



# REGIONAL CLUSTER IBERIA



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## REGIONAL CLUSTER IBERIA

Iberian Cluster - **joining forces for a real digitisation of the agrifood sector in Spain and Portugal.**

The Regional Cluster Iberia aims at fostering a digitisation network open to all agrifood businesses, creating an ecosystem where innovation can anticipate the sector's needs.

**Iberia Regional Cluster: a space of cooperation and common learning**

### Who are we ?

**The greatest Mediterranean agrifood community:** with a high crop diversity (fruits and vegetables, berries, olive trees, extensive livestock ...). We represent the 11% of the EU's farms with 1,229,420 agricultural holdings, the 26% of the EU's agro-industries with 37,540 companies and the 12% of the EU's territory.

**A cluster of contrasts** with a highly-technified agriculture, environmentally sustainable and more efficient in the use of resources.

**Irrigation** is a key factor for production development, therefore technologies are focused on it.

**A large technological community linked to the agrifood sector:** 21 Digital Innovation Hubs (DIHs), more than 60 competence centres, ICT companies and start-ups.



## Cluster mission

Ensure an innovative and sustainable-in-time **ecosystem within the agrotech community**, able to develop new projects and to become a demonstration lab.

To achieve this objective the Regional Cluster is based on three pillars:

- **3 Flagship Innovation Experiments (FIE)** as a tool to promote **new agrotechnological business models**.
- **Young farmers** as main actors of this network, taking into account their digital capacities.
- **Open calls** planned within the project representing a great **opportunity** for agrotechnological innovation through Digital Innovation Hubs.



## Added value

The Regional Cluster is a **public-private network** with a strong focus on new policies to reinforce the agrifood sector digitisation, integrated with the Smart Specialisation Strategy by means of the S3P Agrifood on Traceability and Big Data in the agrifood value chain thematic partnership.

## Vision

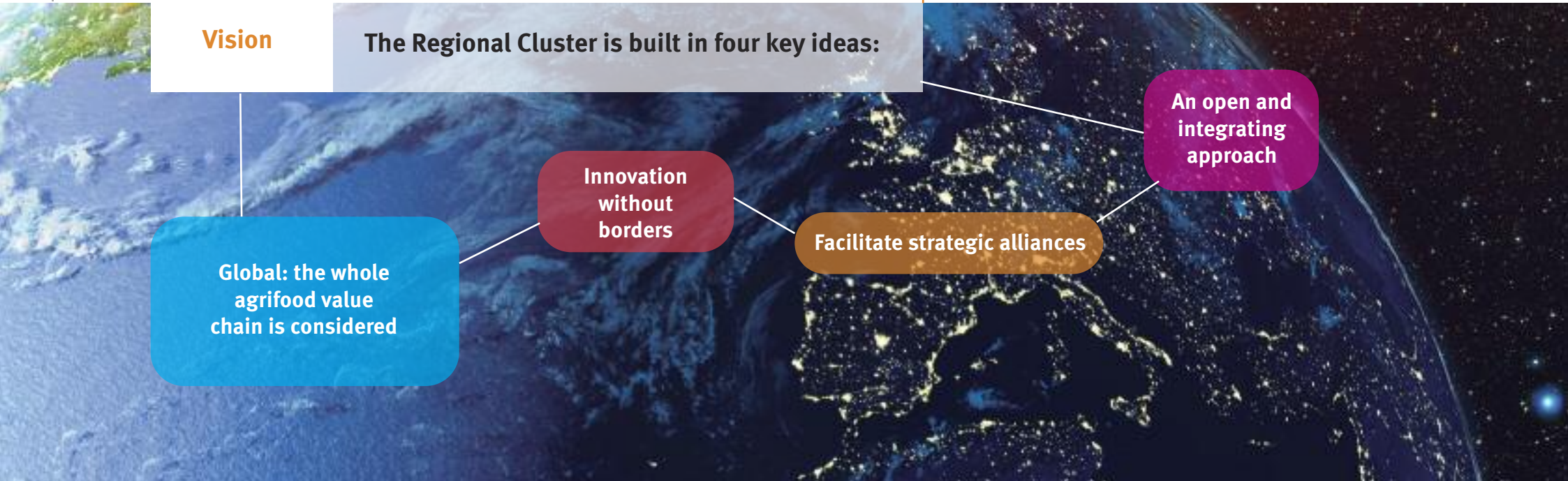
The Regional Cluster is built in four key ideas:

Global: the whole  
agrifood value  
chain is considered

Innovation  
without  
borders

Facilitate strategic alliances

An open and  
integrating  
approach



## Challenges

- To integrate the new challenges and this expertise in the **public policies**
- To involve the **highest number of farmers and agroindustry**
- To bring the technological services **closer to the agrifood sector**
- To develop **new agrifood-ict capacities**
- **To internationalize** the DIH's services
- To close technologies to **poorer areas and small farmers**
- To promote **digital culture** and training amongst farmers

## The Regional Cluster Iberia team and its role in the SmartAgriHubs project

The Regional Cluster Iberia is led by the **Regional Ministry of Agriculture, Livestock, Fisheries and Sustainable Development of Andalusia**<sup>1</sup> (Spain) and co-led by Consulai, an innovative agroindustry consulting company settled in Portugal.

The leader is the regional public body (Andalusia) responsible for policy development and planning for agriculture, livestock, fisheries and sustainable development. Is also the leader of the Thematic Partnership on Traceability and Big Data in the agrifood value chain under the S3 Agri-food European Platform. The Regional Ministry of Agriculture is currently participating in different Horizon 2020 projects linked to the agrifood sector digitisation. Besides, it is in charge of the innovation strategy for the agrifood sector in the region and of the development of the Operational Groups regional programme.

<sup>1</sup> <https://juntadeandalucia.es/organismos/agriculturapescajdesarrollorural.html>

<sup>2</sup> [www.consulai.com](http://www.consulai.com)

On the other hand, **Consulai**<sup>2</sup> is the largest advisory company in Portugal in the agrifood sector. It has developed projects in several areas, such as innovation, strategy, investments and sustainability. Its workforce is formed by 30 full time advisors and counts on more than 1.000 active clients, most of them farmers & food processing units. Consulai is currently involved in 20 Operational Groups and 5 H2020 projects – administration / communication / dissemination / exploitation.

Concerning the Regional Cluster Iberia role, it is to be the **contact point** in the territory for Flagship Innovation Experiments and Digital Innovation Hubs with the SmartAgriHubs project.

It is also in charge of the identification and integration of Digital Innovation Hubs in the cluster, as the project foresees to add new ones to the network in order to get involved around 400.

Besides, the Regional Cluster is in charge of facilitating the development of the different activities of the SmartAgriHubs project.

### Regional Cluster Leader Contact details

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### Regional Cluster Co-leader Contact details

#### Mr. Luís Mira da Silva

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## Flagship Innovation Experiments (FIEs)

Flagship Innovation Experiments bring together technology providers and farming sector to trigger and boost the amount of digital solutions for a more sustainable food production. The Flagship Innovation Experiments are directly embedded in the project and executed by SmartAgriHubs consortium partners.

FIEs will be conducted through Digital Innovation Hubs (DIHs), enabling them access to the latest knowledge, expertise, technology, and business services while testing and experimenting digital innovations relevant to the experiment.






