eip-agri
AGRICULTURE & INNOVATION

INNOVATIVE PROJECTS CATALOGUE

UPDATE MARCH 2019

A collection of innovative projects presented at EIP-AGRI events

funded by European Commission

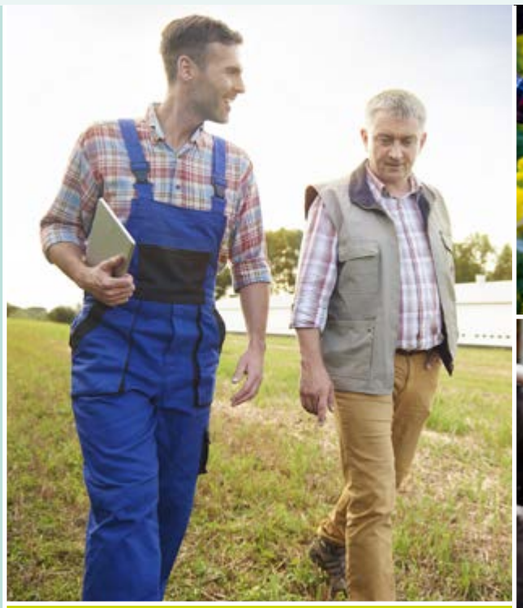
Innovation in practice

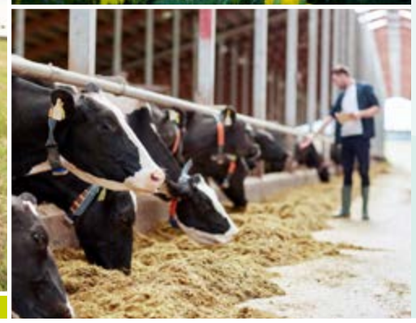
The EIP-AGRI connects farmers, researchers, agribusinesses and others to share knowledge, ideas and experiences, and to jointly identify barriers and opportunities as well as solutions.

This has already led to 29 thematic networks, over 100 multi-actor projects and around 1000 Operational Group projects all over Europe that work on finding concrete innovative solutions for problems farmers and foresters are facing. The past years the EIP-AGRI Network has brought together people from projects working on themes such as organic farming, innovative supply chains, water management and circular bioeconomy.

In this catalogue, you get to know 200 projects that have been presented at EIP-AGRI events between April 2016 and February 2019. The catalogue presents the projects by theme as well as by country. Get inspired and implement solutions found by others in your own work or start your own innovative project.

This is an EIP-AGRI Service Point publication
Innovative projects catalogue, March 2019
Pictures: Andrew Francis / Elveden Farms, EIP-AGRI Service Point, Jorge Sierra / WWF Spain, Paolo Mantovi (Research Centre on Animal Production) and LIFE ReOpro, Shutterstock.
More information: www.eip-agri.eu





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The main catalogue themes are based on the 4 thematic EIP-AGRI workshops that were held from 2016 until 2019. Under 'other themes' you will find projects that have been presented at other EIP-AGRI events.

WATER & AGRICULTURE

ORGANIC FARMING

INNOVATIVE SUPPLY CHAINS

CIRCULAR BIOECONOMY

OTHER THEMES

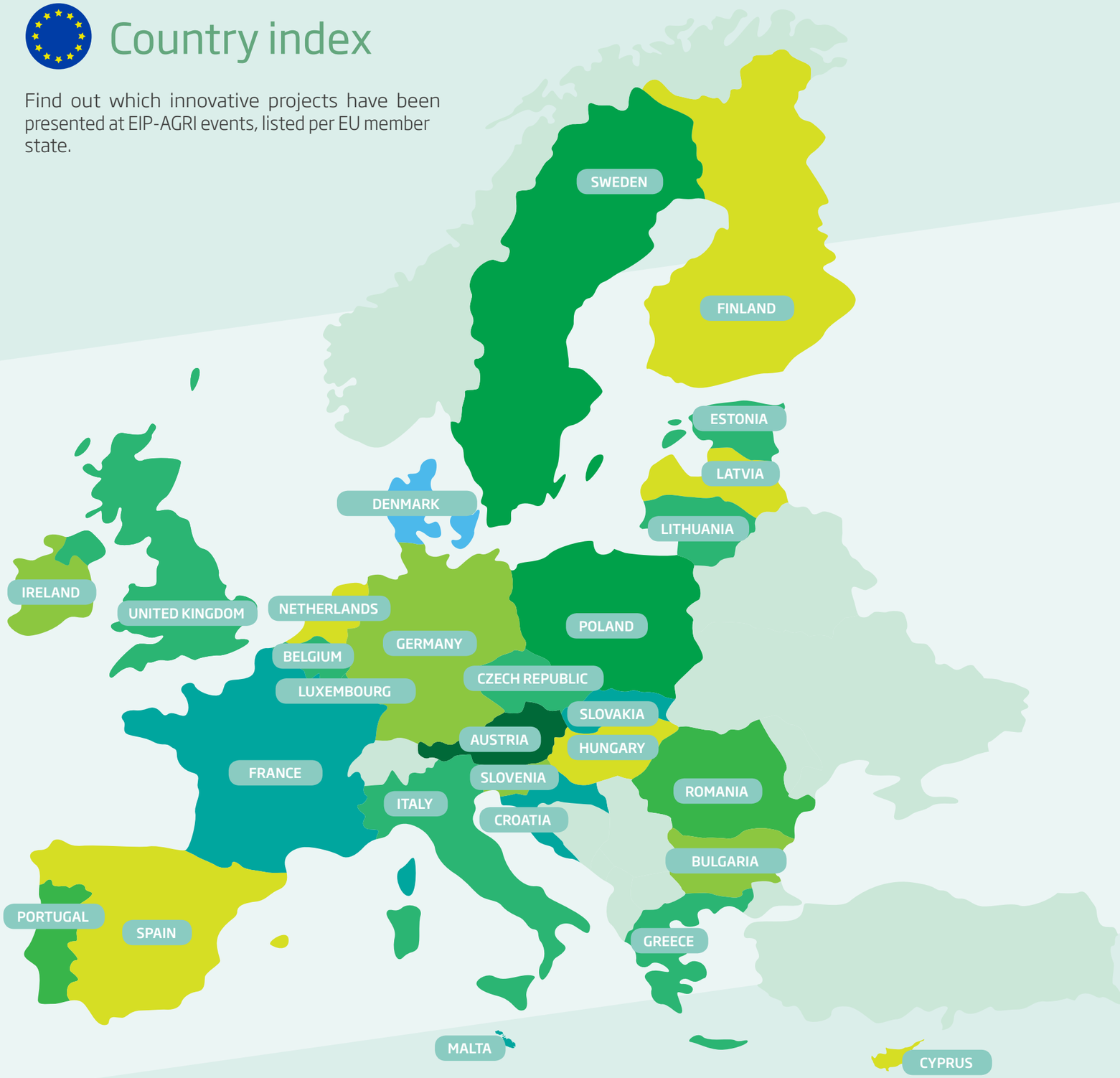
TIP:

You can easily jump from one theme to another by clicking the icons on every page.

More interested in projects per country? The country index helps you to easily visit all European countries.

Country index

Find out which innovative projects have been presented at EIP-AGRI events, listed per EU member state.



AUSTRIA
BELGIUM
BULGARIA
CROATIA
CYPRUS
CZECH REPUBLIC
DENMARK
ESTONIA
FINLAND
FRANCE
GERMANY
GREECE
HUNGARY
IRELAND
ITALY
LATVIA
LITHUANIA
LUXEMBOURG
MALTA
POLAND
PORTUGAL
ROMANIA
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SLOVENIA
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WATER & AGRICULTURE

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EIP-AGRI workshop 'Connecting innovative projects: water & agriculture'

30 - 31 May 2018 | Almeria, Spain

https://ec.europa.eu/eip/agriculture/en/event/eip-agri-workshop-connecting-innovative-projects

Controlled Traffic Farming (CTF)

Controlled Traffic Farming (CTF) – vaste rijpaden

BELGIUM - FLANDERS

Starting date - end date | **01.11.2016 – 28.02.2018**

More information (in Dutch): http://www.inagro.be/Artikel/guid/1939/type/1

Operational Group

Benefits of controlled traffic lanes have been proven in research and practice in recent years: optimal growing conditions for soil life and roots, more water storage capacity and better mechanical weed control are some of them. While these benefits are favourable for organic farming, lock-ins such as investments, legislation, adaptation of machinery, … hamper the implementation on farm level.

This project supports (organic) farmers in implementing CTF on their specific farm. The experiences of these 4 cases and the current knowledge inspires other farmers and stakeholders. Challenges for further research and development will be proposed to technology firms and research institutes.

As a main outcome, this project made CTF more accessible in Flemish (organic) agriculture.

Lead partner: Inagro (research institute)

Other partners

Research

- ILVO (research institute)
- University of Ghent (University)

Farmers

- Thierry Beaucarne (organic arable crops and vegetables)
- Frank Schelfhout (organic vegetables)
- Antoon & Jakob Devreese (organic dairy)
- Van den Borne Aardappelen (conventional arable crops)

SME

- Agri Lemahieu (constructor/distributor)
- Hilaire Van Der Haeghe (constructor/distributor)

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Les ArboNovateurs, for resilience in fruit growing and fruit growers proud of their craft

Des ArboNovateur® pour une arboriculture résiliente et des arboriculteurs fiers de leur métier

FRANCE - OCCITANIE

Starting date - expected end date | **01.01.2016 - 31.12.2017**

Operational Group

Water management of orchards in the territory is a strong issue for the different players in a deficit water catchment area, particularly in dry periods.

The aim is to improve water management in orchards, analysing different irrigation systems and designing decision tools.

Improved water management through the choice of more adequate irrigation systems and by enhancing their efficiency, thus adjusting the water quantity to the needs.

The water savings in optimized management are around 30%, i.e. 1000 m3 / ha on average for several years in apples. These data are being verifi… CEFEL.

Lead partner: Chambre d'Agriculture de Tarn et Garonne (farmers organisation)

Other partners

Research

- Centre d'Expérimentation Fruits et Légumes (research institute)

Farmers

GIEE Arbonovateur (farmers association)

SME

- TCSD-Comsag

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Irrigation control in crop production - situational, site-specific and automated (Precision Irrigation)

Steuerung des Zusatzwassereinsatzes in der Pflanzenproduktion - situativ, teilschlagspezifisch und automatisiert

NORTHEASTERN GERMANY

Starting date - expected end date | **08.04.2016 - 31.12.2019**

http://eip-pi-bb.de/de/

Operational Group

In the federal state of Brandenburg (Germany), irrigation of arable land is a measure to maintain agricultural value despite decreasing summer rainfalls. To avoid over-using the available water resources, however, a precise irrigation control needs to be developed and tested under local conditions.

We seek for an user-friendly solution for site-specific irrigation, which takes into account the actual water need of the crops. The potential of infrared thermography for precision irrigation control is evaluated in addition to traditional soil-based approaches. Cost-benefit analyses will reveal the economic feasibility of precision irrigation in our region.

Lead partner: Research Institute for Post-Mining Landscapes (Research Institute)

Other partners

Farmers

1. Grünhagen Ackerbau GmbH (cropping farm)
2. Agrarbetrieb Altdöbern (cropping farm)

Professional association

Fachverband Bewässerungslandbau Mitteldeutschland (Association for irrigation farming)

Advisory service

Irrigama Projektgesellschaft

Company

Hydro-Air international irrigation systems GmbH

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MeerGewinn - Nutrient removal by the production of renewable resources in constructed wetlands

Nährstoffrückhalt durch Produktion Nachwachsender Rohstoffe in Constructed Wetlands - MeerGewinn

GERMANY – MECKLENBURG-VORPOMMERN

Starting date - expected end date | **19.12.2016 – 30.06.2019**

http://www.duene-greifswald.de/de/projekte.php_meergewinn.php

Operational Group

The Project "MeerGewinn" promotes and sets up pilot projects dealing with the cultivation and utilisation of innovative plant species. Therefore we use nutrient-polluted water – for example from preflooders or farm runoffs.

Our goals: The Baltic Sea and the majority of all waterbodies of Mecklenburg-Prepommerania are issue to heavy nutrient discharge. Our goal is to use those nutrients for growing renewable resources within constructed wetlands. Besides removing a portion of the nutrients, the plants can be used to create economically interesting products. Those can be fodder, ornamental plants, herbs or simply renewable resources created by using formerly unused land.

Constructed Wetlands – a Chance for reducing the N and P concentration and, at the same time, to enhance the revenue

Lead partner: Institute DUENE Institute of sustainable development of landscapes of the earth" (German: Institut für Dauerhaft Umweltgerechte Entwicklung von Naturräumen der Erde e.V. - DUENE)

Other partners

Research

- University of Greifswald, Institute of landscape ecology and Nature conservation

Farmers

- TP Haffküste GmbH, Ückermünde

SME

- Joachim Krüger Pflanzenkläranlagen GmbH

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Sensor supported irrigation control of potatoes

Sensorgestützte Beregnungssteuerung in Kartoffeln (SeBeK)

GERMANY – NORTHEAST LOWER SAXONY

Starting date - expected end date | 08/2016 – 08/2019

www.wasser-suderburg.de

Operational Group

Increasing demand and competition for water access requires a sustainable utilisation concept to avoid future water scarcity. An innovative sensor-based irrigation control system will lower the amount of water for agricultural use. Due to sandy soils in the northeast region of Lower Saxony, irrigation infrastructure covers more than 90% of the agricultural area where potatoes and sugar beets are the predominant crops.

The approach is to exactly determine the demand for irrigation timing and duration by using thermal sensors measuring the crop temperature. This leads to data about the transpiration rate indicating drought stress (Crop Water Stress Index (CWSI)).

The goal is to increase the efficiency of irrigation and enhance the quality of potatoes. The concept will be assessed for regional farms first, later the potential for different regions and crops will be evaluated

Lead Partner

Ostfalia University of Applied Sciences

Faculty of Civil and Environmental Engineering, Campus Suderburg

Other partners

Research

- Johann Heinrich von Thünen Institute
  Federal Research Institute for Rural Areas, Forestry and Fisheries
- Georg-August-Universität Göttingen
  Faculty for Agricultural Sciences
- Chamber of Agriculture Lower Saxony, District office Uelzen

Farmers

- Farmer Hartmut Becker, Niendorf II/Wrestedt

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Conservation agriculture and bioenergy buffer strips for soil and water quality improvement (CABIOS)

Implementazione di tecniche di agricoltura conservativa e fasce tampone bioenergetiche per il miglioramento della qualità dell'acqua e del suolo

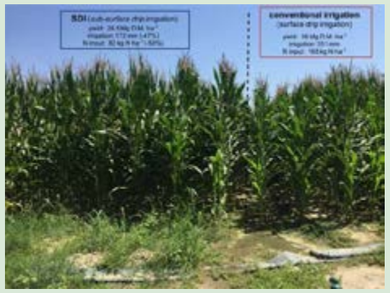
ITALY – EMILIA ROMAGNA

Starting date - expected end date | 01.01.2017 – 31.12.2019

http://cabios.crpa.it/nqcontent.cfm?a_id=14747

Operational Group

The main objectives are: 1) to improve crop N and water use efficiency and limit the release of nitrates and pesticides in surface and subsurface water bodies 2) to increase physical, chemical and biological soil quality. The farms involved in the project are four associated farms each other for the production of biogas. The project aims to implement an innovative management system of agroecosystem based on the integration of conservation agriculture (no tillage, cover crops and crop rotation) in combination with punctual and localized distribution of liquid fraction of digestate, subsurface drip irrigation (SDI) system and along the field borders with the realization of bioenergy buffer strips.



Lead partner: Università Cattolica del Sacro cuore (UCSC)

Other partners

Research

- Fondazione CRPA Studi Ricerche, Italy

Farmers

- Azienda Rossi
- Azienda Paraboschi
- Azienda Eridano
- Azienda Serena

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Data assimilation from soil-crop-climate sensor network in IRRINET DSS

Sensori e IRRINET: integrazione delle informazioni provenienti da reti di stazioni meteorologiche e sensori privati con il modello di bilancio idrico IRRINET

ITALY – EMILA ROMAGNA REGION

Starting date - expected end date **01.09.2016 - 31.03.2019**

http://www.consorziocer.it/it/p/sensori-e-irrinet/

Operational Group

This Innovation plan stems from the increasing interest, from growers and producers organizations, in the adoption of sensors to monitor environmental data related to the soil-plant-air system, sometimes even without technical support.
Hereafter, we report the main expected results from this project:
1. Possibility to integrate environmental data from private sensors and weather stations to the IRRINET DSS.
2. Creation of links between IRRINET and weather and soil sensors located in pilot farms.
3. Validation of the IRRINET irrigation scheduling advices based on the irrigation needs identified in farms using other site-specific DSSs
4. Identification of regional areas where an increase in sensor density for data acquisition could lead to an improvement in the representativeness of the collected data.
5. Development of a specific installation manual for weather stations according to WTO standards
6. Development of protocols for validation and integration in IRRINET of weather, soil humidity content, and fruit growth data collected at farm level.

Lead partner: Consorzio di Bonifica di secondo grado per il Canale Emiliano Romagnolo – CER (Research organization)

Other partners

Research

- Università di Bologna (DISTAL)
- Centro Ricerche Produzioni Vegetali (CRPV)

Farmers

- C.I.O. Consorzio Interregionale Ortofrutticoli S.c.a.r.l.
- Az. Agricola Sandri
- APOFRUIT

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FERRARA NITRATES: Agricultural practices to prevent nitrates pollution and promote organic matter conservation

Tecniche agronomiche per la prevenzione dell'inquinamento da nitrati e la conservazione della sostanza organica

ITALIA – EMILIA ROMAGNA

Starting date - expected end date | **01.09.2016 – 31.08.2019**

http://www.fondazionenavarra.it/nitrati_ferrara.htm

Operational Group

The aim is to develop agricultural practices to prevent nitrates pollution through the increase of organic matter content in soils.
Organic matter decreases the risk of water leaching and runoff and thus nitrates mobility. Moreover, recent scientific evidences prove that in fine soils organic matter availability favours the removal of the excess of nitrates via denitrification.
The project is carried out in two farms representative of fine-texture soils of the Pianura Padana, declared vulnerable to nitrates from agricultural origin. No tillage and minimum tillage regimes are compared to conventional practices for maize and wheat.
Expected results are the increase of soil organic matter, prevention of nitrates pollution, increase in the water retention capacity, stabilisation

Lead partner: Fondazione per l'Agricoltura F.lli Navarra

Other partners

Research

- Università degli Studi di Ferrara – Departement of Life Sciences and Biotechnology
- Fondazione CRPA – Research organisation
- i.ter – Progettazione ecologica del territorio
- Horta – Spin Off dell'Università Cattolica del Sacro Cuore
- Aretè – Research & Consulting in Economics

Farmers

- Azienda Agricola Sarto Graziano
- Azienda Agricola Sperimentale Fondazione F.lli Navarra

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Irrigation system optimization in fruit farming for adaptation to climate change

Razionalizzazione dei sistemi irrigui sulle colture arboree in risposta ai cambiamenti climatici

ITALY – EMILA ROMAGNA REGION

Starting date - expected end date | 01.04.2016 - 31.12.2018

http://www.consorziocer.it/it/p/razionalizzazione-dei-sistemi-irrigui-sulle-colture-arboree-in-risposta-ai-cambiamenti-climatici/

Operational Group

Regional fruit growers have been facing increasing difficulties to face both the extreme variability in the environmental conditions and the increasing frequency of drought events. This project aims at providing solutions to rationalise the use of irrigation systems:

- Comparing the effect of traditional drip irrigation and microsprinkler irrigation on four different scion/rootstock combinations of pear.
- Studying the effect of ultra-low drip irrigation systems, with driplines positioned slightly under soil, to limit evaporative and percolation water losses, on apple and pear.
- Defining specific guidelines for cooling irrigation (warning temperatures, working intervals and volume of the system)
- Identifying the time for irrigation during the day which optimises resource partitioning to kiwifruit sinks

Lead partner: Consorzio di Bonifica di secondo grado per il Canale Emiliano Romagnolo – CER (Research organisation)

Other partners

Research

- Università di Bologna (DISTAL)
- Consiglio Nazionale delle Ricerche (CNR Ibimet)
- Centro Ricerche Produzioni Vegetali (CRPA)

Farmers

- Fondazione F.lli Navarra
- Az. Agricola Mazzoni
- APOFRUIT
- FRUIT MODENA GROUP

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MIrAgE: Improving irrigation efficiency toward a more sustainable agriculture

MIrAgE – Migliorare l'Irrigazione per un'Agricoltura Ecosostenibile

ITALY – EMILIA-ROMAGNA

Starting date - expected end date | 01.07.2016 – 31.12.2018

http://dipartimenti.unicatt.it/diproves-progetti-di-ricerca-mirage

Operational Group

MIrAgE aims to assess the efficiency of innovative irrigation systems (drip irrigation and subsurface drip irrigation) in comparison with traditional systems focusing on (i) effects on yield and grain quality; (ii) efficiency of the use of water (WUE) and fertilizers (NUE) and (iii) nutrients losses (NO_3 leaching). Expected results are:

- Resolution of water supply problems thanks to the use of smaller volumes distributed during the growing season in association with fertilisation;
- Implementation of technical and advisory services offered by agriculture consortia to encourage the diffusion of innovative irrigation systems on the territory.

Lead partner: Università Cattolica del Sacro Cuore, Italy (University)

Other partners

Research

- Azienda Agraria Sperimentale Stuard (Experimental Farm)

Farmers

- Michele Lodigiani/Società Agricola del Trebbia
- Giovanni Zangrandi/Azienda Agricola Zangrandi Giovanni

Extension services

- Agriform (Training center)
- Terrepadane (Agriculture Consortium)
- Consorzio di Bonifica di Piacenza (Land reclamation and drainage authority)

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Network management of the shallow ground water table depending on rainfall and the seepage from conveyance network of land reclamation consortiums

Gestione della rete di misura della falda ipodermica in funzione delle precipitazioni e del sostegno dei canali della rete dei Consorzi di Bonifica

ITALY – EMILA ROMAGNA REGION

Starting date - expected end date | **01.04.2016 - 31.03.2019**

http://www.consorziocer.it/it/p/gestione-delle-rete-di-misura-della-falda-ipodermica-in-funzione-delle-precipitazioni-e-del-sostegno-dei-canali-della-rete-dei-consorzi-di-bonifica/

Operational Group

The shallow groundwater table of Emilia-Romagna plain is a resource whose contribution either positive (water supply of crops), or negative (salt wedge) has still not been clearly delineated.

This Plan proposes to determine the influence of shallow water table on crops, in particular in the strip in which it is fed by seepage from the network consortium channels, and to make an estimation of the environmental and economic benefits. In addition, it intends to make economically sustainable the regional monitoring network of freatic water table.

Lead partner: Consorzio di Bonifica di secondo grado per il Canale Emiliano Romagnolo (Research organisation)

Other partners

Research

- Università di Bologna (DICAM)
- Consiglio Nazionale delle Ricercha (CNR Ibimet)
- Centro Ricerche Produzioni Vegetali (CRPA)

Farmers

- Societa' Agricola Visentini Di Mario Visentini E C. S.S.
- Az. Agr. Cremonini Marco e C. Società Agricola s.s.
- Fruit Modena Group Soc.Coop. Agricola

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Saving and conservation of nitrogen in agricultural systems with pigs - RISCOSSA

RISparmio e COnservazione dell'azoto nei SiStemi Agricoli suini – RISCOSSA

ITALY – EMILIA-ROMAGNA

Starting date - expected end date | **01.09.2016 - 31.07.2019**

http://riscossa.crpa.it

Operational Group

The aim is to develop a sustainable pig farm model, to be replicated in areas where groundwater and surface water pollution are relevant (such as Nitrate Vulnerable Zones).

The model is based on the introduction of two best practices:

- feeding of pigs with multiphase diets, low and balanced in protein, that allow to reduce nitrogen excretion and the environmental impact on surface and ground water;
- conservation tillage, with the correct management of slurry to reduce environmental emissions, producing cereals to increase self-sufficiency in pig feeding.

Other than the effects on water quality, the economic sustainability and the C footprint will be evaluated.

Lead partner: Fondazione CRPA Studi Ricerche

(Research Organisation)

Other partners

Research

- Centro Ricerche Produzioni Animali – CRPA
- Consiglio per la Ricerca in Agricoltura e l'Analisi dell'Economia Agraria – CREA (Unità di ricerca per la suinicoltura)

Farmers

- Azienda Agricola Spaggiari

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Transfer of mature irrigation management technologies and protocols for irrigation optimization

Trasferimento di tecnologie e protocolli di gestione irrigua maturi per l'ottimizzazione dell'irrigazione" (TRAS.IRRI.MA.)

ITALY - BASILICATA

Starting date - expected end date | **2018 - 2020**

Operational Group

The GO aims at transferring sustainable irrigation from a hypothesis to practice. The GO is building up with fruit growers a decision support system (DSS) providing the "irrigation advice". The DSS requires: 1) the degree of tolerance of the species to a temporary water stress; 2) short-term weather forecasts.

The DSS allows to save: money, water resources, energy for irrigation, agro-chemicals for controlling biotic attacks. At the same time it ensures the quality at the end of the supply chain.

The success of the GO is based on the farmers' training: tutorial activities on irrigation methods and agro-technological innovations.

Lead partner: Asso Fruit Italia (Producers' organisation)

Other partners

Research

- UNIBAS-DiCEM (University); CREA-AA (Public research centre for agriculture & environment); CNR-IMAA (National research council); ENEA (National agency for the new technologies); ALSIA (Regional agency for agriculture innovation)

Farmers

- APOFRUIT Italia; Viticoltori Associati del Vulture; Grimolizzi Nicola

SME

- RAPOLLA FIORENTE; AGREENMENT srl

Basin authority

- BASILICATA basin authority

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Regulation of soil moisture

Drėgmės režimo dirvožemyje reguliavimas

LITHUANIA

Starting date - expected end date | **12.12.2016 - 11.12.2019**

Operational Group

As 87% of agricultural land area in Lithuania is tile-drained, agricultural drainage has a large impact on the soil-water balance. However intensive drainage systems, necessary to provide trafficability during extreme wet periods, often remove more water than necessary during drier periods, leading to temporary overdrainage. Finally, there is high demand to meet environmental requirements as nitrate leaching has to be reduced.

Therefore main idea of the project is to assess adaptiveness and efficiency of controlled drainage (CD) technologies for soil moisture control. It is expected through the installation of CD systems, more effective use of rainfall, soil moisture storage and reductions in nutrient losses can be achieved. During project implementation as well special attention is being given on evaluation of economic value (changes of yields, reduced amount of fertilisers and ect.) of applied innovation; identification of the automatization needs and preparation of the recommendations for projects of drainage renovation in Lithuania.

Lead partner: Aleksandras Stulginskis University (ASU)

Other partners:

Advisory

- Lithuanian Agricultural Advisory Service (LAAS)

Research

- ASU Institute of Water Resources Engineering

Farmers

- Alfredas Bardauskas, Edgaras Varkalys, Audrius Baltūrnas, Paulius Pikšrys, Agricultural cooperative: Mūsų ūkis

NGOs

- Lithuanian Farmers Union, Lithuanian Association of Agricultural Companies, Lithuanian Association Grain Producers'
- PF Experimental Farm

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AGIR: Efficiency assessment of water and energy in collective irrigation systems

AGIR: Avaliação da eficiência da áGua e energIa em aproveitamentos hidroagRícolas

PORTUGAL - MEDITERRANEAN REGION

Starting date - expected end date | **03.07.2017 - 30.06.2020**

http://www.fenareg.pt/?p=3010

Operational Group

Improving the sustainability of collective irrigation systems (CIS), through the efficient use of water and energy (W&E), is one of the concerns of the managers of water user Associations, a priority of the National Rural Development Programme 2014-2020 and a key-driver addressed by the EU Common Agricultural Policy. The project aims at establishing an innovative performance assessment system to support the diagnosis of inefficiencies and the identification of solutions for problem-solving in CIS. Project action plan involves: (1) Robust methodology for assessment of W&E efficiency in the primary and secondary networks of the CIS; (2) Validation and consolidation, through the implementation of three case studies; (3) Technical guides to support W&E inefficiency diagnosis and decision-making about the solutions in CIS. The preliminary results of the water balance calculation indicate that the real losses component is the most relevant in the non-revenue water, regardless of the type of CIS (pressurised, channel or mixed). These results demonstrate the importance of investing in the rehabilitation of existing infrastructures, besides the need to improve operational control of physical losses.

Lead partner: FENAREG – Federação Nacional de Regantes de Portugal, represents the irrigation water sector in the national and international institutions concerned with water resources management for irrigation. (non-profit association)

Other partners

Research

- LNEC – Laboratório Nacional de Engenharia Civil, IP (public research institute)
- UÉ – Universidade de Évora (university)
- IPS – Instituto Politécnico de Setúbal (university)
- INIAV – Instituto Nacional de Investigação Agrária e Veterinária, IP (public research institute)
- COTR – Centro Operativo e de Tecnologia de Regadio (non-profit associacion)

Managers of water users association

- Associação de Regantes e Beneficiários da Obra de Rega de Odivelas (non-profit association)
- Associação de Regantes e Beneficiários do Vale do Sorraia (non-profit association)
- Associação de de Beneficiários da Obra da Vigia (non-profit association)

Irrigators

- Agro-Vale Longo
- Mencoca Agricultura
- Sociedade Agrícola Bico da Vela II

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NEP – high Nitrogen Efficient crop Production for better water management

NEP – Produção de culturas em elevada Eficiência de Azoto para uma melhor gestão da água

PORTUGAL

Starting date - expected end date | **02.11.2017 - 31.12.2020**

Operational Group

Nitrogen (N) is a crucial element to life and a limiting factor for agricultural production when it does not exist in sufficient amounts. However, the excess of this nutrient in the environment can also be a serious and harmful problem for all the different environmental compartments: when N inputs exceed the crop needs there is a real potential for water pollution with nitrate (NO_3^-).

The objective of this project is the development of two new agricultural products with low N footprint which do not currently exist in the national and international markets: processing tomato and wine.

For this purpose, new production processes will be developed to change agricultural practices of the producers. We plan to obtain distinct commodities produced with defined and marked concerns to mitigate N emissions during their production process: changes in the primary production of fresh grapes and processing tomato (e.g. fertilization and irrigation), will be conducted in order to obtain low N-footprint production. The reduction of N losses will be monitored by the N Footprint calculation tool built in this project.

Lead partner: Instituto Superior de Agronomia (University)

Other partners

SME

- Fundação Eugénio de Almeida (FEA) (farmer)
- Lusovini Distribuição, S.A. (farmer)
- Sociedade Agro-Pecuária do Vale da Adega, S.A. (farmer)
- Reguenguinho – Sociedade Agrícola, Lda (farmer)

NGOs

- Centro de Competências para o Tomate Indústria (CCTI) - Associação para a Investigação, Desenvolvimento e Inovação no Sector (non-profit private association)
- Benagro – Cooperativa Agrícola de Benavente, C.R.L. (non-profit private association) (farmer)

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OMeGA - Water Reservoirs Management Optimization

OMeGA - OtiMização da Gestão de Albufeiras

PORTUGAL - SORRAIA

Starting date - expected end date | **01.01.2018 - 01.01.2021**

http://www.maretec.org/

Operational Group

The OMeGA project aims to develop an innovative operational tool that will provide users with information on water quantity and quality in reservoirs, meteorological forecasts, inflows and water consumption, volumes needed for ecological flows maintenance as well as recommendations to support managers on decision-making.

The project intends to make an important contribution to the management of reservoirs in irrigation perimeters, helping to better deal with a resource that is increasingly scarce.

This tool may become crucial at a time when volumes stored in hydro-reservoirs are reduced as a result of the drought periods that have occurred.

Lead partner: MARETEC - IST (Research Centre - University)

Other partners

- Bernardo G. Ferreira/ Soc. Agrícola Bico Vela II (farmer)
- ARBVS – Irrigation Farmers Association
- FENAREG – National Irrigation Association
- AQUALOGUS, Lda.
- Bentley Systems

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H3. Precision Agriculture as an Advantage in Fruits and Vegetables production in Andalucía

SPAIN - ALMERIA

Starting date - expected end date | **01.02.2018-30.09.2019**

http://www.coexphal.es/grupos-operativos-autonomicos/

Operational Group

The main objective set by the H3 Operational Group is the establishment of a methodology that allows an efficient use of water in intensive agriculture through technology.

The competitiveness of the F&V sector is closely linked to the development of tools that allow farmers to adapt their crops to future difficulties caused by water scarcity and market demands.

This project aims to provide farmers with the means and knowledge to make their farms more profitable. Therefore, "Water Footprint" protocol will be developed for intensive agriculture, promoting the use of innovative technological tools (precision agriculture).

Lead partner: COEXPHAL, Association of Producer Organisations (80 cooperatives/ PO and 15.000 farmers)

Other partners

Research

- COEXPHAL-UAL of horticulture, cooperative studies and sustainable development
- Department of economics and business, University of Almería

Users (Farmers)

- CAPARRÓS NATURE S.L.

Other collaborators

- PROYECTA INGENIO S.L.
- WISE IRRISYSTEM S.L.

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Water Management of Lis Valley Irrigation District

Gestão da Água no Vale do Lis

PORTUGAL - CENTER

Starting date - expected end date | **01.01.2018 - 31.12.2022**

Operational Group

The Lis Valley Irrigation District has a significant importance in the Center Region of Portugal. The Operational Group aims to contribute to the improvement of district water management focusing on socioeconomic and environmental sustainability and regional agricultural competitiveness. The objectives are to carry out a field monitoring plan leading to better diagnosis of water supply and drainage problems, to improve the practices quality, to reduce water and energy waste and to modernise cultural technologies and systems. The progressive improvement of system management at several levels, like collective water conveyance, water quality and on-farm irrigation and drainage, will be performed. Operational plans for water demand and distribution will be outlined, as a result of the integration of information, to support the decision at the various levels of water network management in order to improve water management. The project recipients are: the Water User Association, the farmers, as private companies generating economic income, whose activity will be boosted with the best use of water and soil and innovative technologies, the consumers, since they will benefit, in terms of food safety and product quality, and the companies of agricultural factors, processing and commercialisation, that will benefit from the economic and productivity improvement achieved.

Lead partner: Instituto Politécnico de Coimbra

Other partners

Water Users Association

- Associação de Regantes e Beneficiários do Vale do Lis

Research

- Universidade de Coimbra (University)
- Direcção Regional de Agricultura e Pescas do Centro (Ministry of Agriculture)

Farmers

- Fábio Franco/Sociedade Agrícola do Vale do Lis, Lda
- Diogo Filipe Teles Braz
- Manuel Leal Rosa

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Automated platform for irrigation and fertirrigation management in horticultural crops

SPAIN - ALMERIA

http://www.coexphal.es/grupos-operativos-autonomicos/

Operational Group

The main objective of this Operational Group is the development of an integrative computer tool, aimed at the fruit and vegetable production sector, as well as the companies supplying technology for irrigation.

The irrigated area in Spain represents 14% of the useful agricultural area, but irrigated agriculture contributes a little more than 50% to the Final Vegetable Production, 2.4% to the Gross Domestic Product of the country and employs 4 % of its employed population. In return, irrigated agriculture uses a very large volume of water (68% of total volume) in a country with many territories where this resource is scarce, so it has to compete with users from other productive sectors.

AUTOMARRIEGO

The aim is to promote the use of automation technologies for irrigation and fertigation in horticultural crops to achieve a more efficient and sustainable management of water and fertilizers through the integration and automation of available knowledge and the use of sensors.

