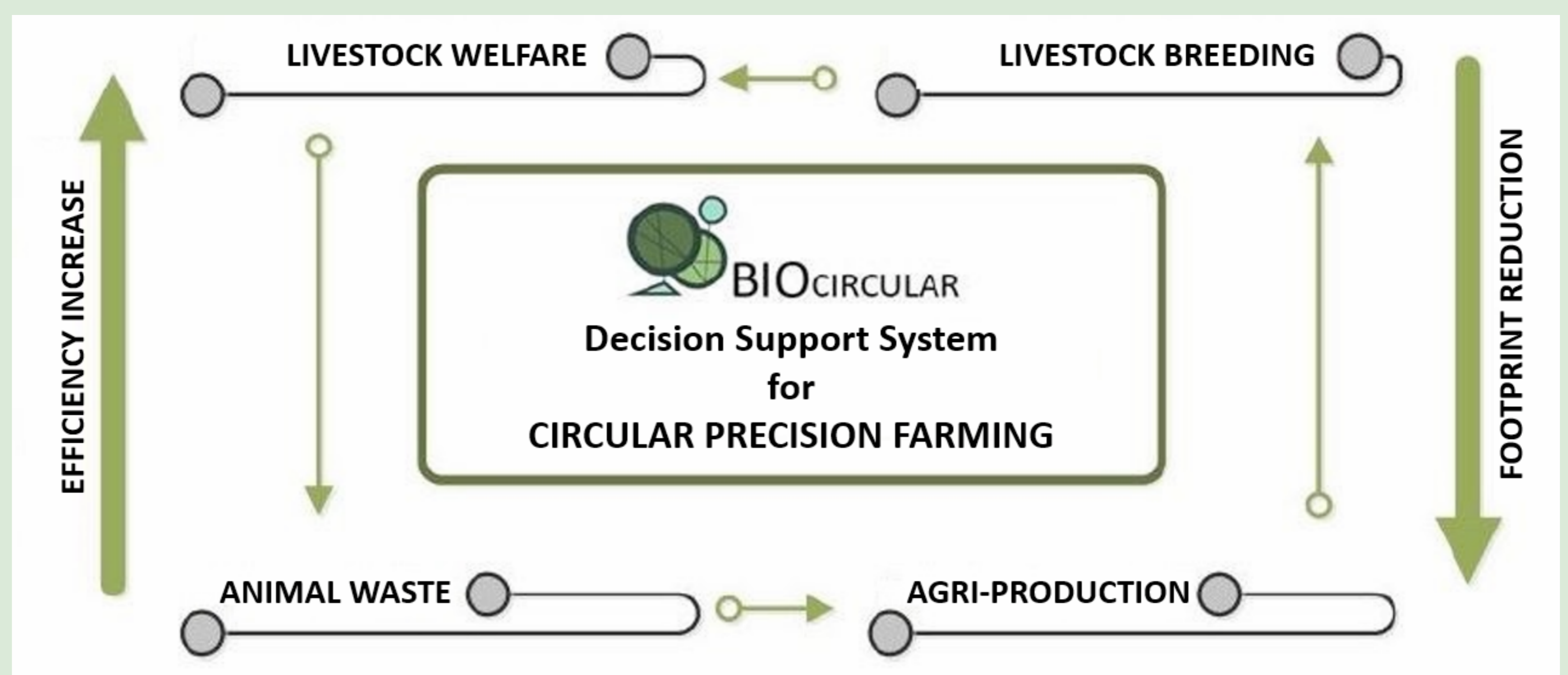
GREECE – CENTRAL MACEDONIA REGION

Budget allocated for execution: €994 614.68

Starting date - expected end date | 07.09.2018 – 08.09.2021

## Innovative project

BIOCIRCULAR aims to tackle major issues in inefficient and unsustainable farming practices leading to inappropriate application of resources such as artificial fertilisers, non-optimised value chains in the production system, and insufficient data handling and processing. This will be aimed through the incorporation of smart farming and smart processing processes into an integrated system for the optimal management of a middle-sized farm and the minimisation of its carbon footprint. BIOCIRCULAR will bring together novel ICT and cross-border multidisciplinary expertise in precision farming and aims to develop economically viable advanced smart technologies and software integrating multiple levels of farm decision making, considering and integrating business intelligence, Systems Engineering, Future Internet and Data Informatics disciplines, within a whole systems framework.