# Sensing and Artificial Intelligence Algorithms for early detection of crop disease symptoms



## 1. GENERAL FLAGSHIP INNOVATION EXPERIMENT DESCRIPTION

|  | Flagship Innovation Experiment name  | Flagship Innovation Experiment coordinator(s) and e-mail                       |
|---|--|--|
|   | SAIA – Sensing and Artificial Intelligence Algorithms for early detection of crop disease symptoms | Pedro Petiz Pedro.petiz@tekever.com<br>Ricardo Arjona ricardo.arjona@ec2ce.com |

| FLAGSHIP INNOVATION EXPERIMENT GENERAL INFORMATION |   |
|--|---|
| FIE general goal                                   | SAIA FIE aims at exploring the usability and taking advantage of some key technologies for crops observation and algorithms to assist and help in the early detection of pests and, thus to reduce the negative impact in production and environment.   |
| FIE short description                              | SAIA FIE aims the exploitation of remote sensors and development of artificial intelligence algorithms to identify diseases symptoms, create risk maps and establish data patterns of symptoms. Therefore, it is proposed to develop a set of solutions to gather and analyse data for the development of early detection, identification and characterization of plant pests and environmental conditions favourable for their appearance in relevant crops in the Iberian region.   |
| FIE specific objectives                            | <p>The main objectives of the IE are the following:</p> <ul style="list-style-type: none"> <li>- Use sensors to collect crops data</li> <li>- Explore crops pests detection algorithms</li> <li>- Evaluate the sensors / algorithms performance according to pest conditions</li> <li>- Establish a service exploitation plan</li> <li>- Contribute to support IPM AI based to reduce the use of pesticides in agriculture</li> <li>- Evaluate the level of technological acceptance by End-User farmers</li> </ul>   |
| FIE specific challenges                            | <p>The main challenges of the IE can be of the following nature:</p> <ul style="list-style-type: none"> <li>- Technological: To explore/use of remote sensing and artificial intelligence to early identification of crop diseases and pests' symptoms.</li> <li>- Data volume: The number of samples required to successfully obtain the necessary data to establish an automatic algorithm is very high. The challenge is to have an algorithm that will require a low number of samples.</li> <li>- Representativeness: the data acquired will be based on a few campaigns and the representativeness could be limited</li> <li>- Variability: Different diseases present similar symptoms, as well as the symptoms of a disease, are different according to the bio stage of the plant and season of the year. The challenge is to have a reduced number of algorithms to handle the different conditions of the crops.</li> <li>- Operational: Establish a solution that presents an operational performance that can be used in large crops, especially in cases where the quick and fast coverage of large areas is a key point to ensure early detection of contamination.</li> <li>- Service: The technology and results obtained with drones and other new solutions should be cost effective and easy to use in order to be adopted.</li> <li>- Service: The use of AI algorithms recommendations must be accepted by the legislation as a threshold to authorise the use of pesticides</li> </ul> |

### FLAGSHIP INNOVATION EXPERIMENT CHARACTERISTICS

|   |  |                     |
|---|--|---------------------|
| <b>FIE sector(s)</b>                              | Agro/phytosanitary: Olive trees; vineyards; Cork trees |                     |
| <b>Technology Readiness Level (TRL)</b>           | <b>Current value</b>                                   | <b>Target value</b> |
|   | 4  | 5 / 6               |
| <b>Geographical coverage</b>                      | IBERIA   |                     |
| <b>Area(s) / facility(ies) of experimentation</b> | Field  |                     |
| <b>Agrifood Subsector</b>                         | Wine production / cork production / olive oil          |                     |

### 2. FLAGSHIP INNOVATION EXPERIMENT PARTICIPANTS INVOLVED

|                          |
|--------------------------|
| TEKEVER AS (SME)         |
| EC2CE (SME)              |
| Monet (SME)              |
| UMA (RTD)                |
| UCO (RTD)                |
| FARM2030 (DIH)           |
| COTR (DIH)               |
| Andalucía Agrotech (DIH) |
| Galicia (DIH)            |
| INIAV (RTD)              |
| AGACAL (RTD)             |


### 3. FLAGSHIP INNOVATION EXPERIMENT EXECUTION PLAN

The execution plan contains 7 activities which are:

1. FIE management
2. Develop the vineyard FIE experiment, technology, performing data gathering and analysis in the lab, and finally demonstrate its results.
3. Develop the Cork Tree FIE experiment, technology, and demo, performing data gathering and analysis in the lab, and finally demonstrate its results.
4. Develop the Olive Oil FIE experiment, technology, and demo, performing data gathering and analysis in the lab, and finally demonstrate its results.
5. Develop the End-User surveys based on the perception of the impact in End-users activity, its likelihood of adoption and derive key enablers and data in supporting the business models in the exploitation of the develop solutions.
6. FIE Communication and Dissemination



## 1. GENERAL FLAGSHIP INNOVATION EXPERIMENT DESCRIPTION

|  | Flagship Innovation Experiment name | Flagship Innovation Experiment coordinator(s) and e-mail |
|---|-------------------------------------|--|
|   | <i>Iberian Irrigation Portal</i>    | Rafael Angel Ferrer Martínez – rferrer@hispace.com       |

| FLAGSHIP INNOVATION EXPERIMENT GENERAL INFORMATION |   |
|--|---|
| <b>FIE general goal</b>                            | <p>Providing support to farmers in Portugal and Spain to:</p> <ul style="list-style-type: none"> <li>- Optimal management of irrigation from a technical, economic and environmental point of view.</li> <li>- Optimization of the water consumption</li> <li>- Rationalization of the exploitation and conservation costs</li> <li>- Supporting to irrigation decision using usable IT tool.</li> </ul>  |
| <b>FIE short description</b>                       | Deployment of an irrigation WEB portal in two demosites, one in Portugal and the other one in Spain, in order to define a virtual irrigation advisory board.  |
| <b>FIE specific objectives</b>                     | <ul style="list-style-type: none"> <li>- Create an experimental 'IberianIrrigation Portal' providing enhanced irrigation support services for farmers.</li> <li>- Define and trial a low-cost information infrastructure for the effective operation of the 'Iberian Irrigation Portal' services.</li> <li>- Validate and demonstrate the 'Iberian Irrigation Portal' solution in one Portuguese region (that's not in the Alqueva region) and one Spanish region.</li> </ul>   |
| <b>FIE specific challenges</b>                     | <ul style="list-style-type: none"> <li>- Scale-up the Portal digital services for effective and sustainable irrigation for agriculture enabling a better use of water and productivity of the crops, to the farmer for farmers out of the Alqueva region.</li> <li>- Define a low-cost information infrastructure for sufficient and effective data provision to operate the irrigation support services to farmers at large.</li> <li>- Create irrigation management models for additional crops/regions of experimentation that is not in the Alentejo/Alqueva region.</li> </ul> |

### FLAGSHIP INNOVATION EXPERIMENT CHARACTERISTICS

|   |                                      |                     |
|---|--------------------------------------|---------------------|
| <b>FIE sector(s)</b>                              | Agribusiness                         |                     |
| <b>Technology Readiness Level (TRL)</b>           | <b>Current value</b>                 | <b>Target value</b> |
|   | 5                                    | 7                   |
| <b>Geographical coverage</b>                      | Portugal and Spain                   |                     |
| <b>Area(s) / facility(ies) of experimentation</b> | Selected farms in Portugal and Spain |                     |
| <b>Agrifood Subsector</b>                         | Crops                                |                     |

### 2. FLAGSHIP INNOVATION EXPERIMENT PARTICIPANTS INVOLVED

|  |
|--|
| HISPATEC - SME                                       |
| EDIA – SME   |
| UNPARALLEL   |
| FENACORE – Irrigators association                    |
| ABOVIGIA - Associação Beneficiários da Obra da Vigia |
| COTR   |
| Andalucía Agrotech DIH                               |
| IFAPA  |
| UNPARALLEL   |