Lead partner: COEXPHAL, Association of Producer Organisations (80 cooperatives/ PO and 15.000 farmers)

Other partners

Research

- University of Almería
- IRTA
- CYCITEX

Users (farmers)

- HACIENDAS BIO SA

Other collaborators

- FUNDACIÓN CAJAMAR
- GRUPO DESARROLLA
- ASG
- LABFERRER
- SISTEMES ELECTRONICS PROGRÉS

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H3. Precision Agriculture as an Advantage in Fruits and Vegetables production in Andalucía

SPAIN - ALMERIA

Starting date - expected end date | **01.02.2018-30.09.2019**

http://www.coexphal.es/grupos-operativos-autonomicos/

Operational Group

The main objective set by the H3 Operational Group is the establishment of a methodology that allows an efficient use of water in intensive agriculture through technology.

The competitiveness of the F&V sector is closely linked to the development of tools that allow farmers to adapt their crops to future difficulties caused by water scarcity and market demands.

This project aims to provide farmers with the means and knowledge to make their farms more profitable. Therefore, "Water Footprint" protocol will be developed for intensive agriculture, promoting the use of innovative technological tools (precision agriculture).

Lead partner: COEXPHAL, Association of Producer Organisations (80 cooperatives/ PO and 15.000 farmers)

Other partners

Research

- COEXPHAL-UAL of horticulture, cooperative studies and sustainable development
- Department of economics and business, University of Almería

Users (Farmers)

- CAPARRÓS NATURE S.L.

Other collaborators

- PROYECTA INGENIO S.L.
- WISE IRRISYSTEM S.L.

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Irrigation efficiency improvement in crop rotations within the section III of the third sector of the Najerilla river left bank. Efficient water application in irrigation communities

Mejora de la eficiencia del riego en las rotaciones hortícolas y extensivas de la comunidad de regantes del sector III tramo III de la margen izquierda del Najerilla.- Riego eficiente en comunidades de regantes.

ESPAÑA – LA RIOJA

Starting date - expected end date | **01.01.2018 - 31.12.2020**

Operational Group

From 2012 to 2015 the OG members carried out different trials using the FAO56 water balance to determine the irrigation doses and the optimal moment of water application. Several conclusions were extracted from those tests, they showed it was possible to improve irrigation management, optimising the use of water and energy and improving the quality of life of farmers, also the availability of information regarding the crop irrigation needs was very useful to irrigators.

In spite of the simplicity of the water balance calculation, it is currently complex to obtain the relevant data necessary to make the calculations, especially the irrigation data, in real time. Additionally, water balance calculation requires feedback from the user at specific moments, such as the phenological stage or the local rainfall, to adjust the calculations to the reality of the plot.

Throughout the creation phase of our OG a computer application for the calculation of the FAO56-water balance was developed. This application has been developed in open code and it is available for any other irrigation community.

Lead partner: AIMCRA (Asociación de Investigación para la mejora del cultivo de la Remolacha Azucarera)

Other partners

Farmers

- SIAR (Servicio de Información agroclimática de La Rioja)
- COMUNIDAD DE REGANTES DEL SECTOR 3º TRAMO III
- CANAL MARGEN IZQUIERDA DEL NAJERILLA

Unión Europea

GOBIERNO DE ESPAÑA MINISTERIO DE AGRICULTURA Y PESCA, ALIMENTACIÓN Y MEDIO AMBIENTE

Gobierno de La Rioja

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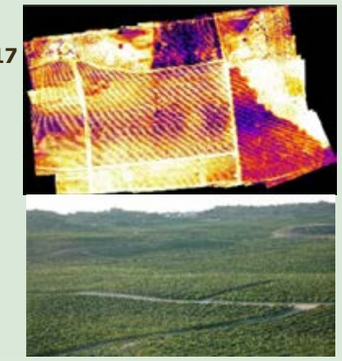
Profitability of new technology application to enhance irrigation efficiency in a conventional and organic vineyard

Rendibilitat de l'aplicació de noves tecnologies per a la consecució d'un reg amb màxim d'eficiència hídrica en una finca pilot de 100-ha de vinya ecològica i convencional

SPAIN – CATALONIA (LLEIDA)

Starting date - expected end date | **01.02.2016 – 30.09.2017**



Operational Group

The objective of this OG is to improve irrigation water use efficiency, enhance water productivity (kg/m^3 water) and improve berry composition in a commercial vineyard throughout the adoption of a Precision Irrigation (PI) system which integrates remote sensing, crop simulation models and vine physiology.
One of the main goals of organic farmers is to reduce the vineyard inputs. Thus, by adopting PI, they can know the exact amount of water to be applied in each irrigation sector considering the variety and phenology.
With PI, we saved up to 25% of water in comparison with previous years. Also, yield productivity and berry composition improved.
The analysis of within-field variability (using spectral vegetation indices obtained with satellite imagery) indicated a significant reduction in heterogeneity of vegetative growth from 2015 (when precision irrigation was not adopted) to 2017. This technology will benefit winegrowers by increasing water-use efficiency, and improving yield and berry composition.

Lead partner: IRTA (Institute of Agri-Food Research and Technology) (www.irta.cat)

Other partners

Farmers

- Codorniu winery (winery)
- Raimat Irrigation District (irrigation district)

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Smart Ag Services- Advanced Service of Precision Agriculture in Agricultural Associative Entities

Servicio Avanzado de Agricultura de Precisión en Entidades Asociativas Agrarias

SPAIN - ANDALUSIA

Starting date - expected end date | **01.01.2018 - 31.12.2019**

institucional.us.es/smartag

Operational Group

The "Smart Ag Services" project aims to create an advanced agricultural precision service in agricultural associations (e.g. cooperatives) for efficient management in real-time of irrigation and fertilisation based on weather conditions and soil and crop status. To this end, different technologies, already mature in the university system, such as wireless sensors and multispectral images, will be integrated in order to monitor the weather, environmental, soil and water conditions. This specialized service, based on precision farming techniques adapted to the associative model, will make it possible to considerably reduce the consumption of water, fertilizers and energy, significantly reducing pollution of groundwater and surface water resources.

Lead partner: Rural Development Group Campiña-Alcores (Regional Government Partner)

Other partners

Research

- ETSIA, University of Sevilla (Prof. Manuel Pérez-Ruiz)
- ETSIAM, University of Córdoba (Prof. Juan Agüera Vega)

Farmer's Association

- ASAJA Sevilla (Asociación Agraria de Jóvenes Agricultores)

Regional Government Partner

- Rural Development Group Gran Vega

Project contact: **Juan José Saucedo**
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Sustainable Use of Irrigation water in F&V under plastic greenhouses

SPAIN - ALMERIA

Starting date - expected end date | **01.02.2018-31.01.2020**

http://www.coexphal.es/grupos-operativos-autonomicos/

Operational Group

The project will try to develop tools that help to a sustainable management of irrigation water in the cultivation of fruits and vegetables under plastic in Almería. The regeneration and reusr of wastewater is becoming one of the most interesting strategies for water supply in agriculture.

This Operational Group will provide advice in water quality matters, development and application an ICT protocol from the evaluation of conventional water resources (groundwater, surface water) and non-conventional water (desalinated and regenerated water), studying the necessary and existing infrastructures, as well as regeneration techniques throughout the province of Almeria. All this information will be integrated into a Geographical Identification System (GIS) with the collaboration of users.

Lead partner: COEXPHAL, Association of Producer Organisations (80 cooperatives/ PO and 15.000 farmers)

Other partners

Research

- University of Almería
- COEXPHAL
- FUNDACIÓN CAJAMAR

Users (Irrigation communities)

- Junta Central de Usuarios del Acuífero del Poniente Almeriense (JCUPA)
- Federación de Regantes de Almería (FERAL)

Other collaborators

- COEXPHAL-UAL of horticulture, cooperative studies and sustainable development
- Department of economics and business, University of Almería

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Valorization of agricultural waste into activated carbon for application in water treatment

Valorización de residuos agrícolas en biocarbón activo para su uso en tratamiento de agua

SPAIN-ANDALUSIA

Starting date - expected end date | **24.02.2018 - 14.02.2020**

Operational Group

The OG is composed of five partners and two collaborators that will work together on the achievement of one main objective: valorisation of agricultural wastes generated in large volume in our community, such as almond shells and rice husk, to manufacture activated carbon with strong applications in the water treatment sector. This project aims to generate a new economic activity in the frame of circular economy that will contribute to the reduction of greenhouse gas emissions and promote job creation, economic growth and the sustainable reindustrialization of Andalusia. It also promotes the development of bioeconomy in our region.

Four different work packages will be implemented: i) Development and validation of the manufacturing process of activated carbon from agricultural wastes at lab scale; ii) Demonstration of activated carbon performance in the treatment of water at pilot scale; iii) Design of the industrial process and feasibility study of manufacturing of activated carbon at industrial scale in Andalusia; and iv) Dissemination of results to end-users at a regional level in order to promote the market entry of activated carbon and encourage job creation in Andalusia.

Lead partner: ARSINGER SL (SME)

Other partners

Research

- CENTA (Research Institute)
- IRNAS-CSIC (Research Institute)
- IFAPA (Research Institute)

Farmers

- Pedro Santacruz/ CAMPEAGRO S.A.T.

SME

- SANTACRUZ INGENIERIA SL
- ASA ANDALUCIA

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Water and resilient livestock (agua y ganadería resiliente)

Innovative systems for the best use of rainwater as adaptation to climate change

SPAIN - EXTREMADURA

Starting date - expected end date | **15.09.2018 - 15.09.2021**

Operational Group

Different studies and experts confirm that climate change is producing longer dry periods and the increment of temperatures in sensible southern European areas. This effect is having a direct negative impact on the availability of fresh water on field for our livestock.
The main objective of the project is the development and testing of innovative systems for an efficient collection, storage and use of good quality water in our farms so that the access to fresh water on field is guaranteed for longer periods. These technologies will help also to prevent the transmission of diseases such as tuberculosis among the livestock and wild animals that inhabit the Dehesa such as boars or deers.

Lead partner: AGEDREX (non-profit Organisation). The Association of Managers of the Dehesa in Extremadura aims to defend and promote the values of the Dehesa as cultural, agroforestry and pastoral ecosystem of high environmental quality

Other partners:

SMEs

- GESTIONA GLOBAL
- TERRAPRIMA

Research

- UNIVERSITY OF EXTREMADURA

Farmers

- AGEDREX represents the farmers and managers of the Dehesa ecosystem in the Region of Extremadura

Project contact:

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Multifunctional buffer zones SamZons - an innovative method for optimization of environmental goals and production goals

Multifunktionella skyddszoner SamZons – en innovativ metod som kombinerar miljö- & produktionsmål

SWEDEN

Starting date - expected end date | **2017 - 2020**

EIP-Agri Innovative project

The SamZons innovation project presents a new concept for site-based implementation and management of multifunctional protection zones that combine efficient environmental objective with high productivity.

A clever combination of strips with varied species of herbs and grass provide multiple functions such as:
* prevent losses of phosphorus or pesticides to water bodies.
* food and shelter for insects, which increase the number of wild pollinators and field birds in the agricultural landscape.
* field roads for farmers which protect the field against soil compaction.
* they can be customized to attract field wildlife.
* promote natural enemies, which reduces the need for control
* benefits honey producers

Lead partner: Odling I Balans, Farming In Balance

Other partners

Research

- SLU, Swedish University of Agriculture

Farmers

- Farmers in the Farming In Balance project

Agricultural business:

- Advisery services: Hushållningssällskapet, VäxtRåd, HIR Skåne
- Lantmännen, Yara, Svenskt Växtskydd

NGO

- WWF

Project contact:

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Clean Farm, Clean Ditch

Schoon erf, schone sloot

NETHERLANDS – GELDERLAND

Starting date - expected end date | **21.12.2016 - 31.12.2018**

www.NFOfruit.nl

Operational Group

Farmyard runoff is an important cause of water pollution. The 'Clean Farm, Clean Ditch' project stimulates fruit growers to take innovative measures to reduce emissions. This results in improved water quality and strengthened biodiversity in and around orchards.

Project goals are:
- to reduce standard emission overruns to zero;
- to increase awareness of the impact of emission overruns on water quality amongst fruit farmers;
- to stimulate the use of new innovative concepts for emission overrun reduction and biodiversity;
- to stimulate the use of concepts of circularity;
- to stimulate knowledge exchange amongst fruit farmers and fruit consultants.

Lead partner: Dutch Fruit Growers Organization (NFO), Province of Gelderland, waterboard Rivierenland

Other partners

Research
- Fruitconsult (consultancy)
- WUR PPO Randwijk (research institute)
- CLM (developer of emission reduction scan)

Farmers
- J. Kusters Fruit
- Fruit farm B. Tijssen
- Cruijsen Fruit B.V.
- Fruit farm Bleiend Merm
- Over 10 other fruit farms in the Betuwe region

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Fertile circularity Achterhoek - Gelderland

Vruchtbare kringloop Achterhoek - Gelderland

NETHERLANDS – GELDERLAND

Starting date - expected end date | **01.01.2014 - 31.12.2019**

www.vruchtbarekringloop.nl

www.vruchtbarekringloopgelderland.nl

Operational Group

The aim of the project is a sustainable agricultural sector in the Achterhoek region. Overall goals are:
- Sustainable water and soil management, to improve water quality and water availability;
- Introduction of the instrument of fertile circularity, which promotes the efficient use of minerals;
- Introduction of new techniques such as sensors for measuring water quality;
- Knowledge exchange on fertile circularity in the region and abroad.

Several working groups of livestock farmers focus on:
- Mineral efficiency;
- Water quality;
- Sustainable soil;
- Sensor techniques;
- Milk and climate change.

Lead partner: LTO Noord (Dutch Federation of Agricultural and Horticulture)

Other partners
- Waterboard Rijn en IJssel
- Vitens, drinking water company
- FrieslandCampina, dairy company
- ForFarmers, feed company
- Province of Gelderland

Farmers
- Over 250 individual farmers

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Flexible agricultural water level management East Veluwe

Flexibel agrarisch peilbeheer Oost Veluwe

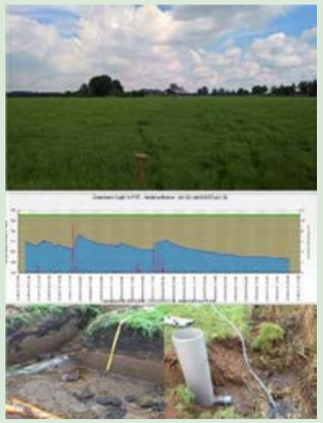
THE NETHERLANDS - UTRECHT

Starting date - expected end date | **26.06.2017 - 31.12.2020**

Operational Group

Three dairy farmers from the east of the province of Utrecht will manage the water level in drains / drainage systems and ditches for three years. This gives them the opportunity to finetune at field level in order to reduce drought and flooding losses and improve the water quality.

From the early spring of 2018 weirs and level-controlled drainage will be installed to control the water level. This control takes place on the basis of groundwater level measurements by the farmers. The effects on the soil-water system and crop yields will be monitored during the years 2018-2020 The results are shared with the colleagues in the area and demo meetings.



Lead partner:

Farmers: Art van Wolleswinkel, Wim Thomassen, Jan van der Wind

Other partners:

GO

- Waterboard Vallei & Veluwe

SME

- K&G Consultancy (agricultural consultancy)
- Aequator Groen & Ruimte (soil & hydrology consultancy)

Project contact: **Johan Kranenburg** | Fokjesweg 24, 3752 LT Spakenburg, the Netherlands
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Task force Agricultural Water management Gelderland

DAW: Deltaplan Agrarisch Waterbeheer - Gelderland

THE NETHERLANDS – GELDERLAND

Starting date - expected end date | **01.01.2013 - 31.12.2021**

www.agrarischwaterbeheer.nl

Operational Group

The task force agricultural water management is a national program. In the province of Gelderland, the Dutch Federation of Agriculture and horticulture, three waterboards and the Province of Gelderland work together to improve water quality, water availability and soil health. With regards to the Water Framework Directive, the task force aims to solve all water quality problems that are related to agriculture by 2027.

The approach is to prioritise areas with the most urgent water problems and to develop projects that are tailored to local circumstances and agricultural practices. If possible and relevant, other challenges, such as climate change, biodiversity, circular economy and healthy food are integrated in this local approach.

More than 20 projects improve water quality and availability and soil health and at the same time aim to increase agricultural production. In the execution topics such as nitrate, phosphate and pesticides in ground and surface water, clean ditch, healthy soil and circular agriculture are central.

Lead partner: LTO Noord (Dutch Federation of Agriculture and Horticulture)

Other partners

Governmental organisations

- Province of Gelderland (Regional government)
- Waterboard Rijn en IJssel
- Waterboard Vallei en Veluwe
- Waterboard Rivierenland

Farmers

- 2017: 750 individual farmers
- 2021: goal is to achieve over 7000 farmers in Gelderland

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Waterpark Zuid-Holland

Waterpark Zuid-Holland

THE NETHERLANDS – SOUTH HOLLAND

Starting date - expected end date | **14.10.2017 – 31.12.2019**

https://www.ltonoord.nl/projecten/waterpark-zuid-holland

Operational Group

In a world of increasing economic and ecological pressure on agriculture, we need to anticipate and adapt. Water related issues like extreme rainfall, salinization, drought and soil subsidence are not exceptional anymore. This forces us to explore new ways to enhance agricultural entrepreneurship.

The objective of the project Waterpark is to develop business cases in three polders where water related issues occur. Farmers will contribute - besides new ways of food production - to water management, landscape management and recreation/tourism.

We use ideas, experiences and solutions of farmers themselves to develop possible solutions. Together with experts, water boards, municipalities and NGO's we investigate possibilities to develop a Waterpark. At the end of 2019 we expect to have developed three business cases which we can apply to three different polders.

Lead partner: LTO Noord, Projecten LTO Noord

Other partners

- Water boards
- Universities
- Other research institutes
- Municipalities
- Provincie Zuid-Holland

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Fairway - Farm systems that produce good water quality for drinking water supplies

Starting date - expected end date | **01.06.2017 - 31.05.2021**

https://www.fairway-project.eu

Horizon 2020 project

Safe drinking water is vital for human health. Diffuse pollution of nitrogen and pesticides from agriculture is the main obstacle to meet drinking water quality targets. Policies to protect drinking water resources have not achieved a consistent effectiveness in all member states.

The overall objective of the FAIRWAY project is to review current approaches and measures for protection of drinking water resources against pollution caused by pesticides and nitrate from agriculture, and to identify and further develop innovative measures and governance approaches for a more effective drinking water protection, together with relevant local, regional and national actors.

Specific objectives of FAIRWAY are: (i) to increase the scientific understanding of the relationship between agriculture and drinking water protection; (ii) to increase the understanding of the social, technical and economic barriers to practical implementing of measures; (iii) to deliver innovative measures and tools to overcome these barriers; (iv) to develop protocols and data-sets for monitoring of farming practices and water quality, and to increase awareness and involvement of farmers and other citizens in the monitoring of water supplies; (v) to develop effective governance approaches for small to large water supplies; (vi) to identify key strategies and good practices for drinking water protection and assess the implications of these options for policy and practice.

Lead partner: Stichting Wageningen Research

Other partners

- 22 project partners across Europe

Project contact: **Gerard Velthof** T: +31 317 486 503 | gerard.velthof@wur.nl

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FATIMA

Farming Tools for external nutrient Inputs and water MAnagement

EUROPE - INTERNATIONAL

Starting date - expected end date | **01.03.2015 - 28.02.2018**

www.fatima-h2020.eu

Horizon 2020 project

FATIMA addresses effective and efficient monitoring and management of agricultural resources to achieve optimum crop yield and quality in a sustainable environment. It covers both ends of the scale relevant for food production, viz., precision farming and the perspective of a sustainable agriculture in the context of integrated agri-environment management. It has developed innovative and new farm capacities that help the intensive farm sector optimize their external input (nutrients, water) management and use, with the vision of bridging sustainable crop production with fair economic competitiveness.

FATIMA has been implemented and demonstrated in seven pilot areas representative of key European intensive crop production systems in Spain, Italy, Greece, Czech Republic, Austria, France, and Turkey.

Lead partner: Universidad de Castilla-La Mancha (UCLM), Instituto de Desarrollo Regional – Spain.

Higher education and research public entity.

Other partners

Research

- Public Partners: ITAP (SP), CREA (IT), VU/VUmc (NL), INRA (FR), VUMOP (CZ), MGFI (GR), DIMITRA (GR), AUA (GR), BOKU (AT), UTAEM (TR).

SME

- Aliara (SP), Ariespace SRL (IT), 2eco (PT), METCENAS (CZ), BOSC (LV), Redcoast (GR), DRAXIS (GR), SIGMA (DE), EA-TEK (TR).

THE PILOT PROJECTS

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LANDmark

LAND Management: Assessment, Research, Knowledge base

EUROPE

Starting date - expected end date | **01.05.2015 - 31.10.2019**

http://landmark2020.eu/

Horizon 2020 project

LANDMARK is a pan-European multi-actor consortium that will develop a coherent framework for soil management aimed at sustainable food production across Europe. The LANDMARK proposal builds on the concept that soils are a finite resource that provides a range of ecosystem services known as "soil functions".

LANDMARK will deliver through multi-actor development: 1. LOCAL SCALE: A toolkit for farmers with cost-effective, practical measures for sustainable (and context specific) soil management. Farms are treated as "managed ecosystems" that provide "a range of ecosystem services"; 2. REGIONAL SCALE - A blueprint for a soil monitoring scheme, using harmonised indicators: this will facilitate the assessment of soil functions for different soil types and land-uses for all major EU climatic zones; 3. EU SCALE – An assessment of EU policy instruments for incentivising sustainable land management.

Lead partner: Soil Biology and Biological Soil Quality, WAGENINGEN UNIVERSITY and RESEARCH, The Netherlands (Academia)

Other partners

- TEAGASC - Agriculture And Food Development Authority , Ireland
- University of Copenhagen, Denmark
- Joint Research Centre – European Commission
- The CIRCA Group Europe Ltd., Ireland
- Plant Research International – Wageningen University and Research (WUR1), The Netherlands
- National Institute for Public Health and Environment (RIVM) The Netherlands
- Szent Istvan University, Hungary
- University of Ulster, Northern Ireland
- Universiteit Antwerpen, Belgium
- Assemblée Permanente des Chambres d'Agriculture, France
- Chambers of Agriculture of Lower Saxony, Germany
- Austrian Agency for Health and Food Safety, Austria
- French National Institute for Agricultural Research, France
- Institute of Soil Science - Chinese Academy of Sciences, China
- University of Sao Paulo, Brasil
- Federal Institute of Technology in Zurich, Switzerland
- University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca, Romania
- Swedish University of Agricultural Sciences, Sweden
- Josef Stefan International Postgraduate School, Slovenia
- University of Parma, Italy
- University of Seville, Spain

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EUFRUIT- EUropean FRUIT Network

EU-WIDE

Starting date - expected end date | **01.03.2016 - 28.02.2019**

www.eufrin.org

Horizon 2020 Thematic network

EUFRUIT aims at establishing a framework and a systematic approach to increase the connectivity between research outcomes and knowledge implementation in the fruit sector.

The project consortium consists of 21 members, including research institutes, universities, and industrial partners who represent key parts of the fruit supply chain, from 12 European countries.

Through its 5 Work Packages (WPs) EUFRUIT addresses the main aspects of the fruit production chain: WP1 Project coordination; WP2: Performance of new fruit varieties; WP3: Reduction in pesticide residues; WP4: Fruit quality; WP5: Secure sustainable fruit production with focus on maintaining yield and quality of fruit production under combined water and heat stresses.

Lead partner: Aahrus University (Denmark)

Other partners

Research

- INRA: Institut National de la Recherche Agronomique (Fr)
- PCFRUIT: Proefcentrum Fruitteelt VZW (BE)
- OVA: Obstbauversuchsanstalt Jork (DE)
- UHOH: University of Hohenheim (DE)
- NARIC: National Agricultural Research and Innovation Centre (HU)
- LAIMBURG: Laimburg Research Centre for Agriculture and Forestry (IT)
- UNIBO: University of Bologna (IT)
- IRTA: Institut de Recerca I Technologia Agroalimentáries (ES)
- LRCAF: Lithuanian Research Centre for Agriculture and Forestry (LT)
- CTIFL: Centre Technique Interprofessionnel des Fruits et Légumes (FR)
- AGROSCOPE: Institute for Plant Production Sciences (Switzerland)
- StDLO: Stichting Dienst Landbouwkundig Onderzoek, Wageningen (NL)
- USAMV: The University of Agronomic Sciences and Vet. Medicine (RO)
- NIAB EMR: NIAB East Malling Research, SME (UK)
- UoG: University of Greenwich, Natural Resources Institute (UK)

Stakeholders

- AREFLH: Assemblée des Régions Européennes Fruitiéres, Légumiéres et Horticoles (FR)
- FRESHFEL: European Fresh Produce Association (BE)
- FC: Fruitconsult BV (SME) (BE)
- EO: Elbe-Obst Erzeugerorganisation (SME) (DE)

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FERTINNOWA: Transfer of INNOvative techniques for sustainable WAter use in FERtigated crops

BELGIUM-SPAIN-FRANCE-NETHERLANDS-UK-GERMANY-POLAND-ITALY-SOUTH AFRICA

Starting date - expected end date | **01.01.2016 - 31.12.2018**

www.fertinnowa.com

Horizon 2020 Thematic network

The aim of the FERTINNOWA network is to build a knowledge exchange platform to evaluate existing and novel technologies for fertigated crops and ensure wide dissemination of the most promising technologies. During the first phase, we used a bottom up approach and identify the main problems that being faced in the fertigated horticulture. During the second phase, we reviewed existing technologies as well as technologies from other sectors, which could resolve the problems identified by the growers. All the information have been collected on an online database at www.fertinnowa.com that led to a useful and grower friendly book the "Fertigation Bible",which gives the growers all the initial information required to lead initial decisions. At the final stage more than 23 technologies are being showcased across Europe aiming to provide potential solutions on regional problems.

FERTINNOWA

Lead partner: Proefstation voor de Groenteteelt Duffelsesteenweg

Other partners:

- Association Provençale De Recherche et d'Experimentation Legumiere (APREL)
- Centro de Investigaciones Cientificas y Tecnologicas de Extremadura (CICYTEX)
- Centro di Sperimentazione ed Assistenza Agricola (CERSAA)
- Centrum Doradztwa Rolniczego W Brwinowie (CDR)
- Fraunhofer Gesellschaft zur Forderung der Angewandten Forschung Ev (Fraunhofer)
- Fundacion Cajamar (FC)
- Instituto de Investigación y Formación Agraria y Pesquera (IFAPA)
- Instituto Navarro de Tecnologias e Infraestructuras Agroalimentarias SA (INTIA)
- Instituto Valenciano de Investigaciones Agrarias (IVIA)
- Kmetijsko Gozdarska Zbornika Slovenije Kmetijsko Gozdarski Zavod Maribor (CAFS)
- Nederlandse Organisatie Voor Toegepast Natuurwetenschappelijk Onderzoek (TNO)
- Niab EMR
- Optima Agrik PTY LTD (OA)
- Priva BV
- Proefcentrum Hoogstraten (PCH)
- Proefcentrum Voor Sierteelt (PCS)
- Provinciaal Proefcentrum voor de Groenteteelt (PCG)
- Research Institute of Horticulture (INHORT)
- Station Expérimentale Du Caté (CATE)
- Stichting Proeftuin Zwaagdijk (ZW)
- The Agriculture and Horticulture Development Board (AHDB)
- Universidad de Almeria (UAL)

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Internet of Food and Farms 2020 (IoF2020) – USE CASE 4.2 Chain Integrated Greenhouse

SPAIN - ALMERIA

Starting date - expected end date | **01.01.2017 - 31.12.2020**

https://www.iof2020.eu/trials/vegetables/chain-integrated-greenhouse-production

Horizon 2020 large scale pilot-Innovation Action

IoT connects systems to enable an integrated, multidimensional view of farming activities and allowing a deeper understanding of ecosystems. This is based on the extensive use of ICT that involve large amounts of data, physical and virtual sensors, control loops, networks, models and optimization techniques to improve decisions.

The chain-integrated greenhouse production use-case develops a DSS for the greenhouse tomato supply chain based on IoT technology, focusing on optimisation and reuse of water and efficiency in the use of fertilizers and of energy, interoperability along the chain, improved products and processes and a lower environmental impact. Data-based decision technology will be developed with all heterogeneous data generated.

Lead partner of IoF2020: Wageningen University

Lead Partner of Vegetable Trials and of use case:

University of Almería and Cátedra COEXPHAL-UAL

Other partners

- VALORITALIA
- COEXPHAL Association of Producer Organisations (80 Cooperatives/15,000 farmers)

Other collaborators

- CASI S.C.A., BIOSABOR S.A.T., Luis Andújar (Farmer), UNICA Group S.C.A., VICASOL S.C.A., CABASC S.C.A., LAS HORTICHUELAS S.C.A., CASTELGREEN
- LAS PALMERILLAS, CAJAMAR EXPERIMENTAL FARM, and TRANSPORTE CARRIÓN (SME).

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MOSES: Managing crOp water Saving with Enterprise Services

ITALY, SPAIN, BELGIUM, NEDERLANDS, ROMANIA AND MOROCCO

Starting date - expected end date | **01.07.2015 - 30.10.2018**

www.moses-project-eu

Horizon 2020 project

The main objective of MOSES is to put in place and demonstrate at the real scale of application an information platform devoted to water procurement and management agencies (e.g. reclamation consortia, irrigation districts, etc.) to facilitate planning of irrigation water resources, with the aim of: saving water, improving services to farmers, reducing monetary and energy costs.

To achieve these goals, the MOSES project combines in an innovative and integrated platform a wide range of data and technological resources: EO data, probabilistic seasonal forecasting and numerical weather prediction, crop water requirement and irrigation modelling and online GIS Decision Support System. Four Demonstration Areas are set up in Italy, Spain, Romania and Morocco.
This SME-led project address to the irrigated agriculture users an integrated and innovative water management solutions.

Lead partner: **ESRI Italia spa** (Private for-profit entities)

Other partners

Research

- Agenzia regionale per la prevenzione, l'ambiente e l'energia dell'Emilia-Romagna - Italy
- Agencia Estatal de Meteorologia - Spain
- Institutul National De Hidrologie Si Gospodarire A Apelor - Romania
- Administratia Nationala De Meteorologie R.A. - Romania
- Alma Mater Studiorum - Università di Bologna italy
- Consorzio di bonifica di secondo grado per il Canale Emiliano Romagnolo -Italy
- Technische Universiteit Delft - Netherlands
- Universidad de Castilla - La Mancha - Spain
- Universite Chouaib Doukkali - Morocco

End Users

- Consorzio di Bonifica della Romagna
- Asociacion Feragua De Comunidades De Regantes De Andalucia

SME

- ALIARA AGRÍCOLA SL
- Agromet srl
- Serco Belgium Sa

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RichWater

Market introduction of combined wastewater treatment and reuse technology in agriculture

SPAIN - ANDALUSIA

Starting date - expected end date | **01.02.2016 - 31.07.2018**

www.richwater.eu

Horizon 2020 project

RichWater is an innovation action funded by the "Fast Track to Innovation" programme and aims to demonstrate a market solution for agriculture fertigation in water scarce areas based on the reuse of treated wastewater. RichWater is built on the outcomes of the previous FP7 project, TREAT&USE, where a pre-commercial prototype was tested in a tomato plantation in South Spain. RichWater will upgrade TREAT&USE technology in a demonstration plant installed at the region of La Axarquia (Malaga, Spain), optimizing energy consumption, system automation and control of fertilizer supply.

The project will demonstrate an integrated system combining water treatment and irrigation. RichWater is able to reuse treated wastewater producing a pathogen-free (99% of E. Coli removal) and nutrient-rich effluent (presence of N, P, K according to crop needs) for direct application in agriculture.

The project will perform a standardisation and certification of the RichWater modules within the ETV pilot Programme, and by developing in depth market assessment and business plans for target markets designing competitive marketing and finance strategies.

Lead partner: BIOAZUL S.L. (ES), SME

Other partners:

Research organisations

- Institute for Mediterranean and Subtropical Horticulture "La Mayora" (CSIC-IHSM-La Mayora) (ES)
- TTZ Bremerhaven (DE)

SMEs

- Isitec GmbH (DE)
- Pessl Instruments GmbH (AT)

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Water2REturn

Recovering and Recycling of nutrients TURNing wastWATER into added-value products for a circular economy in agriculture

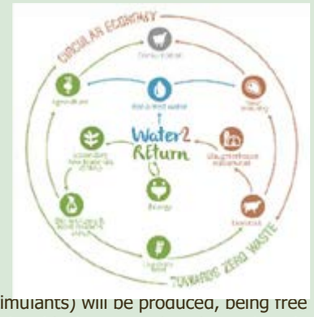
SPAIN - ANDALUSIA

Starting date - expected end date | **01.07.2017 - 31.12.2020**

www.water2return.eu

Horizon 2020 project

Resources recovery from wastewater has been recognised as a valuable and efficient source of nutrients for use in agriculture. At the same time, the food industry, especially the EU slaughtering sector, produces large amounts of waste and wastewater. Hence, there is a need to move towards more efficient and sustainable production methods.



To address this situation, **Water2REturn** faces the environmental and economic constraints of the slaughtering industry as a market opportunity and aims to adopt a Circular Economy approach to extract the maximum value from slaughterhouse wastes. In this sense, it proposes a viable, cross-sectoral and integrated full-scale demonstration process for nutrients recovery from slaughtering industry's wastewater by using a novel combination of biochemical and physical technologies and processes in cascade, aiming also a positive balance in terms of energy footprint and potential water recycling.

Through this system, three agronomic products (one organic fertiliser and two biostimulants) will be produced, being free of pathogens, heavy metals and emerging pollutants, allowing for the safe re-use of slaughterhouse wastewater and ready to be commercialised at EU and international level.

Lead partner: BIOAZUL S.L. (ES), SME

Other partners:

Research organisations

- University of Seville (ES)
- University of Cadiz (ES)
- Foundation Centre for the New Water Technologies (ES)
- University of Ljubljana (SL)

Farmers

- Slorom D&C Draghiceni (RO)

SMEs

- Agroindustrial Kimitec (ES)
- Adventech, Advanced Environmental Technologies Lda (PT)
- AlgEn, Algal Technology Centre, d.o.o. (SL)
- Enco Consulting Srl (IT)
- 2B Srl (IT)
- Isitec GmbH (DE)
- Exergy Ltd (UK)

Associations

- European Livestock and Meat Trading Union (BE)
- European Landowners Organization (BE)

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PVAIZEC/MASLOWATEN

THE MEDITERRANEAN REGION

Starting date - expected end date | **01.09.2015 - 31.08.2018**

http://maslowaten.eu/

EIP Water/Horizon 2020 project

MASLOWATEN Project aims at the large scale demonstration of the technical and economic feasibility of efficient and intermittency-free PV pumping systems for irrigation, allowing 100% renewable energy consumption. The main objectives are (i) to reduce 30 % of the water consumption, (ii) to achieve significant *savings* (at least 50%) for the farmers, in terms of energy costs and (iii) the market uptake and replication of a new green product consisting of PV Irrigation systems consuming 100% renewable electricity. In fact, the Project has currently 5 demonstrators operating in the facilities of four different types of end-users: farmers, cooperatives, irrigator communities and agro-industries. The technology developed in the scope of the Project was then adapted to the reality of each farm. According to the Technical Specifications developed under MASLOWATEN project four criteria need to be met in a PV irrigation system: a) Integration of the PV system in the pre-existing irrigation system; b) Ability to support problems related to the PV power intermittences; c) Matching PV production and irrigation/water needs; and d) Ensuring the reliability of the system for at least 25 years.