**Lead partner: American Farming School (independent, non-profit educational organisation)**

## Other partners

### Research

- ▶ Institute of Bio-economy and Agri-technology / Center for Research and Technology Hellas
- ▶ Aristotle University of Thessaloniki, Greece

### SME

- ▶ Engineering for Business
- ▶ Ergoplanning



## Project contact:

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# EMBRACE - European Med-clusters Boosting Remunerative Agro-Wine Circular Economy MEDITERRANEAN

Budget allocated for execution: €2 140 390.50



**Starting date - expected end date | 01.02.2018 - 30.07.2020**

## Innovative project

[www.embrace.interreg-med.eu](http://www.embrace.interreg-med.eu)

The main objective is to assist SMEs and clusters with the principle of the circular economy and promote related innovation processes; Promote clustering mechanisms at MED Level addressed to SMEs; Support Local Regional Authorities with innovative financial instruments.

SMEs will be supported in the development of eco-innovation ideas (Awareness&Assistance); A toolkit will be created (ECO-CANVAS : sustainable design with business innovation, environmental criteria and strategy tools) and a set of training content (SMEs; Intermediaries; Policy Makers.)

## Lead partner: T2I – Technology Transfer And Innovation (Veneto)

### Other partners

- ▶ Development Agency Of The Una – Sana Canton (BOSNIA AND HERZEGOVINA)
- ▶ Serge - Gouvernement Of Aragon Aragón (Spain)
- ▶ FEDACOVA-Valencian Federation Of Agrifood Industries Comunidad Valenciana (Spain)
- ▶ AVIPE - Palmela's Wine Grape Growers Association (Portugal)
- ▶ Local Action Group Partenio Consortium Campania (Italy)
- ▶ Corsican Development Fund Corse (France)
- ▶ Primorska Technology Park Zahodna (Slovenija)
- ▶ Ass.For.Seo Consortium Society Lazio (Italy)
- ▶ Federation Of Industries Of Northern Greece (Kentriki Makedonia)



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# GreenAgri – Environmentally-friendly Management of Organic Fertilizers in Agriculture

LATVIA, ESTONIA

Budget allocated for execution: €859 491.51

**Starting date - expected end date | 01.09.2015.-30.08.2019**



## Innovative project

[epkk.ee/en/green-agri](http://epkk.ee/en/green-agri) - [zemniekusaeima.lv/greenagri](http://zemniekusaeima.lv/greenagri)

The project GreenAgri aims at reducing nutrient losses from agriculture in Baltic States by introducing and testing environmentally-friendly management of organic fertilisers. The project is a joint effort of farmers from Estonia and Latvia. During the project period, 20 farmers from Estonian and Latvian pilot areas implement innovative technologies and methods in real life using their own financial resources. Experts and researchers gather and analyse nutrient runoff data and provide the farmers with information about the efficiency of different solutions demonstrating real results.



**Lead partner:** Estonian Chamber of Agriculture and Commerce (Estonia)

### Other partners

- ▶ NGO "Farmers Parliament" (Latvia)



**Project contact:** Silja Lehtpuu, project co-ordinator

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## Local Economic Development, (focusing on non-timber forest product (NTFP) and wood/crop biomass value chains)

**ALBANIA** (generally applicable to all six balkan countries seeking eu membership)

**Budget allocated for execution: +/- €500 000 (Year 1)**

**Starting date - expected end date | 01.03.19–28.02.20**

### Innovative project

[www.cnvp-eu.org](http://www.cnvp-eu.org)

**Main objective:** Enhance economic growth of rural mountainous Albania through the development of marketing systems for NTFP and wood/crop biomass value chains

#### Description:

- developed markets for quality NTFPs and wood/crop biomass products
- well-functioning NTFP and wood/crop biomass product producer groups
- improved enabling environment for the marketing and management/production of NTFPs and wood/crop biomass products.