### 3. FLAGSHIP INNOVATION EXPERIMENT EXECUTION PLAN

The execution plan contains 7 activities which are:

1. Coordination and management of the activities execution
2. Identification of two farms for being the demosites. One in Portugal and the other one in Spain. These two demosites will be farms with irrigation systems that could be improved and optimized.
3. Analysis of the existing technologies regarding irrigation in the selected demosites and the possibilities of the usage of each one. Once identified, analysis of the usage possibilities of each one regarding the objectives of this FIE.
4. Design of the IT architecture and configuration of the irrigation WEB portal, based on the design, in the selected demosites. Once designed, this activity will configure the IT Platform with the irrigation portal for the end-users.
5. Deployment of the IT Platform in each demosite. Once done, the Irrigation Portal will be ready to go.
6. Calibration of the irrigation models on site and the corresponding user interfaces.
7. The validation of the irrigation models will be done in parallel with the calibration, since the end-users will be testing in realtime, debugging and validating the results of these models.

## 1. GENERAL FLAGSHIP INNOVATION EXPERIMENT DESCRIPTION

| Flagship Innovation Experiment name    | Flagship Innovation Experiment coordinator(s) and e-mail   |
|--|--|
| <i>Data-Intensive Dairy Production</i> | Manuel López Luaces: manuel.lopez.luaces@xunta.gal<br>José Antonio Portos Mouriño: jose.antonio.portos.mourino@xunta.gal |

| FLAGSHIP INNOVATION EXPERIMENT GENERAL INFORMATION |   |
|--|---|
| <b>FIE general goal</b>                            | Our FIE plans to effect improvements in different steps of the early dairy production chain by exploiting the benefits that digital/data technologies bring. These improvements will become part of the product and service offerings of the 5 SMEs participating in the FIE, that provide such products and services to end-users (farmers and cooperatives). Such end-users are members of the Galician DIH for Agrifood, and their participation will be guaranteed when required through the hub's activities.  |
| <b>FIE short description</b>                       | The dairy sector is of high importance in the Galician region, the 7th largest milk producer in the EU. The dairy sector is undergoing a progressive modernization process, in which digital technologies are becoming more and more important. The lack of data (and often, quality data) hinders the productivity of dairy farms. Our FIE seeks a data-aided optimization of dairy production in an integral way, considering from forage growing, feed mixture, in-stable herd and operations management and overall farm management. Optimization drivers are resource efficiency, milk quality, animal welfare, environmental impact, quality of life of the farmer, and overall farming business sustainability. An intelligent use and integration of multiple data sources, machinery, models and analytics, the know-how of experts, and market knowledge will allow the involved SMEs to generate, test and demonstrate a number of improved products and services that will improve their market position and improve that of their customers. |
| <b>FIE specific objectives</b>                     | <ul style="list-style-type: none"> <li>- Improve the efficiency in the utilization of resources for forage production, optimization of the use of own resources of agricultural holdings combining data from multiple sources</li> <li>- Achieve a better performance in the animal production through the optimization of the grow conditions and the quality of the data available.</li> <li>- Increase the sustainability of the process: Increase feed precision intake in dairy stables, improve the use of natural resources</li> <li>- Improvement in the monitoring and management of in-stable operations and conditions</li> <li>- Improved decision making by integrating multiple data sources in the resource planning system</li> <li>- Test and demonstrate the readiness of the improved products and services in real conditions and specific sites</li> </ul>   |
| <b>FIE specific challenges</b>                     | <p>Improve the efficiency in the use of resources through proper exploitation of the data available along the indoor/outdoor dairy production cycle (including pasture, fodder, animal health, milk composition), thus contributing to a better and more sustainable performance.</p> <p>Specific challenges:</p> <ul style="list-style-type: none"> <li>- Extracting value from data at the different stages identified above, but also in combined manner, though parametrization, joint analysis, pattern identification and translate into actionable information for decision support.</li> <li>- Successful integration of such digital knowledge into the products and service offerings of the SMEs involved in the FIE.</li> <li>- Making this technology affordable to small-medium sized farms, such as those that are more common in the Galician region.</li> </ul>  |

### FLAGSHIP INNOVATION EXPERIMENT CHARACTERISTICS

|   |   |                     |
|---|---|---------------------|
| <b>FIE sector(s)</b>                              | Livestock: Dairy farming<br>Arable farming: forage production for dairy feeding   |                     |
| <b>Technology Readiness Level (TRL)</b>           | <b>Current value</b>  | <b>Target value</b> |
|   | 5   | 7                   |
| <b>Geographical coverage</b>                      | Galician region (Spain)   |                     |
| <b>Area(s) / facility(ies) of experimentation</b> | CIAM – Mabegondo experimental farm complex, provided by AGACAL.<br>“Campus Terra” experimental farm, provided by USC.<br>End-user dairy farms |                     |
| <b>Agrifood Subsector</b>                         | Livestock: dairy cows<br>Crops (for dairy forage): corn, sorghum, forage legumes  |                     |

### 2. FLAGSHIP INNOVATION EXPERIMENT PARTICIPANTS INVOLVED

|   |
|---|
| AGACAL (RTD)  |
| SERAGRO (SME)   |
| ELMEGA (SME)  |
| MONET (SME)   |
| ALLTECH Spain (SME)                                     |
| 3eData (SME)  |
| USC (RTD)   |
| Gradient (RTD)  |
| Digital Innovation Hub for the Galician Agrifood Sector |
| AGACAL  |
| USC   |
| Gradient  |

### 3. FLAGSHIP INNOVATION EXPERIMENT EXECUTION PLAN

The execution plan contains 7 activities which are:

1. Coordination and management
2. Multispectral images and sensorization to predict yield and protein content in maize crop. This activity is focus on providing useful information to farmers to improve the decision making in crop management. The study will be carried out for crops, as maize crop, in two plots located on CIAM experimental farm.
3. Optimization of automated unifeed forage-based diets for a higher efficiency in dairy production
4. Development of a robotic prototype for remote monitoring of the activity with the following characteristics:
  - capacity of movement in the environment of a barn
  - capacity to collect environmental data (temperature, humidity, air quality)
  - capacity to collect pictures and video
  - capacity to send alarms and pictures to the barn supervisor
5. Improved farm management software with interoperability with multiple machinery vendors
6. Awareness creation and dissemination



## Digital Innovation Hubs (DIHs)

Digital Innovation Hubs are one-stop-shops that help companies to become more competitive with regard to their business/production processes, products or services using digital technologies. They are based upon technology infrastructure (competence centre) and provide access to the latest knowledge, expertise and technology to support their customers with piloting, testing and experimenting with digital innovations. DIHs also provide business and financing support to implement these innovations, if needed across the value chain. As proximity is considered crucial, they act as a first regional point of contact, a doorway, and strengthen the innovation ecosystem.

A DIH is a regional multi-partner cooperation (including organizations like RTOs, universities, industry associations, chambers of commerce, incubator/accelerators, regional development agencies and even governments) and can also have strong linkages with service providers outside of their region supporting companies with access to their services.

The status of the following DIHs is according to the Catalogue of DIHs of the Joint Research Centre (JRC).