Lead partner: Universidad Politécnica de Madrid (University)

Other partners

- CAPRARI SPA
- OMRON EUROPE BV
- RKD IRRIGATION SL
- KOMET AUSTRIA GMBH
- DOMUS INGENIERIA ENERGETICA SL
- SISTEMS ELECTRONICS PROGRES, S.A.
- UNIVERSIDADE DE EVORA
- UNIVERSITA DEGLI STUDI DI SASSARI
- AIMCRA
- ELAIA
- EUROMEDITERRANEAN IRRIGATORS COMMUNITY
- MARTIFER SOLAR SA

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NUTRINFLOW: Practical actions for holistic drainage management for reduced nutrient inflow to Baltic Sea

FINLAND, LATVIA, SWEDEN

Starting date - expected end date | **01.09.2015 - 28.02.2019**

http://nutrinflow.eu/

Innovative project (Central Baltic Interreg)

The idea is to take practical actions for holistic drainage management for reduced nutrient inflow to the sea. This is done by implementing, demonstrating and increasing the recognition of innovative water management measures in agricultural areas.

To achieve our goals, we search for practical and low cost innovations that can be used for flow and nutrient management. These can be innovations for environmentally friendly ditch clearing, two-stage ditches, bottom dams, sedimentation ponds, wetlands, adapted and integrated buffer zones, controlled drainage as well as new ways to target measures to make them more cost effective. By utilising the existing drainage system structures and improving drainage technologies as well as production on fields, we can reach better nutrient balance – less nutrient losses to waters.

Lead partner: ProAgria Southern Finland, Agricultural advisory organization, NGO, (FI)

Partners:

Research

- Latvia University of Life Sciences and Technologies (LV)
- Research Institutes of Sweden, RISE (SE)

Farmers

- Union Farmers' Parliament (LV)

Local or regional administration

- City of Loviisa (FI)
- Zemgale Planning Region (LV)
- Jelgava local municipality (LV)
- County Administrative Board Östergotland (SE)

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AGRINUPES: Integrated monitoring and control of water, nutrients and plant protection products towards a sustainable agricultural sector

PORTUGAL, SPAIN THE NETHERLANDS, TURKEY AND SWEDEN

Starting date - expected end date|**01.04.2017 - 31.03.2020**

www.agrinupes.eu

ERA-NET / Co-fund WaterWorks2015

Better management requires reliable decision-making systems (DSS) based on water quality feedback making use of cost-effective, robust, low-maintenance and accurate sensors for nutrients and pesticides. So far, available sensor technology does not meet the challenges for on-site monitoring and feedback control. AGRINUPES intends to develop NPK sensors and integrate them into fertigation equipment, as well as low cost biosensors for insecticide detection, with demonstration of their use for practical management purpose at several European demo-sites.

Lead partner: INESC TEC Institute for Systems and Computer Engineering, Technology and Science – Portugal

Other partners

Research

- Faculty of Sciences of University of Porto - Portugal
- Wageningen University and Research - The Netherlands
- Turkish Water Institute – Turkey
- EGE University – Turkey
- Research Institutes of Sweden - Sweden

SME

- EGE Life Sciences - Turkey
- Riegos y Tecnología, S.L. - Spain

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Contact at workshop: **Battilani Adriano**
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AGRO-gestor: Collective management of crops at the service of environmental programs related to the use and quality of water

Gestión colectiva de cultivos al servicio de programas ambientales relacionados con el uso y la calidad del agua

SPAIN - NAVARRA

Starting date - expected end date | **26.10.2017 – 30.11.2021**

https://www.agrogestor.es/

Life project

The development of the AGROgestor project will launch a demonstration of Collective Management of crop information, being an opportunity for the development of Sustainable Services in irrigated agriculture oriented to the governance of water, the efficiency in the use of water irrigation and the quality of water bodies. AGROgestor project will propose environmental and economic indicators that allow the analysis and collective management. The project will build a platform to analyze through indicators, real scenarios and scenarios of strategic planning or climate change. The core result of the project will be an innovative webGIS AGROgestor platform, with tools and utilities supporting

Lead partner: INTIA (Institute of Transfer and Innovation in Agri-food Sector)

Other partners

- ITAP (Agronomic Technical Institute, Albacete)
- PRODEVELOP (Consulting and Software Development, Valencia)
- IFAPA (Institute of Agricultural Research and training, Andalucía)
- NEIKER (Institute for Agricultural Research and Development. País Vasco)
- FMB (Agronomic Research Center, Cataluña)
- AEMET (Meteorology Statal Agency)

Project contact: **Alberto LAFARGA** | Serapio Huici, 22. 31610 Villava, Navarra, Spain
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ECOSAFEFARMING: DEVELOPMENT AND TESTING OF A NOVEL PHOTOCATALYTIC SYSTEM FOR EFFICIENT COGENERATION OF CLEAN WATER AND HYDROGEN FOR ECOSAFE AGRICULTURE

TURKEY, SPAIN, GERMANY, CANADA

Starting date - expected end date| 01.12.2017 - 30.11.2020

ERA-NET COFUND WATERWORKS 2015 project

ECOSAFEFARMING project aims to bring a solution to water and energy issues by achieving an optimized and energy free disinfection of UWW with novel solar assisted-treatment technologies for producing safe food and clean energy with reduced water footprint. A new photocatalytic reactor will be developed by integration of a photoactive photoanode electrode with a membrane stacking with the objective of design an efficient and energy free PCED reactor system for treatment-disinfection and desalination of UWW.
In addition, this PCED system is further modified with a photoactive membrane to allow the cogeneration of clean water and hydrogen (H_2-PCED) from solar (or UV) radiation and wastewater. CIEMAT-PSA will participate in the ECOSAFEFARMING project in the development and evaluation activities of the proposed PCED reactor and subsequent modification for the cogeneration of clean water and hydrogen (H_2-PCED). CIEMAT-PSA will carry out experimentation and reuse analysis of UWW treated for raw eaten crops irrigation to evaluate the capacity of this technological solution to provide regenerated water for agricultural reuse.

Lead partner: Istanbul University (Turkey)

Other partners

Research

- Istanbul University (Turkey)
- MIR Arastirma ve Gelistirme A.S. (Turkey)
- Brandenburg University of Technology (Germany)
- University Of Ontario Institute Of Technology (Canada)
- CENTRO DE INVESTIGACION ENERGETICA MEDIOAMBIENTAL Y TECNOLOGICA (CIEMAT) – PLATAFORMA SOLAR DE ALMERIA – Almería – Spain

SME

- FCC AQUALIA S.A
- Central Assembly of end-users of the aquifer of west Almeria and the local irrigation community (Almería),
- Ecosystem Environmental Services S.A.,
- CAJAMAR foundation (Las Palmerillas)
- IQD Invesquia

Project contact: **Prof. Sixto Malato** | Senés km 4.5, E-04200 Tabernas, Almería
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LIFE AQUEMFREE - In-Farm remediation by solar photocatalysis of agro-waste water with pesticides from remnants, cleaning and rinse

Remediación in-situ mediante fotocatálisis solar de aguas residuales agrícolas contaminadas por plaguicidas procedentes de sobrantes, limpiezas y enjuagues de equipamientos y envases

SPAIN – MURCIA REGION

Starting date - expected end date | 01.07.2014- 30.06.2018

http://www.life-aquemfree.eu/?lang=en

Video

LIFE project

Despite obligations in the EU Directive on the Sustainable Use of Pesticides (2009/128/EC), no available technology is fully adequate to enable farmers to manage pesticide residues of agro-waste water. The project AQUEMFREE (LIFE13 ENV/ES/000488) designed and demonstrated on five commercial farms an on-site innovative equipment allowing pesticide remnants in waste water to be dealt with. Through the use of solar energy, an oxidant and a catalyst, recovered at the end of the process for its reuse, the AQUEMFREE system completely degrades pesticides without generating any other residue. The implementation of the AQUEMFREE system in medium-sized and large farms could provide a solution for 80-90% of this environmental problem, especially in Mediterranean farms because of solar irradiation conditions.

Lead partner:

IMIDA (Murcia Institute of Agri-Food Research and Development)

Other partners

Research

- Universidad de Murcia. Departamento de Química Agrícola

Farmers

- FECOAM. Murcia Federation of Co-operatives
- Farm Los Rizaos: Pablo Galindo
- Farm Cabezo Grande: Miguel Martínez Coronado
- Farm La Deseada (coop. Thader): José Luis Nortes
- Farm Los Buitragos: Ramón Sánchez

Company

- Novedades Agrícolas S.A.: leading company in irrigation and farm technology

Project contact: **Fulgencio Contreras López** | IMIDA C/ Mayor s.n. La Alberca, 30150 Murcia ES
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LIFE REAGRITECH

Regeneration and reuse of runoff and drainage water in agricultural plots by combined natural water treatment systems (LIFE11 ENV/ES/579)

SPAIN - CATALONIA

Starting date - End date | **01.01.2013 - 30.12.2016**

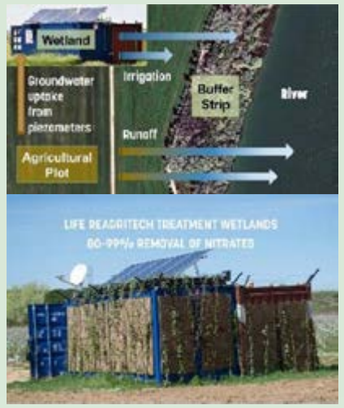
www.reagritech.com

LIFE+ Environment Policy and Governance 2011

REAGRITECH has been a demonstration project with the main objective to reduce the consumption of water resources and improve its quality, integrating natural systems (treatment wetlands and buffer strips) for wastewater treatment controlling nutrients and pesticides from the generation source: agricultural activity.

The main aim of REAGRITECH Project was to demonstrate a sustainable method for water reuse of agricultural runoff and groundwater polluted by nitrates from irrigated crops.

The expected longer-term results for the REAGRITECH were the implementation of the innovative systems to treat agricultural runoff on a large scale, improving water quality and the riparian ecosystems affected by agricultural activities.



Lead partner: UNESCO Chair on Sustainability, Universitat Politècnica de Catalunya-BarcelonaTech, Spain

Other partners

SME

- TYPSA Group - Técnica y Proyectos SA / Consulting company, Spain

Research

- LEITAT - Acondicionamiento Tarrasense / Technological Center, Spain.

Farmers

- Jordi Prim/Farmer, Lleida, Spain

Project contact: **Jordi Morató** | Carrer Colom 1, TR1, EET, Terrassa, 08222, SPAIN
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Contact at workshop: **Ángel Gallegos**
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Renewable Energy Desalination Action Group

http://www.eip-water.eu/RE_Desalination

EIP Water Action Group

The Action Group promotes the use of desalination powered by renewable energy, as an environmentally friendly and decentralised solution for sustainable water supply. Renewable energy desalination applied to agriculture as a new source of water for irrigation plays an important role in the Water-Energy-Food nexus.

Main Objectives: (i) Improve Renewable Energy Desalination technology and reduce its costs; (ii) Establish an economic and institutional support system for RE-desalination; (iii) Increase awareness on RE-desalination; (iv) Bring new technologies to the market.

Main Activities: (i) coordinate and promote R&D&I on RE-Desalination; (ii) support development and commercialization of RE-Desalination products; (iii) raise awareness about the technology and demonstrate its market potential; (iv) establish a long-term network to act on specific areas that face water problems; (v) support development and promotion of legal structures and policies to facilitate implementation of RE-desalination technologies; (vi) disseminate the activities and increase networking.

EIP Water Action Group
Pooling resources - Innovating water

Lead partner: CIEMAT-Plataforma Solar de Almería, Spain

Other partners:

Research:

Agricultural University of Athens (GR); Aston University (UK); Centre for Renewable Energy Sources & Savings (GR); Fraunhofer Institute for Solar Energy (DE); Middle East Desalination Research Centre (Oman); IMIEU (BE); Technical University of Munich (DE); University of Palermo (IT); University of Valladolid (ES)

SMEs:

AcuaGo (DE); Elemental Water Makers BV (NL); Sealeau BV (NL); Instituto Tecnológico de Canarias SA (ES); Resolute Marine (IE); Seawater Greenhouse (UK); SolarSpring Gmbh (DE); Solwa SRL (IT); WIP Renewable Energy (DE); European Desalination Society (IT)

Project contact: **Guillermo Zaragoza** | Plataforma Solar de Almería, Tabernas, AL-04200 Spain
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SPADIS Smart Prices and Drought Insurance Schemes

EUROPEAN UNION

Starting date - expected end date | Since **01.09.2014**

An Action Group within the European Innovation Partnership EIP Water

SPADIS aims at contributing to strengthen research and innovation efforts of its partners, is meant to develop pilot and demonstration projects, should contribute to anticipate any necessary regulation on innovative instruments to tackle water scarcity and droughts, and aims at generating conditions for relevant innovation outputs to reach the market in a straightforward way.

SPADIS stands for Smart Prices And Drought Insurance in Mediterranean countries. As an Action Group, it responds to some of the strategic priorities included in the Strategic Implementation Plan (SIP) of the EIP-Water: flood and drought risk management, on one side; water governance, on the other. Specifically, its initial actions deal with innovative designs of pricing water security and drought insurance to reduce vulnerability to scarcity and increase resilience to drought events. This is pursued through the development of decision support tools, sound information systems, and models to support decision-making on relevant water management issues. Besides its relevance for assessments of policy alternatives to tackle water governance challenges, the decision support tools developed by SPADIS aim at understanding the multiple links between water and energy, food, climate change adaptation, disaster risk reduction and, in general, to enhance the contribution of water to a more sustainable and a more robust growth.

Lead partner: IMDEA Agua, Universidad de Alcalá

Farmers: FENACORE, FENAREG

Project contact: **Carlos M. Gómez** | Universidad de Alcalá
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WIRE: Water & Irrigated agriculture Resilient Europe

ITALY, SPAIN, BELGIUM, NEDERLANDS, SLOVENIA, PORTUGAL, FRANCE, GERMANY, GREECE, AUSTRIA, DENMARK, EU

Starting date - expected end date|**01.03.2014 – not determined**

Website

EIP Water Action Group

The big challenge of sustainable irrigation in Europe is addressed by the WIRE Action Group under the European Innovation Partnership on Water. WIRE is committed to unlocking the potential and accelerating uptake of innovative irrigation technology and improving agricultural water management in line with the objectives of the Water Framework Directive, promoting the EU green economy while preserving and increasing the employment in agriculture and related sectors. WIRE currently has 56 partners from nearly all the sectors involved in irrigated agriculture, ranging from science, companies dealing with irrigation technology and management, representatives of the farming sector at European and national level, advisory services, as well as water managers. Together they cover over 90 % of irrigated area in Europe.
WIRE promotes the involvement of end-users into the development of hard and soft innovative products and concepts, allowing their customisation, focusing on practical solutions to overcome operational and structural farming problems, increasing performances of cropping systems and techniques, creating new job and business opportunities in rural areas.

Lead partners: **Consorzio Bonifica CER** (Public Body)
& **CopaCogeca** (Farmer Association)

Other partners

Research

- 36 Research centres and knowledge providers

End Users

- 11 End Users

SME

- 9 Companies

Project contact: **Battilani Adriano** | Consorzio Bonifica CER - via E. Masi, 8 – 40139 Bologna
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Off-grid desalination for irrigation in the Jordan Valley

JORDAN VALLEY

Starting date - expected end date | 01.04.2017 - 31.03.2019

Transboundary groundwater resources in the Jordan Valley are seriously depleted and over-pumping has led to an increase in water salinity. Due to the inefficiency of the electricity grid in the Palestinian Jordan Valley, off-grid desalination technology, powered by solar energy, is a good solution to improve the quality of brackish water for irrigation by local farmers. In this student-led project, university students are working in international teams to develop a desalination prototype that is solar powered and provides high recovery of freshwater from brackish feedwater. A novel batch reverse osmosis (RO) concept maximises recovery of water and energy. This approach has potential in helping to build capacities in areas suffering from groundwater salinization and in encouraging international collaboration to address shared challenges in the Jordan Valley. Successful developments from the proposed project are being taken up by technical civil society organisations, such as the Palestinian Wastewater Engineering Group, to scale up and implement solar-powered desalination plants and extend the capacity building through training workshops for farming communities.

Lead partner: Aston University, Birmingham, UK

Other partners

Research

- Arava Institute for Environmental Studies, Israel

NGOs

- Palestinian Wastewater Engineers Group, West Bank

Sponsors

- British Council
- Douglas Bomford Trust

Project contact: **Philip Davies** | Aston University, Birmingham, B4 7ET, UK
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Solar powered desalination for irrigation of plant nursery

INDONESIA – BUKIT PENINSULA

Starting date - end date | 09.08.2011 - 18.08.2015

http://www.elementalwatermakers.com/project-indonesia/

Innovative project

A plant nursery in Indonesia was faced with salinity issues in the water supply. Desalination was required to solve this salinity problem, however the high electricity costs involved in desalination were a big concern. Through an innovative system set-up the project provided a reverse osmosis unit 100% powered by solar energy. By incorporating an elevated salt water storage, the system is able to run 24/7 using the stored salt water, plus the pressure it provides from the elevation, to continue running the system also during the night. By avoiding the use of grid electricity and by optimal usage of the desalination equipment affordable fresh water is provided. More information on the technology can be found in the following video:

https://youtu.be/fjWDcG8xy9s

Lead partner: **Elemental Water Makers B.V.**

Elemental Water Makers provides efficient and easy reverse osmosis technology. Powered by the sun, wind, waves or your energy. In order to provide reliable access to fresh water that's affordable.

Other partners

Research

- Technical University Delft, Netherlands
- Institut Teknologi Bandung, Indonesia

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WATER4FOOD: DEVELOPMENT AND EVALUATION OF NOVEL PHOTOCHEMICAL AND BIOLOGICAL PROCESSES FOR TREATMENT AND REUSE OF WATER IN FOOD INDUSTRIES

SPAIN

Starting date - expected end date | **01.01.2015 - 31.12.2018**

Spanish National funded project

The main objective of WATER4FOOD is to develop novel energy-efficient and environmentally sustainable processes for water treatment in food industries, increasing the efficiency in the use of water resources by the integration of the water disinfection and decontamination steps with the industrial washing process and irrigation of crops used as raw materials, evaluating the technoeconomic viability of the global process.

In addition, the project also involves the development of predictive models of the process that permit the evaluation of the microbiological and chemical risks derived of the cross contamination sources, allowing the optimization of the shelf-life of the food products in the market.

Lead partner: **University of Rey Juan Carlos**

Other partners

Research

1. Universidad Rey Juan Carlos – Madrid- Spain
2. CENTRO DE INVESTIGACION ENERGETICA MEDIOAMBIENTAL Y TECNOLOGICA (CIEMAT) – PLATAFORMA SOLAR DE ALMERIA – Almería – Spain

SME

3. Verdifresh S.L
4. Cítricos del Andarax
5. FCC Aqualia
6. IQD Invesquia
7. EcosystemEnvironmental Seervices
8. Sistemas DR

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ORGANIC FARMING

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ORGANIC FARMING

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EIP-AGRI workshop 'Organic is Operational'

14-15 June 2017 | Hamburg, Germany

https://ec.europa.eu/eip/agriculture/en/event/eip-agri-workshop-organic-operational

BIO2 Competitiveness increase of high hill and mountain farms through cereal biodiversity valorisation under organic farming

Aumento della competitività delle aziende agricole di montagna e alta collina attraverso la valorizzazione della Biodiversità cerealicola in regime Biologico

ITALY - EMILIA ROMAGNA

Starting date - expected end date | **01.10.2016 – 30.09.2018**

www.bioalquadrato.it

Operational Group

Bio2 will increase the competitiveness of mountain farms through cereal-biodiversity valorisation and organic farming, helping farmers benefit from the existence of a growing demand for organic old/local varieties by the local first processing industry. Combinations of old genotypes of the *Triticum* genus will be identified, which, grown in mixtures - i.e. evolving populations - are able to give adequate yields and good predisposition to processing. The project will carry out a chemical characterisation of the agricultural products and a nutritional and organoleptic evaluation of bread produced from these evolving populations. Glycaemic responses and post-prandial plasma insulin levels will be measured in healthy subjects. An economic and market analysis will enable the full exploitation of the newly adopted production course.

Lead partner: Open Fields (SME)

Other partners:

Training

- Molino Grassi (Industrial mill); Agriform (Training agency).

Research

- Department of Food and Drug, University of Parma (University)
- Azienda Agraria Sperimentale STUARD (Experimental farm)

Farmers

- Luca Marcora/Azieda Agricola Angus
- Luca Valentini/Azienda Agricola Bismantova
- Gianmaria Cunial/Azienda Agricola Elena di Cunial
- Claudio Grossi/Azienda Agricola Grossi Claudio
- Massimiliano Casali/Soc. Agricola Le Piagne

Project contact: **Silvia Folloni** | Strada Consortile 2, 43044 Collecchio (PR), Italy
T: + 39 0521803222 | s.folloni@openfields.it

Innobrotics

Innovation (innovation) and Diabrotica virgifera (western corn rootworm)

AUSTRIA – THREE FEDERAL STATES (STYRIA, BURGENLAND AND CARINTHIA)

Starting date - expected end date | **01.01.2016 - 31.12.2018**

https://www.zukunftsraumland.at/projekte/1475

Operational Group

In recent years, the corn rootworm has spread rapidly in Austria and has caused great damage to many farms. Innovative solutions have to be found as quickly as possible in order to avoid further major losses in value. The main objectives of the project are: Research into sustainably effective, ecologically compatible beetle control measures; Screening of existing and testing of new plant varieties, which are an potential alternative feed to corn; The Implementation of the knowledge acquired in the project into the farming practices. An important benefit for the affected farms is the preservation of the value added by a high proportion of self-produced basic feed in the refining industry as well as the best possible substitution of the main crop corn by alternative crops such as millet, field bean and soybean. As a result, crop rotation and biodiversity in agriculture are significantly increased.

Lead partner: Chamber of Agriculture and Forestry Styria

Other partners:

Research

- Saatzucht (Plant breeding company) Gleisdorf Ges.m.b.H.

Farmers

- Mag. Christian Konrad – arable farmer
- Gottfried Loibner - livestock farmer

External partners

- University of Natural Resources and Life Sciences, Vienna
- HBLFA (Higher Federal Institute of Agriculture and Research) Raumberg-Gumpenstein
- Styrian Research Council
- Agricultural College Hatzendorf and many more

Project contact: **Christian Werni, Bakk. MSc.** | Hamerlinggasse 3, A-8010 Graz
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Organic dock control – development and implementation with clearwing moths

Biologische Ampferbekämpfung – Entwicklung und Umsetzung mit dem Ampferglasflügler

AUSTRIA

Starting date - expected end date | 01.01.2016 - 31.12.2018

www.arge-ampfer.at

Operational Group

Broad-leaved docks (e.g. *Rumex obtusifolius*) are very serious weeds in grassland. They have a strong taproot that can cause heavy loss of cattle fodder quantity and quality. Herbicide free measures like digging out the dock-roots or soil cultivation that aim at destroying the roots consume a lot of time, money or physical effort. To date no effective measures for organic dock control using beneficial organisms are available for the grassland farmers. The larvae of certain clearwing moth species (butterflies) feed on and destroy the dock-roots.
The Operational Group "Organic Dock Control" develops and evaluates the application of native clearwing moth species against docks under practical conditions in Austrian grassland. The project wants to answer the following question: Is the application of clearwing moths as a measure to organic dock control in Austrian grassland management effective and feasible?
Knowledge transfer and cooperation between research and practice during development and implementation is an essential element of the project. Results will be disseminated by field-workshops, presentations, web page and articles. Agricultural professional schools will have a particular role, because they enable a broad transfer of knowledge by the students. If clearwings are a feasible measure, product development will be the next step.

Lead partner: Herbert Mock – Wood trading company

Other partners:

Project Coordinator | Scientific support

- MELES GmbH (Consulting Engineers for Biology)

Farmers

- Two organic dairy farms in Lower Austria: field trials in practice
- Three associations of organic farmers – field trials in practice:
  - Bio Austria Vienna & Lower Austria
  - Bio Austria Carinthia
  - Bio Ernte Styria

External partners

- Two agricultural professional schools: knowledge transfer, exact field experiments
  - LFS Hohenlehen
  - LFS Litzlhof
- HBLFA Raumberg – Gumpenstein: research, school, knowledge transfer, exact field experiments
- AGES - Austrian Agency for Health and Food Safety Ltd.: research, mass-rearing
- University of Vienna, Division of Tropical Ecology and Animal Biodiversity: research, rearing
- Botanical Garden of the University of Vienna: Providing plant material for mass rearing
- Austrian dairy farms: field trials in practice
- ÖAG – Austrian Association of Grassland and Forage Production: knowledge transfer

4AGEPROD: Analytical trials of Alfalfa harvest

Produire des fourrages riches en proteine, récolte de la luzerne

FRANCE – BRETAGNE/PAYS DE LA LOIRE

Starting date - expected end date | 01.01.2016 – 31.12.2019

https://www.pole-agro-ouest.eu/projet-sos-protein/4ageprod/

Operational Group

The objective of 4AGEPROD is to test under different climatic areas, in west of France, several ways of cultivating forages using: Alfalfa, cereals-leguminous, grass-leguminous. The best solution will be tested for their feed impact for cattle. Another aim is to increase duration of grassland productivity by the collection of data and experiments on farms.

In this project, the experimental farm of Thorigné d'Anjou tests two types of Alfalfa harvest. More exactly, we test a windrow turner. The aim is to reduce the leaf losses, to converse most protein value.

We have worked for over 15 years on our organic cattle farm to find solutions to improve protein self-sufficiency and feed security with various flora grasslands, cereals/protein crop combination, Alfafa etc.

Lead partner: Pôle Agronomique Ouest

The Pôle Agronomique Ouest is a French inter-regional tool piloted by the council of Brittany and Pays de la Loire. Founded in 1992 by the two régional councils, its objective is to promote research programs related to economical ressources in west of France.

Farmers

- FORTIN Julien (manager on the experimental farm of Thorigné d'Anjou)
- DAVEAU Bertrand (engineer on the experimental farm of Thorigné d'Anjou)

Project contact: **Henry FREULON** | 65, rue de Saint-Brieuc – 35 042 Rennes
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Farm contact: **Julien FORTIN** | La Garenne de la cheminée, 49220, Thorigné d'Anjou
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Vigispores: development of a decision support tool to manage three fungal diseases of shallots

VIGISPORES : développement d'un outil d'aide à la décision (OAD) pour la gestion de trois maladies fongiques de l'échalote

FRANCE - BRETAGNE

Starting date - expected end date | January 2017 – December 2019

Operational Group

Shallots production in Brittany represents 26000 tonnes, which is 78 percent of national production. Three fongical diseases cause problems: mildew (Peronospora destructor), and two botrytis (B. squamosa and B. allii). Management of this three diseases is complicated (treatment positioning).

The objective of the Vigispores project is to develop a decision support tool which will allow at farmers to protect shallot crops in a more efficient way against these three diseases by linking a spores catching system and a molecular detection and quantification.

Lead partner:

CERAFEL (association of producer organisations, vegetables, fruit and horticulture)

Chambre d'agriculture de Bretagne (Consulting and development)

Caté (Experimental station, conventional agriculture)

Terre d'essais (Experimental station, organique and conventional agriculture)

Vegenov (Technological resource center (CRT) plant specialist, experiment, consulting and development)

Other partners

Research

- SAEP – OBS Innovation (Creation of varieties, production of seeds and seedlings)
- Arvalis (Vegetal technical institute)

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Adapting technology in professional fruit growing in the "Altes Land" region

Technologieanpassung im Erwerbsobstbau in der Region Altes Land

GERMANY – LOWER SAXONY

Starting date – expected end date | 2016 – 31.10.2019

http://www.eip-esteburg.de

Operational Group

"Sondergebiet Altes Land – ALVO-Tech-Transfer"

With respect to the regulation for the Altes Land - special area released on 11.03.2015, the aim of the innovation project is to significantly contribute to the further development of the competitiveness and sustainability of the fruit growing sector in lower Saxony. It will contribute to improving the positive impact of plant protection management strategies used by both integrated and organic fruit farmers on the preservation of (natural) resources.

Furthermore, existing and prospective technologies and strategies from both ecological and integrated production, will be evaluated in terms of their transferability to the respective other type of production.

The first considerations deal with the comparison of an axial fan to a tunnel-application system in different aspects such as degree of leaf-wetting, differences in floor load or influence on beneficial organisms at one integrated and one organic managed farm as well as at the Institute's own experimental area. More technical solutions and strategies will be added in time.

Lead partner:

Landwirtschaftskammer Niedersachsen, Obstbauversuchsanstalt Jork / Chamber of Agriculture Lower Saxony, Fruit Research Institute Jork (Federal state research institute)

Other partners

Research

- Obstbauversuchsring des Alten Landes e.V (Experimental and consulting organization)
- Öko-Obstbau Norddeutschland Versuchs- und Beratungsring e.V. (Experimental and consulting organisation)

Farmers

- Bio-Obsthof Königreich – organic farmer
- Hausschildts Obsthof – integrated farmer

Project contact: **Hinrich Holthusen** | Moorende 53, 21635 Jork, Germany

T: +494162 / 6016-131 | Hinrich.Holthusen@lwk-niedersachsen.de

AMF Agri – Mycorrhiza for sustainable farming in potatoes, corn and soybean

AMF Agri – Verfahrenstechnik zur nachhaltigen Anwendung mykorrhizierter Bodenhilfsstoffe im Feldanbau von Soja, Körnermais und Kartoffeln

GERMANY

Starting date - expected end date | **18.05.2016 - 15.02.2019**

Operational Group

Scarce and expensive resources (especially phosphate) and the requirement of a sustainable economy require new concepts in plant nutrition. Mycorrhizal soil additives improve soil life, nutrient availability and drought tolerance significantly, they thus have a positive effect on plant development and health. Use of available machines (Microgranulator) and their adaption to the application process will guarantee an optimal mycorrhization of the crop under lowest possible costs. Field trials in maize (corn, organic), soybean (organic, application in combination with rhizobia) and potato (conventional) will be established. Top priority is the practical approach: the technology for mycorrhiza application must be effectively and easily integrated into agricultural operation. For the success of the cooperation, participating farmers are an important prerequisite. Preliminary tests during two growing seasons have been able to bring promising initial results for: grain yield in maize (organic) and potato tuber yield (conventional) with reduced mineral P and N fertilisation.

Lead partner: Institut für Pflanzenkultur e. K.

Other partners

Research

- Leibniz-Institut für Gemüse- und Zierpflanzenbau Großbeeren/Erfurt e.V., Prof. Dr. Philipp Franken

Farmers

- Hof Trumann, Bernd Trumann
- Biolandhof Cordts, Michael Cordts

Project contact: **Dr. Carolin Schneider** | Solkau 2, 29465 Schnega
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Humus formation by legumes

Leguminosen zum Humusaufbau

GERMANY – MECKLENBURG-WESTERN POMERANIA

Starting date - expected end date | **November 2015 – November 2019**

Operational Group

In organic agriculture, humus is an important source of nitrogen and therefore humus formation is essential. Crop plants specifically for this purpose are Red and White Clover as well as field beans and peas. In eastern and southern Mecklenburg-Western Pomerania, there are many farms with poor soil conditions and yearly precipitation below 550 mm. Under these conditions, the traditional crops can no longer grow, hence alternative legumes have to be found.

In this project, two crop rotations, one including cattle and one without, have been cultivated on an organic farm in Plöwen, in south-eastern Mecklenburg-Western Pomerania. Furthermore, in these crop rotations alternative legumes are being tested in field trials: Sickle Alfalfa, Bird's Foot Trefoil and Common Melilot (solo and with Red Fescue and Festulolium), as well as Common Vetch, Yellow Lupine and Blue Lupine. Organic farms with dry and sandy soil are growing alternative legumes on their fields to additionally demonstrate alternative legumes in their regions.

Lead partner: LMS Agrarberatung (Agricultural Advice Service)

Other partners:

Research

- State Research Center of Agriculture and Fisheries Mecklenburg-Western Pomerania

Farmer

- Ökologische Landwirte Acker- und Grünlandbewirtschaftungs GmbH Plöwen, Plöwen

Organic farming association

- Biopark e.V., Güstrow

Project contact: **Dr. Rolf Hornig** | Graf-Lippe-Str. 1, 18059 Rostock
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InnoBau– Sustainable innovations in agricultural construction

InnoBau – Nachhaltige Innovationen im landwirtschaftlichen Bauwesen

GERMANY – SCHLESWIG-HOLSTEIN

Starting date - expected end date | **01.09.2015 – 31.08.2018**

www.eip-agrar-sh.de

Operational Group

The aim of the Operational Group "InnoBau" is to support sustainable innovation in agricultural construction with a new, systematic decision-making process. For this, the group is developing and testing, with participating farmers from Schleswig-Holstein, Germany, a tool for a systematic planning management which is suitable in practice. The planning is supported on real agricultural construction projects for livestock in conventional and organic production.

The process of intensive planning is based on assessment criteria and sub-criteria for sustainable animal housing systems, which are based on the three parts of sustainability. Novel ideas for animal housing systems should be assessed in practice to ecological, economic and social sustainability already during the planning phase.

Lead partner: FuE Zentrum FH Kiel GmbH with Bjoern Lehmann-Matthaei (www.fh-kiel-gmbh.de)

Other partners:

Research

- University of Applied Science Kiel, Department Agriculture Studies with Profes. Dres. Urban Hellmuth, Stefan Krüger, Yves Reckleben
- Christian-Albrechts-Universität zu Kiel, Department Agricultural process technology with Prof. Dr. Eberhard Hartung
- Arbeitsgemeinschaft Landtechnik-Bauwesen Schleswig-Holstein e. V. with Prof. Dr. Urban Hellmuth

Farmers

- 23 farmers from Schleswig-Holstein, Germany

Project contact: **Prof. Dr. Urban Hellmuth**
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Innovation compost systems for more soil fertility

Innovation Kompostsysteme für mehr Bodenfruchtbarkeit

GERMANY- SCHLESWIG-HOLSTEIN

Starting date - expected end date | **01.06.2015 - 31.05.2018**

Operational Group

Composting is a proven method of sustaining and increasing soil fertility. The aim of our project is to develop new technological methods of composting and production of compost extracts in cooperation with farmers, consultants and scientists.

Region-specific strategies for increase of yields and humus content are performed by organic farmers with support by scientists. Internal methods of producing compost respectively compost extract are determined with consideration of work management. For understanding the internal compost processes and for optimisation a quality management and rapid testing methods are evaluated.

Composts as well as compost teas created on the farms and commercial compost will be investigated on field trials. In primary tests the project is looking at compost teas for their effectiveness on cultivated plants.

Lessons learned so far: Each farmer is creating compost their own way. The material in starting and during the composting has to be sufficiently wet. For a good result the different materials are to be mixed up well in the beginning. There are two different methods of composting: to start the compost once or to turn it over several times. If it is set up once, the material has to have a higher density because the temperature should not rise above 50°C for optimal efficiency. In 2016 the yield of summerwheat fertilised with compost was about 18% higher in comparison to areas not treated in this manner.