**Lead partner: Connecting Natural Values & People (CNVP)**  
internationally and locally registered NGO



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# MEDIOPUNTIA - Introducing cactus plantations (Opuntia spp.) and smart water management systems in marginal lands of Egypt and Morocco to drive rural renaissance in the Mediterranean Region



PORTUGAL - MEDITERRANEAN

Budget allocated for execution: €400 000

Starting date - expected end date | **01.05.2018 – 30.04.2021**

## Innovative project

MediOpuntia purpose is to promote the establishment of Opuntia spp. in dry marginal lands in the Mediterranean adopting efficient water management systems; the project will give demonstration of the use of Opuntia as food in a micro-scale processing chain, with the goal to provide jobs and small business opportunities at all social levels, elevating the role of women and youth in the social nets of the rural communities. Added value to the sub products will be enhanced through its processing for edible coatings.



**Lead partner: Universidade NOVA de Lisboa (Higher Education Institution, Research Institution)**

## Other partners

### Research

- ▶ City of Scientific Research and Technological Applications, Egypt
- ▶ Consiglio per la ricerca in agricoltura e l'analisi dell'economia agrarian, Italy
- ▶ Université Cadi Ayyad, Morocco



## Project & workshop contact:

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# Sustainable Bioeconomy Guidelines worldwide

Budget allocated for execution: €1 700 000

Starting date - expected end date | 01.04.2017 - 31.08.2020

## Innovative project

<http://www.fao.org/energy/bioeconomy/en/>

The bioeconomy offers the unique opportunity to comprehensively address interconnected societal challenges such as food and nutrition security, fossil-resource dependence, natural resource scarcity and climate change, while achieving sustainable economic development. However, developing the bioeconomy as such is not sustainable per se. It is crucial that bioeconomy development does not hamper but rather strengthens food security as a basic human need and right, while also helping to achieve several other Sustainable Development Goals. Taking this into account, in January 2015, on the occasion of the Global Forum for Food and Agriculture summit in Berlin, 62 Ministers of Agriculture recommended the FAO to coordinate international work on sustainable bioeconomy. To that end, the German Ministry for Food and Agriculture has provided support to FAO to develop Sustainable Bioeconomy Guidelines to assist countries as well as producers and users of biomass and bioproducts in developing and implementing sustainable bioeconomy strategies, policies and programmes.



**Lead partner: United Nations Food and Agriculture Organization (FAO)**

## Other partners

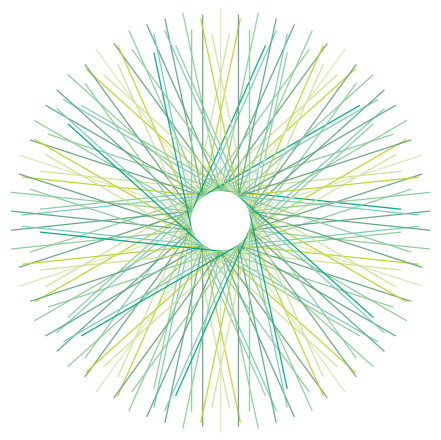
The International Sustainable Bioeconomy Working Group on Sustainable Bioeconomy, which is composed of policy-makers, private sector, civil society and scientists, advises FAO in the development of sustainable bioeconomy guidelines. The German Ministry for Food and Agriculture finances this project.



**Project & workshop contact:**

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## WETWINE - Transnational cooperation project to promote the conservation and protection of the natural heritage of the wine sector in the SUDOE area

FRANCE, PORTUGAL AND SPAIN

Budget allocated for execution: €940 981.49

Starting date - expected end date | 01.07.2016 - 30.06.2019

### Innovative project

[wetwine.eu](http://wetwine.eu)

WETWINE project has been launched, a pilot experiment based on anaerobic digestion and wetland treatment of water and sludge, which puts into value the rational use of resources and their revaluation, as a result in a fertiliser for the vineyard that will limit the generation of waste and the contamination of soils and waters of our territory. Specific objectives: Validate a management revaluation wine wastes system; Obtaining a quality fertiliser product; Technological transfer and dissemination of the new technology in addition to environmental awareness.