Definition of DIH according to: <http://s3platform.jrc.ec.europa.eu/digital-innovation-hubs>





## BASIC INFORMATION

**NAME OF THE DIH:** ANDALUCÍA AGROTECH DIGITAL INNOVATION HUB

**SHORT NAME:** Andalucía Agrotech DIH

**STATUS:** Fully operational

**GEOGRAPHIC SCOPE:** Andalucía (España)

**YEAR OF ESTABLISHMENT:** 2017

**Nº OF MEMBERS/PARTNERS:** 120

**MEMBERS/PARTNERS:**

## PUBLIC ADMINISTRATION

Regional Ministry of Agriculture, Livestock, Fisheries and Sustainable Development

Regional Ministry of Economy, Knowledge, Enterprise and University

Regional Ministry of Employment, Training and Self Employment

Regional Ministry of Health and Families

IFAPA Andalusia Institute of Research and Training on Agriculture, Fisheries, Food and Ecological Production

AGAPA Andalusia Agency for Agriculture and Fisheries Management

IDEA Agency for the Innovation and Development of Andalusia

## COMPETENCE CENTERS

### ACADEMIA

Andalucía Tech Campus of International Excellence

CeiA3 Campus of International Excellence on Agrifood

CEIMAR Campus of International Excellence of the Sea

University of Almería, University of Córdoba, University of Cádiz, University of Málaga, University of Loyola Andalucía Foundation, University of Seville, Coexphal Chair

### RESEARCH AND TECHNOLOGICAL CENTERS

ADESVA, Agroindustry Technological Center

Andanatura Natural Spaces Foundation of Andalusia



CATEC Center for Advanced Aerospace Technologies

CIDAF Center for Research and Development of Functional Food Foundation

CITIC Andalusia Center for Innovation and Technologies of Information and Communication

CETEMET Technological Center for Metal-mechanics and Transports

Andaltec Technological Center for Plastics

CITOLIVA Technological Center for Olive grove and olive oil

COIAA Official College of Agricultural Engineers of Andalusia

CTAQUA Technological Center for aquaculture

Cajamar Foundation

CSIC Institute of Fat

CTA Technological Corporation of Andalusia, GEOLIT Scientific-Technological Parc of Jaén

PITA Scientific-Technological Parc of Almería, TECNOVA Technological Center for the auxiliary agriculture industry, post-harvest and packaging

Rabanales 21 Scientific-Technological Parc of Córdoba

## ICT BUSINESSES

AgroBigDate Solutions S.L., Agroplanning Smart Agriculture S.L., Agrosap Precision Agricultural Solutions S.L., Alcuza Software S.L., AMETIC Association of electronics companies and information technologies, Anserlog S.A., ATOS, BASF, Bioazul, Bluumi, Dattechs Analytics S.L., ec2ce, Eman Engineering, Eticom Business Association Information and Communication Technologies, Evenor-Tech, GIESA, GMV innovating Solutions, Group Hispatec Business Computing S.A., Heimdall Technologies, Herba Ricemills, HP Enterprise, IAGT, Innovasur, Internet of Things, Inventia Agrarica SL, IRSOLAV, Intelligent, ITSOFT, Izertis S.L., Kodysa, Kowat Biomimetic Control, Metadology, MGS SOFT SLU, MUEVO Projects and Communication Systems S.L., Naturcode, nDevices, NoSoloSoftware, Pri Ops Data Science S.L., RSC Talent 2016 S.L., SAIG, Secmotic, Sensacultivo, Sigrow, Singular People Andalucía S.L., SLU S-dos, Smart Biosystem S.L., Symbia Solutions S.L., Telefonica., UTW Unmanned Technical Works SLL., Verdtech-Verde Smart Co, Vodafone Spain S.A.U., Wellness Telecom S.L., WENDU Wearable S.L., Zabala Innovation Consulting S.A.

## AGRI-FOOD BUSINESSES

AIMCRA Association for the Research and Improvement of sugarbeet culture, Alhóndiga La Unión, APROA Association of Producers' Organizations of Andalusia, ASAJA Andalusia, UCA-UCE Union of Consumers of Andalusia, ASEMESA Association of Exporters and Industrial traders of table olives, APROSE: Professional Association of Selected Seed Produce Companies, ASAJA Sevilla Agrarian Association of Young Farmers, C.R. D.O. "CONDADO DE HUELVA" AND "VINEGAR FROM CONDADO DE HUELVA", C.R. D.O. "MONTILLA-MORILES" AND "VINEGAR FROM MONTILLA-MORILES", C.R. D.O.P. "ESTEPA", C.R. D.O.P. "JAM FROM HUELVA", C.R. D.O.P. "PRIEGO DE CORDOBA", C.R.D.O.P. "ALOREÑA OLIVE OF MÁLAGA", C.R.I.G.P. "MANTECADOS DE ESTEPA" Y "POLVORONES DE ESTEPA", CAEA, COAG Andalusia, COEXPHAL, AGRI-FOOD COOPERATIVES, COVAP, Indeco Investigation of Ecological Dehesas, DCOOP, FIAB (Spanish Federation of Food and Beverage Industries), FRESHUELVA Huelva Association of

Producers, Galpagro, GDR Valle del Guadalhorce, GLOBAL GAP, Global Olive, Grupo La Caña, LANDALUZ Andalusian Food Business Association, MERCADONA, Oleoestepa SCA, RURAPOLIS, Subafresh, TEPRO Agricultural Consultants SL, TROPS, UPA Andalucía.

### SERVED SECTORS:

#### Agricultural sector:

Arable farming, fruits, poultry, greenhouses, olive grove, dehesa ecosystem, dairy, vegetables, piggery, organic, vineyard and animal husbandry (beef, sheep, goat)

#### Technical sector:

IoT, data mining, sensors, drones, robotics, artificial intelligence, machine learning, Open Data, Cloud, Blockchain, interoperability, measuring and predicting model, HAPS (high altitude pseudo satellite), satellite image.

## CONTACT DETAILS

**DIH ADDRESS:** Tabladilla s/n, 41071, Sevilla (Spain)

### WEBSITE:

<http://juntadeandalucia.es/organismos/agriculturapescaydesarrollorural.html>

**SOCIAL MEDIA:** Twitter (@DIHAndAgrotech)

**EMAIL:** [dih.andalucia.agrotech@juntadeandalucia.es](mailto:dih.andalucia.agrotech@juntadeandalucia.es)

**CONTACT PERSON:** Judit Anda

## MISSION

**MISSION / OBJECTIVES:** Making digitization available to all the companies of the sector from the economic and technical points of view.

### Objectives:

- Improving the competitiveness.
- Becoming a benchmark hub
- Connecting all the resources
- Promoting valuable cooperation between the actors involved in the ecosystem

**COMPETENCES:** Digital Agro Technologies

**KEY SERVICES:**

**Technology services**

- Collaborative R&D
- Technical support on upscaling
- Commercial infrastructure
- Testing and validation

**Business services**

- Incubator/ accelerator support
- Access to finance and funding
- Skills and education
- Brokerage
- Market intelligence
- Access to Competence Centres

**Ecosystem services**

- Community building
- Visioning & strategy development
- Mentoring (in the network)

**Examples:** Olive Tree Lab (FIWARE); Monitoring system using "FIWARE-Ready IoT device" collars; Incubator Programmes (Minerva, the Cube); ComPlat (direct communication platform between producers and consumers for the agrifood sector in real-time); promoting valuable cooperation between the actors within the ecosystem (100 Operational Groups); predictive models for pests and diseases.