Lead partner: Ökoring SH e.V., advisory service

Other partners:

Research

- Institut für Pflanzenbau und Pflanzenzüchtung, Grünland und Futterbau/ Ökologischer Landbau, CAU Kiel, Dr. Loges
- Universität für Bodenkultur Wien - Department IFA-Tulln Prof. Ines Fritz
- Universität für Bodenkultur Wien - Department für Materialwissenschaften und Prozesstechnik
- Institut für Holztechnologie und Nachwachsende Rohstoffe
- Interdisziplinäre Arbeitsgruppe Holzchemie, Dr. Johannes Tintner

Farmers

- 17 organic farmers, one conventional working farmer

Project contact: **Romana Holle** | Grüner Kamp 15-17, 24768 Rendsburg
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Senior laying hens

Seniorlegehennen

GERMANY - SCHLESWIG-HOLSTEIN,

Starting date - expected end date | **01.06.2015 - 30.06.2018**

Operational Group

The project goal is to significantly extend the lifetime production of organic hens. Six farms with a total of seven flocks are members of the OG and participate actively. Key parameters are developed with the farmers and systematically recorded in the hen houses in order to develop the management of extended residence period in the daily care of laying hens (care and feeding) on farms.

In this project, solutions and their documentation for good technical support management for laying hens to be developed for a residence period of up to two years. The effective parameters to be measured are developed by the participating farmers, the hen flock vet, and scientific support (FLI Celle). At the participating farms a passage of layers over a longer duration will be closely followed. The acquisition of important data is implemented on the farms and standardised. The timely detection and evaluation of the parameters is done with tablet PCs. Practical data collection will continue to be developed with the managers during the duration of the project. Animal welfare indicators are collected on-site by an advisor. This ensures an objective comparison of animal welfare conditions on the farms.

The suitability of the methods for other laying hen holdings is judged by the participating farmers at the end of the project. It should be evaluated whether the developed concept can be used for longer life of organic laying hens on other farms.

Lead partner: Ökoring Schleswig-Holstein e.V.

Other partners

Farmers / advisory

- The group includes six organic working farmers, one veterinarian, and two advisors

Research

Friedrich-Löffler-Institut in Celle

Project contact: **Romana Holle** | Grüner Kamp 15-17, 24768 Rendsburg
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Testing easily digestible red and white clover pellets in feed for laying hens

Erprobung hochverdaulicher Rotklee-Pellets und Weißklee-Pellets zur Proteinversorgung von Legehennen

GERMANY - SACHSEN

Starting date - expected end date | **01.05.2015 – 31.07.2017**

Operational Group

This Operational Group is testing young growth of red and white clover as an alternative protein component of organic laying hens. They are testing at two times different mixtures of feed with red and White Clover pellets compared to the customary feed for 8 weeks in hens-groups of 100 hens. They expect to develop suitable rations for feeding laying hens with Red and White-clover to substitute expensive and mostly imported protein components like oil-cakes or soya.

Lead partner:

ZAFT: Zentrum für angewandte Forschung und Technologie e.V. an der Hochschule für Technik und Wirtschaft Dresden

Other partners:

Research

ZAFT: Zentrum für angewandte Forschung und Technologie e.V. an der Hochschule für Technik und Wirtschaft Dresden

Farmers

Peter Probst, Landgut Naundorf GmbH, 09627 Bobritzsch-Hilbersdorf

Project contact: **Peter Probst**
T: +49 177 6534780 | probst.peter@gmx.net

Use of composts made of biowaste and treated compost in organic potato production

Einsatz von Komposten aus der getrennten Sammlung sowie von weiterbehandeltem Kompost im ökologischen Kartoffelanbau

GERMANY - NIEDERSACHSEN

Starting date - expected end date | **28.02.2016 - 31.12.2018**

www.eip-kompost.bio

Operational Group

- Defining application-suggestions for the use of composts in organic potato-production
- Establishing a network of compost-plants that can deliver high-quality composts for organic farmers
- Public campaign to inform about the context of bio-waste compost-quality

Compost is a soil excipient with fertilising and humus building characteristics and with an important value in sustainable agricultural systems. Potatoes are a very important crop in organic farming in Lower Saxony. But this crop lowers the humus-content in the soil. So it can be necessary to bring humus to the soil again. Since 2014 organic farmers of the biggest organic agricultural associations in Germany are allowed to use biowaste-composts as well. So there is no big experience in using this material. On four involved farms, compost experiments will be conducted in three successive years. Different variations of composts will be compared. The experiments should demonstrate the influence of the compost application on the yield and on the quality of the potatoes.

Lead partner: Kompetenzzentrum Ökolandbau Niedersachsen GmbH

Other partners

- Bioland Bremen/Niedersachsen e.V.
- Ökoberatungsgesellschaft mbH
- Verband der Humus- und Erdenwirtschaft Region Nord e.V.

Advising partners

- ISA Ingenieurbüro für Sekundärrohstoffe und Abfallwirtschaft
- AHA Zweckverband Abfallwirtschaft Region Hannover

Research

- Universitiy for applied science Osnabrück

Farmers

- Biohöfe Oldendorf GbR
- Dieter Dreyer
- Robert Hübner
- Maarten Maage

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Agroecological cover

Colture di copertura per l'incremento della sostanza organica del suolo e il contenimento delle malerbe

ITALY – EMILIA-ROMAGNA

Starting date - expected end date | **01.08.2016 - 30.07.2019**

http://cover.crpa.it

Operational Group

The main goal is to develop innovative conservation tillage systems, based on the use of cover crops. It aims to take advantage of the principles of agroecology to get a wide range of agronomic and environmental benefits.

Specific objectives are:

1) Reverse both the soil organic matter reduction trend and the increase in weeds;

2) Define the most suitable cover crops for use in the soil and climate conditions of the Emilia-Romagna region, and the best agronomic management methods for these;

3) Evaluate the agronomic effects, environmental and economic sustainability of the innovative farming practices, with the aim to promote a conscious transfer to farms.

Lead partner: Fondazione CRPA Studi Ricerche, Italy (Research Organisation)

Other partners

Research

- Centro Ricerche Produzioni Animali – CRPA SpA
- Università Cattolica del Sacro Cuore (DI.PRO.VE.S.)
- Università degli Studi di Parma (Dipartimento SEA)

Farmers

- Società Agricola Ciato

SME

- Caussade Semences Italia srl
- Emme Emme srl

Project contact: **Paolo Mantovi** | Viale Timavo 43/2- 42121 Reggio Emilia, Italy
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Farm contact: **Mario Schianchi** | Società Agricola Ciato

BIO2 Competitiveness increase of high hill and mountain farms through cereal biodiversity valorisation under organic farming

Aumento della competitività delle aziende agricole di montagna e alta collina attraverso la valorizzazione della Biodiversità cerealicola in regime Biologico

ITALY - EMILIA ROMAGNA

Starting date - expected end date | **01.10.2016 – 30.09.2018**

www.bioalquadrato.it

Operational Group

Bio2 will increase the competitiveness of mountain farms through cereal-biodiversity valorisation and organic farming, helping farmers benefit from the existence of a growing demand for organic old/local varieties by the local first processing industry. Combinations of old genotypes of the *Triticum* genus will be identified, which, grown in mixtures - i.e. evolving populations - are able to give adequate yields and good predisposition to processing. The project will carry out a chemical characterisation of the agricultural products and a nutritional and organoleptic evaluation of bread produced from these evolving populations. Glycaemic responses and post-prandial plasma insulin levels will be measured in healthy subjects. An economic and market analysis will enable the full exploitation of the newly adopted production course.

Lead partner: Open Fields (SME)

Other partners:

Training

- Molino Grassi (Industrial mill); Agriform (Training agency).

Research

- Department of Food and Drug, University of Parma (University)
- Azienda Agraria Sperimentale STUARD (Experimental farm)

Farmers

- Luca Marcora/Azieda Agricola Angus
- Luca Valentini/Azienda Agricola Bismantova
- Gianmaria Cunial/Azienda Agricola Elena di Cunial
- Claudio Grossi/Azienda Agricola Grossi Claudio
- Massimiliano Casali/Soc. Agricola Le Piagne

Project contact: **Silvia Folloni** | Strada Consortile 2, 43044 Collecchio (PR), Italy
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PRATI_CO Parmigiano Reggiano: Agronomical techniques organic carbon footprint

PRATI_CO Parmigiano Reggiano: Agrotecnica impronta carbonio organico

ITALY - EMILIA-ROMAGNA

Starting date - expected end date | **01.04.2016 - 31.03.2019**

Website

Operational Group

The project aims to demonstrate the crucial role that permanent meadows play in the environmental sustainability of the production of Parmigiano-Reggiano. These meadows have not been plowed from many years (80, 100 years) and specific soil sampling is planned to demonstrate their role in carbon sequestration. Other objectives are to quantify the carbon footprint throughout the production of Parmigiano Reggiano process and to define the "guidelines aimed at better management of land to maintenance of organic matter and carbon sequestration"

Lead partner: I.TER SOC. COOP.

Other partners

Research

- Centro Ricerche Produzioni Animali C.R.P.A.

Farmers

- Gualerzi Diana/Antica Fattoria Caseificio Scalabrini di Ugo e Bruno S.S. Società Agricola
- Chierici Silvano/Chierici Silvano e Francesco
- Burini Carlo/Az. Agr. Carcarena di Burini Carlo
- Pelosi Pier Antonio/Pelosi Pier Antonio
- Arduini Enrico/Società Agricola la Valle di Arduini Enrico, Massimo e Marcello S.S.
- Beltrami Umberto/Bibbiano la Culla

Project contact: **Carla Paola Scotti** | Via Zacconi 12 Bologna, Italia
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Production of organic pasta enriched with Spirulina algae made in Marche produced through the valorisation of olive oil mill wastewater

Produzione di pasta biologica arricchita con Spirulina made in Marche prodotta attraverso un ciclo di valorizzazione delle acque di vegetazione di frantoi oleari

ITALY

Starting date - expected end date | **01.04.2017 - 30.10.2017**

Operational Group

Objectives: olive mill wastewater (OMW) results from the production of olive oil in olive mills and in Italy it is produced by a large number of small organic producers. The management of OMW is a critical problem, especially in southern Italy, where it is generated in huge quantities and in a short period of time. Many organic farmers are currently spreading OMW directly on agricultural soil as an organic fertiliser. However, the OMW is characterised by high concentrations of phenol, lipid and organic acid, which make it phytotoxic for the plants and can inhibit bacterial activity in the soil. The Operational Group will study a solution to convert OMW into a raw material for the production of enriched Organic Spirulina, which will be then used as functional ingredient to increase the nutritional value of organic pasta.

Main outcomes: the main outcome of the current project will be the answer to the following question: are the application of green technologies for the OMW treatment and the production of organic Spirulina aiming to create new organic, effective and feasible food both from an economic and environmental point of view. To answer this question the project will carry out a technical and economic feasibility study.

Innovation scale and stage: OMW treatments to produce Spirulina algae is an eco-innovative approach for a circular economy in Europe. The project may have a strong impact, especially in the Mediterranean area such as Italy, Spain and Greece, where a huge quantity of OMW is produced annually by a large number of small organic farmers and producers.

Lead partner: La Terra e il Cielo Soc. Agr. Coop

Organic farming cooperative established in 1980. The cooperative is involved with the production, processing, packaging and sales of organic pasta.

Other partners:

Research

- **Università Politecnica delle Marche- Dipartimento di Scienze Agrarie, Alimentari ed Ambientali (D3A)** has long-standing experience of economic and market research in the agro-food sector and in environmental economics.

Farmers

- **Fattoria Petrini** is a family farm producing prize-winning organic extra-virgin olive oils, and is today confirmed as leader in the field of Marche olive growers.

SME

- **GreenTech srl** is a research company operating in the sustainable energy sector. It develops, produces and sells sustainable conversion systems.

Project contact: **Francesco Solfanelli** | via Brecce Bianche – 60131, Ancona (IT)
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PRO-VITERRE: Guidelines for better agricultural practices for soil conservation in the main hilly vine areas, in Emilia-Romagna

PRO-VITERRE: LINEE GUIDA DELLE BUONE PRATICHE AGRONOMICHE PER LA CONSERVAZIONE DEI SUOLI DEI PRINCIPALI AMBIENTI VITIVINICOLI DELLA COLLINA EMILIANO-ROMAGNOLA

ITALY-EMILIA-ROMAGNA

Starting date - expected end date | **01.04.2016 - 31.03.2019**

Website

Operational Group

The partners' objective is elaboration of guidelines on good soil management techniques in order to match the environmental benefits, such as maintaining soil organic matter and promote soil preservation from erosion, associated to the improvement on the level of production, both in qualitative and quantitative terms.

Practical problem: The grass in the inter row is optimal in wet seasons for soil preservation from erosion. In summer, it can affect crops' water stress, resulting in lower production. It is fundamental to analyse how, when and in which soils there's the need to adopt this technique.

Expected results: set up monitoring for objective data to understand the effect of vineyard soil management techniques on organic matter content, soil conservation from erosion and on the production in terms of quality and quantity. Involve winemakers and consultants in sharing data and guidelines.

The main beneficiaries will be vine growers farming hilly areas in Emilia-Romagna Region.

Lead partner: I.TER SOC: COOP.

Other partners:

Research

- Università Cattolica del Sacro Cuore di Piacenza

Farmers

- Azzali Chiara/Tenuta Pernice Società Agricola
- Pizzamiglio Stefano/Azienda Agricola La Tosa di Pizzamiglio Ferruccio e Stefano Società Semplice
- Burgazzi Andreana/Azienda Agricola Baraccone di Burgazzi Andreana
- Campanacci Marco/San Mamante Società Agricola
- Sguazzi Giorgia/I Perinelli Società Cooperativa Agricola Sociale
- Alberico Barattieri di San Pietro/Eredi Azienda Agricola Conte Otto Barattieri di San Pietro S.S. Società Agricola
- Anselmi Adele/Azienda Agricola Il Ghizzo di Anselmi Adele
- Rossi Irene/Res Uvae Società Agricola a Responsabilità Limitata
- Altini Mauro/La Sabbiona Società Agricola
- Piacentini Emanuel/Piacentini Emanuel

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Organic Rabbit Production

Produção de Coelhos Biológicos

PORTUGAL

Starting date - expected end date | **01.12.2016 - 30.11.2021**

Operational Group

There is no organic rabbit production in Portugal, since there is no regulation for this product. This project aims to develop trials for organic rabbit production and to develop a regulation for this product, in cooperation with the Portuguese Ministry of Agriculture.

Lead partner: AGROBIO – Associação Portuguesa de Agricultura Biológica (non-profit private association)

Other partners

Research

- Instituto Politécnico de Coimbra (University)

Farmers

- Quinta do Montalto, Lda (Agricultural Society)
- Luís Manuel Gonçalves de Sousa
- António de Sampaio Paiva Marques da Cruz, Unipessoal, Lda.

NGOs

- Bioprotec – Associação Nacional dos Engenheiros de Agricultura Biológica (Non-profit private Association)

SME

- Quinta do Montalto II Agroindústria, Lda (SME)
- Brio – Produtos de Agricultura Biológica, S.A. (Company)

Project contact: **Jaime Ferreira** | Alameda das Linhas de Torres, 277, P-1750-145 Lisboa
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CLOSING CYCLES

CERRANDO CICLOS

SPAIN - EXTREMADURA

Starting date - expected end date | **01.11.2016 – 30.09.2020**

https://cerrandociclosblog.wordpress.com/

Operational Group

"CLOSING CYCLES" aims to improve the productive processes of companies in the food craft sector of Extremadura, creating relationships between farmers, livestock, food processing industries and industries from other sectors. Research is applied by the technological centres of the region with which the project collaborates, investigating the bioeconomy model for the optimisation of by-products. The project aims to open collaborations and close cycles.

PRINCIPLES OF CLOSING CYCLES:

In addition, the project is innovative because it is working respecting the principles of the charter of the solidarity economy of the Network of Networks of Alternative and Solidarity Economy, (www.economiasolidaria.org). The project proposes the creation of collaborative networks to develop cities efforts in a transition to what the project calls an ECONOMY IN ESSENCE.

Lead partner: RED CALEA, (Cooperative)

Other partners

Clusters

Cluster of Extremadura food crafts, slow food Extremadura

Research

- Escuela de hosteleria y agroturismo de Extremadura (national reference centre)

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Galician milk farm in harmony with nature and Agricultural Biodiversity

Granxas de leite galegas en harmonia coa natureza e biodiversidade agraria

SPAIN - GALICIA

Starting date - expected end date | **01.07.2016 - 31.10.2017**

Operational Group

It aims to serve as an example of good agricultural practices for Galician milk farms and aims, among other things, to improve the management of livestock waste through a system of waste filtration ponds.

The aim is to improve the management of effluents produced in the production of organic yogurts by recycling the water to clean the waiting room for milking. Biological purification of non-recycled effluents is also analysed by creating moist areas adapted to the landscape that serve as a refuge for fauna. Finally, native shrub and forest species are planted to create green filters that protect the quality of the water, avoiding runoff.

This project contributes to work package number 4 (WP4) of the EURODAIRY project (H2020-696364).

The intention of this project is to disseminate the waste filtration system as a biological process, and to promote its use among the Galician milk production farms and other interested beneficiaries and users, within the participating countries as well as in other Member States of the EU.

Lead partner: AGACA - Association of Galician Agri-food Cooperatives.

Other partners

Research

- CIAM (Centro de Investigaciones Agrarias de Mabegondo)

Farmers

- Casa Grande de Xanceda (15685-Mesia, Galicia-Spain) Organic milk farm.

Project contact: **María Rey Campos** | r/Poeta Noriega Varela, 30 - 27004-Lugo (Spain)
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INVITEC, Development of Organic Viti-Viniculture in the Region of Jerez

INVITEC, Desarrollo de la Vitivinicultura Ecológica en el Marco de Jerez

SPAIN - ANDALUCIA

Starting date - expected end date | **TBD**

Operational Group

The general objective of the project is to develop the organic viti-viniculture in the region of Jerez. To this end, it is intended to reveal and implement among vine growers new techniques of vineyard management that have an effect on the improvement of soil quality, in the reduction of the risks of erosion and transfer of agrochemicals in the water and the capture of atmospheric CO_2. Moreover, will also show the subsequent organic storage in the soil and the limitation of excessive use of agricultural inputs, in addition to increasing the biodiversity and proliferation of natural enemies that facilitate the management and control of pests and diseases. It will also promote the use of local vine varieties and the recovery of ancient oenological practices that can give a personality to the wines that are elaborated in this area, contributing to the diversification of oenological products and the creation and development of new SMEs and job creation.

Lead partner: Diputación de Córdoba – public institution

Other partners:

Public Institutions

- Diputación Provincial De Cádiz
- Consejo Regulador Del Marco De Jerez

SME

- Explotaciones Agricolas Sanluqueñas S.A (Expasan)
- Bodegas William & Humbert
- Delgado Zuleta S.A

NGOs

- Asociación Valor Ecológico, Caae (Ecovalia)

Project contact: **Ana Belén Carrera Armario** | anabelen.carrera.armario@dipucadiz.es

Technological Platform for Organic Agriculture in Extremadura (GOPTAEEx)

Plataforma Tecnológica de la Agricultura Ecológica en Extremadura

SPAIN - EXTREMADURA

Starting date | **November/December 2017**

Operational Group

The main objective of this project is to put together the organic agriculture value chain in the region of Extremadura in a Regional Technology Platform which fosters the collaboration between all stakeholders related to the science-technology-enterprise system in the organic sector with the aim of contributing to the improvement of the sustainability and productive efficiency and the positioning of the scientific-technician policies towards agroecology.

The platform will identify the main R&D priorities in the sector and the main supports and resources to its implementation in the sector, promoting the technology transfer and innovation from the scientific area to private sector. The project's strategy to tackle these objectives is the following:

- To generate and transfer knowledge oriented to organic sector
  - To tackle the organic sector challenges
  - To contribute the competitiveness improvement of the organic sector through innovation
  - To support the public administration, institutions and other associations related to the sector
- To facilitate the coordination in topics related to organic research in Extremadura
- To become a regional reference organism in the organic sector for supporting its growth through research and innovation

Lead partner: Fundación Ecoánime (Non Profit Organisation)

Other partners:

Research

- FUNDECYT – PCTEx (Foundation)

Farmers

- HaciendasBio S.L.
- Ganadec (Organic Livestock Association)

SME

- Food cluster handcraft (with around 50 SMEs)
- Hermanos Nieto Flores S.L.

Associated partners

- Mountain and Organic Agriculture Research Center (CAEM)

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AgriSpin

Space for innovation progress

EUROPE

Starting date - expected end date | **01.03.2015 – 01.09.2017**

http://agrispin.eu/

Horizon 2020 project

Far from all innovation processes succeed. In fact, many go awry even before they begin. So what makes an innovation process move forward? And what stops it? The EU-project "AgriSpin – Space for innovations in Agriculture" seeks to find the answers to those questions and many more by identifying best practices for innovation and support systems in European agriculture.

The AgriSpin project will examine the practice of innovation today by answering questions such as: How does the European farmer seek information and support? What competencies does he expect of his adviser? What kind of support system is in place today? By doing so, AgriSpin intends to uncover best cases for innovation and identify the type of innovation support system that makes for the most optimal innovation process.

To ensure that the knowledge accumulated in the project is disseminated to as many stakeholders as possible, AgriSpin will work towards creating a powerful European network among advisers, researchers, organisational experts and innovation companies.

Lead partner: SEGES

Other partners:

Research

1. University of Hohenheim
2. Cirad (F) Agricultural University of Athens

Farmers

3. Dutch Southern Farmers Organisation
4. Union of Chambers of Agriculture
5. Innovatiesteunpunt
6. Latvian Rural Advisory and Training Centre
7. ACTA
8. Tuscany Region
9. ProAgria
10. IFOAM EU
11. Teagasc
12. Adept
13. Fundacion Hazi Funazioa

Project contact: **Innovatiesteunpunt** | Innovatiesteunpunt Diestsevest 40 3000 Leuven België
T: +32 16286103 | info@innovatiesteunpunt.be

AGROFORESTRY INNOVATION NETWORKS (AFINET)

SPAIN, UNITED KINGDOM, BELGIUM, PORTUGAL, POLAND, HUNGARY, ITALY, FRANCE, FINLAND

Starting date - expected end date | 01.01.2017 - 31.12.2019

www.agroforestry.eu/afinet

Horizon 2020 Thematic network

The overall objective of AFINET is the promotion and innovation of European Agroforestry (AF) by improving knowledge exchange between researchers and practitioners. This exchange will be carried out through Regional Agroforestry Innovation Networks (RAINs), working groups created at regional level, focused on agroforestry activities selected based on interests, climatic conditions and the real context in each region. For 3 years, 13 partners from 9 countries will manage those RAINs that will be coordinate in each region by the figure of the Innovation Broker, who will articulate a European Interregional Network (composed of RAINs).

The innovative methodology proposed by AFINET includes also the creation of a EU reservoir of scientific and practical knowledge of AF. Besides, AFINET will be linked to other networks, initiatives and policy instruments with a specific focus on the EIP-AGRI implementation.

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 727872.

Lead partner: University of Santiago de Compostela | Spain.

Other partners

Organic Research Centre | UK
Institute for Agricultural and Fischeries Research | Belgium
Instituto Superior de Agronomía | Portugal
Institute of Soil Science an Plant Cultivation | Poland
INAGRO | Belgium
University of West Hungary Cooperational Research Centre Nonprofit | Hungary
ABACUS Agriculture | UK
Istituto di Biologia Agro-ambientale e Forestale - Consiglio Nazionale delle Ricerche | Italy
European Agroforestry Federation | France
Association Française d' Agroforestrie | France
Fundación Empresa-Universidad Gallega | Spain
European Forest Institute | Finland

Project contact: **Rosa Mª Mosquera Losada** | Escuela Politécnica Superior (USC). Rúa Benigno Ledo Campus Universitario27002 Lugo (España)
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OK-Net Arable

Exchange knowledge, enhance organic farming

EU-WIDE PROJECT

Starting date - expected end date | 01.03.2015 - 28.02.2018

http://farmknowledge.org/

Horizon 2020 Thematic Network

The complexity of organic farming requires farmers to have a very high level of knowledge and skills. But exchange on organic farming techniques remains limited. OK-Net Arable promotes exchange of knowledge among farmers, farm advisers and scientists with the aim to increase productivity and quality in organic arable cropping all over Europe.

Farmer innovation groups share common challenges

OK-Net Arable works with 14 farmer innovation groups, located in 10 countries. OK-Net Arable brought together the common challenges identified by the groups. Data from the farmer innovation groups show a wide range of crop yields. This indicates there is need, but also a clear possibility to improve farm yields.

Knowledge platform for farmers to find organic solutions and exchange knowledge

OK-Net Arable has launched a knowledge platform (farmknowledge.org). Farmers and farm associations can use the platform to find practical organic solutions, and at the same time discuss how it works on the field, in their geographic and climatic conditions.

Lead partner: IFOAM EU (NGO - European umbrella organisation for organic food and farming)

Other partners:

Research

- FiBL (CH, DE, AT), Organic Research Centre (UK), ICROFS (DK), CIHEAM-IAMB (IT), ÖMKI (HU), Institut Technique de l'Agriculture Biologique (FR)

Farm Associations

- Bioland Beratung (DE), Associazione Italiana, per l'Agricoltura Biologica (IT), European Forum for Agricultural and Rural Advisory Services, Con Marche Bio (IT), Eesti Mahepõllumajanduse Sihtasutus (EE), BioForum Vlaanderen (BE), Bioselena (BG), Agriculture & Food Council (DK)

Project contact: **Bram Moeskops** | IFOAM EU, Rue du Commerce 124,1000 Brussels, Belgium
M: + 32 487 90 59 35 | Bram.Moeskops@ifoam-eu.org

WINETWORK Network for the exchange and transfer of innovative knowledge between European wine-growing regions to increase the productivity and sustainability of the sector

FRANCE, GERMANY, CROATIA, HUNGARY, ITALY, PORTUGAL and SPAIN

Starting date - expected end date | 01.04.2015 - 31.09.2017

http://www.winetwork.eu/

Horizon 2020 Thematic network

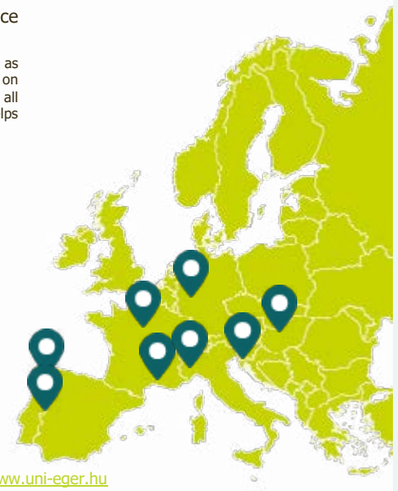
WINETWORK is a European collaborative project for the exchange and transfer of innovative knowledge between European wine-growing regions to increase the productivity and sustainability of the sector. For 3 years, 11 partners of 7 European countries are exchanging on their knowledge on two important diseases in vineyard: grapevine trunk diseases and Flavesence dorée. These diseases are well-known in many vineyards and have been extending for several years in different European countries, so it has a big economic importance in the European wine industry. As many winegrowers are testing innovative and sustainable approaches to fight against these diseases, it is very beneficial to capture these ideas and to share them between European countries.

The project approach is based on interactions between a network of facilitator agents, regional technical working groups and two scientific working groups. This participatory approach is allowing to transfer results from science and practical knowledge to materials adapted to end-users. This network is promoting interactions between scientists and practitioners to gather and share experiences and knowledge of different actors from the main wine producing European regions. The project is also identifying the most important topics to be addressed after the end of the project, offering important replication opportunities and sustainability of the created network.

WINETWORK project is directly and regularly involving around 180 people to collect, identify and synthesize best practices and research results from all Europe in order to present and share it to the whole community.

Lead partner: INSTITUT FRANÇAIS DE LA VIGNE ET DU VIN_France
www.vignevin.com

IFV is a French institute that conduct studies of general interest on vine and wine on topics such as plant material, vine growing, vineyard management and winemaking. IFV is conducting research on several experimentation sites spread all over the French wine areas. Assistant to the Innovation on all the key sectors of the wine-production (development and validation of innovative products) IFV helps the SMEs to elaborate technical references necessary for their progress and competitiveness.



Other partners

- FUNDACIÓN EMPRESA-UNIVERSIDAD GALLEGA (FEUGA)_ Spain | www.feuga.es
- INSTITUTO GALEGO DA CALIDADE ALIMENTARIA_Spain | www.xunta.es
- UNIVERSITE DE REIMS CHAMPAGNE-ARDENNE_France | www.univ-reims.fr/
- EUROQUALITY_France | www.euroquality.fr
- DIENSTLEISTUNGSZENTREN LÄNDLICHER RAUM_Germany | www.dlr.rlp.de
- INSTITUT OF AGRICULTURE AND TOURISM POREC_Croatia | www.iptpo.hr
- ESZTERHÁZY KÁROLY UNIVERSITY OF APPLIED SCIENCES_Hungary | www.uni-eger.hu
- VINIDEA_Italy | www.vinidea.it
- SOCIETA ITALIANA DE VITICOLTURA ED ENOLOGICA_Italy | www.siveonline.it
- ASSOCIAÇÃO PARA O DESENVOLVIMENTO DA VITICULTURA DURIENSE_Portugal | www.advid.pt

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EU CLIMATE CAFE

FRANCE; GERMANY; NETHERALND; DENMARK; SCOTALND; SCHWEDEN; SPAIN; SWITZERLAND

Starting date - expected end date | 01.02.2015 - 31.01.2018

FACCE-JPI

EU Climate-CAFE focuses on increasing the "adaptive value" to climate variability and resilience to climate change (CC) of EU arable and forage crops. It will propose and evaluate adapted high-performance strategies for EU areas with different climatic threats to re-design farming systems for adaptation to CC.

The expected results of the Climate-CAFE project are: i) an overview of potential CC adaptation measures in accordance with farm constraints, ii) simulation of adaptation measures and their ranking in terms of efficiency and costs, iii) simulation of the impact of IPCC scenarios 2050 and 2100 in interaction with adaptation measures on European agriculture production, considering a wide range of EU countries representing a North-South climate gradient in Europe.

Lead partner: INRA - Institut national de la recherche agronomique (Paris)

Other partners

Research

- Leibniz Centre for Agricultural Landscape Research (ZALF)

BLW - Schweiz. Bundesamt für Landwirtschaft, Schweiz; CSIC - Spanish National Research Council; DTU - Technical University of Denmark; ETHZ - Eidgenössische Technische Hochschule Zürich; Louis Bolk Institute; NMI - Nutrient Management Institute; SLU - Swedish University of Agricultural Sciences; SRUC - Scotland's Rural College;University of Helsinki;WUR - Wageningen University

Farmers (Germany)

- Georg Ludwig /Fehrower Agrarbetrieb GmbH
- Kai Lindner/organisation Müncheberger Agrar GbR

Project contact: **Eric Justes**
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Organic Eprints

DENMARK – EUROPE – THE WORLD

Starting date | 2002

http://orgprints.org/

Innovative project

Organic Eprints is an international open access archive of electronic documents related to research in organic food and farming. The archive contains full-text papers together with bibliographic information, abstracts and other metadata. It also offers information on organisations, projects and facilities in the context of organic farming research.

Objectives:

- to facilitate the communication about organic research,
- to improve the dissemination and impact of research findings, and;
- to document the research effort.

In accordance with these objectives the archive is designed to facilitate international use and cooperation.

Lead partner:

International Centre for Research in Organic Food Systems (ICROFS)

Other partners

Research Institute of Organic Agriculture (FiBL)

Federal Organic Farming Scheme (BÖLN)

Research

- CORE Organic (http://www.coreorganic.org/) ERA-Net

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PAThOGEN Training programme to improve grapevine virus knowledge and management

FRANCE, ITALY and SPAIN

Starting date - expected end date | 01.09.2015 - 31.08.2018

http://www.pathogen-project.eu

Innovative project (Erasmus+)

PAThOGEN aims to implement a platform for training in specific subject knowledge and management of viral diseases in grapevines. This requires a versatile and dynamic training methodology adapted to the subject, which will involve e-learning sessions and field training.

The new training content on grapevine viruses will be adapted to the specific requirements of participating countries (France, Italy and Spain) and the special characteristics of their viticulture systems. The training content will be available through an e-learning platform in English, French, Italian and Spanish. Among its other features, the e-learning platform will also integrate assessment tools that allow us to track the progress of participants and a gallery of images and pictures to illustrate the symptoms of different vineyard viruses.

The PAThOGEN project places particular importance on ongoing evaluation during the different project modules, both in the implementation phase of the methodology and in the content of training courses. With this goal in mind, an independent evaluation committee (Advisory Board) has been created, whose role will be to advise and validate various issues concerning the development of the tool alongside an external evaluation process which will evaluate the final version of the PAThOGEN training courses.

Finally, the intention is to capitalise on and disseminate the training tool and specific content developed, and to promote its use among potential end users interested in the training both within the participating countries and in other EU Member States.

Lead partner: IFV_Institut Français de la Vigne et du Vin_France

Is the French institute of R&D for vines and wine. IFV is an innovation centre, involved in technology transfer and knowledge transmission to the French vine and wine sectors.

Other partners

Foundation

- **FEUGA**_Fundación Empresa-Universidad Gallega_Spain

It is a non-profit and private law association, specialising in the transfer of knowledge, innovation and technology from the Galician University System to the business world and society in general. Its mission is to bring competition, skill, experience, talent and scientific and technical knowledge generated by university groups to market research, promoting entrepreneurship in college and dynamism in the productive sector.

Research

- **USC**_Universidad de Santiago de Compostela_Spain

The Escuela Politécnica Superior offers, among many others, both a Bachelor's and a Master's in Agriculture Engineering. "Viticulture and Oenology" is one of the specialties offered and several research groups focus on the world of wine as their main area of research on this campus.

- **CREA-Vit**_Centro per la ricerca in viticultura_Italy

It is one of the four Italian CREA centres specialising in viticulture and oenology. It is carrying out research on all issues concerning grapevines: ampelography, genetic improvement, breeding, biology, physiology, protection, propagation, ecology, agronomic techniques and recently metabolomics and transcriptomics.

SME

- **HORTA**_Spin off from Università Cattolica del Sacro Cuore_Italy

SME specialising in ICT development whose mission is to transfer technological innovation to practical agriculture.

Project contact: **Institut Français de la Vigne et du Vin** | Domaine de L'Espiguette 30240 Le Grau du Roi (FR)

pathogen-project@vignevin.com

Foodhub- SFSCs Service Center - innovative sales channel for organic and local farm products

Termelők versenybehozása innovatív REL szolgáltató központon keresztül

HUNGARY - EMEA

Starting date - expected end date | **01.10.2017 - 01.10.2019**

www.foodhub.hu

Innovative project

The Foodhub.hu agricultural centre helps organic producers enter the market through short food supply chains (SFSCs). It actively manages the aggregation, processing, packaging and sales of organic products from local farmers. Innovative ICT and logistics are used to distribute the products for urban farmer markets, online and bricks and mortar retailers and for restaurants.

Lead partner: Foodhub.hu Nonprofit Ltd.

Other partners

Research

- Discovery R&D Center
- ÖMKI -Research Institute of Organic Agriculture

Farmers

- Agoston Nobilis, Boldizsar Horvath/ Csoroszlya Farm
- Szilvia Hanson/ Mangalitza (Pig) Farmer
- Ildiko Markó/ Heppenheimer Eggs

SME

- P3D Project Kft.

Project contact: **Balazs Debreczeny** | H-1126 Budapest
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GREEN BROWN COWS

VACAS MORENAS Y VERDES

SPAIN - GALICIA

Starting date - expected end date | **January 2010- December 2020**

Innovative project

The main aims, from the last ten years, are "bringing together the recovery of endangered Galician native cattle breeds and the organic farming methodology", choosing these endangered species (Cachena, Vianesa, Frieresa, Caldelana and Limiana) which can be traced back in time until the age of the Bos primigenius Taurus. Their contribution to the creation of landscapes, to the preservation of climatic conditions, to land fertility to human sustenance and to the cultural background of local people were and still are decisive.