**Lead partner: Axencia Galega da Calidade Alimentaria - AGACAL**

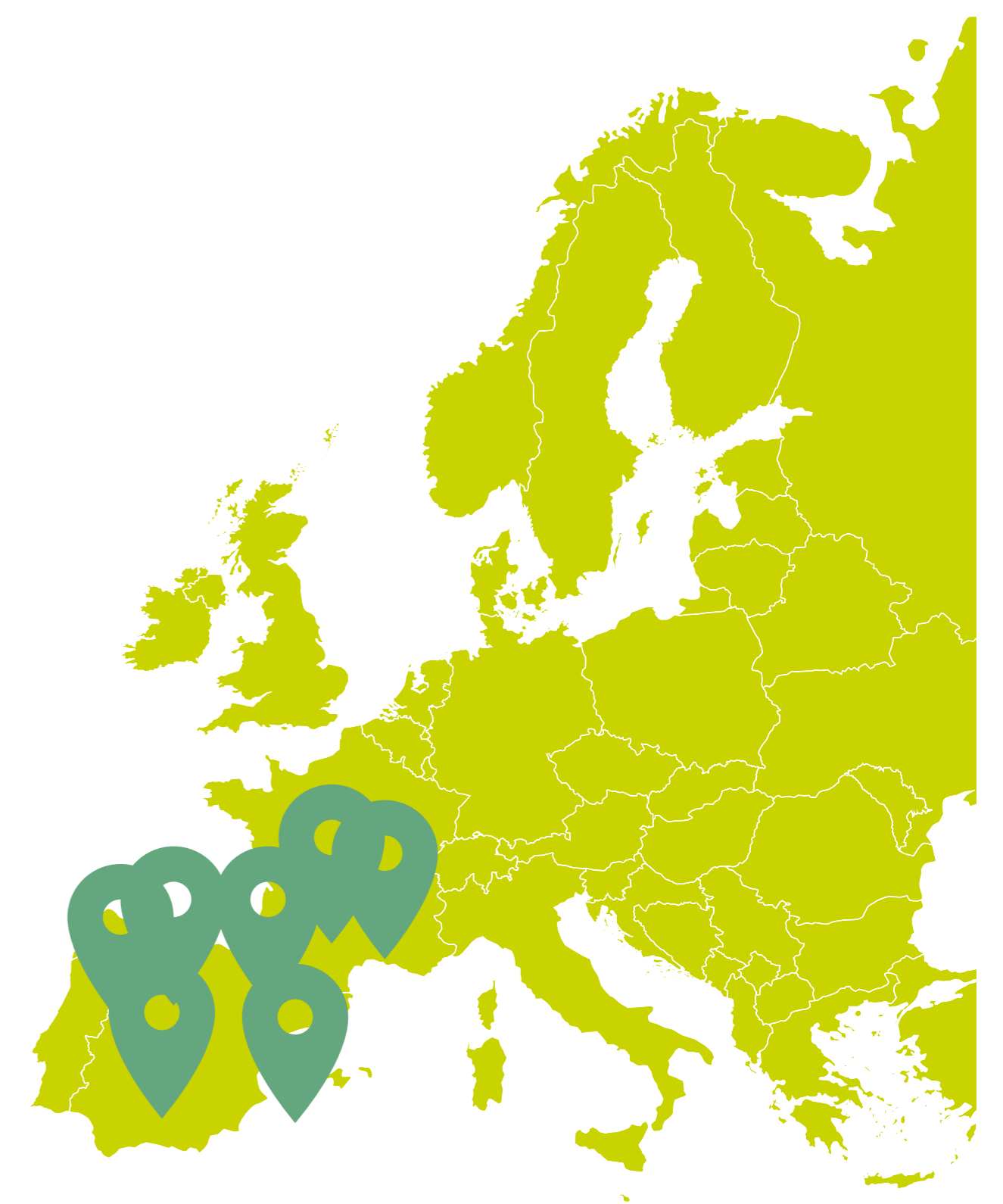
### Other partners

#### Research

- ▶ Asociación de Investigación Metalúrgica del Noroeste – AIMEN
- ▶ Fundación Empresa –Universidad Gallega – FEUGA
- ▶ Consejería de Agricultura, Ganadería y Medio Ambiente, Gobierno de la Rioja
- ▶ Universitat Politècnica de Catalunya – UPC
- ▶ Institut Français de la Vigne et du Vin Pôle Sud-Ouest - IFV SUD-OUEST
- ▶ Institut National de la Recherche Agronomique – INRA