**PROJECTS AND SUCCESSFUL EXPERIENCIES**

**NAME OF THE PROJECT:** Geoportal.

**OBJECTIVES:** The GEOPORTAL is a spatial data infrastructure that makes up an agricultural georeferenced data service.

**WEBSITE:** <http://www.geoportalagriculturaypesca.es/portal/>

**PROJECTS AND SUCCESSFUL EXPERIENCIES**

**NAME OF THE PROJECT:** RAIF - PREDICTIVE MODELS FOR PESTS AND DISEASES

**WEBSITE:** <http://juntadeandalucia.es/agriculturapesca/develop/raif>

**PROJECTS AND SUCCESSFUL EXPERIENCIES**

**NAME OF THE PROJECT:** Education

- Máster en Transformación Digital en el sector agroalimentario, University of Cordoba.
- Máster en Agricultura Digital e Innovación Agroalimentaria, University of Sevilla.

**OBJECTIVES:**

**University of Cordoba:**

The Master Digital Agri: provides a multidisciplinary training to professionals specialized in agri-food, in the field of new information and communication technologies applied in their fields of action.

**University of Sevilla**

The Máster en Agricultura Digital e Innovación Agroalimentaria: aims to train professionals in the new agricultural technologies that companies in the sector seek to lead their SmartAgro and digital transformation projects.

**WEBSITE:**

**University of Cordoba**

<https://digitalagri.es/>

**University of Sevilla**

<http://master.us.es/agrodigital/>



# AGRITECH BIG DATA, BIG DATA INNOVATION HUB AT THE SERVICE OF THE AGRIFOOD SECTOR



## BASIC INFORMATION

**NAME OF THE DIH:** AGRITECH BIG DATA, BIG DATA INNOVATION HUB AT THE SERVICE OF THE AGRIFOOD SECTOR

**SHORT NAME:** Agritech Bigdata DIH

**STATUS:** Fully operational

**GEOGRAPHIC SCOPE:** Cataluña (España)

**YEAR OF ESTABLISHMENT:** 2016

**Nº OF MEMBERS/PARTNERS:**

**SERVED SECTORS:**

**Agricultural sector**

Arable farming, fruits, poultry, agricultural machinery, dairy, piggery and irrigation & water management

## CONTACT DETAILS

**CONTACT PERSON:** Gabriel Anzaldi

**EMAIL:** gabriel.anzaldi@eurecat.org

## MISSION

### KEY SERVICES:

#### Technology services

Collaborative R&D

Technical support on upscaling

Testing and validation

Other: Living labs

#### Business services

Access to finance and funding

Skills and education

Brokerage

Market intelligence

Access to Competence Centres

Other:

#### Ecosystem services

Community building

Visioning & strategy development

Mentoring (in the network)

Other: BigData CoE Barcelona



## BASIC INFORMATION

**NAME OF THE DIH:** AGROCLUSTER DIH

**SHORT NAME:** Agrocluster DIH

**STATUS:** Out of JRC Catalogue

**GEOGRAPHIC SCOPE:** Alentejo (Portugal)

**YEAR OF ESTABLISHMENT:** 2018

**Nº OF MEMBERS/PARTNERS:** 94

**MEMBERS / PARTNERS:**

ICT companies: 3; Competence centers/University: 6; Incubator: 1;  
associations: 5; SME: 71; large enterprises: 8.

**SERVED SECTORS:**

**Agricultural sector**

Fruits, greenhouses, charcuterie, sauces and vinegars, wine, dairy,  
vegetables, olive oil, dry products (biscuits, jams, marmalades...)

**Technical sector**

ICT, testing, web designing, sensors, AI and big data.

## CONTACT DETAILS

**DIH ADDRESS:** CIES - Centro de Inovação Empresarial de Satarém, Largo Infante  
Santo, 2005-246 Santarém

**WEBSITE:** [www.agrocluster.com](http://www.agrocluster.com)

**EMAIL:** [geral@agrocluster.com](mailto:geral@agrocluster.com)

**SOCIAL MEDIA:** Facebook: [www.facebook.com/agrocluster](https://www.facebook.com/agrocluster)

**CONTACT PERSON:** Ana Araujo

## MISSION

**MISSION / OBJECTIVES:** Agrocluster is a nom profit association of companies, competence centers and universities related to the agro industrial sector. we are focused on the development of the sector and promoting competitiveness. our mission is to increase the collaboration and the cooperation between the companies an entities related to the agro-industrial sector, thus ensuring a broad participation of the entities directly related with this sector in the international, national commercial circuits.

**KEY SERVICES:**

**Technology services**

Collaborative R&D  
Technical support on upscaling  
Testing and validation

**Business services**

Incubator/ accelerator support  
Access to finance and funding  
Skills and education  
Brokerage  
Market intelligence  
Access to Competence Centres

**Ecosystem services**

Community building  
Mentoring (in the work)



### BASIC INFORMATION

**NAME OF THE DIH:** POLO DE INNOVACIÓN DIGITAL DE NAVARRA.

DIGITAL INNOVATION HUB OF NAVARRE

**SHORT NAME:** DIH Navarra

**STATUS:** In preparation

**GEOGRAPHIC SCOPE:** Navarra (España)

**YEAR OF ESTABLISHMENT:** 2019

**Nº OF MEMBERS/PARTNERS:** 9

**SERVED SECTORS:**

**Agricultural sector**

Arable farming, fruits, poultry, greenhouses, dairy, vegetables and organic.

**Technical sector**

Geodata, digital platforms, infrastructures management, R&D.

### CONTACT DETAILS

**CONTACT PERSON:** Delia Sola Giménez

**EMAIL:** delia.sola.jimenez@cfnavarra.es

### MISSION

**MISSION / OBJECTIVES:** R&D&i strategy and industry in Navarre.

**COMPETENCES:** The R&D environment focus on the technologies needed to promote the R&D and the challenges of the strategy of intelligent specialization, artificial intelligence, IoT, Big Data, Robotics and Biotechnology. Technologies that will facilitate the transition of the industry towards the 4.0, the development of sustainable mobility, renewable energies and the food chain.

**KEY SERVICES:**

**Technology services**

Collaborative R&D

Technical support on upscaling

Testing and validation

**Business services**

Incubator/ accelerator support

Access to finance and funding

Skills and education

Access to Competence Centres

**Ecosystem services**

Community building

Visioning & strategy development

Mentoring (in the network)



## BASIC INFORMATION

**NAME OF THE DIH:** ALMERÍA SmartAgriHub

**SHORT NAME:** ALMERÍA SmartAgriHub

**STATUS:** In preparation

**GEOGRAPHIC SCOPE:** Andalucía (España)

**YEAR OF ESTABLISHMENT:** 2017

**Nº OF MEMBERS/PARTNERS:** 20

**MEMBERS/PARTNERS:**

Core members: Cajamar Caja Rural, COEXPHAL. Association of F&V Producer Organisations, University of Almería and Foundation Cajamar. Associated members: Hispatec, Agrocolor, Biocolor, Proyecto Ingenio, PITA, Foundation Anecop-UAL, CIAMBITAL, CIESOL, selected members of Cohexphal, public entities, etc.

**SERVED SECTORS:**

Agricultural sector

Greenhouses, vegetables, fruits conventional & organic and related industry and value chains.