The organic native cattle farming method is based on an extensive and sustainable use of the land where the herd lives, respecting natural bushes, wooded areas an natural meadows…The herd happily co-exists with the local wild species and fauna and flora. This allows species such as partridges, rabbits, deer or wolves to preserve their habitats and keep their food sources, consequently ensuring their survival.

In this regard, the spirit of the project has taken on the challenge of providing an answer from the primary sector to the current environmental problems, thus contributing to the improvement of greenhouse gases, particularly in monocrops, and intensive farming.

The key lies in organic farming and the role it plays is essential.

Lead partner: VERINBIOCOOP S.C.G

Other partners:

Research

- Vigo University
- AGACA- Galician Cooperative Asociaton

Farmers

- A group of 30 farmers

Project contact: **Jose Luis Vaz Fernandez** | Centro de Desenvolvemento Cooperativo-Poligono Industrial de Pazos
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Horticulture with low carbon footprint

Horticultura con baja huella de carbono

SPAIN - GALICIA

Starting date - expected end date | **01.06.2016 - 30.06.2017**

Innovative project

In Galicia there is a problem of supply of vegetables in the main Galician cities. Vegetables come from other areas of Spain or Europe. This project is on which vegetables to grow, which are the best production methods adapted to the Galician conditions and to to measure the carbon footprint from the farmer to the supermarket.

Lead partner: C.R.A.E.GA. (Public certification enterprise in Galicia)

Other partners

Research

CETECA, (Institute meat technology), Ourense, Spain

Farmers

Conservas do Tamega S.L. Ourense, Spain

Ganadería Casa Anxel, S.C.. Lugo, Spain

Project contact: **Javier García Lozano**
T: + 34 687 468562 | javier@craega.es

Project to create a stable network of ecological local markets

Creación de una red estable de mercados locales ecológicos

SPAIN – CASTILE AND LEON

Starting date - expected end date | **2017 - 2023**

www.jcyl.es/agriculturaecologica

Innovative project

Organic production is closely linked to consumption since it would not be viable without the other. Therefore, the objective is to increase knowledge and consumption and, therefore, organic production, by creating a stable network of local organic markets where producers can sell food directly to citizens, favouring the relationship and knowledge between and, above all, facilitating the diffusion of the characteristics of organic food, also valuing closeness, local consumption and circular and sustainable economy.

It is carried out through annual calls to facilitate the implementation of this network of markets in a region, such as Castile and Leon, where the consumption of organic food is still scarce.

In addition, promotional activities will be carried out so that citizens, consumers, can distinguish and value organic food.

This project is especially important in this Region, since being a very extensive territory and where agriculture and livestock have a significant weight in the economy, organic farming has little development, as well as the consumption of these foods.

Lead partner:

Consejería of Agriculture and Livestock. Junta of Castile and Leon

Other partners:

Advisory

- Town Councils

Project contact: **Nuria de la Lama** | C/Rigoberto Cortejoso, 14, 47014 Valladolid, Spain
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Agroecological cover

Colture di copertura per l'incremento della sostanza organica del suolo e il contenimento delle malerbe

ITALY – EMILIA-ROMAGNA

Starting date - expected end date | 01.08.2016 - 30.07.2019

http://cover.crpa.it

Operational Group

The main goal is to develop innovative conservation tillage systems, based on the use of cover crops. It aims to take advantage of the principles of agroecology to get a wide range of agronomic and environmental benefits.

Specific objectives are:

1) Reverse both the soil organic matter reduction trend and the increase in weeds;

2) Define the most suitable cover crops for use in the soil and climate conditions of the Emilia-Romagna region, and the best agronomic management methods for these;

3) Evaluate the agronomic effects, environmental and economic sustainability of the innovative farming practices, with the aim to promote a conscious transfer to farms.

Lead partner: Fondazione CRPA Studi Ricerche, Italy (Research Organisation)

Other partners

Research

- Centro Ricerche Produzioni Animali – CRPA SpA
- Università Cattolica del Sacro Cuore (DI.PRO.VE.S.)
- Università degli Studi di Parma (Dipartimento SEA)

Farmers

- Società Agricola Ciato

SME

- Caussade Semences Italia srl
- Emme Emme srl

Project contact: **Paolo Mantovi** | Viale Timavo 43/2- 42121 Reggio Emilia, Italy
T: +39 0522 436999 | p.mantovi@fondazionecrpa.it
Farm contact: **Mario Schianchi** | Società Agricola Ciato

FOPE 2015: TRANSITION TO ORGANIC FARMING

FOPE 2015 – Transición hacia la Agricultura Ecológica

SPAIN – BASQUE COUNTRY

Starting date - end date | 01.12.2017 – 31.12.2017

www.fope.eus

Operational Group

ENEEK, The Council of Organic Farming of the Basque Country, realised that the applications in the registry do not materialise due to lack of knowledge and technical advice. In order to solve this problem, the project aims to write a manual that helps farmers in the transition to organic farming, taking into account economic, technical and regulatory aspects. In addition, a permanent advisory network specialised in organic farming will be created. This network will update the manual, and support and assist farmers in their transition to organic farming.

Lead partner: **NEIKER S.A (Research Organisation)**

Other partners

Farmers / advisers

- Farmer cooperatives that provide technical and economic services to their members
  - ABERE COOP.S
  - AGA COOP.S
  - LORRA COOP.S
  - LURGINTZA COOP.S
  - ABELUR COOP.S
- ENEEK – Organic agriculture and food council of the Basque Country

Project contact: **Amaia Ortiz** | T: +34 675 700 097 | aortizb@neiker.eus
Seminar contact: **Iker Bilbao** | T: +34 651 705 270 | ibilbao@neiker.eus

INNOVATIVE SUPPLY CHAINS

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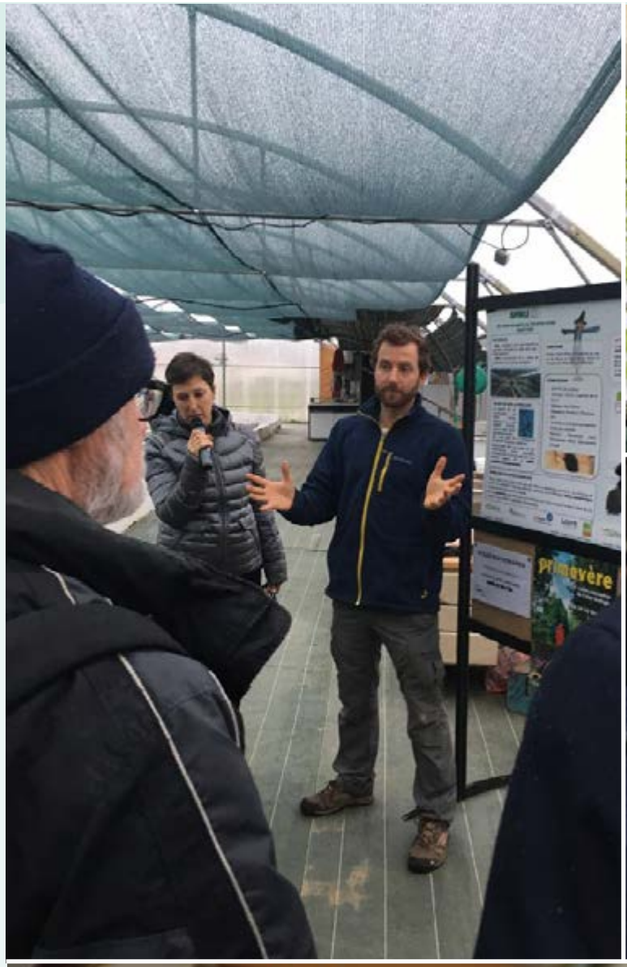
Innovation in the supply chain:
creating value together

6-7 February 2018 - Lyon, France

https://ec.europa.eu/eip/agriculture/event/eip-agri-workshop-innovation-supply-chain-creating



Aronia and other organic super berries in Centre-Val de Loire

Aronia et autres superfruits bio en region Centre-Val de Loire

FRANCE – CENTRE-VAL DE LOIRE

Starting date - expected end date | 05.2017 – 12.2020

Operational Group/ Innovative project

This project aims to develop and organize a new berry sector in the Centre-Val de Loire region. "Super berries", like chokeberry, honeysuckle, sea-buckthorn,… are well installed in other countries (Canada, Russia, Poland) but not in France. This type of berry could be an interesting solution to diversify the crops of nurseries. Moreover, this product seems to respond to the market demand, with an important health attribute (high content of vitamins and antioxidants), and a possibility to grow it under the organic label. Therefore, this project aims to create a complete chain, from the grower who will produce the organic berries to the processors, who will transform it into different products. The first step is the planting of the reference berry: chokeberry (Aronia), for the fruit production and also to experiment the organic crops, the yield, the harvest mechanization,… At the same time, food processors will work on the recipes. To be efficient all along the chain, the group also wants to work on the "co-products" valorisation, and recycle the berry residues after the pressing, in cosmetic or pharmaceutic sectors for example.

Lead partner: CDHR Centre-Val de Loire, growers association, ornamental crops sector, Centre-Val de Loire, ST CYR EN VAL, France

Other partners

Farmers
- Three nurseries in the region, berries crops

SME
- Four agri-food processors (juice, pastry, child feeding, fruit compote)

Organizations
- Chambre d'Agriculture du Loiret, agricultural sector, ORLEANS
- Bio Centre, organic crops sector, ORLEANS

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INNOVEG: Development of innovative technologies in agricultural sector

Mise au point et adaptation d'itinéraires techniques INNOvants en filières VEGétales (INNOVEG)

MAYOTTE / FRANCE

Starting date - expected end date | 01.01.2015 – 31.12.2017

coatis.rita-dom.fr

Operational Group

Designing agro-ecological technics for controlling diseases and pests (vegetables & fruits).
Supporting the implementation of improved crop management (flower induction of pineapple, certified citrus plants, banana).
Finding of new business opportunities through the development of new processing processes (local recipe of cassava).
Building technical and economic references in plant sectors for decision makers.
Dissemination of innovative technologies.

Lead partner: Cirad (Centre de coopération internationale en recherche agronomique pour le développement)

Other partners

Farmers organisations
- COOPAC (Coopérative des agriculteurs du Centre), Mayotte
- ASSM (Association Saveurs et Senteurs de Mayotte)
- COOPANAM (Coopérative des producteurs d'ananas de Mayotte)
- AMMEFLHORC (Association mahoraise pour la modernisation de l'économie fruitière légumière horticole), Mayotte

Extension services - Education
- CAPAM (Chambre de l'agriculture, de la pêche et de l'aquaculture de Mayotte)
- EPN Coconi, Mayotte (Lycée agricole)

Project contact: **Dr Joël Huat** | Cirad, BP1304, 97600 Mamoudzou | T: +262 639 69 17 85 | joel.huat@cirad.fr
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Dairy industry development trough Innovation dynamic for exportation

Développer une filière laitière par une dynamique d'innovation à l'export

FRANCE – NORMANDIE

Starting date - expected end date | 01.04.2016 - 31.12.2017

Operational Group

The aim of the MOM/Producer organization (PO) project is to create new ways and rules in the relationship between milk producers and dairy. The project deals with the creation of the needed mechanism to export new products to the USA. How can European company/ producers interact with potential buyers in the USA, offering the good products at the good time ?
Results :
New method to evaluate risks and gains for farmers to change there production system and to match with the logistical needs for exportation.
A new collective organization of producers to face atomization and loneliness of farmers and to dare start new projects. A new horizontal collaboration between dairy and farmers to create, co construct and take benefits from the unexpected.

Lead partner: Chambre d'agriculture de la Manche

Other partners

Farmers

- 65 farmers of the Producer organization (PO)
- 2 other PO on development and needs

Company

- Mont-Blanc Materne (MOM group)

Research/ advice

- Management strategic research and agroeconomics
- Milk quality advice

Project contact: **Loïc Adam** | 8 Rue de la Libération, 50480 Chef-du-Pont | adam.loïc@orange.fr

Workshop contact: **Ugo Denis** T: 00 33 6 72 44 66 28 | udenis@manche.chambagri.fr

Melting Popote : A shared food laboratory in the Cluny region

FRANCE – CLUNY REGION

Starting date - expected end date | X - X

Operational Group

A multi-actor territorial-based project, responding to the needs of the rural area where it is located. In the region, agricultural and food structures are small and disjoint and there is only few food processing plants or central kitchens.

The Cluny district manages the project. The project aims to turn a building into a shared food laboratory, and to delegate its management to an association created by the stakeholders.
The multi-actor project interest is to reach the financial balance thanks to an efficient plant management, taking into account the different needs of the users regarding their annual use of the place. The laboratory capacity is about 330 m2, and will process 400 to 700 kilos of products per day.

Lead partner: Melting Popote

Other partners

Meat and vegetable producers

About 15 meat producers (between 30 to 50 tons of meat to process per year), 6 fruit and vegetable producers (potentially up to10 tons) interested in slicing and transforming their fresh products in vacuum-packed or canned products.

Restaurateurs and caterers

cooking fresh cooked dishes and buffets, and one person willing to start a biological bakery.

Municipalities

or local communities willing to favour short supply chains for school meals.

Anti food waste actors and food aid actors

to produce fresh cooked dishes by transforming supermarket products approaching their expiration date in aseptic canned food.
For example, processing fruits and vegetable alone could potentially yield 30 to 60 kilos for the 3 supermarkets of Cluny.

Project contact: **Marie Fauvet** T:+33 683 76 77 32 | marie.fauvet71@orange.fr ou

OUI-GEF: Innovative Tools for collaborative forest management

Outils innovants pour une gestion concertée des forêts

FRANCE – AUVERGNE RHONE ALPES

Starting date - expected end date | 01-10-2015 – 31-12-2019

Operational Group

The OUI-GEF Operational Group aims at developing technical and organizational innovations that help building forest strategies that warranty a diversity of ecosystem services. Local development structures, forest managers and researchers of both forestry and social sciences work together in order to foster a common culture on forests and forestry and to develop tools and methods for a collaborative forest planning at the territory scale.
Thematic maps on ecosystem services (wood production, protection against natural hazards and biodiversity conservation) are being built. A set of indicators is developed to assess contradictorily the quality of multifunctional cuttings in their ground implementation. Local wood supply chains are analysed in depth in order to assess their sustainability. A base of metadata that integrates complementary data sources necessary for forest projects is under construction.

Lead partner: IRSTEA (National Research Center)

Other partners

Research

- Université Savoie Mont Blanc (University)
- CNRS (National Research Center)

Forest managers

- Office National des Forêts (Public forests national manager)
- CNPF & CRPF (in charge of private forest management)

Local development organisations

- Regional parks (Chartreuse, Massif des Bauges, Pilat)
- CNPF & CRPF (in charge of private forest management)

Project contact: **Marc Fuhr** | 2, rue de la Papeterie, BP 76
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+33 6 73 58 24 92 | marc.fuhr@irstea.fr

PAQT (Pour une Agriculture en Qualité Totale)

Comment créer de la valeur (économique, environnementale et sociale) en engageant un territoire agricole dans une démarche de "qualité totale" ?

FRANCE – OCCITANIE / TARN-ET-GARONNE

Starting date - expected end date | 31.07.2015 - 31.12.2020

Operational Group

The PAQT EIP project (For a global quality in agriculture) is located in the cooperative Qualisol territory,
which includes the Tarn-et-Garonne department and neighbouring areas. Its purpose
is to work towards a « global quality agriculture » meeting the economic, environmental and societal challenges.
Up until now, the project turned out to be a good project incubator for the cooperative.

- development leguminous sector (more than 4000 hectares leguminous cultivated).
- Co labelling Agri SOI of the project « Viti Optimum 2.0 »
- « Gesspeir project » to be presented shortly (with the theme of alternatives practices solutions and producers security)
- Construction phase of the « arbo project » (with the theme of development OAD disease)
- Field crops:Recycling organics wastes.

These on-going projects are up until a good start for the evolution and relevance of the project PAQT. These one will help us to mobilize and steer the employees and producers to reach the target for a change of practice. All types of farming anchored on the territory test will create economic and environmental values with innovation as driver.

Lead partner: Coopérative QUALISOL

Other partners

Research

- API (Association Patrimoniale Internationale)
- PFT (Plateforme Agroécologique d'Auzeville)

SME

- CISALI
- ARBORITECH

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RITA Mayotte: Sustainable development of ruminant and poultry sectors: DEFI-ANIMAL

Développement durable des filières de ruminants et de volailles à Mayotte

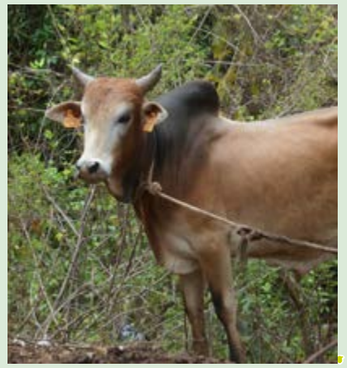
FRANCE - MAYOTTE

Starting date - expected end date | 01.01.2015 – 31.12.2017

coatis.rita-dom.fr

Operational Group

The project aims at intensifying in a long-lasting way the livestock production and at professionalizing breeders and extension services in a context of post-departmentalization in strong evolution (European regulation, environmental protection, consumer protection).
This includes i) characterization and preservation of ruminants' local races and their evaluation for the improvement of the levels of production of meat and milk, ii) protection of the animal productions against local and regional sanitary risks and iii) improvement of the breeding technics in bovine, ovine, caprine and poultry sectors by the transfer of results and methods developed by research.



Lead partner: Cirad (Centre de coopération internationale en recherche agronomique pour le développement)

Other partners

Research

- INRA (Institut National de Recherche Agronomique)

Farmers organisations

- CoopADEM (Coopérative agricole des éleveurs mahorais), Mayotte
- COMAVI (coopérative mahoraise d'aviculture), Mayotte

Extension services - Education

- CAPAM (Chambre de l'agriculture, de la pêche et de l'aquaculture de Mayotte)
- EPN Coconi, Mayotte (Lycée agricole)

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Sweet potatoes (Ipomea batatas) in a strategy of agricultural diversification in the Languedoc-Roussillon region

Patate douce (Ipomea batatas) : culture de diversification en Languedoc-Roussillon

FRANCE – LANGUEDOC-ROUSSILLON

Starting date - expected end date | 01.01.2015 - 31.12.2017

Operational Group

The objectives of the project are :
1/ Testing different varieties for two differents markets (fresh consumption and transformed in chips or beer) to respond:
- to demands of the consumer market (private restoration and catering which is more and more focused on local ecological and/or organic products,
- to regional companies in the organic sector very interested by local suppliers,
- to industrial "converters" (beer brewery, chips)
- to local growers interested by diversifying their cultures to be less dependend of fluctating prices of monocultures,
- to local growers wanting to commercialize sweet potatoes "non standard".

2/ Refining cutting production (multiplication) in local conditions and though close to the production site.
3/ Establish a technical sheet adapted to local conditions (cutting and plant production, fertilization, irrigation, weed control…)

Lead partner: SICA CENTREX

Other partners

Research

- Chambre Régionale d'Agriculture LR
- CIVAM Bio 66
- SUDEXPE

Project contact: **Aude Lusetti** | Chemin du Mas Faivre – 66440 TORREILLES
Contact at workshop: T: + 33 675253472 | alusetti.centrex@orange.fr

SYAM – Experiment and provide tools for hybridization of food systems between short and long supply chain

SYAM - Expérimenter et outiller l'hybridation de systèmes alimentaires entre circuits courts et circuits longs

FRANCE – AUVERGNE-RHÔNE-ALPES

Starting date - expected end date | 10.2015 – 10.2019

Operational Group

www.psdr-ra.fr - www.isara.fr/Recherche/Alimentation/Thematiques/SYAM

The aim of the SYAM project is to support the food systems at the interface between short and long supply chain towards sustainable development paths ("food systems of the area", called SYAM). Its objective is to produce knowledge about these systems, their economic, societal and environmental performances, their sustainable conditions, in order to co-construct with the project stakeholders a method and tools supporting the sustainable development of such food systems. The project includes 3 research topics: characterize the systems organisation, their hybridization and their integration in the territory; evaluate and model their economic, societal and environmental performances; understand in which conditions SYAM can contribute to the competitiveness and sustainability of the agricultural and food sector of the region. The projects also includes 2 valuation components, aimed at creating tools for these food system support.

Lead partner: ISARA (Engineering School)

Other partners

Research

- SIGMA – UMR CNRS 6602
- Montpellier SupAgro – UMR- INNOVATION
- AgroParisTech – UMR METAFORT
- AgroParisTech – UMR SAD-APT
- Grenoble INP – UMR G-SCOP

Advisory

- Auvergne Rhône Alpes regional Chamber of agriculture
- Isère Chamber of agriculture
- Rhône Chamber of agriculture
- Savoie Mont Blanc Chamber of agriculture
- Rhône-Alpes Gourmand Committee

Project contact: **Carole CHAZOULE** | AGRAPOLE - ISARA-Lyon |23 rue Jean Baldassini 69364 LYON CEDEX 07
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Bickus: Marketing of laying hens and brothers by innovative product lines

Vermarktung von Althühnern und Brudertieren durch innovative Produktlinien

GERMANY-HESSE

Starting date - expected end date | 1.1.2016 – 31.1.2018

www.bickus.de - www.hessische-biohuhn.de

Operational Group /Innovative project

That 's what we want: producing quality food from a much too neglected resource, the meat of organic laying hens. This is hardly used for high-quality food, although it occurs again and again when the chickens stop laying eggs. Because it is so valuable, we want to change that and produce artisan-made, tasty organic products from it, regionally locatable, handcrafted instead of industrially produce. The project was launched with the founding of Hessische Biohuhn eG. Members of the cooperative are 6 organic laying hens - farms in Northern Hesse, as well as 2 regional organic farmers butchers and a marketing organization. At the beginning of the project, the brand "Bickus" was created with the associated design applications for labels, packaging, web, etc. During the project we developed various innovative products made from hen meat. Selling start 2/18

Lead partner: Hessische Biohuhn eG (cooperative)

Other partners Gutes aus Waldhessen e.V.

Research

- Hochschule Fulda (University)
- Universität Gesamthochschule Kassel - Witzenhausen

Farmers

- Mustergefluegelhof Leonhard Häde (www.sonnenei.de)
- Biolandhof Eisenach (www.bioland-ei.de)
- Frischgeflügelhof Roth GbR (bio-frischgefluegel-roth.de)
- Biolandhof Sandrock (biolandhof-sandrock.de)
- ...

Project contact: **Tim Treis** | Binsförther Straße 26 D – 34326 Morschen
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ENU-WHEAT

Etablierung einer nachhaltigeren und umweltverträglicheren Weizen-Wertschöpfungskette

GERMANY - HESSEN

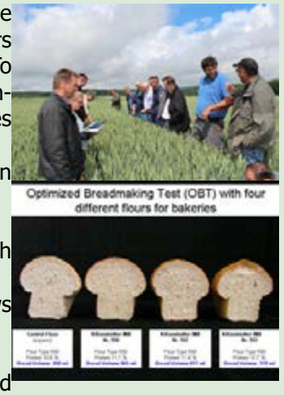
Starting date - expected end date |01.01.2016 - 28.02.2018

www.gutes-aus-hessen.de

Operational Group

Excessive fertilization of wheat (200-260 kg N/ha) is partially responsible for nitrate leaching into groundwater. The project aims to support farmers in lowering their nitrogen-fertilization input to wheat down 170 kg/ha. To ensure a wheat marketing outside the common market requirements, an innovative breadmaking test (OBT) was installed and various project activities were established:

- A regional wheat value chain was built up with farmers, a certification organisation, a mill and associated bakeries.
- Wheat price is decoupled from protein requests (13 – 14.5 %).
- Optimum bread-making quality was ensured by selected varieties with high protein quality and high yield.
- Optimum bread-making quality was verified by an baking test which shows higher bread-volumes with lower protein contents.
- Optimum N-fertilization technique is explored using N-Sensors.
- Promotional material was developed to inform about the regionally and sustainably produced wheat in bakeries



Optimized Breadmaking Test (OBT) with four different flours for bakeries

The participating bakeries demonstrated that bread volume is not directly associated with flour protein content but to gluten-quality.
In two years wheat with high baking quality and lower protein contents (10,5 – 12%) than usual could be realized. Recruitment of bakeries and marketing for bakeries was also crucial for a successful value chain.

Lead partner: Forschungsring e.V. (Biodynamic Research)

Other partners

Research and project coordination

- Institute of Agronomy (University, Gießen)
- Forschungsring e.V. (Biodynamic Research)

Wheat value chain partners

- 7 farmers near Frankfurt a. M., certificated partners of MGH/ Thylmann
- H. Thylmann GmbH & Co. KG/Flour mill, Kilianstädten
- MGH GUTES AUS HESSEN GmbH (Marketing Service)
- Bakeries certificated partners of MGH/Thylmann

Project contact: **Dr. Ludger Linnemann**
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LandLogistics for Land Brandenburg

LandLogistik für das Land Brandenburg

GERMANY – LAND BRANDENBURG

Starting date - expected end date | **1.01.2017 – 31.12.2018**

Operational Group

The LandLogistik Operational Group in the German State of Brandenburg is finding ways to improve farm productivity and quality of life in rural areas by reducing logistics costs – allowing rural producers to access existing freight space in the transport sector and on the local bus. The goal is to achieve a standardized neutral information and disposition platform for all stakeholders in the logistic chain and the provision of data for all users for handling day-to-day business, optimizing existing vehicle fleet use and infrastructure.
LandLogistik has one major aim: to strengthen the rural area as an economic and living area, to ensure that the working and living conditions do not lag behind those of the urban centres. Therefore, the special focus will be to support logistic solutions in rural areas (same day delivery, delivery on demand) by including public transport operators, drones or even cargo bikes – especially for regional products.

Lead partner: SysTec LandLogistik GmbH

Other partners
Interlink GmbH
Transinet GmbH

Farmers

- Milchviehbetrieb Wolters GmbH
- Bauernkäserei Wolters GmbH

Project contact: **Anja Sylvester** | Wallstraße 58, D-10179 Berlin, Germany
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Nutrition for human health: Aquaponic systems in Western-Pomerania

Ernährung für die Gesundheit: Aquaponiksystemen in Mecklenburg-Vorpommern

GERMANY - MECKLENBURG-VORPOMMERN

Starting date - expected end date | 01.11.2015 - 31.10.2018

Operational Group

- The project started with their work in the end of 2015, mainly in the state-of-the art aquaponic facility at the University of Rostock, named "FishGlassHouse".
- Goals: saving costs in plant production; improvement of fish product quality through feed ma nipulation; creation of a new sustainable supply chain, based on the ecological friendly aquaponics, for regional farmers, gardeners and food processors in order to meet needs of the local market, where the products will be sold.
- We are going to vary feed ingredients (minerals, lipids) in order to improve the quality of the fish produced.
- We are testing possibilities for balanced fatty acid profiles in fish muscle meat with view on the n-3/n-6 ratio accor ding to fundamentals of the evolutionary biological relationship in the Human Brain (see: theses by Crawford, Imperial College, London) and further health benefits.
- Aquaponics combines aquaculture (fish production) and hydroponics (soilless plant cultivation). Therefore, we intend to improve the nutrient composition of the recirculating process water from the aquaponic system to support plant growth and with aim to reduce or minimize requirements in artificial fertilizers.
- The project is described in detail on the Scottish rural network website, inclusive a short English-language video with more information about our project: https://www.ruralnetwork.scot/case-studies/aquaponics-western-pomerania-germany

Lead partner:

- Prof. Dr. rer. nat. habil. H.W. Palm, Department of Aquaculture & Sea-Ranching, Faculty of Agricultural and Environmental Sciences (AUF), University of Rostock, Germany
- Representative: Dr. agr. U. Knaus, Department of Aquaculture & Sea-Ranching, University of Rostock

Research:

- Department of Aquaculture & Sea-Ranching, Faculty of Agricultural and Environmental Sciences (AUF), University of Rostock, Germany

Other partners

Farmers

- Fischgut Nord eG (18510 Abtshagen, MV, Germany) and "Filetas" (Fischgut eG & Co OHG, Abtshagen, MV, Germany) – representatives of regional farmers involved in fish production and processing
- Groenfingers GmbH (18146 Rostock, MV, Germany) - specialist in gardening products
- F&F Fisch und Feinkost Handelsgesellschaft mbH (18069 Rostock, MV, Germany) – fish marketing

Project contact: **Prof. H.W.Palm** - Department of Aquaculture & Sea-Ranching, Faculty of Agricultural and Environmental Sciences (AUF), University of Rostock (Germany)
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Wild fruits - Optimization and enhancement of the production and processing potential of native wild fruits

Wildfrüchte - Optimierung und Erweiterung des Produktions- und Verarbeitungspotenzials heimischer Wildfruchtarten

GERMANY – MECKLENBURG-WESTERN POMERANIA

Starting date - expected end date | 07.09.2015 - 31.03.2019

Operational Group

The objective of the project is to establish the cultivation of new, innovative wild fruits like chokeberries (Aronia spp.), roses (Rosa spp.) and flowering quinces (Chaenomeles spp.) under climate and location requirements of Mecklenburg-Western Pomerania. The aim is to expand the range of cultivations of specialized fruit growing companies.
Another trial is to record the influence of new pruning techniques on the cultivation, growth and yield of sea buckthorn (Hippophae rhamnoides).
From the assessment of the physical-chemical properties of these wild fruits, utilization potentials and marketing strategies for new, innovative products will be developed.

Lead partner: LMS Agrarberatung GmbH, Centre of Agricultural Advice Service, Rostock, Germany

Other partners

Research

- Neubrandenburg University of Applied Sciences, Germany
- Mecklenburg-Vorpommern Research Centre for Agriculture and Fisheries, Gülzow-Prüzen, Germany
- Baltic Consulting, Stäbelow, Germany (Marketing Company)

Farmers

- Sanddorn Storchennest GmbH, Ludwigslust, Germany (Fruit grower)

Project contact: **Dr. Rolf Hornig** | Waldschulweg 2, 19061 Schwerin
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Contact at workshop: **Sara Mosch** | Waldschulweg 2, 19061 Schwerin
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Competitiveness increase of high hill and mountain farms through cereal biodiversity valorisation under organic farming

Aumento della competitività delle aziende agricole di montagna e alta collina attraverso la valorizzazione della Biodiversità cerealicola in regime Biologico

ITALY – EMILIA ROMAGNA

Starting date - expected end date | 01/10/2016 - 30/09/2018

www.bioalquadrato.it

Operational Group

Bio2 will increase the competitiveness of mountain farms through cereal-biodiversity valorisation and organic farming, helping farmers benefiting from the existence of a growing demand for organic old/local varieties by the local first processing industry. Combinations of old genotypes of the Triticum genus will be identified, which, grown in mixtures - i.e. evolving populations - are able to give adequate yields and good predisposition to processing. The project will carry out a chemical characterization of the agricultural products and a nutritional and organoleptic evaluation of bread produced from these evolving populations. Glycaemic responses and post-prandial plasma insulin levels will be measured in healthy subjects. An economic and market analysis will enable the full exploitation of the newly adopted production course.

Bio2

Lead partner: Open Fields (Technology Transfer)

Other partners Molino Grassi (Industrial mill); Agriform (Training agency)

Research
- Department of Food and Drug, University of Parma
- Azienda Agraria Sperimentale STUARD (Experimental farm)

Farmers
- Luca Marcora/Azieda Agricola Angus
- Luca Valentini/Azienda Agricola Bismantova
- Gianmaria Cunial/Azienda Agricola Elena di Cunial
- Claudio Grossi/Azienda Agricola Grossi Claudio
- Massimiliano Casali/Soc. Agricola Le Piagne

SME
- Open Fields srl

Project contact: **Silvia Folloni** | Strada Consortile 2, 43044 Collecchio (PR), Italy
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"Edible Park" – Horticulture & agroforestry together A multifunctional farm for peri-urban areas

Orticoltura e agroforestazione periurbane ("Parco Commestibile") Un'azienda agricola multifunzionale per gli ambiti periurbani

ITALY – EMILIA-ROMAGNA

Starting date - expected end date | 01.09.2016 - 31.07.2019

parcocommestibile.crpa.it

Operational Group

The aim is to develop, in areas surrounding the cities, a model of multifunctional farm that has potential for scaling up in terms of number of producers and consumers involved.
"Edible park" is a plot of 1 ha where 80 mulberry trees were planted in rows, to rebuild the traditional rural landscape. Horticultural crops are cultivated between trees to supply fresh vegetables to the nearby town (Reggio Emilia), favouring manual operations and the inclusion of disadvantaged workers.
"Edible park" is also the brand used to experiment new supply chain models, as the use of a web platform to collect orders or the selling of partially processed vegetables, to take into account the evolution of consumer needs. Data are collected to evaluate the social, economic and environmental impacts.

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

Other partners

Research
- Fondazione CRPA Studi Ricerche
- Università degli Studi di Parma (Dipartimento SEA)

Farmers
- Cielo d'Irlanda Cooperativa Sociale
- Società Cooperativa Agricola Ortolani

External collaboration
- Comune di Reggio Emilia

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Contact at workshop **Marino Zani**
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Farmers Lab

Laboratori condivisi da agricoltori per la valorizzazione dei prodotti ortofrutticoli

ITALY - VENETO

Starting date - expected end date |12.01.2018 - 22.12.2019

www.facebook.com/GoFarmersLab
www.ciapd.it/farmerslab

Operational Group

The purpose of the FARMERS LAB project is to grow market access and build economic sustainability for farms producers of vegetables and fruits, increasing access to healthy local food and reducing the environmental impact of the food supply chain.
Starting from the idea of creation of Collective Farmers' Labs for vegetable and fruits valorisation, FARMERS LAB will deliver a new business model placing value on innovation in production processes, marketing, food packaging, logistics for the food supply chain to enhance farmers revenues and respecting the consumers trends and local social needs.

Lead partner: Confederazione Italiana Agricoltori di Padova (CIA - Italian Farmers Syndicate of Padova)

Other partners

Research and SME

- Centro Istruzione Professionale e Assistenza Tecnica del Veneto (CIPAT, Regional training services for farmers)
- Confesercenti del Veneto Centrale (Shopkeepers Association)
- Future Food Institute Trust (Knowledge partner)
- Galileo Visionary district (Technology Park)
- Nerosubianco srl (Innovation broker)
- UNIS&F (European Institute of Sensory Analysis)

Project contact: **Riccardo Varotto**
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FORTe: Oleaginous Supply Chain at Total Recovery

FORTe - Filiera delle Oleaginose a Recupero Totale

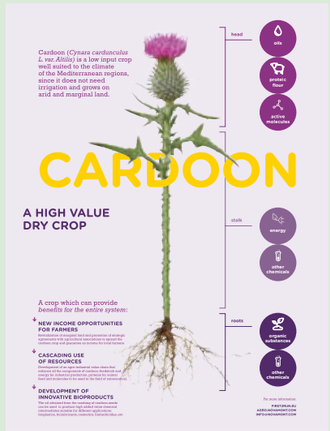
ITALY - UMBRIA

Starting date - expected end date | 02.01.2018-06.30.2018

Operational group

To demonstrate at large scale the cultivation of cardoon (Cynara cardunculus L. var. altilis DC) and safflower (Carthamus tinctorius L.) crops in identified marginal lands in Umbria region through the implementation of sustainable agronomic protocols for fields cultivation and management aimed at reducing inputs and increasing seeds yield as well as to demonstrate the implementation of innovative oil extraction techniques towards the obtaining of sufficient oil quantity, reduction of waste streams and improved energetic performances.
Specific objectives:

- To demonstrate large scale cultivation of cardoon crop in identified marginal lands;
- To implement sustainable agronomic protocols for the reduction of required inputs for crops cultivation;
- To optimize the harvesting, separation, storage and transportation of the collected fractions (seeds, lignocellulosic biomass);
- To demonstrate the implementation of innovative mechanical treatment for oil extraction with reduced energy requirement, decreased loss and improved oil yield.