#### Farmers

- ▶ Associação para Desenvolvimento da Viticultura Duriense – ADVID



### Project contact:

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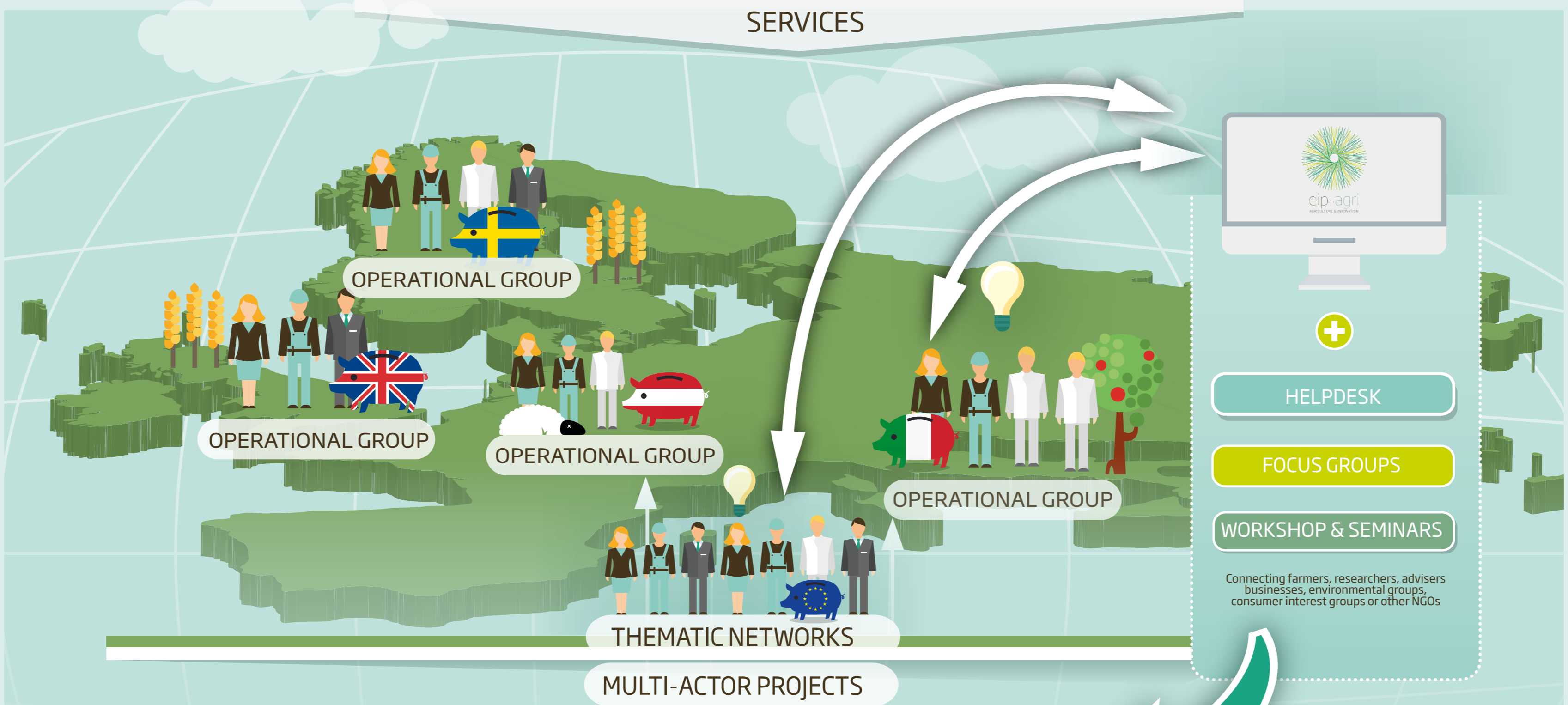
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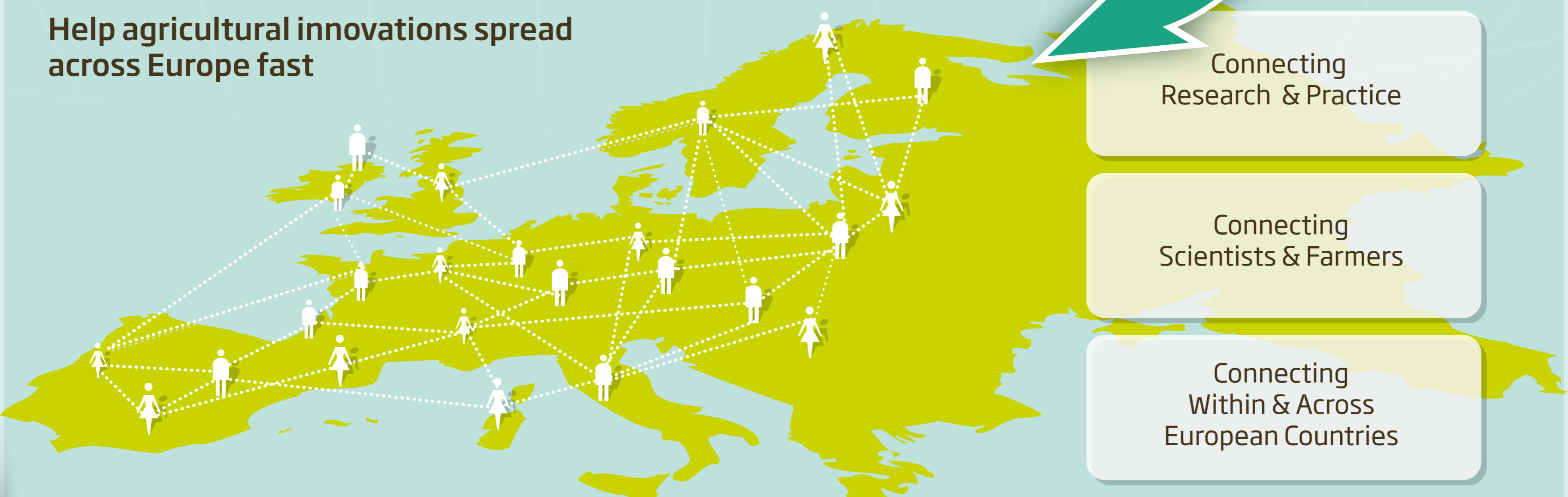
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**EIP-AGRI Service Point**  
SHARING KNOWLEDGE - CONNECTING PEOPLE - TACKLING CHALLENGES



Help agricultural innovations spread across Europe fast



**GOAL** The EIP-AGRI Service Point aims to build bridges between science and practice in order to foster a productive and sustainable agriculture and forestry through innovation.

This booklet was created for the **EIP-AGRI Workshop “Opportunities for farm diversification in the circular bioeconomy”**, 6-7 February 2019 in Vilnius, Lithuania.

For more information on Operational Groups, **download the EIP-AGRI brochure on Operational Groups – update 2016** (available in several languages) from **www.eip-agri.eu**.

The content for this document was provided by the workshop participants, and does not represent the views of the European Commission.

## Stay up to date!

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