## CONTACT DETAILS

**DIH ADDRESS:** University of Almería, CITE V, D-1-20, Ctra. de Sacramento, s/n. (04120) Almería. Spain

**WEBSITE:** [www.almeriasah.eu](http://www.almeriasah.eu) / [www.almeriasmartagrihub.eu](http://www.almeriasmartagrihub.eu)

**SOCIAL MEDIA:** Twitter: @AlmeriaSah

**CONTACT PERSON:** Roberto García Torrente / Luis Miguel Fernández Sierra  
Cynthia Giagnocavo

**EMAIL:** [info@almeriasah.eu](mailto:info@almeriasah.eu)

## MISSION

**MISSION / OBJECTIVES:** Facilitate and accelerate the digital transformation of the Almería horticultural sector and related value chains, leading to competitive advantage, improved products and processes, social benefits and improved environmental stewardship. Consolidate resources, update products and processes, and adapt business models. In addition, encourage cooperation among the agents of the ecosystem, promoting financial, scientific, technical and networking support to implement these innovations throughout the agrifood value chain.

**COMPETENCES:** All competences related to precision greenhouse production, auxiliary businesses and supply chain (from seed to fork), including as well ecosystem services. Also energy (wind, solar, etc) water, residues, etc.

## KEY SERVICES:

Technology services

Collaborative R&D

Technical support on upscaling

Commercial infrastructure

Testing and validation

Other: DSS for IPM. Fertigation, climate control, etc.; climate sensors; soil sampling & soil sensors, yield mapping; on plant sensors & plant data/analysis; Farm IoT; agricultural robots & drones; greenhouse automation; greenhouse modeling & control; smart farming; smart irrigation; farm ERP; Big Data advance analysis; precision agriculture and predictive analytic; food processing and packing; sensor networks technologies; traceability and certification; control of labour; farm and crop management; digital commercialization; and market intelligence.

Business services

Incubator/ accelerator support

Access to finance and funding

Skills and education

Brokerage

Market intelligence

Access to Competence Centres

Other: HRLegal services, subsidy application support.

Ecosystem services

Community building

Visioning & strategy development

Mentoring (in the network)

Other: Liaison with National and EU entities.

### PROJECTS AND SUCCESSFUL EXPERIENCIES

**NAME OF THE PROJECT:** FAIRshare. Farm Advisory digital innovation tools realised shared.

**OBJECTIVES:** Electronic data generation, analytics and communication technologies potentially enable more accurate, faster and better decision-taking on farms, with huge potential to improve agricultural sustainability. There is major focus on digitisation by EU and national/regional policy makers to ensure that digital innovation in agriculture keeps pace with other sectors and the benefits of digitisation and future innovations will be hampered unless the rural advisory community is mobilised to take ownership of digital tools and to advocate at the user interface. This CSA will engage, enable and empower the independent farm advisor community, through sharing of tools, expertise and motivations.

FAIRshare has two main programmes. Firstly, WPs 1, 2, and 3 will gather an evidence base of the digital tools and services used internationally, leveraging the social networks of partner institutions that span EU and non-EU countries. The inventory of tools will be accessible to end-users on an intuitively navigable online interface that has been co-designed using a multi-actor approach. Accompanying the tools in the online inventory will be information, for instance short 'good practice' vignettes, on how the tools may be used/adapted for use. Secondly, WPs 4, 5, and 6 will generate and resource a participatory 'living laboratory', empowering advisor peers from across the EU. Special focus will be in co-designing powerful communication and engagement approaches for advisors to advocate and inspire their peers and farmer clients, driving a social movement for the wider and better use of digital tools.

### PROJECTS AND SUCCESSFUL EXPERIENCIES

**NAME OF THE PROJECT:** INTERNET OF FOOD AND FARM 2020 (IoF2020)

**WEBSITE:** <https://www.iof2020.eu>

**OBJECTIVES:** Internet of Food and Farms 2020 aims to develop solutions for the internet of things for the agri-food sector: creating a disruptive change, improving in a very marked way the productivity and sustainability of the agricultural and livestock practices. IoF2020 is organized around 5 sectors with the creation of 19 cases of the studies with different subjects.

### PROJECTS AND SUCCESSFUL EXPERIENCIES

**NAME OF THE PROJECT:** HORTISYS

**WEBSITE:** <https://www.hispatec.es/proyectos/hortisys-ininterconecta-feder/>

**OBJECTIVES:** The project develops a management solution for a qualitative and quantitative improvement of horticultural production, through the implementation of a systematic learning system that facilitates remote control and, even, the automation of operations in greenhouses or recommendations; all this integrated with the marketing process for, helping with meteorological forecasts, to adjust and to satisfy in a more efficient way the current and expected demand of the market, and to obtain thus to benefit of a better and more stable prices of sale.

### PROJECTS AND SUCCESSFUL EXPERIENCIES

**NAME OF THE PROJECT:** MODEL CROP. Study and development of a tool for decision Support (DSS) on climate management, production and economic cost applied to a greenhouse.

**OBJECTIVES:** Develop an agronomic model predictive simulation and a system of assistance to decision-making (DSS). This model will be supported by a TIC platform that implements its computerized and that can present advices in the management of the greenhouse and the management of crops to maximize production.

### PROJECTS AND SUCCESSFUL EXPERIENCIES

**NAME OF THE PROJECT:** Transfer of INNOvative techniques for sustainable Water use in FERTigated

**WEBSITE:** <https://www.fertinnowa.com>

**OBJECTIVES:** The three topics of the project are: water sources; water (re)use efficiency and end pipe solutions. FERTINNOWA will apply a bottom-up approach. First, they will identify the existing bottlenecks at farms, after which they will look for concrete solutions that can be made available to farmers. Technologies from other sectors will be evaluated for their suitability to solve existing gaps.

# DIGITAL INNOVATION HUB ON HPC-CLOUD AND COGNITIVE SYSTEMS FOR SMART MANUFACTURING PROCESSES, ROBOTICS AND LOGISTICS



## BASIC INFORMATION

**NAME OF THE DIH:** DIGITAL INNOVATION HUB ON HPC-CLOUD AND COGNITIVE SYSTEMS FOR SMART MANUFACTURING PROCESSES, ROBOTICS AND LOGISTICS

**SHORT NAME:** Aragón DIH

**STATUS:** Fully operational

**GEOGRAPHIC SCOPE:** Aragón (España)

**YEAR OF ESTABLISHMENT:** 2017

**Nº OF MEMBERS/PARTNERS:** 3

**MEMBERS/PARTNERS:** 3

**SERVED SECTORS:**

**Agricultural sector:**

Arable farming, fruits, organic, vegetables, animal husbandry, piggery, poultry, cereals, fruits, vineyards and wine, olive oil, almond trees, egg production farms, cow, sheep and goat meat; derived products of pig meat (charcuterie).

**Technical sector:** Yes.

## CONTACT DETAILS

**DIH ADDRESS:** C/ María de Luna 7, 50018, Zaragoza

**WEBSITE:** [www.aragondih.com](http://www.aragondih.com)

**EMAIL:** [afernandez@itainnova.es](mailto:afernandez@itainnova.es)

**CONTACT PERSON:** Ángel Fernández Cuello

## MISSION

**MISSION / OBJECTIVES:** Aragón DIH is the Aragonese initiative that, within a framework of European cooperation, extends the strategy for Economic and Industrial Promotion and the SS3 of Aragón, forming the technological and

innovative action of the Aragonese Innovation System towards the digitization of the Industry. It includes ROs, Competence Centers, innovative companies and, the business development agencies and competent authorities to define and support the Aragón Industry Strategy 4.0 (AI4.0).

**KEY SERVICES:**

**Technology services**

Collaborative R&D

Technical support on upscaling

Testing and validation

Other: Aragón DIH includes services based on IA technologies, Big data, IoT, Blockchain, Robotics, Modelling and simulation, High Performance Computing, etc. to offer services of high technological value.