Lead partner: Consorzio Agrario dell'Umbria

Other partners Mignini & Petrini spa, Tarkett spa, Impresa Verde Umbria srl, Confindustria Umbria Servizi srl, Consorzio produttori Agricoli Provincia di Perugia per la difesa delle colture

Research

- University of Perugia
- CESAR - Centro per lo Sviluppo Agricolo e Rurale

Farmers

- Manni Massimo, Azienda Agricola
- Gabriele Austeri, Azienda Agricola
- Silveri Franco e Fratelli, Società Agricola
- Fausto Rubini, Azienda Agricola
- Berretta Tiziana, Azienda Agricola
- Società Agricola FARE srl
- Fondazione per l'Istruzione Agraria in Perugia

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Improving sustainability through organizational efficiency in agri – food chain

Sostenibilità attraverso l'efficienza organizzativa nelle filiere agroalimentari (FiLO)

ITALY - UMBRIA

Starting date - expected end date | 01.03.2018 - 31.12.2020

Operational Group

The project aims to transfer organizational, methodological and technical innovation in the logistic system of the regional agri – food sector. In order to reach the goals, the activities of the project are organized in two different tasks, each studying and testing different solutions and methods to improve the internal and external logistic system.

Task 1 works in order to:
- Integrate and make more efficient both the corporate and the chain logistic through new IT and management tools (agri – food sector)
- Increase the level of integration between companies, reducing management and delivery costs
- Develop a shared platform that fills the needs of storage of the partners, through a deeper integration of their logistic system

Task 2 works in order to transfer the Nobel Prize Oliver Williamson's TCE model into the agri – food sector. More specifically, the task aims to:
- Support the introduction of innovative types of contracts (between agricultural and industry sector) related to the cultivation of cereals and dried legumes
- Testing and implementing an internal and performance audit in order to ease management decision

Lead partner: Gruppo Grifo Agroalimentare (agrifood company)

Other partners

Research
- University of Perugia – Agricoltural Science Department
- University of Perugia – Engineering Department

Farmers
- La Strada dei Sapori
- Molini Popolari Riuniti Ellera Umbertide
- Molinagri
- Casabionda
- GCA Trevi
- Canavelle
- Agritiber
- SAGRIVIT
- Tascini Luca
- Alessandri
- Fattoria Terra e Vita
- Fratelli Testi e figli

SME
- Consorzio Agrario dell'Umbria (agrifood company)
- Ambrosi&Sdei (agrifood company)

Others
- Impresa Verde Umbria (advisers)

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LCA (Life Cycle Assessment) of the olive oil and wine sectors, also inserting zootechnical species in the olive groves to increase the environmental and economic sustainability of companies

LCA (Life Cycle Assessment) delle filiere olivicole-olearie e vitivinicole ,anche consociando specie zootecniche negli oliveti per aumentare la sostenibilità ambientale ed economica delle aziende

ITALY - UMBRIA

Starting date - expected end date | 01.04.2018 – 01.04.2021

Operational Group

The main goals of the project are: the creation of a sustainable supply chain involving local companies thanks to the LCA approach and , therefore, the certification of the products (if applicable);the quantification of the carbon sequestered by the plant grove and evaluation of the corresponding potential carbon credits; the ceation of a reference model, extensible and applicable to other local business areas for further developments of the project. The main sectors involved in the project are: Olive oil sector, Zootechnical sector, Wine sector ,Forestry sector. The intruments that will be implemented are:
- Creation of a "virtuous" company model, for joining the voluntary certification schemes of products (Carbon Footprint, EPD, etc….).
- Creation of an open access software that, in a simplified way, allows the company to evaluate its environmental footprint.
- Creation of a specific label for the Operating Group that will be applied on the studied products to highlight the environmental performance achieved and the membership to the OG.
- Development of project proposals for the generation of VER (Verified Emission Reductions), i.e. carbon credits on the voluntary carbon market.

Lead partner: Farchioni Olii Spa

Other partners Impresa Verde Umbria Srl, Tree Srl, Aprol, Noesis

Research
- Univiversity of Perugia
- CNR (Consiglio nazionale delle Ricerche)

Farmers

Azienda Agraria Lungarotti Chiara, Appolloni Paolo, Fattoria Le Selve, Fattoria Le Staffe, Az. Agricola Fontecupa, Brunozzi Giorgio, Società Agricola Sorelle Zappelli Cardarelli, Azienda agraria Bacci Noemio, Società Agricola Trevi Il Frantoio Spa, Cooperativa Oleificio Pozzuolese, Az. Agricola Mesina Giovanni Battista, Agrimeccanica Ottavi di Giontella & C. Snc, Comunanza agraria di Gualdo tadino, Appolloni Giorgio, Az. Agr. Giontella Marco, Buccelletti Stefano Soc. agr. Collepizzuto, Soc. Agricola Terre de la custodia

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Patadorata - Venetian Golden Potato: competitiveness and value creation through varietal innovations and conservation techniques

Patata dorata veneta: competitività e creazione di valore attraverso innovazioni varietali e tecniche di conservazione

ITALY - VENETO

Starting date - expected end date | 15.01.2018 - 14.01.2021

Operational Group

www.patadorata.it

Realization of a demonstration project implementing varieties and conservation processes aiming at the creation of added value for farmers. The main objectives are the application of varietal innovations through the cultivation of new varieties already selected which need to be assessed more thoroughly through sowing in the open field, and the application of innovative product conservation techniques.
The expected results concern the selection of varieties of interest to consumers in order to increase the value of the agricultural product. For storage the main result is the determination of the effectiveness of techniques and tools improving and innovating storage facilities in order to maintain better and longer the qualitative characteristics of the harvested product; in this regard, it is believed that the use of ozone in refrigerated storage leads to an increase in productivity due to the average reduction in waste and returns due to defects from the current 15% to 5% of the stored product; in economic terms, a net benefit is obtained due to the lower costs and the greater quantity sold for about € 5 million for the whole Veneto potato sector.

Lead partner: Terre del Guà - Società Cooperativa Agricola

Other partners

Research

- Istituto Cooperativo di Ricerca

NGOs

- AGCI Agrital

SME

- Agriveneto Spa

Project contact: **Piergiorgio Agostini**
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Pomegranate Add Value

VaMo - Valore aggiunto Melograno

ITALY - VENETO

Starting date - expected end date | 22.12.2017 - 22.06.2020

www.agromania.it

Operational Group

Through the VA_MO project, the leader partner intends to promote the op the new trends in food consumption. Especially those that are increasingly oriented, both in terms of value and volumes, to innovative agro-food products characterized by ease of consumption and high nutritional and healthy qualities, such as fresh ready territory towards who consumers are confident, both in terms of food safety and respect for the environment.

The innovative solution adopted consists in the realization, from a technical and commercial point view, of a new agri-food product chain, namely fresh pomegranate arils, absent in the local market, based on agricultural productions in the regional territory.

Lead partner: Agromania - farmers cooperative - Portogruaro (VE)

Other partners

Research

- Padua University - TESAF Dipartiment

Farmers

- UGC CISL – Venezia Trade Association
- Associazione Italiana Coltivatori

SME

- CONFCOMMERCIO Imprese per l'Italia - Unione Metropolitana di Venezia – Trade Association
- ANAPIA del Veneto – Social Enterprise - Venezia

Project contact: **Riva Gianmaria**
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Quinovation: Quinoa (Chenopodium quinoa Willd.), a suitable and profitable alternative for the production of gluten-free flours with a low glycaemic index

QUINOVATION: LA QUINOA (Chenopodium quinoa Willd.): UN'ALTERNATIVA, REDDITIZIA E SOSTENIBILE PER LA PRODUZIONE DI SFARINATI GLUTEN-FREE A BASSO INDICE GLICEMICO

NORTHERN ITALY

Starting date - expected end date | 01.07.2016 - 31.12.2018

Operational Group Innovative project

Quinovation project is to study crop adaptability, yield potential, eco-physiological and chemical-nutritional characteristics of quinoa (Chenopodium Quinoa Willd.), which may be used for gluten-free product with a low glycaemic index. The project has been structured in order to (i) create an innovative agro-food chain for the Northern Italy area, (ii) introduce an alternative crop with low water requirement and salinity tolerance in the Po Valley, (iii) test the cropping potential in abandoned and marginal lands. Project activities are focused also on the study of main characteristics and rheological behaviour of quinoa-based flours, which can be used as an alternative of wheat flours for gluten-free bakery products.

Lead partner: Catholic University of Sacred Heart, Piacenza

Other partners

Research

- Stuard (Experimental Farm)

Farmers

- Agostino Fioruzzi/ AGRI DAF San Giorgo Gossolengo (PC)
- Maria Vittoria Aneda/Eredita dal passato
- Valentina Cipelli /Podere Cristina
- Stefano Ripetti /Podere Mangialupo
- Stefano Ripetti /Terre della Val trebbia

SME

- Molino Dallagiovanna G.R.V. srl

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Saint Ambrose's Basket

Il Paniere di Sant'Ambrogio

ITALY - TUSCANY

Starting date - expected end date | 01.03.2018 – 01.11.2019

Operational Group

www.facebook.com/PaniereSAmbrogio

Il Paniere di S. Ambrogio is a research/action project that sets out to promote the role of the city of Florence's historical markets, and the market of S. Ambrogio in particular, as focal points for the sale of high quality local produce, creating added economic, social and environmental value, and tapping into changes in food consumption styles and preferences. Through the involvement of a vast network of public and private entities from the local area (Municipality of Florence, farms and livestock breeders, market stallholders, associations and citizens), the project has analysed the supply and demand for local produce that could potentially be sold at the market and the organized focus groups to share lines and strategies for the development of the historical markets by promoting local products. GO supports producers to access to a larger market and, consequently, commercial enhancement of their products; GO promotes the spaces in St Ambrose Market in Florence, both from a point of view of frequentation and also in view of visibility emphasizing social role of agriculture and farming

Lead partner: Azienda Agricola le Roncacce di Corsini Giuseppe (farmer)

Other partners

Research

- SAGAS - Laboratory for Social Geography (LaGeS), University of Florence prof. Mirella Loda

Farmers

- A group of 12 farmers

SME

- M74 soc. coop agricola forestale (advisor)

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San Giorgio dairy - Improve mountain's forage systems

Miglioramento dei sistemi foraggeri a sostegno della produzione di Parmigiano Reggiano a marchio "Prodotto di montagna" nelle valli appenniniche dell'area del Tassobbio

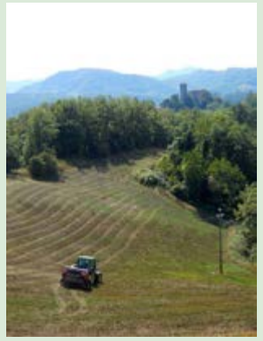
ITALY – EMILIA-ROMAGNA

Starting date - expected end date | 01.08.2016 - 30.09.2019

latteriasangiorgio.crpa.it

Operational Group

The plan aims to improve the feeding management of dairy cows milked for Parmigiano Reggiano (PR) cheese production in the San Giorgio Dairy. The dairy groups 8 small and medium farms located in the Tassobbio river area, where PR is certified as "Mountain product" (Reg EU 1151/2012) and where forages have to represent at least the 60% of dry matter in cow's daily ration.
Specific objective of the plan is to increase production and nutritional value of forages trough: 1) varieties of alfalfa and fodder cereals more productive in mountain climatic area; 2) improving self-supply of local forages used for cows' feeding; 3) evaluating nutritive value and digestibility of rations and forages in order to plan their best use for herd's feeding.



Lead partner: Latteria Sociale San Giorgio (Dairy - SME)

Other partners

Research

- Centro Ricerche Produzioni Animali – CRPA SpA
- Fondazione CRPA Studi Ricerche

Farmers

- Cooperativa Agricola Santa Lucia
- Azienda Agricola Il Ponte
- Azienda Agricola La Strada
- Azienda Agricola Nasi

Project contact: **Maria Teresa Pacchioli** |V.le Timavo 43/2- 42121 Reggio Emilia, Italy
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Sustainable and innovative poultry production in South Tyrol

Nachhaltige und innovative bäuerliche Geflügelwirtschaft

ITALY – SOUTH TYROL

Starting date - expected end date | 01.11.2016 - 31.10.2019

Operational Group

Many farmers in the region of South Tyrol are looking for ways to diversify their businesses and poultry farming is a promising niche as demand for local poultry is given. Our aim is to provide basic knowledge and form a network in order to stimulate and support the development of successful business models for regional extensive poultry production.
Specific emphasis will be put on evaluating the different possibilities of slaughtering and the resulting business models. The project will also address the problem of utilising less valuable parts of the carcasses by researching different ways of processing the meat. Further, an important focus will lie on contrasting the ways of marketing poultry under the challenging conditions of a small alpine region.
Within the next two years we will compile a guideline for poultry production and document practical experiences to aid decision making towards successful business models around the local value chain of poultry.

Lead partner: Südtiroler Bauernbund (Farmers association)

Other partners

Research

- Free University of Bozen-Bolzano (University)
- Versuchszentrum Laimburg (Agricultural research centre)

Farmers

- Michael Oberhollenzer/Moserhof
- Hubert Rienzner/Hintersteurerhof

Advisory services

- Beratungsring Berglandwirtschaft (Advisory service for mountain farming)

SME

- Alexander Holzner (Butcher)

Consultants

- ARGE Huhn from Austria (Experts on poultry production)

Project contact: **Marianne Kuntz** | Südtiroler Bauernbund, K.-M.-Gamper-Str. 5, I-39100 BZ
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marianne.kuntz@sbb.it | info@moserhof-ahrntal.com

Sustainable and innovative production of agricultural beer in South Tyrol

Nachhaltige und innovative bäuerliche Bierproduktion

ITALY – SOUTH TYROL

Starting date - expected end date | 01.10.2017 - 30.11.2019

Operational Group

Craft beer is an international trend and in South Tyrol local products are valued by the population and tourists. Combining the two, this creates a niche for farmers in the region of South Tyrol to diversify their businesses by activities around beer production. Our aim is to provide a thorough assessment of the feasibility of different business models around the value chain of agricultural beer.
The project will specifically focus on the opportunities and challenges of i) the production of brewing cereals, ii) malting and iii) brewing on mountain farms as well as iv) collective agricultural beer production.
Within the project the partners will integrate practical and theoretical knowledge into business model canvases which will greatly support agricultural decision making, local consultancy and successful innovation around agricultural beer making in South Tyrol.

Lead partner: Südtiroler Bauernbund (Farmers association)

Other partners

Research
- Versuchszentrum Laimburg (Agricultural research institute)

Farmers
- Alexander Stolz/Hubenbauer
- Brigitte Zöschg-Hofer/Stegerhof
- Michael Baumgartner/Ciastelhof
- Martin Silbernagl/Trieferhof

Advisory services
- Beratungsring Berglandwirtschaft (Advisory service for mountain farming)

Consultants
- August Gresser (Consultant for beer brewing)

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Contact at workshop: **Astrid Weiss** | **Brigitte Zöschg-Hofer**
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Wapple - Pilot project to introduce an innovative beverage on the market for the valorization of the Veronese apple and its territory

Studio per l'introduzione sul mercato di una bevanda innovativa per la valorizzazione della mela tipica Veneta e del suo territorio

ITALY - VENETA

Starting date - expected end date | 22.01.2018 - 21.12.2019

Operational Group

The aim of this project is to valorize the apple production of the farmers, members of the "Consorzio Ortofrutticolo di Belfiore" based in the South-east area of Verona. With this project, the Consortium seeks to diversify its activity by introducing on the market an innovative beverage, created by the union of two typical products of the Veronese area: apples and IGT wine grapes. Specifically, the pilot project has the purpose of perfecting the product prototype and understanding its actual business opportunities. The main result we aim to achieve is the creation of a short food supply chain in order to valorise the Veronese apples together with an increased economic margin for the farmers involved, that will occur further to the product commercialization on the market. The project will also generate positive returns to other subjects operating in the same area, in particular the wine producers and the local community, but also in general as it will be produced in a sustainable manner.

Lead partner: Consorzio Ortofrutticolo di Befiore (farmer)

Other partners

Research
- Università Cattolica del Sacro Cuore (University)
- Ecamricert s.r.l. (Laboratory of analysis)

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Cooperation for the advance in the joint competitiveness of the value chain of Idiazabal cheese

Cooperación para el avance en la competitividad conjunta de la cadena de valor del queso idiazabal

SPAIN-BASQUE COUNTRY

Starting date - expected end date | **14.12.2015 – 31.07.2016**

www.idiazabalgazta.eus

Operational Group

The objective of the project is to improve cooperation, the integration of the value chain and the search for synergies to gain dimension in the DOP Idiazabal cheese sector. Driving a culture of collaboration, innovation and cooperation, it is tried to progress in sectoral cohesion, making the different agents stop being seen as mere competitors to join efforts in common benefit objectives. Specifically, the objectives are to promote efficiency along the value chain of Idiazabal DOP cheese, from the production of milk to the market and to facilitate stable agreements between producers and processors.

Lead partner: **Idiazabal PDO Regulatory Council**

Other partners

Farmers
- Latxa Esnea Kooperatiba
- Baztandarra Kooperatiba
- Luis Zaballa
- Belen Etxeberria

SME
- Quesos la Vasco-Navarra
- Dorrea Gaztandegia
- Artzai-Gazta Elkartea
- Buruaga Arditegia

Suppliers
- EROSKI
- UVESCO
- LUR-LAN
- ARTZAI-GAZTA

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Meadows of Cantabria and healthy foods with environmental benefit

Praderas de Cantabria y alimentos saludables con beneficio ambiental

SPAIN - CANTABRIA

Starting date - expected end date | **05.10.2016 - To be determined**

Operational Group

The project is born in Cantabria, as a demand of the livestock sector, supported and represented by the UGAM-COAG Cattle Trade Union. For the creation of G.O. and the development of the project calls for the support of research entities, food chain operators and consumers. The objective of the project is to promote the healthy nutritional qualities of the milk and meat produced by cows fed with diets rich in pastures and preserved fodder. It is tried to put in value the mentioned nutritional qualities that are obtained by means of a good advantage of the natural meadows of Cantabria on the part of the cattle. This system of use of pastures through livestock, has a low environmental impact, is also essential for the maintenance of natural resources of the rural area of the region and provides an important socio-economic value (fixing of rural population, maintenance of popular culture, etc. .) The project will develop 5 quality indicators that will allow to identify with simplicity the characteristics of greater value in the food, according to how and where it has been produced. The indicators correspond to: 1.- Profile of fatty acids. 2.- Carbon Footprint. 3.- Water footprint. 4.- Socioeconomic value. 5.- Aggregate indicator. With the information provided by the first four indicators, an aggregate indicator is obtained, which will quantify in a label the level of sustainability of the entire process, so that the consumer is aware of the benefits of the labeled food and has criteria to take his purchase decision.

Lead partner: **UGAM-COAG Union de Agricultores y Ganaderos Montañeses (Ranchers´ Trade Union)**

Other partners

Research
- CIFA (Agricultural Research and Training Center of Cantabria)
- CIPF La Granja. Dept. of Quality and Innovation (Training Center)
- Universidad de Cantabria. Office of research results transfer; Dept of chemical and biomolecular engineering; Dept of Chemistry and Processes and Resources Engineering

Farmers
- Agrocantabria/Cooperative Society

SME
- Leche el Buen Pastor / milk manufacturer
- Grupo DELUZ & CIA / catering bussiness
- FAPA CANTABRIA / Association of Students´Parents

Adviser
- Santiago García de Enterria / European Projects Management

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Lönsam Renskötsel

SWEDEN

Starting date - expected end date | 08.08.2016 - 31.12.2019

www.hushållningssällskapet.se

Operational Group

The purpose of the project is to develop premium products from reindeer in cooperation between actors along the supply chain, starting with reindeer herders via slaughterhouses, to retailers and gastronomy. Innovation will make reindeer meat more available on a national and international market. Products of reindeer meat will be packaged and communicated with parameters such as; where did the deer pasturage? what has the animal been eating? and a detailed description of the animal; calf, vaja (female) or sarv (male), age and how it is slaughtered and treated after slaughter (hanging and cutting). The innovation will contribute to maintain and develop sustainable economic, ecological and social growth within Sapmi (Sami's historic settlement areas). The overall objective is to increase profitability in reindeer herding. The premium products will carry a positive trend and put reindeer on the "food map".

Lead partner: Hushållningssällskapet Norrbotten Västerbotten (Rural Economy and Agricultural Society). Non-profitable NGO Advisory Service for agriculture and rural business.

Other partners

SME

- Biergo, Susanne Johnsson (Retailer of reindeer)
- MD restaurants AB, Mattias Dahlgren (gastronomi)
- Arvidsjaur Renslakt, Olov Granberg (slaughter, owned by Sami Villages)
- Fjällvilt, Andres Skum (processor of rein deer meat)

Farmers/Reindeer herders

- V Kikkijaur Sami Village, Johan Jonsson

Project contact: **Helena Zimmer/Susanne Johnsson**
T: + 47 70 2096101 | helena.zimmer@hush.se

DIVERSIFOOD

Embedding crop diversity and networking for local high quality food systems

ITALY, FRANCE, SPAIN, HUNGARY, SWTZERLAND, PORTUGAL

Starting date - expected end date | 01.03.2015 - 28.02.2019

www.diversifood.eu

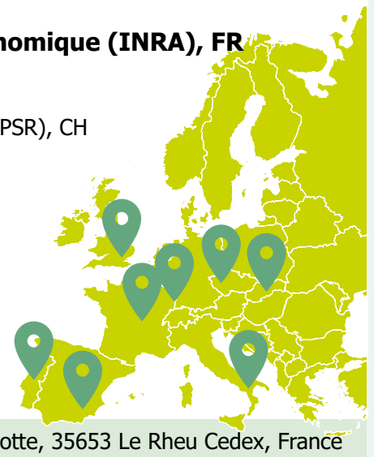
Horizon 2020 multi-actor project

DIVERSIFOOD aims to improve performance, resilience, quality and use of crop plant diversity. By using experienced multi-actor networks across diverse farming systems, areas and crops in Europe, the DIVERSIFOOD project documents and evaluates the diversity of cultivated plants (species, inter-varietal and intra-varietal diversity). In collaboration of researcher and farmers , crop diversity is conserved and further adapted to agriculture and forestry within diverse agroecosystems. In WP 5, DIVERSIFOOD investigated the potential of on-farm seed systems linked to networks and initiatives, and their potential to increase food diversity and embed a healthy and tasty local products in regional food chain and the agri-food system. The project strengthen "food culture" and results in a greater diversity of produces with a cultural identity. By doing so, consumer awareness and the economic viability of local chains will be improved.

Lead partner: Institut National de la Recherche Agronomique (INRA), FR

Other partners in WP5

- Research Institute of Organic Farming (FiBL) and ProSpecieRara (PSR), CH
- Organic Research Center (ORC), UK
- University of Pisa (UNIPI) and Rete Semi Rurali (RSR),
- Instituto Politecnico de Coimbra (IPC) and Universidade Nova de Lisboa (ITQB), PT
- Research Institute of Organic Agriculture (ÖMKI), HU
- Institut technique de l'Agriculture Biologique (ITAB) and Réseau Semence Paysanne (RSP), FR
- Red Andaluza de Semillas (RAS), ES
- ARCHE NOAH, A



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NEURICE: New commercial EUropean RICE (Oryza sativa) harbouring salt tolerance alleles to protect the rice sector against climate change and apple snail invasion

EUROPE

Starting date - expected end date | 01.03. 2016 - 29.02.2020

www.neurice.eu

Horizon 2020 multi-actor project

The project aims to develop New commercial EUropean RICE harbouring salt tolerance alleles to protect the rice sector against climate change and apple snail invasion (NEURICE). The Apple snail now threatens to destroy Europe's rice paddy fields eating the sown seed and the rice plantlets, representing one of the worst introduced gastropod crop pest of the recent time. To date the measures adopted to combat apple snail have failed, but flooding infested fields with seawater proved 100% effective, nevertheless residual salt concentrations affected negatively rice productivity. Thus, the NEURICE project introduce genetic variation in European rice varieties for obtaining commercial varieties tolerant to salinity.

Lead partner: Universitat de Barcelona (RTD)

Other partners CRAG (RTD), CIRAD (RTD), CREA (RTD), UMIL (RTD), UGLA (RTD), IRTA (RTD), INDEAR (SME), ICS-CAAS (RTD), CAMARA, IRIS, CFR, SIS

Research
- CRAG (RTD), CIRAD (RTD), CREA (RTD), UMIL (RTD), UGLA (RTD), IRTA (RTD), ICS-CAAS (RTD)

Farmers
- ROSER LLAÓ / CÁMARA ARROSSERA DEL MONTISÀ I SECCIÓ DE CRÈDIT SCCL (Farmer association)

SME
- IRIS, CAMARA, SIS, CFR

Project contact: **Xavier Serrat**
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TREASURE Diversity of local pig breeds and production systems for high quality traditional products and sustainable pork chains

SLOVENIA, CROATIA, ITALY, PORTUGAL, FRANCE, SPAIN, LITHUANIA, SERBIA, GERMANY

Starting date - expected end date | 01.04.2015 - 31.03.2019

treasure.kis.si

Horizon 2020 multi-actor project

TREASURE focuses on preservation of local pig breeds by better utilisation i.e. improved knowledge, skills, competences necessary to develop existing and create new sustainable pork chains based on European local pig breeds which correspond to the highest consumer demands for quality and healthiness of products, to the societal demands for biodiversity, animal welfare, environment and development of local agro-economy. Activities: a) characterisation at phenotypic, genomic, functional level, DNA tools for breeding programs, b) assess productivity, local feeding resources, nutritional requirements, innovations in management, environmental impact, c) intrinsic quality/healthiness attributes and innovations in traditional pork products, link btw quality and production system, attitudes of consumers d) cost/benefit analyses of the chain, market strategies, branding, functional networks for knowledge exchange.

Lead partner: Agricultural Institute of Slovenia – KIS (public research institute)

Other partners

Public research institutes and universities
INRA, IAH, IPVC, CSIC, INIA CICYTEX, IRTA, UL, UNIZG, PFOS, UNIBO, UNIFI, UNIBG, UEVORA, LUHS

Centers of competences or advisory services
KGZS-NM, SSICA, IFIP, AGRIS-Sardegna, CREDA

Farmers – local pig breeders organisations
as partners (AECERIBER, ANAS, BESH) or linked third parties (DKP, POT, LETA, ANCSUB, ANCPA, CONCS, LEFABA, DUD)

SME
IFIP, CREDA, ANAS, AECERIBER, BESH

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DiverIMPACTS: Diversification through Rotation, Intercropping, Multiple cropping, Promoted with Actors and value-Chains Towards Sustainability

FRANCE, BELGIUM, GERMANY, NETHERLANDS, UNITED KINGDOM, POLAND, HUNGARY, ROMANIA, SWEDEN, ITALY, SWITZERLAND

Starting date - expected end date | 01.06.2017 - 31.05.2020

www.diverimpacts.net

Horizon 2020 multi-actor project

Temporal and spatial diversification of crops is a key driver for resource-efficient farming systems and sustainable value chains. However, crop diversification is hindered by technical and socio-economic barriers at farm and value chains levels. The overall goal of DiverIMPACTS is to achieve the full potential of diversification by (i) assessing performances of crop diversification through rotation, iantercropping and multiple cropping, (ii) providing rural areas actors with those key enablers and innovations that would remove existing barriers and ensure actual uptake of benefits of crop and (iii) make recommendations to policy-makers.
DiverIMPACTS will build on existing experiences of crop diversification and will draw lessons on innovation dynamics supported in 10 field experiments and 25 case studies involving a wide range of actors from production to consumers to develop technical and organizational strategies, contracts, markets and products.

Lead partner: Institut National de la Recherche Agronomique (FR), Research

Other partners

34 actors from 11 countries including farmers, farmer-funded organisations, research, industry and NGOs:

- ACTA, Agrosolutions, APCA, ESA, INRA, IT (France)
- Bio next, ERF, UvA, WUR-FSE, WUR-PAGV (The Netherlands)
- Bioforum, CRA-W, Innagro, SoCoPro, UCL, Wal.Agri SA (Belgium)
- ASR, FRIAB, CREA (Italy)
- Baertschi, FIBL, Mühle Rytz AG (Switzerland)
- Barwy Zdrowia, IUNG-PIB (Poland)
- HS, SLU (Sweden)
- LWK, TI (Germany)
- LEAF, ORK (UK)
- ÖMKI (Hungary)
- AIDER (Romania)

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TRADITOM: Traditional tomato varieties and cultural practices: a case for agricultural diversification with impact on food security and health of European population

DIFFERENT COUNTRIES; CULTIVATION FIELDS IN SPAIN, ITALY, FRANCE, GREECE AND ISRAEL

Starting date - expected end date | 01.03.2015 - 31.08.2018

www.traditom.eu

Horizon 2020 multi-actor project

TRADITOM aims to prevent genetic erosion and loss of traditional varieties by increasing their competitiveness. This is done through:1 Information and Conservation; 2. Characterization; 3. Improvement / Increase Resilience; 4. Valorisation
The goal is to provide traditional tomato farmers with a strong science-based platform on the identity and variability of traditional tomato varieties, which are grown on the farm or are available in public repositories. We compile information on cultivation and environmental characteristics of the regions where traditional tomato varieties are cultivated and provide farmers with new versions with disease resistance whilst keeping good sensory characteristics. We also provide evidence –based rational approach for the valorisation of traditional tomatoes in terms of consumer preference and added value for the different actors of the food chain from farm to fork. Work is done in collaboration with traditional farmers.

Lead partner: Agencia Estatal Consejo Superior de Investigaciones Científicas (CSIC). National Research Organization in Spain.

Other partners

Research

- Up to 16 partners as in www.traditom.eu

Farmers

- Alcalax, tomato producers in Alcala de Xivert (SP)
- Agroindustrial Cooperative of Timpaki (GR)

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Strength2Food

Strengthening European Food Chain Sustainability by Quality and Procurement Policy

EU, NORWAY, SERBIA, THAILAND AND VIETNAM

Starting date - expected end date | 01.03.2016 - 28.02.2021

www.strength2food.eu

Horizon 2020 multi-actor project

Strength2Food seeks to: improve the effectiveness of EU agricultural products' quality policy and Public Sector Food Procurement (PSFP), and to stimulate the development of Short Food Supply Chains (SFSC). On the supply side, it is a measuring the economic, social and environmental impacts of different forms of EU quality food schemes (PDO, PGI, TSG, organic), SFSCs and PSFP. With regard to PSFP, the study focuses on school meals. On the demand side, research focuses on consumers' understanding and use of food quality labels. The project demonstrates how to stimulate the development of new quality markets and local food chains through pilot actions. The pilot actions focus on improving school meals and farmers' cooperation in marketing, increasing local food sales in mainstream retailers and consumer participation in farmers' markets, as well as stimulating a SFSC for fish.

Lead partner: **Newcastle University**

Other partners

Universities and Research Institutes

- Universities of Parma, Edinburgh, Wageningen, Belgrade, Bonn, Zagreb, Milan, Kasetsart, Aristotle University of Thessaloniki and University of Economics Ho Chi Minh
- INRA, CREDA, SGGW and Oslo and Akershus University College for Applied Sciences

Stakeholders and Communications

- Coldiretti, ECO-SENSUS, Food Nation, Barilla, Impact Measurement, EUFIC, Konzum, CREA, BSN, Top Class, Serbia's Ministry of Education, Ecozept, Consorzio del Parmigiano Reggiano, Municipality of Arilje, Glowny Inspektorat Jakosci Handlowej Artykulow Rolno-Spozywczych

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TRUE - TRansition paths to sUstainable legume base systems in Europe

EUROPEAN COUNTRIES AND KENYA

Starting date - expected end date | 01.04.2017 - 30.03.2021

www.true-project.eu

Horizon 2020 multi-actor project

The TRUE project is a balanced practice-research partnership of 24 institutions, which aims to identify the best routes, or "transition paths" to increase sustainable legume cultivation and consumption across Europe. Sophisticated status quo analysis and advanced modelling approaches combined with data generated from 24 Case Studies and transdisciplinary knowledge-exchange will lead to concrete innovations and to a final Decision Support Tool for primary producers, agronomists, processors, associated businesses and decision makers to help determine a range of options for successful transitions that include a variety of legume species and processing approaches to match the pedo-climatic zones and farm network types. Legume Innovation Networks are being formed in three different pedo-climatic regions across Europe, which are: 'Atlantic', 'Continental' and 'Mediterranean'.

Lead partner: **James Hutton Institute**

Other partners

Coventry University; Stockbridge Technology Centre; Scotland's Rural College; Kenya Forestry Research Institute; Catholic University of Portugal; University of Hohenheim; Agricultural University of Athens; Institute for Food Studies & Agro industrial Development; Regional Development Agency Međimurje; Bangor University; Trinity College Dublin; The Processors and Growers Research Organisation; Jožef Stefan Institute; IGV Institut für Getreideverarbeitung; Environmental Social Science Research Group; Agri Kulti Ltd.; Alfred-Wegener-Institute, Helmholtz-Centre for Polar and Marine Research; Slow Food Deutschland; Arbikie Distilling Ltd; Agriculture and Food Development authority; Herdade do Freixo do Meio; Eurest; Solintagro S.L.

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SKIN- Short supply chain Knowledge and Innovation Network

ITALY - APULIA REGION

Starting date - expected end date | 01.11.2016 - 31.10.2019

www.shortfoodchain.eu

Horizon 2020 thematic network

SKIN is an ambitious initiative in the domain of Short Food Supply Chain (SFSC), which aims to systematize the existing knowledge, fostering demand-driven innovation, building long-term collaboration among European farmers and cooperatives, facilitate stakeholders engagement and promote innovation through demand-driven research in the short food supply chain domain. After the collection of good practices on SFSC around Europe, the project is now focused on strengthening networks, through the organization of Working Groups aimed at feeding contents for six different Innovation Challenge Workshops and sharing information or capturing needs across 25 Regional Nodes, located in all involved SKIN Countries. The ultimate objective is to establish of a permanent association of stakeholders, working on the improvement of SFSC's efficiency for the economic growth of the sector for the benefits of European farmers and citizens.

Lead partner: University of Foggia- Italy (Body governed by public law)

Other partners

Research
- University of Ghent (Belgium)
- BIOSENSE Institute (Serbia)
- TEAGASC (Ireland)
- CERSHAS (Hungary)
- Campden BRI-HU (Hungary)
- ACTIA (France)

Collective organization
- CONFAGRICOLTURA (Italy)
- ZLTO (Netherlands)
- COOP AGRO-ALIM (Spain)
- AgrarVerein (Austria)
- CASSOVIA LIFE SCIENCES (Slovakia)
- LANDBRUG & FODEVARER F.M.B.A. (Denmark)

Companies
- WIRELESSINFO (Czech Republic)
- CREHAN, KUSANO & ASSOCIATES – CKA (Belgium)
- EUROPE FOR BUSINESS LTD (UK)
- BB Projecten (Belgium)
- YOURIS (Belgium)
- EUROPEAN QUALIFICATION ALLIANCE (Poland)
- COLLISON AND ASSOCIATES LIMITED (UK)
- TINADA s.r.l. (Italy)

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SALSA

Small farms, small food businesses and sustainable food and nutrition security

30 REGIONS IN EUROPE AND AFRICA

Starting date - expected end date | 01.04.2016 - 31.03.2020

www.salsa.uevora.pt

Horizon 2020 project

SALSA seeks to develop "a better understanding of the current and potential contribution of small farms and food businesses to Food and Nutrition Security (FNS) in an increasingly globalised and uncertain world". SALSA pioneers a novel integrated multi-method approach in 30 regions in Europe and Africa, using the most recent satellite technologies, transdisciplinary approaches, food systems mapping and participatory foresight analysis. We depart from the assumption that FNS depends to a great extent on the capacity of the food system to ensure access to sufficient, nutrient and culturally acceptable food to people. Farms and food business are part of this food system. SALSA effectively engages with stakeholders and decision-makers relevant to small farms and food and nutrition security, and facilitates a dialogue that cuts across classical boundaries in research, policy and practice.