**Business services**

Incubator/ accelerator support

Access to finance and funding

Skills and education

Access to Competence Centres

**Ecosystem services**

Community building

Visioning & strategy development

Mentoring (in the network)

## PROJECTS AND SUCCESSFUL EXPERIENCES

**NAME OF THE PROJECT:** Agroslab-Go: Geolocalización y optimización de los procesos agrarios en entornos abiertos.

**OBJECTIVES:** Improvement of the levels of automation and optimization of agricultural processes linked to the traceability of products, and to the planning and execution of activities in the field.

**WEBSITE:** [www.agroslab.com/agroslab-go](http://www.agroslab.com/agroslab-go)



# CENTRO OPERATIVO TECNOLÓGICO HORTOFRUTÍCOLA NACIONAL

## CENTRO DE COMPETENCIAS



### BASIC INFORMATION

**NAME OF THE DIH:** CENTRO OPERATIVO TECNOLÓGICO HORTOFRUTÍCOLA NACIONAL

- CENTRO DE COMPETENCIAS

**SHORT NAME:** COTHN\_CC

**STATUS:** Out of JRC Catalogue

**GEOGRAPHIC SCOPE:** Portugal

**YEAR OF ESTABLISHMENT:** 2014

**Nº OF MEMBERS/PARTNERS:** 70

**SERVED SECTORS:**

Agricultural sector: 54

Technical sector: 16

### CONTACT DETAILS

**DIH ADDRESS:** Estrada de Leiria S/N, 2460-054 Alcobaça

**WEBSITE:** [www.cothn.pt](http://www.cothn.pt)

**EMAIL:** [geral@cothn.pt](mailto:geral@cothn.pt)

**CONTACT PERSON:** Maria do Carmo Martins

### MISSION

**MISSION / OBJECTIVES:**

- To promote the development of the sector through the applied investigation, improvement of the knowledge level, deepening the cooperation and partnerships in the areas of technology and organization.

- It intends to promote the approach between the industries and the investigation, as well as between public and private institutions.
- We were recognized as a competence centre for the fruit and vegetable sector and as a technological interface centre in 2017

**COMPETENCES:**

- a) Dissemination and transference of knowledge;
- b) Specialized services for increment quality
  1. Meteorological data service for agriculture
  2. Certification and quality control on Packinghouses
  3. Sprays inspection service
- c) Irrigation system evaluation and water management
- d) Technical dissemination and communication service

**KEY SERVICES:**

**Technology services**

- Collaborative R&D
- Technical support on upscaling
- Testing and validation

**Business services**

- Access to finance and funding
- Skills and education
- Brokerage
- Access to Competence Centres

**Ecosystem services**

- Community building
- Visioning & strategy development

## PROJECTS AND SUCCESSFUL EXPERIENCIES

**NAME OF THE PROJECT:** FitoAgro

**OBJECTIVES:** Monitoring and study of the life cycle of emerging enemies in the Region in order to define the risk estimation and the NEA with the objective of producing information for its control based on alternative strategies to the chemical fight

**WEBSITE:** <https://fitoagro.webnode.pt/>

**NAME OF THE PROJECT:** FruitFlyProtec

**OBJECTIVES:** To improve fruit fly control by monitoring and evaluating the efficacy of alternative protection media for *Ceratitis capitata* and *Drosophila suzukii* and risk assessment of potential introduction and distribution to *Bactrocera dorsalis*

**WEBSITE:** <https://fruitflyprotec.webnode.pt/>

**NAME OF THE PROJECT:** Smart Farm Colab

**OBJECTIVES:** CoLab will be a center for generating digital innovative approaches to agriculture, with a very focused on the latest technology and focused on Vegetable, Fruit and Vegetable Area.

The objectives will be:

- Creation of sustainable production strategies
- Integrate the efficient use of resources with the use of innovative techniques
- Develop intelligent machines and monitoring systems in real time, using high technology.



# COTR-CENTRO OPERATIVO DE TECNOLOGÍA DE REGADIO IRRIGATION AND TECHNOLOGY CENTER



## BASIC INFORMATION

**NAME OF THE DIH:** COTR - CENTRO OPERATIVO DE TECNOLOGÍA DE REGADIO  
IRRIGATION AND TECHNOLOGY CENTER

**SHORT NAME:** COTR

**STATUS:** Out of JRC Catalogue

**GEOGRAPHIC SCOPE:** Beja (Portugal)

**YEAR OF ESTABLISHMENT:** 2015

**Nº OF MEMBERS/PARTNERS:** 440

**MEMBERS/PARTNERS:**

40: Governmental agencies, universities, research institutes, ICT SME's, farmers associations.

>400 farmers: farm network

**SERVED SECTORS:**

**Agricultural sector:**

Arable farming, fruits, olives, vineyards, cereals, vegetables and irrigation

## CONTACT DETAILS

**CONTACT PERSON:** Gonçalo Rodrigues

**EMAIL:** goncalo.rodrigues@cotr.pt

## MISSION

### KEY SERVICES:

#### Technology services

Collaborative R&D

Technical support on upscaling

Commercial infrastructure

Testing and validation

#### Business services

Skills and education

Access to Competence Centres

Other: Training

#### Ecosystem services

Community building

Visioning & strategy development

Other: Irrigation advisory services



## DIH IOT

### BASIC INFORMATION

**NAME OF THE DIH:** DIH IOT

**SHORT NAME:** DIH IOT

**STATUS:** Fully operational

**GEOGRAPHIC SCOPE:** Castilla y León (España)

**YEAR OF ESTABLISHMENT:** 2015

**Nº OF MEMBERS/PARTNERS:** 25

**SERVED SECTORS:**

**Agricultural sector:**

Arable farming, fruits, poultry, greenhouses, dairy, vegetables, piggery

### CONTACT DETAILS

**CONTACT PERSON:** Javier Prieto Tejedor

**EMAIL:** jprieto@usal.es

### MISSION

#### KEY SERVICES:

##### Technology services

Collaborative R&D

Technical support on upscaling

Commercial infrastructure

Testing and validation

##### Business services

Incubator/ accelerator support

Access to finance and funding

Skills and education

Brokerage

Market intelligence

Other: Commercial infrastructure

##### Ecosystem services

Community building

Visioning & strategy development

Mentoring (in the network)

Other: Ecosystem building, scouting, brokerage, networking and conference organization.





## BASIC INFORMATION

**NAME OF THE DIH:** DIGITAL INNOVATION HUB FOR THE GALICIAN AGRIFOOD SECTOR

**SHORT NAME:** DIHGAS

**STATUS:** Fully operational

**GEOGRAPHIC SCOPE:** Galicia (España)

**YEAR OF ESTABLISHMENT:** 2016

**Nº OF MEMBERS/PARTNERS:** 64

**MEMBERS/PARTNERS:**

Cooperatives and producers: AGACA, CLUN, Martín Códax, Leite Río, Queizuar, OVICA, Viveiros Río Tollo, Casa Grande de Xanceda, Lácteos Casa Macán, Parandería Da Cunha, Estrella Galicia and Lúpulo Tecnología de Galicia.

ITC companies: Televés, Gainsa, Egatel, R-Esukatel, Arteixo Telecom, Inteligencia Visual, Seresco, Monet Viticultura, Macraut, Silicent Systems and Librebit.

Industrial cluster and professional associations: INEO, Cluster TIC and CLUSAGA.

Agronomist, agrotech, machinery, advisory and consultancy services: Tragsatec, Lagunal, Magrino, Alltech Spain, Seragro, Elmega, 3eData, AutoFarm, I+D Agroalimentaria, SPI consultores, Aresa Agrícola, Nutrimentos Deza, Agronovo, Libreinnova and Macrotest.