Lead partner: Universidade de Évora, Portugal

Other partners

Research
- Universidade di Pisa, Italy
- Nodibinajums Baltic Studies Centre, Latvia
- The James Hutton Institute, UK
- Stiftelsen Norsk Senter for Bygdeforskning, Norway
- Uniwesytet Rolniczy im. Hugona Kollataja w Krakowie, Poland
- Highclere Consulting SRL, Romania
- Universitat Politecnica de Valencia, Spain
- International Institute for Environment and Development, UK
- Agricultural University of Athens, Greece
- Universidade de Cabo Verde, Cape Verde
- University for Development Studies, Ghana
- African Centre for Technology Studies, Kenya
- International Centre for Research in Agroforestry, Kenya
- Food and Agriculture Organization of the United Nations, FAO

Project contact: **Teresa Pinto-Correia** | Instituto de Ciências Agrárias e Ambientais Mediterrânicas (ICAAM) Univ. de Évora, Núcleo da Mitra, Apart. 94, 7006-554 Évora, Portugal
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Development of cultivation, harvesting and processing technologies for new fruit and berry cultures

Uute puuviljakultuuride kasvatus-, koristus- ja töötlemistehnoloogiate arendamine

ESTONIA

Starting date - expected end date | **01.03.2016 – 31.12.2022**

Innovative project

During the project, the main aim is to find out the economical and biological properties of 7 less cultivated fruit and berry cultures in Estonian climatic conditions. Mainly, their suitability for machine harvesting, as well as propagation, cultivation and processing possibilities according to the content of bioactive compounds are investigated. As the cultivation and total plantation areas of **blue honeysuckle, Saskatoon berry, gooseberry, chokeberry, black elder, European cranberry bush and Japanese quince** are low or non-existent in commercial scale in Estonia. Therefore collecting of relevant information concerning the selected fruit and berry cultures and consulting with fruit growers and scientists from abroad (Latvia, Lithuania, Poland, and Germany etc.) is with high importance. Equally, the possibilities of plant propagation, plantation establishment and development of self-cost of the raw material and young plants, but also yield numbers and longevity of the machine harvested plantation will be estimated.
Eventually, at the end of the project, three perspective cultivars of each fruit and berry culture are selected according to their suitability for machine harvesting, processing properties and based on the content of health- and taste-related compounds, which could be used for niche products.
The knowledge gained from the present project will be also valuable to the future fruit and berry growers and processors when finding producing and marketing outputs.

Lead partner: OÜ Seedri Puukool, Elmar Zimmer – Fruits and berry nursery and producer

Other partners

Research

Polli Horticultural Research Centre, Institute of Agricultural and Environmental Sciences, Estonian University of Life Sciences

Project contact: **Liina Arus, PhD**
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Development of processing technologies for raspberry (Rubus sp.) seed oil

Vaarikaseemneõli (Rubus sp.) töötlemistehnoloogia arendus

ESTONIA – VALGA COUNTY, ILMJÄRVE

Starting date - expected end date | **01.02.2017 - 28.02.2018**

Innovative project

Raspberry fruits consist of fruit flesh and considerable amount of seeds, being rich in different bioactives such as essential fatty acids. After pressing juice, the pomace residue will be considered as agricultural waste in demand of utilization.
The main aim of the project is to develop the most suitable and sustainable technologies for processing the residues coming from raspberry production, especially raspberry seeds. The environmental aspect would be the valorisation of all the so called agricultural wastes.
During the project period, different seed oil pressing technologies and their profitability, as well as oil quality and preservation conditions have been investigated. The future perspective would be the screening of possible applications of raspberry seed oil.

Lead partner: Tedre Farm, FIE Raivo Teder /SME

Other partners

Research

- Estonian University of Life Sciences, Institute of Agricultural and Environmental Sciences, Polli Horticultural Research Centre (research organisation)

Farmers

- Raivo Teder , Tedre Farm Centre (research organisation)

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Economic and environmental impact of starting dairy sheep production in Estonia: study of animal adaptation, fertility performance, milk yield and quality

Lüpsilammaste kasvatamise majandus- ja keskkonnamõjud Eestis: loomade kliimakohanemise, viljakuse ning piimajõudluse ja -kvaliteedi rakendusuuring

ESTONIA

Starting date - expected end date | 01.03.2017 - 29.02.2020

Innovative project

New dairy sheep breed (Lacaune) were introduced for the first time in Estonia in 2017. In this project reproduction and production performance of dairy sheep breed are tested in order to find strategies to improve them in Estonian environmental condition.

The project aims:

1. to study the body growth, reproduction and production parameters of dairy sheep in Estonian climate and compare with Estonian breed sheep
2. to evaluate the economic profitability of the dairy sheep in Estonian climate in comparison of Estonian breed sheep
3. to evaluate the environmental impact of the new livestock system for Estonian agriculture.

Lead partner: OÜ Viinamärdi Talu (Farm)

Other partners

Research

- Estonian University of Life Sciencese (University)
- University of Padova (Italy) (University)

Farmers

- Denis Pretto /Viinamärdi Talu OÜ

MAK 2014-2020 measure 16.2
Project n. 616216780066

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Study of new processes and technologies for developing new environmentally friendly dairy sheep products

Rakendusuuring uute keskkonnasõbralike tehnoloogiate ning tootmisprotsessi-de väljatöötamiseks töödeldud lambapiimatoodete valmistamisel

ESTONIA

Starting date - expected end date | 01.03.2017 - 29.02.2020

Innovative project

The use of sheep milk for produce dairy products in Estonia is very rare.

The project aims:

- Develop the process and technology to produce a semi hard sheep cheese adapted to Estonia and neighbouring countries;
- Develop the process and technology to produce a fresh sheep Ricotta and Whey beverage in order to add value to the sheep whey derived from cheese production, to minimize the waste and decrease the environmental impact of the process;
- To assess the environmental impact of the new sheep milk products and find the best management and technologies combination for minimize it.

Lead partner: OÜ Viinamärdi Talu (Farm)

Other partners

Research

- Estonian University of Life Sciencese (University)
- University of Padova (Italy) (University)

Farmers

- Denis Pretto /Viinamärdi Talu OÜ

MAK 2014-2020 measure 16.2
Project n. 616216780054

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Implantation de parcelles de démonstration de culture de guayule (Parthenium argentatum)

Implantation de parcelles de démonstration de culture de guayule (Parthenium argentatum)

FRANCE – LANGUEDOC-ROUSILLON/ OCCITANIE

Starting date - expected end date | 01/06/2016 – 31/10/2019

Innovative project

Le projet s'intitule «Implantation de parcelles de démonstration de culture de guayule (Parthenium argentatum) en région Languedoc-Roussillon/Occitanie » s'inscrit dans le cadre du programme de développement rural du Languedoc-Roussillon 2014-2020, pour l'action N°PDR 16.2 action « Accompagnement des projets collectifs de recherche et innovants » Les objectifs sont d'étudier les effets de conditions pédoclimatiques, des pratiques culturales, du génotype sur le rendement en biomasse, en caoutchouc et en résines, l'implantation de parcelles expérimentales (0,25 ha /site) soit 2500 plants par parcelle, le transfert aux agriculteurs de la région de l'expertise d'un organisme de recherche le Cirad,la reconversion de friches viticoles, la diversification agricole, la lutte contre les risques d'incendie (très d'actualité), l'approche agro-foresterie et agro-écologie (olivier, amandier) ,la production de semences pour d'autres extensions.
Livrable : prouver que la culture du guayule est adaptable à la région Languedoc-Roussillon/Occitanie

Lead partner: Centre International en Recherche Agronomique pour le Développement (CIRAD)

Other partners

Research

- CIRAD/Biowooeb (EPIC)

Farmers

- Mas St Jean DUEZ/ SME
- Hautes Coumes/Souares/SME
- BIO-ORB-PPAM (COOP)
- Mairie de Claira (GOV)
- CA 66 (GOV)

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PATATASS: Evaluation of technical and economic potential for the integration of sweet potato in agro biological and vegetable systems

PATATASS - Evaluation du potentiel technico-économique d'intégration de la culture de la patate douce dans les systèmes agrobiologiques maraichers et légumiers de Basse-Normandie

FRANCE - NORMANDY

Starting date - expected end date | 15.04.2016 - 31.12.2017

Innovative project

www.jardinsdenormandie.com

Vegetable growers are showing increasing interest in the diversification of crops, particularly for sweet potatoes. This rustic, exotic plant, greatly appreciated by consumers is cultivable in temperate zones thanks to genetic selection and breeding work carried out. Introducing this new crop in Normandy vegetable rotations would allow producers to increase their economic performance and their agro-ecological efficiency (plant breaking in the rotation breaking the cycle of some pests). The project involves experimenting sweet potato cultivation, obtaining and disseminating technical and economic references, assessing and develop integration models into vegetable production systems both in conventional and organic farms. If the results were conclusive, the project would allow vegetables and market gardeners to produce an innovative product allowing to respond to a societal demand for new markets, quality and eco-friendly products.

Lead partner: EIG SILEBAN - Normandy research and development centre for vegetables

Other partners

Farmers

- The cooperatives Agrial and GPLM
- APO "Jardins de Normandie"

Advisers

- The Manche Chamber of Agriculture
- The association Bio Normandie

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Plus milk: adding value to dairy milk produced in bio and conventional dairy farms in Galicia

Leite plus: valorización do leite de vacún producido en explotacións ecolóxicas e convencionais de Galicia

SPAIN - GALICIA

Starting date - expected end date | 01.12.15 – 31.10.17

Innovative project

25 commercial dairy farms were selected and gathered depending on cows´ diet. Five different diets were identified at farms:

1. Bio
2. Grazing
3. No silo maize
4. Low silo maize
5. High silo maize

as result of cow diet.
Every three months farms diets and milk were sampled. Milk fatty acids and antioxidants in milk were determined. Results shows significant differences between indoors milk (3, 4 and 5) and milk produced on grazing conditions (1 or "), this of course were expected, but differences were founded too between diets 1 and 2.
It seems antioxidant combined with fatty acids profile could be a good method to determine whether a cow was fed based on fresh grass or not. Further research keep on this scope.

Lead partner: LIGAL (Interprofessional Milk Analyses Laboratory)

Other partners

Research

- AGACA (Galician Cooperatives Association)

Research

- INGACAL. Public research Organization

Farmers

- A group of 25 diary farmers

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Swedish Protein Crops for the Food Industry

Svenska proteingrödor som industriråvara

SWEDEN

Starting date - expected end date | 01.01.2017 - 31.12.2019

Innovative project

Extruded faba beans for snacks or cereals

The project studies how to use the dry seeds of lupins and faba beans as a basis for various food products.
The seeds are milled into a flour used for extruded products (snacks, breakfast cereals) or as a protein rich flour for baking.
We are also studying if there are differences in protein content and minerals connected to region of cropping. We have in 2017 had field trials at four sites. The distance between the most southern trial site and the most northern site is about 1300 km.
We have not been able to identify any difference in seed composition due to cropping region.
It is clear that faba beans are suitable for use as food basis, but dehulling is important to remove tannins and thus improve taste.

Lead partner: RISE AB (governmental research institute

Other partners

Research

- Lantmännen (agricultural cooperative)

SME

- SoFungy AB
- Veggi AB
- Nordisk råvara AB

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Food Value, the tool with which local food chains really get off the ground!

Food Value, de tool waarmee lokale voedselketens echt van de grond komen

THE NETHERLANDS, PROVINCE OF GELDERLAND

Starting date - expected end date | 01.06.2017 – 31.01.2018

www.foodvalue.nl

Innovative project

All developments point in the same direction: locally and sustainably produced food will become the norm.
If the few farmers we still have can produce for the city in the neighborhood, everything will become healthier: the soil, the food, the revenue models, the fun, the landscape and the people. But, how do you organize such a local food chain?
Every city or region is different, but marketplace software plays a major role everywhere. One of the biggest obstacles to be solved is the administration and hassle that arises as soon as you start selling small crops to many different customers.
Marketplace Food Value is set up in such a way that every food group can easily organize itself in its own way. It is highly customizable.
We have tested the tool with real farmers, shops and logistics partners and summarized our learnings in three big points: A successful Food Value group has arranged the following three things well:

1. Sufficient cohesion and sufficient mass in the group. The professional parties must know each other sufficiently and must trust and want to work together and there must be enough supply and demand.
2. This cohesion and mass must be constantly monitored by a community manager.
3. Each group has a pre-agreed logistics system that becomes part of the customization of the tool.

Lead partner: The Plant (privat organisation)

Other partners Ortus Foundation, From Field to Forest Foundation, City of Arnhem and VHL university of applied sciences

Research
- VHL university of applied sciences.
- Simonis Sustainable, Msc, Cultural Anthropologist

Farmers
- Steven Koster, city farmer at Puurland
- 15 other testing farmers

Project contact: **Steven Koster** | Sickeszplein 2, 6821 HV Arnhem, NL
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Quality products in a quality landscape (Eat your view)

THE NETHERLANDS - VELUWE

Starting date - expected end date | 01.03.2017 - 01.03.2019

Innovative project

Producers of certified regional products of 'De Veluwe' in the central part of The Netherlands, face declining qualities of landscape due to industrialisation of agricultural production. This undermines the trustworthy of the certification and unique selling point of their products. In collaboration with NGO's and research institutes, a new approach is developing to improve landscape quality and strengthen the commitment of producers, residents and citizens. In the end this may result in new strategies for story-telling and oral history, to support product marketing and sales in tourism and catering.

So far, an integrated approach for farm activities, nature and landscape management, consumer involvement and marketing communication has been developed as a format for the 25 producers in the certification scheme of Echt Veluwe – Real Veluwe Produce.

Lead partner: SPN - Foundation for Regional Products the Netherlands (NGO)

Other partners
- Stichting Erkend Veluws Streekproduct (NGO)
- Van der Valk De Cantharel (SME)
- Landschapsbeheer Gelderland (NGO)

Research
- Van Hall Larenstein – University of applied science

Farmers
- Organic Goat Farm 'De Groote Stroe'
- 25 other farms and producers on 'The Veluwe'

Project contact: **René de Bruin** | Churchillweg 106 Wageningen, NL
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Re-Food - Sow "Good Supply"

Re-Food - Semina la Buona Alimentazione

ITALY - UMBRIA

Starting date - expected end date | 01.07.2017 – 01.12.2019

project

The dominant feature in post-modern consumption is growing attention to sustainability problems in agri-food products. A growing demand for health and well-being is at the heart of the consumer value system, focused on proper nutrition and health soil respect. Therefore, how it is possible to combine local products exploitation with the need to increase food health? Some productions of the past show important nutritional characteristics both as foods such as ingredients in a general; we think the key to well-being and health is into a "food reformulation" by changing growing process and supply chain of productions of the past. To get our aims we must reorganize the supply chain to enhance its nutritional aspects. We must save micronutrients that characterize the production linked to the territory and we must improve our farming system and farmers organization. How can we save local product features throught the supply chain to the kitchen? How can we better communicate these added values to stakeholder and customers? To achieve this target we have involved local farmers who, from several generation, have grown umbrian protected denomination origin agri-product like: Fagiolina del Trasimeno, Lenticchia di Castelluccio di Norcia, Farro di Monteleone di Spoleto and Patata di Colfiorito. The Farmer will experience an innovative farming system in partnership with University of Perugia, who cares about lab test from soil to products, a software development company, who designs a database to save and spread all data we will discover during project time throught our farmer network and to customers, and an farming machine building company, who will develop 2 proper machines to grow our products reducing chemical input and management crop costs. We all think that soil, health product health and human health are linked; we want to scientifically prove it. So we can design a farming system we can follow throught the time.

Lead partner: Coldiretti

Other partners

Research

- Dipartimento Scienze Farmaceutiche (Italy, University)
- Dipartimento Scienze Alimetari (Italy, University)

Farmers

- GiordanoMainò/Valle dell' oasi
- Giulio Cicchetti/Azienda Cicchetti
- Alessandro Cappelletti/Azienda Agricola
- Cooperativa della Lenticchia/Sante Coccia

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Winter Harvest: Seasonal, energy-extensive and innovative vegetable production

Weiterentwicklung – Bio-Wintergemüse

AUSTRIA

Starting date - expected end date | 01.05.2016 - 30.04.2019

Vegetables that are harvested in winter and produced with a low energy input create a new innovative market niche. This niche represents opportunities for farmers to increase their sales because of the potential extension of their existing limited product range in winter. In order to introduce winter vegetable into the local business and to raise the awareness among consumers for this topic, the generation of further expertise is required. The estimated outcomes of the work of the operational group are to find out suitable species and optimal cultivation dates for winter vegetable cultivation to ensure high quality products in the end. The project provides moreover the development of a sustainable packaging solution for the products, the analysis and optimization of the work flow towards winter vegetable production and the development of a sensory „winter vegetable language" as a way to communicate the unique status of winter vegetable to consumers. Furthermore the economic and ecological assessment oft the winter vegetable cultivation is an expected result. The farmers will finally benefit from the existence of a new lucrative market and the available expertise in the field of winter vegetable production.

Lead partner: BIO AUSTRIA

Other partners

Farmers

- Achleitner Biohof GmbH
- Biohof ADAMAH
- Biofuchs Jaklhof
- Natur fair! Dienstleistungs GmbH
- Ökohof Feldinger
- Stechabauer Biohof

Research

- School for Horticulture and Landscape Design Schönbrunn
- FIBL Austria – Research Institute of Organic Agriculture
- Agrotechnical centre Wies
- School for Holticulture Langenlois
- University of Natural Resources
- Ofi – Technology & Innovation GmbH

Innovations broker

- Food Cluster of Lower Austria

Advisory

- Renate Spraul | Eva Derndorfer

Contact: **Christa Größ** | T: +43 732 654 884250 M: +43 676 842 214250 | christa.groess@bio-austria.at

Pig farmers, development and research structures: triple performance laboratories in pig farming

Eleveurs de porcs, structures de développement et de recherche: laboratoire de la triple performance en élevage porcin

FRANCE, OCCITANIA

Starting date - expected end date | January 2016 – December 2020

Family pig farms in Occitania have strong historical and cultural characteristics in the area with a low density of pigs. The actors in the pork sector, and in particular the farmers, are engaging in large-scale multidisciplinary work on the following hypothesis: Can the resilience of pig farms be increased in a sustainable way through innovation, according to the criteria of triple performance?

The choice of partners and the method of operation allow to create brain storming of innovation transfer between farmers, land owners and researchers within a structured framework and a work schedule over 5 years. The major challenge of the project is to identify, evaluate and quantify technical, economic, and organizational innovations that increase the resilience of farms and strengthen the social acceptability of production and its link to the territory. The expected measurable aims of the project are to produce transposable references easy to distribute, in particular regarding:

- production systems economical on inputs, with low emission levels for environment,
- tools and systems for the energetic transition of pig farms,
- design and organization of resilient operating systems,
- methodological and analytical tools for a renewal of the agriculture / society contract.

Lead partner: MIDIPORC – Pork Inter-industry in Occitania

Other partners

Farmers

- A group of fifteen pig farmers
- The cooperatives APO and CAPEL PAISO

Advisory

- The Aveyron Chamber of Agriculture

Research

- L'Institut technique de la filière porcine (IFIP) – Recherche et Développement (The French Pork and Pig institute - Research and Development)

Contact: **Christophe Durand** | +33 5 61 73 77 80 | midiporc@midiporc.fr

INNOVATION IN THE CULTIVATION, PROCESSING AND MARKETING OF PRIMARY FORMS OF DWARF WHEAT AND PERSIAN WHEAT WITH INCREASED NUTRITIONAL VALUE

Innowacje w uprawie, przetwórstwie i wprowadzaniu na rynek pierwotnych form pszenic okrągłoziarnowej i perskiej o podwyższonej wartości odżywczej

POLAND – KUYAVIAN POMERANIAN/POMERANIA

Starting date - expected end date | 15.05.2018 - 31.03.2021

www.pradawneziarno.pl

Operational Group

The aim of operation is the development of new cultivation, processing and distribution technologies for primary wheat forms characterised by increased nutritional value.
Ecological and conventional tests will be carried out in the field, including tests of the primary wheat forms, verification of the applied cultivation technologies, preparation of the wheat processing technology, and testing and comparison of amino acid, gluten and protein in wheat that is grown conventionally.
The end result will be obtaining a bakery and confectionery product with certain nutritional values.

Lead partner: University of Technology and Life Sciences in Bydgoszcz (University/Research)

Other partners

SME

- Cooperative of Food Production TOSTA
- Organic Pasta factory Aleksandra Babalska

Farmers

- Anna Stępień
- Mateusz Brzozowski
- Regina Umerska
- Jacek Plotta
- Mirosław Serafinowicz

Advisory Service/Budgettary Units

- Kujawsko-Pomorski Agricultural Advisory Center in Minikowo
- Kujawsko-Pomorski Marshal Office

Project contact: **dr. hab. Małgorzata Szczepanek** | researcher/coordinator (English)
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CIRCULAR BIOECONOMY

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Opportunities for farm diversification in the circular bioeconomy

6-7 February 2019 | Vilnius, Lithuania

https://ec.europa.eu/eip/agriculture/en/event/eip-agri-workshop-opportunities-farm

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

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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Johan Sanders T: +31 610 940 858 | johan@grassa.nl

DIGESTATE_100% - Innovative integrated system for digestate fertigation

ITALY – EMILIA-ROMAGNA

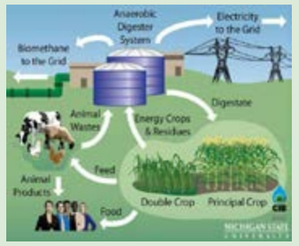
Budget allocated for execution: €139 244

Starting date - expected end date | 01.09.2018 - 31.08.2022

Operational Group

digestato100.crpa.it

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

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SCOOTER - Vegetable wastes: energetic and reuse opportunities

ITALY- EMILIA ROMAGNA

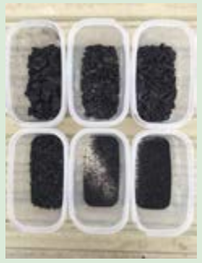
Budget allocated for execution: €180 872.68

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: **Lucrezia Lamastra**
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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

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

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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

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-Fejlesztesert Innovation
- Non-Profit Alapitvany

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

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 Knoweldge (SME)
- EPC - Eimer Projekt Consulting (SME)

Project contact: **Giorgia Noaro** | giorgia.noaro@unacoma.it
Workshop contact: **Zusepe Elias Zidda** | zusepe.zidda@euknow.eu

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

EU – IRELAND, SPAIN

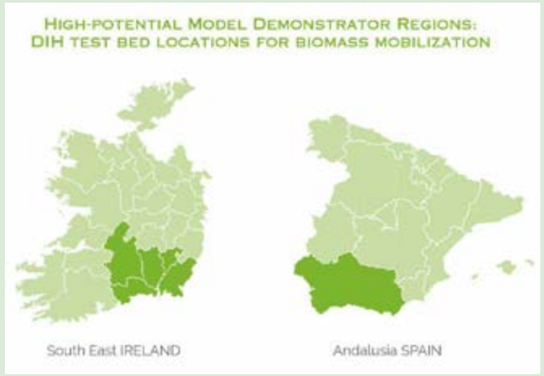
Budget allocated for execution: €999 668

Starting date - expected end date | 01.06.2018 - 31.05.2020

Projects under the Biobased Industry Joint Undertaking

ictbiochain.eu

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 develop 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)

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Workshop contact: **James Gaffey**
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BIOCIRCULAR - Bioproduction System for Circular Precision Farming

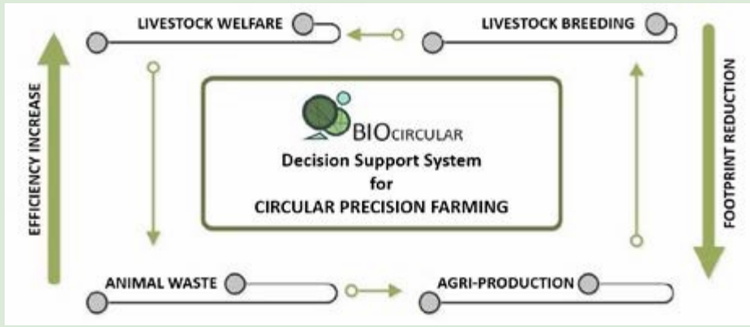
GREECE – CENTRAL MACEDONIA REGION

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: **Dionysis Bochtis** | 6th km Charilaou Thermi Rd, 57001, Thessaloniki
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Workshop contact: **Georgios Arsenos** | Po Box 393, Aristotle University, 54124, Greece
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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 Tecnologia Agropecuaria, Argentina

Farmers / SME

- Alfalfa Energia srl Società Agricola, Italy

Project & workshop contact: **Anna Trettenero**
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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

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 - Gouvernment 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)

Project contact: **T2I** | franca.bandiera@t2i.it

Workshop contact: **Ana Chambel**
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FoodOASIS - Development and optimization of an aquaponic system to increase sustainability in food production

GREECE

Budget allocated for execution: €820 000

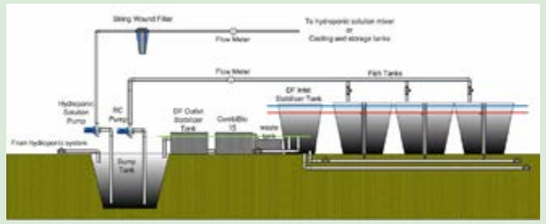
Starting date - expected end date | 09.07.2018 - 08.07.2021

Innovative project

www.foodoasis.eu

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

Project contact: **Nikolaos Katsoulas** | UTH, Fytokou Str, 38446, Volos, Greece
T: +302421093249 | nkatsoul@uth.gr

Workshop contact: **Nikolaos Katsoulas**
T: +306948575954 | nkatsoul@gmail.com

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

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 partneriba, 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 Partnershiof SME

Project & workshop contact:
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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 - 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**
T: +372 5157724 | silja.lehtpuu@gravitas.ee

Workshop contact: **Zanda Melnalksne**
T: +371 67027044 | zanda@zemniekusaeima.lv

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

Main objective: Enhance economic growth of rural mountainous Albania through the development of marketing saystems 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**

Project contact: **Janaq Male** Zayed Business Centre, 7th floor, Rr. Sulejman Delvina, Tirana e Re, Albania;
T: +355 69 20 53 480 | janaq.male@cnvp-eu.org

Workshop contact: **Ross Bull** | Makedonska 21, Apartment 37, Belgrade, Serbia
T: + 44 7809 701016 | ross.bull@cnvp-eu.org

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:

Ana Luisa Fernando
Campus de Caparica, 2829-516 Caparica, Portugal
T: +35102102948543 | ala@fct.unl.pto

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

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:

Tomáš Ignác Fénix | Pravice 188, CZ-67178 Pravice
T: +42 608978148 | office@ochsen.cz

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: **Anne Bogdanski** | Via delle Terme di Caracalla, 00153 Roma
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TaReCa

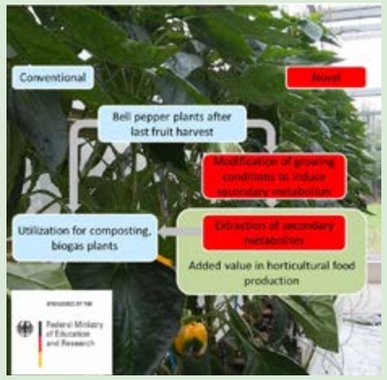
Tailoring of secondary metabolism in horticultural residuals and cascade utilisation for a resource efficient production of valuable bioactive compounds

Budget allocated for execution: €1 577 068

Starting date - end date | 01.11.2017 – 31.10.2020

Innovative project

www.fz-juelich.de



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

Project contact: **Dr. Alexandra Wormit** | RWTH Aachen University, Worringer Weg 3, 52074 Aachen
T: +49 241 80 26766 | AWormit@bio1.rwth-aachen.de

Workshop contact: **Dr. Anika Wiese-Klinkenberg**
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Dr. Laura Carraresi
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The Essence of Mink Farming

DENMARK - Aarhus

Budget allocated for execution: €55 328

Continuously improving and ongoing project

Innovative project

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 biodiesel). 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:
Peter Foged Larsen | Agro Food Park 15, DK-8200 Aarhus N
T: +45 50852927 | pfl@kopenhagenfur.com

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: **David Catita**
Rua Zeca Afonso, 27800 – 522 Beja | DCatita@edia.pt

Workshop contact: **Pedro Miranda**
T: +351 910 836 752 | pfmiranda@isq.pt

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

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: **Mª Carmen Díaz** | AGACAL
T: +34 881997377 | maria.carmen.saborido.diaz@xunta.gal

Workshop contact: **Anabela Nave** | ADVID
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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

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: **Noemi Salazar Gómez**
T: +34 658 721183 | noemi@noemisalazar.com - turtolio@turtolio.com

Workshop contact: **Felix Ajuria Otxandiano**
T: +34 619 887513 | fajuria@idiazabalgazta.eus

GOEFLUENTES - LIVESTOCK EFFLUENTS: STRATEGIC APPROACH TOWARDS AGRONOMIC AND ENERGETIC VALORISATION OF FLOWS IN THE FARMING ACTIVITY

GOEFLUENTES - Efluentes de pecuária: abordagem estratégica à valorização agronómica e energética dos fluxos gerados na atividade

PORTUGAL – NATIONAL

Starting date - expected end date | 02.01.2018 - 31.12.2020

www.meditrom.pt

Operational Group

Livestock production is concentrated in certain regions, some without enough area for landspreading valorised effluents. Therefore, in order to be competitive and comply with legal requirements, the sector should promote a circular economy, pursuing new alternatives for effluents management.

The project aims to valorise livestock effluents as a resource, focusing on the production and integrated management of the different flows generated and to optimise the use of effluents as secondary raw materials, recovering energy and nutrients, improving farm nutrient balances and promoting sustainable management.

The expected results include: i) a roadmap for effluents management, containing a technology portfolio, linked to farm characteristics and regional constraints, ii) support decision-making on centralised / decentralised solutions, iii) contribution to sustainable livestock intensification and landscape planning, to face climate change and resource scarcity.

The beneficiaries will be the animal producers and farmers, its sustainability, and the image and brand of the sector.

Lead partner: Instituto Nacional de Investigação Agrária e Veterinária - INIAV (Research Institution)

Other partners

- **Research/Teaching**: ISA Universidade de Lisboa - Universidade de Trás os Montes e Alto Douro - Universidade Évora
- **Agri Association**: Associação Portuguesa de Criadores da Raça Frísia - Associação Portuguesa dos Industriais de Alimentos Compostos para Animais - Federação Portuguesa das Associações de Suinicultores
- **Agri Enterprise**: VALORGADO - ALIRAÇÕES - CAMPOAVES - INGREDIENT ODISSEY - LEAL & SOARES
- **Adviser**: TTerra-Engenharia e Ambiente, Lda.

Project contact: **Olga Moreira** | Quinta da Fonte Boa, 2005-111 Santarém, Portugal
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POCKETFARMER – farming together for better small-scale anaerobic digestion

POCKETBOER – Samen boeren voor een betere pocketvergisting

BELGIUM – FLANDERS

Starting date - expected end date | 01.09.2017 – 31.08.2019

http://leden.inagro.be/Wie-is-Inagro/Projecten/project/15133

Operational Group

Small-scale anaerobic digestion is a technique enabling the farm to produce its own renewable energy while at the same timing using the greenhouse gas methane, so these emissions can be reduced during manure storage. In 2011-2015, small-scale biogas production was very popular in Flanders, giving rise to a little less than 100 installations, running mainly on dairy manure. Due to several types of difficulties (biomass-related, technical, legal, maintenance, lack of knowledge, …), though showing a big potential, the technique became less popular over the past few years. The main goal of 'Pocketboer' is to find solutions for owners of small-scale biogas installations in order to make their installations run better. The consortium wants to realise this by bringing together farmers, researchers, a sector organisation and a biogas laboratory to identify bottlenecks, learn from each other and give personal guidance in the search for solutions.

Lead partner: Inagro vzw (research & advice in agri- & horticulture)

Other partners

Research
- Innovatiesteunpunt (advice for innovation in agriculture)
- Hooibeekhoeve (practice & advice centre for dairy farming)

Farmers
- Boerenbond (sector organisation)
- Farmers:
  - Marc Gailliaert
  - Kris Muys
  - Dries Matthys
  - Bart Vanderstraeten
  - Paul Van der Schoot
  - Stefan Wyers

SME
- Innolab (biogas laboratory)

Project contact: **Anke De Dobbelaere** | Inagro vzw, Ieperseweg 87, 8800 Roeselare, Belgium
T: +32 51 27 33 81 | anke.dedobbelaere@inagro.be

WORKING TOGETHER ON THE KROMME RIJN NUTRIENT CYCLE

Samen werken aan nutriëntenkringloop Kromme Rijnstreek

NETHERLANDS - UTRECHT

Starting date - expected end date | 2017 - 31.12.2019

www.clm.nl

Operational Group

Together with two fruit growers and two dairy farmers from the Kromme Rijn, CLM is starting the POP project Working together on the Kromme Rijn nutrient cycle. The aim is to reduce the use of input from elsewhere, like artificial fertiliser, and to close nutrient cycles locally. During this three-year project we are looking into the possibility of using locally available nutrients in the region, as excess manure is exported by dairy farmers and fruit growers import artificial fertiliser into the region. We are starting with with a group of four entrepreneurs and intend to expand the group each year, where possible also outside agriculture.

Lead partner: CLM Onderzoek en Advies B.V. (private consultancy)

Other partners

Farmers

- Cornelis Uijttewaal, fruit grower
- Zachtfruit Schalkwijk BV, fruit grower
- Jeroen van Wijk, dairy farmer
- Peter van Rooijen, dairy farmer

Project contact: **Dirk Keuper** | Gutenbergweg 1, 4104 BA, Culemborg, the Netherlands
T: +31 34 5470 729 | dkeuper@clm.nl

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1 EIP-AGRI Seminar: "From Operational Group project to impact"
17-18 October 2018 | Spoleto, Italy
https://ec.europa.eu/eip/agriculture/event/eip-agri-seminar-operational-group-to-impact

2 EIP-AGRI Seminar: "Moving EIP-AGRI implementation forward"
10-11 May 2017 | Athens, Greece
https://ec.europa.eu/eip/agriculture/en/event/eip-agri-seminar-moving-eip-agri-implementation

3 EIP-AGRI Workshop: Operational Groups: First experiences
20-21 April 2016 | Legnaro, Italy
https://ec.europa.eu/eip/agriculture/en/event/eip-agri-workshop-operational-groups-first

LIAISON: BETTER RURAL INNOVATION: LINKING ACTORS, INSTRUMENTS AND POLICIES THROUGH NETWORKS

EUROPE

Starting date - expected end date | 01.05.2018 - 31.10.2021

liaison2020.eu

Horizon 2020 project

LIAISON aims to make a significant and meaningful contribution to optimising interactive innovation project approaches and the delivery of EU policies to speed up innovation in agriculture, forestry and rural areas. It is a true multi-actor project that is bringing together a diverse community of researchers, actors from innovation projects, initiatives and networks, decision-makers and administrators in a highly interactive work programme to jointly investigate the design and implementation of interactive innovation projects – both inside and outside of the EIP-AGRI. LIAISON will produce practice-ready methods and tools for optimising the use of the interactive innovation approach in projects funded within the framework of the EIP-AGRI and beyond. All practice and policy-orientated outputs will be subject to a validation and fine-tuning process based upon practical peer-review.

LIAISON
Optimising interactive innovation

Lead partner: HNEE - Eberswalde University for Sustainable Development, Unit: Policy and Markets in the Agri-Food Sector, Germany (Higher education and research)

Other partners

Research & higher education

- ISSK Institute (BG) - UEvora (PT) - UPisa (IT) - UExeter (UK) - AKI Institute (HU) - EV-ILVO (BE) - UMadrid (ES)

Non-profit organisations

- Groep van Brugge (NL) - TEAGASC (IRL) - Innovation Support Centre (BE) - CDR Agricultural Advisory Centre (PL)

SME

- Highclere Consulting (RO) - IDELE Institute (FR) - FiBL (CH) - Soil Association (UK)

Project contact: **Anna Maria Häring** | Schicklerstr. 5, 16225 Eberswald, Germany
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Seminar contact **Susanne v. Münchhausen**
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PIG HEALTH learning network

PIG HEALTH Lern-Netzwerk

GERMANY, NIEDERSACHSEN AND BREMEN

Starting date - expected end date | 18.05.2016 – 15.08.2019

ENHANCING THE AWARENESS AND WILLINGNESS TO IMPROVE HYGIENE AND HEALTH MANAGEMENT IN PIG PRODUCTION TO REDUCE THE USE OF ANTIBIOTICS | VERSTETIGUNG DER SENSIBILISIERUNG ZU EINER VERBESSERUNG VON HYGIENE- UND GESUNDHEITSMANAGEMENT IN DER SCHWEINEPRODUKTION ZUR REDUZIERUNG DES ANTIBIOTIKAEINSATZES

The use of antibiotics has to be reduced to a minimum within the next years. To achieve this objective, pig farmers have to conduct farm-specific measures. As the use of antibiotics depends on many different factors, pig farmers need an approach that takes into account the farm-specific challenges as well as the variety of factors influencing animal health.

In mechanical engineering the concept "learning factory" is often used to continuously improve work processes and therefore to increase productivity and reduce waste. Based on the findings and experience of the learning factory, a learning network (including pig farmers, advisors, veterinarians and scientists) will be developed to implement a continuous improvement process which focuses on reducing the use of antibiotics in pig production. To implement the learning network successfully, existing obstacles and fears of pig farmers, advisors and veterinarians need to be detected. Furthermore, a guideline will be created to ensure the transferability of the developed methods and results to other workgroups / networks.

Lead partner: Dr. Hubert Gerhardy (project coordinator)

Other partners

Farmers

- VzF GmbH Erfolg mit Schwein, Uelzen (farmer organisation); 9 pig farmers

Research and advisory

- Department für Nutztierwissenschaften, Georg-August-Universität Göttingen
- Institut für Fabrikanlagen und Logistik, Produktionstechnisches Zentrum der Leibniz Universität Hannover
- Institut für Biometrie, Epidemiologie und Informationsverarbeitung, Stiftung Tierärztliche Hochschule Hannover
- Marketing Service Gerhardy, Garbsen
- Landwirtschaftskammer Niedersachsen, Schweinegesundheitsdienst Oldenburg

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ROBUST LAMB | ROBUSTAGNO

MIDI-PYRÉNÉES, FRANCE

Starting date - expected end date | **March 2016 – December 2019**

MAKE LAMBS MORE ROBUST BY AN AGROECOLOGICAL APPROACH AIMING THE TRIPLE PERFORMANCE (ECONOMIC, ENVIRONMENTAL AND SOCIAL) | RENDRE LES AGNEAUX PLUS ROBUSTES PAR UNE APPROCHE AGROÉCOLOGIQUE VISANT LA TRIPLE PERFORMANCE (ÉCONOMIQUE, ENVIRONNEMENTALE ET SOCIALE)

Lamb mortality is an essential parameter of the sheep productivity and is one of a capital importance for farmers and their sectors. Yet, despite the acquisition of technical and scientific knowledge in the past 10 years, lamb mortality is not declining. One of the areas of progress often put forward is that of producing more robust lambs at birth. This project aims, through the creation of a network with breeders, advisors and scientists to identify transferable and reproducible innovative solutions to reduce lamb mortality by making them more robust at birth. To do so, Open Innovation methods for co-creation, crowd-innovation and cross-fertilisation will be mobilized and as well as the strong involvement of farmers in all stages of the project. The composition of the Task Group allow a multi-actor approach for seeking relevant solutions regarding lamb robustness and to ensure wide dissemination of project results.

Lead partner: Coop de France Midi-Pyrénées

Other partners

Farmer organisations

- CAPEL and UNICOR

Research

- INRA

Advisory

- Chambres d'Agriculture du Lot & Chambres d'Agriculture de l'Aveyron
- Groupement de Défense Sanitaire du Lot & Groupement de Défense Sanitaire de l'Aveyron
- Lycée Agricole de Figeac (Animapôle)

Network

- Coram (Collectif des races des Massifs)

Innovation support services

- Institut de l'Elevage

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THE BRIDE PROJECT

IRELAND

Starting date - expected end date | **01.04.2018 – 31.03.2023**

www.thebrideproject.ie

Operational Group

The project aims to restore biodiversity lost through farm intensification while also committing to maintain food production. The project is farmer-driven and it will monitor and reward 50 farmers for biodiversity improvement measures over the 5-year duration of the project.

Lead partner: **Donal Sheehan (dairy farmer)**

Other partners

- **Glanbia Ireland**
- **Birdwatch Ireland**
- **Kepak Group**
- **Bord Bia (Irish Food Board)**
- **Cork Co. Council**
- **National Biodiversity Data Centre**
- **Teagasc**
- **50 farmers**

Project contact: **Donal Sheehan** | Castlelyons, Fermoy, Co. Cork, Ireland
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ValorInVitis – Broadening and improving biodiversity for a more competitive and sustainable viticulture in the Colli Piacentini area

Ampliamento e valorizzazione della biodiversità per una gestione competitiva e sostenibile della viticoltura piacentina in un contesto di mutate condizioni climatiche e sociali

ITALY, EMILIA-ROMAGNA

Starting date - expected end date | **01.12.2016 - 30.11.2019**

This project aims at boosting sustainable competitiveness of the Colli Piacentini viticulture area by providing solutions to the following pressing issues: i) adaptation to global warming through introduction and valorization of local biotypes able to retain high total acidity under heavy summer heat load; ii) evaluation and adoption of new rootstocks tolerant to drought; iii) finding a realistic solution to the alternate bearing pattern of the native cv Croatina by promoting the use of the cross-bred cv. Ervi; iv) achieving a significant reduction in the use of pesticides by evaluating adaptability of new downy and powdery mildew resistant genotypes and v) strengthen the adoption of ICT technologies in vine protection by testing the use of the decision support system vite.net on both resistant and susceptible genotypes.

The impact of the above actions can be summarized as follows: i) product differentiation based on introduction or valorization of new genotypes; ii) promote vineyard mechanization; ii) implement new strategies for plant protection and iv) promote the culture of "working in a vineyard" targeting two main working profiles: young generations and immigrants from overseas countries.

Lead partner: Università Cattolica del Sacro Cuore (UCSC), research institute

Other partners

SME

- HORTA s.r.l. | Vinidea s.r.l.

Farmers

- Mossi Aziende Agricole Vitivinicole srl Società Agricola
- Cantina Sociale di Vicobarone Società Cooperativa Agricola
- Azienda Vitivinicola Villa Rosa di Illari Andrea e C. SS Società Agricola
- Az. Vitivinicola "I Salici" di Gazzola Claudio
- Az. Agr. Il Poggiarello S.S. Società Agricola
- Az. Agr. La Pagliara s.s.
- Tenuta Borri Azienda Agricola di Andrea Pradelli
- Az. Agr. Currado Malaspina

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Company Nitrogen Balance

Haalbaarheid van het opstellen van een bedrijfsstikstofbalans op een melkvee-bedrijf met het oog op het reduceren van ammoniakemissies

BELGIUM – FLANDERS

Starting date - expected end date | **01.09.2016 – 31.08.2019**

www.innovatiesteunpunt.be

Operational Group

As an innovation broker, Innovatiesteunpunt (ISP) has connected 3 dairy farmers, 3 research institutes and the R&D department of an animal feed company to find a solution for a challenge reported by farmers themselves: reduction of ammonia emissions as needed to remain future-proof against an ever more restrictive Flemish environmental legislation. Instead of opting for a costly 'standard' measure from a government-approved list of possibilities, the Operational Group investigated a way to decrease ammonia emission whilst also saving the dairy farmer money: precise nitrogen feeding. ISP connected relevant stakeholders to jointly develop an easy-to-use nitrogen balance dairy management tool that could be used as a controlling tool for the government, but also as a management tool for the farmer himself. Animal feed companies can use results to improve their feed. We linked up with similar projects in the Netherlands, learning about their 'Kringloopwijzer' tool. This tool proved to be useful when adapted to the specific situation in Flanders. ISP successfully submitted a project to a Flemish Innovation Programme to adapt this tool to Flemish contextual elements. Meanwhile, results have been disseminated to the dairy sector through several traditional and electronic channels.

Lead partner: Innovatiesteunpunt, the Innovation Support Centre for Agricultural and Rural Development

Other partners: AVEVE, the largest Flemish animal feed company

Research

- ILVO, the Flemish Institute for Agricultural and Fisheries Research
- Inagro, Applied agricultural research centre of the province of West Flandres
- Hooibeekhoeve, Applied Dairy Farming research centre of the province of Antwerp

Farmers

- Peeters LV
- Cis Oostvogels
- Den Hamer LV

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MAVAS - Biosensor development for detection of mastitis-causing bacteria and early identification of mastitis-infected dairy cows

MAVAS (Mastiidi varajase avastamise biosensori arendus)

ESTONIA

Starting date - expected end date | 01.09.2018 - 31.08.2022

piimaklaster.ee

Operational Group

The aim of the MAVAS project is to test and implement a novel biosensing system, which allows rapid multiplex detection of the most common mastitis-causing bacteria in freshly milked milk and identification of dairy cows suffering from preclinical and clinical mastitis, under farm conditions. As a result, we aim to develop an automated system for mastitis diagnostics on farms, allowing to make the treatment of infected cows more efficient, reduce costs and decrease the amount of antibiotics used.

Lead partner: Piimaklaster MTÜ (Estonian Dairy Cluster (EDC), NGO). The Operational Group is further abbreviated as EDC-EIP. EDC is also coordinator of a cooperation between two EIP groups (EDC-EIP and ÄLYREHU-EIP).

Other partners

Research (EDC-EIP)

- Torrosen OÜ (LLC), Estonia
- Estonian University of Life Sciences

Farmers (EDC-EIP)

- Urmas Põlluaas/Kuivajõe Farmer OÜ (LLC)
- Margus Muld/Kaiu LT OÜ (LLC)

Besides the farmers mentioned above, who are focusing on the MAVAS project, other EDC members are involved in other projects.

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DEVELOPMENT OF A DECISION SUPPORT SYSTEM FOR THE MANAGEMENT OF LEAF AND EAR DISEASES IN WINTER WHEAT

Lēmumu pieņemšanas atbalsta sistēmas izstrāde ziemas kviešu lapu un vārpu slimību ierobežošanai

LATVIA

Starting date - expected end date | 01.04.2018 - 31.03.2023

Operational Group

The main project objective is to improve winter wheat growing technologies in Latvia by enhancing effective use of existing resources and increasing profit. For this purpose, an internet-based decision-making support system for the reduction of winter wheat leaf and hoof diseases will be created. Project activities involve setting up experimental winter wheat fields, monitoring them and analysing gathered data. The partnership is testing different fertiliser and fungicide doses and usage times on different winter wheat varieties. In addition, the partnership is focusing on finding the right balance of N fertiliser use in order to reduce the effects of greenhouse gases.

Lead partner: Latvian Rural Advisory and Training Centre Ltd.
(founded in 1991 with a mission to become the leading organisation of consultancy services related to rural development in Latvia)

Other partners

Research

- Mrs. Zinta Gaile / Latvia University of Life Sciences and Technologies
- Mr. Janis Jasko / Latvian Plant Protection Research Centre Ltd.
- Mrs. Vija Strazdina / Institute of Agricultural Resources and Economics

Farmers

- Mr. Miks Karlovs / "PS Lidums" Ltd.
- Mr. Uldis Vangalis / farm "Sniedzes"

SME

- Mr. Aigars Sutka / AKPC Ltd.
- Mrs. Liga Ruza / Agricultural Service Cooperative "LATRAPS"

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SOCROSense – Soil and crop sensing technologies

SOCROSense – Bodem- en gewassensortechnologieën

BELGIUM - FLANDERS

Starting date - expected end date | **01.12.2016 - 30.11.2018**

The aim of SOCROSense is supporting pioneer farmers who have experience with the use of GPS close-sensing techniques, focused on soil and crop sensors. These pioneer farms are a mixed group of farmers, market gardeners, tree nurserymen and agriculture contractors. Together with actors from research institutes and relevant business companies this group wants to create a surplus value and develop a vision for a mid-long term for these sensors. Therefore an analysis shall be made how data of these sensors can be used in a farm and can be exchanged by third parties. Furthermore an approach on how the data flow of different sensors can be combined and the opportunities that can be reached, is investigated.

At first an inventory of GPS-sensor technologies will be made up with pro's, contra's, potential and technical requirements of commercial or nearly-commercial sensors. Also the potential of how GPS sensor technology can influence/steer the company crop management will be studied. Moreover, there is a knowledge gap on how data from different sensors can be combined to answer specific questions from pioneer farms. According to the farm type, the best combination of GPS-sensors data will be determined. This OG will also carry out a benchmark study in foreign companies with experience of GPS-sensors. For dissemination 3 demo activities will be held besides articles in specialized media.

Lead partner: Proefstation voor de Groenteteelt (research institute)

Other partners

Research

- Hooibeekhoeve (applied research)
- Instituut voor Landbouw- en Visserijonderzoek (ILVO) (research institute)
- KULeuven (university)

Farmers

- Groentenhof
- Boomkwekerij De Bruyn
- Carolus Trees

SME

- Agrometius bvba
- Hillaire van der Haeghe NV

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Planning tool for reindeer husbandry companies – technology development in reindeer herding

Planeringsverktyg for rennäringsforetag – teknikutveckling inom renskötseln

SWEDEN

Starting date - expected end date | **01.03.2017 - 30.06.2020**

The main objective of this project is to develop a reindeer husbandry planning tool that will provide reindeer herders with:

- access to the national reindeer husbandry planning database (RBP) on the field, even in remote areas that lack Internet connectivity,
- seamless integration of new and existing herd tracking solutions for real-time monitoring,
- the possibility to record and share on-field relevant information from the grazing areas with other reindeer herders and organizations.

The following innovative products will be developed in the project span:

- Communication drones: A hovering drone equipped with directional antennas will be relaying data from 3G/4G masts to the herder on the ground. Thus, significantly extend mobile networking coverage in remote regions.
- Reindeer tracking module: Additional drone module for seamless collection of reindeer positions in areas lacking connectivity infrastructure.
- Reindeer herding mobile app: An app for Apple, Android and Windows mobile platforms that will integrate GPS tracking, national reindeer husbandry planning database (RBP) and reindeer herders' private records from the field.

Lead partner

Dalvvadis Economic Association, lokkmokk, Sweden

Other partners

Reindeer husbandry companies involved in testing and development

- Twenty groups of reindeer herders involved in testing, using reindeers fitted with GPS-collars
- One reindeer herder from each Sami village involved, focused on RBP (reindeer husbandry planning database) functionality issues, user interface etc.
- Four reindeer herders trained as communication drone pilots
- One reindeer herder trained as technical support / service for communication drones

Population Management | Populationsmanagement

SCHLESWIG-HOLSTEIN, GERMANY

Starting date - expected end date | **01.07.2015 - 30.06.2018**

Small and local populations of old breeds of domestic animals should be preserved in order to ensure long-term genetic diversity. The innovation project works together with farmers and the breeders' organizations, scientist to find solutions for small populations, such as for inbreeding management, influence of foreign blood in Angeln and Red Pied Cattle, use of fresh semen in Angeln Saddleback pigs and developed a mating tool especially for small populations.

© L.Iwon, Arche Warder, Angler Rind

Lead partner: Arche Warder Zentrum für alte Haus- und Nutztierrassen e.V.,

Other partners

Farmers

- Karl Dieter Fischer
- Hardy Marienfeld
- Eike Fandrey
- Prof. Dr. Poggensee
- Susanne und Andreas Krause

Research

- Christian-Albrechts, University Kiel

Associations

- Rinderzucht Schleswig-Holstein eG RSH
- Förderverein Angler Sattelschwein e.V.
- Landesverband Schleswig-Holsteinischer Schaf- und Ziegenzüchter e.V.
- Verein Schleswiger Pferdezüchter e.V.

Advisory

- Dr. Weigend, Friedrich Löffler Institut
- Prof. Dr. Eildert Groeneveld, Friedrich Löffler Institut
- Karola Stier, Gesellschaft zur Erhaltung alter und gefährdeter Haustierrassen e. V. (GEH)

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Control of *Monilinia* spp. in stone fruit: use of prediction models and cultural practices

Control de *Monilinia* spp. en fruita de pinyol: utilització de models de predicció i mètodes profilàctics

SPAIN, CATALONIA

Starting date - expected end date | **November 2015 – September 2017**

Brown rot caused by *Monilinia* spp. is the main disease that affects stone fruit in our area. It causes serious losses in the field and post-harvest, and it creates marketing difficulties. One feature of this disease is that at harvest, in the field, fruit may not show symptoms, and the infection usually develops when the fruit reaches the distribution channels and / or the final consumer. This causes significant production and economic losses for packinghouses. Currently, the main strategy to control *Monilinia* spp. is based on field programmes with application of synthetic fungicides. However, the massive and continuous use of synthetic chemical fungicides has induced problems such as the emergence of resistant fungal strains. This project aims to improve brown rot control in stone fruit through the use of predictive models, in order to apply treatments only when needed, to select the best products to apply depending on the stage of the fruit and on the existence of *Monilinia* spp. resistant strains, and to assess the feasibility of introducing cultural practices combined with the applied fungicide programme. With this information, stone fruit producers will have tools at their disposal to improve the management and control of this disease. Moreover, they will have a good practice guide indicating the best management strategy.

Lead partner

- ACTEL SCCL – Stone fruit producer and packinghouse

Other partners

Project coordinator and research

- IRTA (Institute of Agriculture and Food Research and Technology)

Stone fruit producers and packinghouses

- Fruits de Ponent SCCL
- Agropecuaria i SC Soses SCCL

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HENNOVATION – PRACTICE-LED INNOVATION SUPPORTED BY SCIENCE AND MARKET-DRIVEN ACTORS IN THE LAYING HEN AND OTHER LIVESTOCK SECTORS

United Kingdom, Sweden, Netherlands, Spain & Czech Republic

Starting date - end date | 01.01.2015 - 31.08.2017

www.hennovation.eu

Horizon 2020 Thematic Network

This EU-funded Horizon 2020 thematic network aimed to explore the potential value of multi-actor practice-led innovation networks within the laying hen industry in 5 countries. During the 32-month project the team facilitated 19 networks at different levels of the production chain, including farmers, processors, veterinarians, technical advisers, market representatives and researchers. The networks worked collaboratively to find solutions for important husbandry challenges and make their business more efficient and sustainable. Facilitators supported the networks through 6 critical steps: problem identification, generation of ideas, planning, small-scale trials, implementation and sharing with others. In addition to helping source-relevant technical information, the project also provided some financial support for prototype and testing costs.

The project has demonstrated that this practice-led approach can be a major stimulus for innovation with several networks generating novel ideas and testing them in their commercial context. The research work carried out as part of the project revealed that successful multi-actor, practice-led innovation networks depend upon the following key factors: active participation from relevant actors, professional facilitation, moderate resource support and access to relevant expertise.
A video about the practice-led innovation process can be found here. The technical resources developed through the project, including extension guidelines, can be found on the website.

Lead partner: Bristol Veterinary School, University of Bristol, United Kingdom

Other partners

- Wageningen UR Livestock Research, The Netherlands
- University of Exeter, College of Life and Environmental Sciences, UK
- Universitat Autònoma de Barcelona, School of Veterinary Science, Spain
- ADAS UK Ltd, Pendeford House, Wolverhampton, United Kingdom
- University of Veterinary and Pharmaceutical Sciences Brno, Department of Veterinary Public Health & Animal Welfare, Czech Republic
- Swedish University of Agricultural Sciences, Department of Animal Environment and Health, Sweden

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ALTERNATIVE TO TRADITIONAL POST-HARVEST FUNGICIDE TREATMENTS APPLIED IN APPLE AND PEAR PRODUCTION

Alternativa als tractaments fungicides tradicionals aplicats en postcollita de poma i pera

SPAIN – CATALUNYA

Starting date - end date | 01.11.2015 - 30.09.2017

es.pomadegirona.cat

Operational Group

Apples and pears are treated with fungicides for long-term storage using a drench system. This application may increase pesticide residues in fruit, it makes logistics in the packing house more complex and generates wastewater which is difficult to manage. The project was set to search for alternatives to the fungicide treatments while maintaining low post-harvest losses due to diseases. Main results found indicate:
a/ for early harvest date cultivars and for short term storage, the fungicide treatments could be completely avoided without any risk of post-harvest losses, as long as room chambers are maintained in adequate conditions
b/ the application of certain active ingredients before harvest show a good control of post-harvest diseases avoiding any treatment after harvest.

Lead partner: Associació de Defensa Vegetal Fruticultors de Girona (Growers association for crop protection)

Other partners

Research
- Institut de Recerca i Tecnologia Agroalimentàries (research institution)
- Fundació Mas Badia (research institution)

Farmers
- SAT Fruita d'Alcarràs num. 1268 CAT

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SOYA IN KUYAVIAN-POMERANIAN AND GREATER POLAND VOIVODESHIPS - INNOVATIVE SOLUTIONS IN CULTIVATION AND FEEDING FOR FARMS

Soja w województwach kujawsko-pomorskim i wielkopolskim - innowacyjne rozwiązania w uprawie i skarmianiu dla gospodarstw rolnych

POLAND – KUYAVIAN POMERANIAN/GREATER POLAND

Starting date - expected end date | 15.05.2018 - 31.12.2019

www.mojasoja.eu

Operational Group

Currently, the basic source of feed vegetable protein is imported genetically modified soy meal, which Poland imports about 1.8 million tons of annually, covering 70% of the domestic demand for protein raw materials.Therefore, the farmer faces the market challenges related to the quality of food supplies consumed, including restrictions on products containing GMOs. This project aims to make soya one of the strategic plants grown in the Kujawsko-Pomorskie and Wielkopolskie voivodeships, as a result leading to a partial reduction in import of GMO soy meal at the expense of domestic production.
The main objective of the operation is to increase income in agricultural holdings by presenting to the farmer a comprehensive methodology of cultivation and fertilisation of soybean varieties, selected in the course of field research and characterised by the highest yield and its adaptation to feeding through economic extrusion in farms.
One of the results of the operation will be an economical analysis of the profitability of using and extruding soybeans from Polish cultivation.

Lead partner: P.W. Lechpol Szubin (Entrepreneurship)

Other partners

Research

- University of Technology and Life Sciences in Bydgoszcz

Farmers

- Janusz Cieszyński - Adam Styczyński - Maciej Jazek - Aleksander Tadych - Ryszard Błaszkiewicz

Advisory Service

- Kujawsko-Pomorski Agricultural Advisory Center in Minikowo

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Aleksander Bomberski - innovation broker (EN) |T: +48 693 021 602 | aleksander.bomberski@kpodr.pl

Zero herbicides in Mediterranean perennial crops

Zéro herbicides en cultures pérennes méditerranéennes

LANGUEDOC-ROUSSILLON, FRANCE

Starting date - expected end date | March 2015 – December 2018

The project "Zero herbicides in Mediterranean perennial crops" aims to evaluate and promote innovative soil management techniques without herbicides in perennial crops, as vineyards and orchards. Because of water pollution, herbicides are on the spot, and farmers are looking for new ways of working without herbicides. Today, the only effective way to do so is mechanical weed control by tillage, which is time and fuel consuming, aggressive for both soil and roots, increasing soil erosion... Our project is focused on an innovative weed management system, using under row cover crops instead of tillage. Cover crops naturally protect the soil, needs less interventions and therefore save time and money for farmers. 8 experimental fields were set in the French Mediterranean area in order to evaluate the agronomic impact of the cover crop on grapevines or trees, and to screen cover crop species that could fit for a under row setting. In addition, 2 demonstration sites are planned to promote the results to farmers.

Lead partner

French Wine and Vine Institute (IFV)

Other partners

Advisory / applied research

- Chambres d'Agriculture de l'Hérault, du Gard, de l'Aude et des Pyrénées-Orientales
- SERFEL
- CEHM

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AUSTRIA

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BELGIUM

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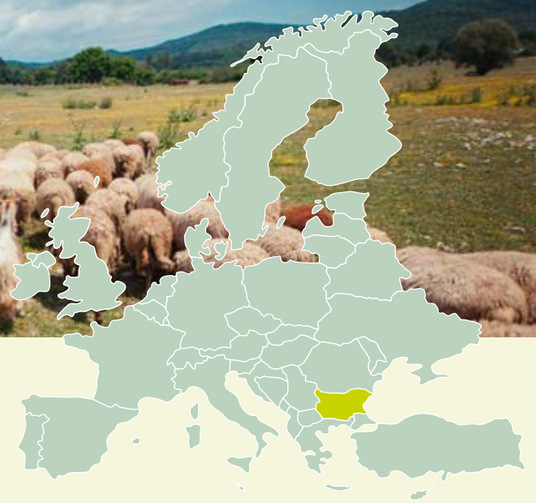

BULGARIA

No innovative projects from Bulgaria have been presented at EIP-AGRI events. Please have a look at the EIP-AGRI project database to learn about innovative projects in this country.

CROATIA

No innovative projects from Croatia have been presented at EIP-AGRI events. Please have a look at the EIP-AGRI project database to learn about innovative projects in this country.

CYPRUS

No innovative projects from Cyprus have been presented at EIP-AGRI events. Please have a look at the EIP-AGRI project database to learn about innovative projects in this country.

CZECH REPUBLIC

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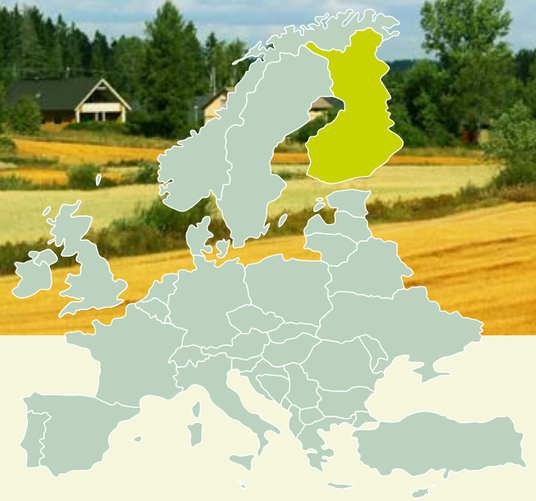

FINLAND

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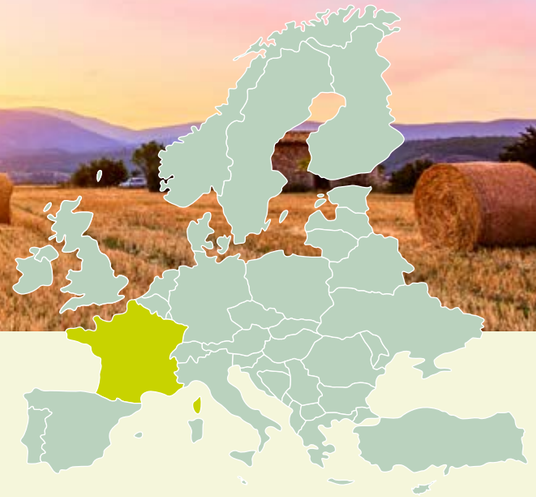

FRANCE

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FRANCE

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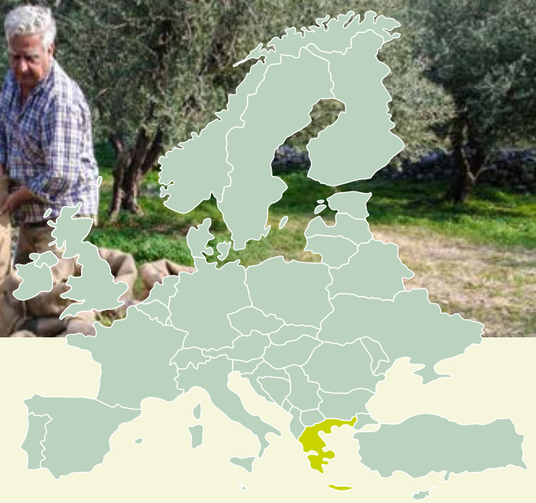
GREECE



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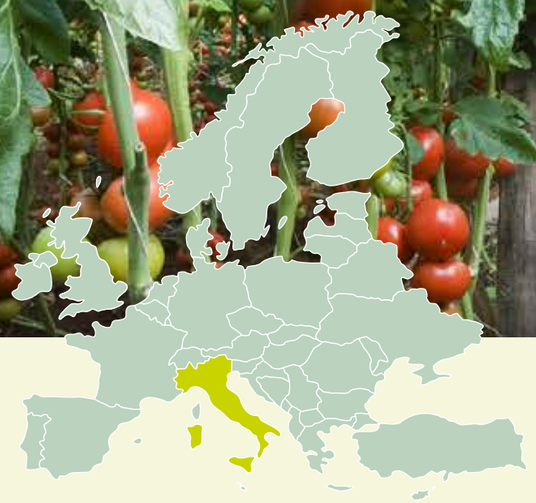

ITALY

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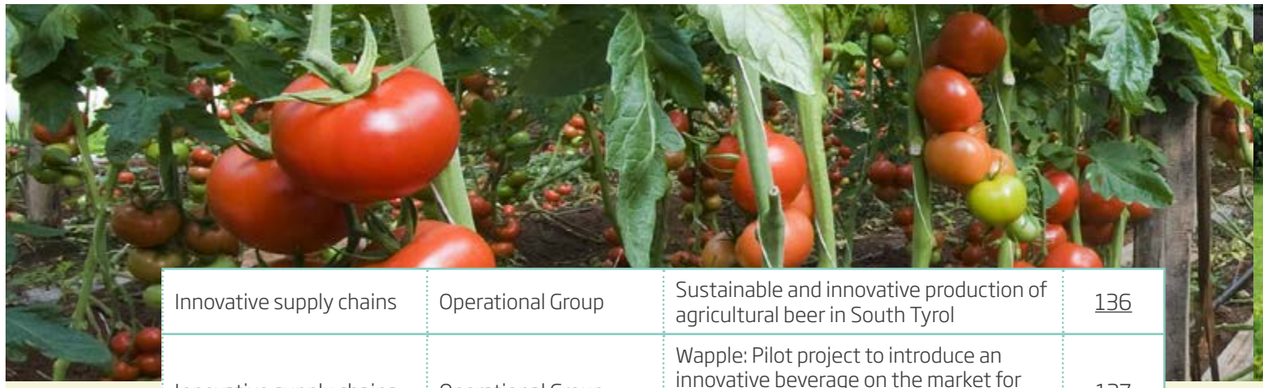

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LUXEMBOURG

No innovative projects from Luxembourg have been presented at EIP-AGRI events. Please have a look at the EIP-AGRI project database to learn about innovative projects in this country.

MALTA

No innovative projects from Malta have been presented at EIP-AGRI events. Please have a look at the EIP-AGRI project database to learn about innovative projects in this country.

POLAND

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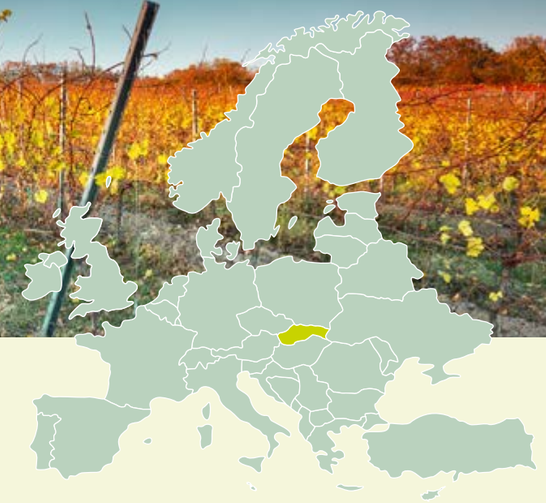
ROMANIA

No innovative projects from Romania have been presented at EIP-AGRI events. Please have a look at the EIP-AGRI project database to learn about innovative projects in this country.

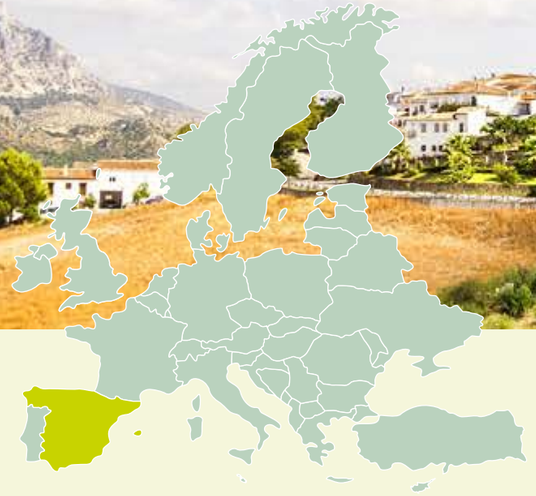


SLOVAKIA

No innovative projects from Slovakia have been presented at EIP-AGRI events. Please have a look at the EIP-AGRI project database to learn about innovative projects in this country.

SLOVENIA

No innovative projects from Slovenia have been presented at EIP-AGRI events. Please have a look at the EIP-AGRI project database to learn about innovative projects in this country.



SPAIN

WATER & AGRICULTURE

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EIP-AGRI Workshop: Operational Groups: First experiences	20-21 April 2016	Legnaro, Italy
https://ec.europa.eu/eip/agriculture/en/event/eip-agri-workshop-operational-groups-first		
EIP-AGRI Seminar: "Moving EIP-AGRI implementation forward"	10-11 May 2017	Athens, Greece
https://ec.europa.eu/eip/agriculture/en/event/eip-agri-seminar-moving-eip-agri-implementation		
EIP-AGRI workshop 'Organic is Operational'	14-15 June 2017	Hamburg, Germany
https://ec.europa.eu/eip/agriculture/en/event/eip-agri-workshop-organic-operational		
EIP-AGRI workshop 'Innovation in the supply chain: creating value together'	6-7 February 2018	Lyon, France
https://ec.europa.eu/eip/agriculture/event/eip-agri-workshop-innovation-supply-chain-creating		
EIP-AGRI workshop 'Connecting innovative projects: water & agriculture'	30 - 31 May 2018	Almeria, Spain
https://ec.europa.eu/eip/agriculture/event/eip-agri-workshop-connecting-innovative-projects		
EIP-AGRI Seminar: "From Operational Group project to impact"	17-18 October 2018	Spoleto, Italy
https://ec.europa.eu/eip/agriculture/event/eip-agri-seminar-operational-group-to-impact		
EIP-AGRI workshop: "Opportunities for farm diversification in the circular bioeconomy"	6-7 February 2019	Vilnius, Lithuania
https://ec.europa.eu/eip/agriculture/en/event/eip-agri-workshop-opportunities-farm		

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