RTOs and Universities: Gradiant, USC-Campus Terra, Aimen, ITG, EnergyLab, ANFACO, CiTIUS, ITMATI, Universidad de Vigo, CESGA, CETAL, Centro Tecnológico da Carne, Colexio Enxeñeiros Agrónomos and Colexio Veterinarios.

Non-profits, foundations, other associations (4): Fundación Juana de Vega, Asociación, de Grupos de Desenvolvement Rural, EFA Galicia and FEUGA.

Public Administration: Galician Innovation Agency, Regional Ministry for Rural Affairs, AGACAL, AMTEGA and IGAPE.

## SERVED SECTORS:

Agricultural sector:

Agri-food value chain: animal production / livestock (dairy, pork, poultry, cattle...), vegetable production (animal food-fodder grain, pastures, silages...; human food-cereal, vegetables...)

Technical sector:

Coops, farmers and producers, SMEs, agrarian and farming associations, rural development groups, large enterprises, ICT developers/providers, equipment providers, manufacturers...

## CONTACT DETAILS

**CONTACT PERSON:** Luis Pérez-Freire (Gradiant) and Rogelio Conde-Pumpido (USC)

**EMAIL:** [lpfreire@gradiant.org](mailto:lpfreire@gradiant.org) / [rogelio.conde-pumpido@usc.es](mailto:rogelio.conde-pumpido@usc.es)  
[agrodixital@gradiant.org](mailto:agrodixital@gradiant.org)

**WEBSITE:** [www.polodeinnovaciondixital.org/en/](http://www.polodeinnovaciondixital.org/en/)

## MISSION

**MISSION / OBJECTIVES:** Gradiant and Universidade de Santiago de Compostela (USC), through Campus Terra, boosted in 2016 the creation of the digital innovation hub for Galician agri-food sector, a key initiative to encourage the future sustainability of the sector in our region.

The objectives of this joint initiative are focused on establishing a dynamic profitable open and responsible collaboration to achieve greater competitiveness for agri-food sector, expand business opportunities and export potential for technologic.

**COMPETENCES:** The Galician Digital Innovation Hub facilitates the confluence (on the demand side) of a productive and transforming sector opened to add technologies and innovative services adapted to their reality with (on the supply side) technological suppliers and services; and innovation centers, in order to generate solutions and improvements demanded by the sector. It is intended to act as a one stop demand.

## KEY SERVICES:

Technology services

Collaborative R&D

Technical support on upscaling

Testing and validation

Business services

Access to finance and funding

Skills and education

Brokerage

Access to Competence Centres

Ecosystem services

Community building

Visioning & strategy development



### BASIC INFORMATION

**NAME OF THE DIH:** DINAPSIS OPERATION & LAB

**SHORT NAME:** dinapsis

**STATUS:** Fully operational

**GEOGRAPHIC SCOPE:** Comunidad Valenciana (España)

**YEAR OF ESTABLISHMENT:** 2017

**Nº OF MEMBERS/PARTNERS:** 13

**SERVED SECTORS:**

**Agricultural sector:**

Fruits, irrigation communities and vegetables

**Technical sector:**

ICT, Irrigation

### CONTACT DETAILS

**DIH ADDRESS:** Av. Alfonso Puchades, 3 03502 Benidorm (Spain)

**SOCIAL MEDIA:** Twitter (@dinapsis)

**EMAIL:** jballesta@hidraqua.es

**CONTACT PERSON:** Jorge Ballesta Paredes

### MISSION

**MISSION / OBJECTIVES:** To develop the digital economy, technology and knowledge-based industries of the future, helping to develop digital solutions at companies that improve the quality of life of the people who live and visit the cities in the province of Alicante

**COMPETENCES:** Due to the extensive experience of our partners in business-viable models, we believe that projects with clear customer objectives based on a utility that improves the end-user processes should be established.

Technology must be a means and not an end in itself.

Therefore, each project we carry out is present from the Centers of Competence (Universities, Research Centres), innovative technology-based companies that will develop and market the product and the final users of the product.

**KEY SERVICES:**

**Technology services**

Collaborative R&D

Technical support on upscaling

Testing and validation

**Business services**

Brokerage

Access to Competence Centres

**Ecosystem services**

Community building

### PROJECTS AND SUCCESSFUL EXPERIENCIES

**NAME OF THE PROJECT:** Hazur

**OBJECTIVES:** Demonstrate the usability of HAZUR, the first city-resilience-oriented online tool that provides holistic city cross-management methodologies, strategic service monitoring and systemic simulation to go through the whole process of integrating resilience concepts into operations of basic municipal services and infrastructures.

**WEBSITE:** <http://opticits.com/>

## ASSOCIAÇÃO PARA O DESENVOLVIMENTO DA VITICULTURA DURIENSE



Iberia

### BASIC INFORMATION

**NAME OF THE DIH:** ASSOCIAÇÃO PARA O DESENVOLVIMENTO DA VITACULTURA DURIENSE

**SHORT NAME:** ADVID

**STATUS:** Fully operational

**GEOGRAPHIC SCOPE:** Douro (Portugal)

**YEAR OF ESTABLISHMENT:** 1982

**Nº OF MEMBERS/PARTNERS:** 175

**SERVED SECTORS:**

Agricultural sector:

Vineyard and wine

### CONTACT DETAILS

**CONTACT PERSON:** Rosa Amador

**EMAIL:** rosa.amador@advid.pt

### MISSION

#### KEY SERVICES:

Technology services

Collaborative R&D

Technical support on upscaling

Testing and validation

Bussines services

Skills and education

Access to Competence Centres

Ecosystem services

Visioning & strategy development



### BASIC INFORMATION

**NAME OF THE DIH:** ECOSISTEMA W

**SHORT NAME:** Ecosistema W

**STATUS:** In preparation

**GEOGRAPHIC SCOPE:** Extremadura (Spain)

**YEAR OF ESTABLISHMENT:** 2016

**Nº OF MEMBERS/PARTNERS:** 34

**SERVED SECTORS:**

**Agricultural sector:**

Arable farming, fruits and poultry.

### CONTACT DETAILS

**PERSONAL CONTACT:** Servando Saavedra Sanguino

**EMAIL:** [conecta@conectoride.com](mailto:conecta@conectoride.com)

### MISSION

#### KEY SERVICES:

##### Technology services

Collaborative R&D

Technical support on upscaling

Commercial infrastructure

##### Business services

Incubator/ accelerator support

Skills and education

Market intelligence

##### Ecosystem services

Community building

Other: Business Angels





## BASIC INFORMATION

**NAME OF THE DIH:** FARM2030- DIGITAL INNOVATION HUB IN THE AGRICULTURE SECTOR IN PORTUGAL FOR RESEARCH AND INNOVATION FOR SUSTAINABLE AND COMPETITIVE FARMING

**SHORT NAME:** FARM2030

**STATUS:** Out of JRC Catalogue

**GEOGRAPHIC SCOPE:** Alentejo (Portugal)

**YEAR OF ESTABLISHMENT:** 2016

**Nº OF MEMBERS/PARTNERS:** 30

**MEMBERS/PARTNERS:**

ICT SME's, farmers, universities, research institutes governmental agencies, farmer's associations, large companies, startups and advisors.

**SERVED SECTORS:**

**Agricultural sector:**

Arable farming, fruits, cereals, vineyards, vegetables and olives.

## CONTACT DETAILS

**CONTACT PERSON:** Rui Almeida

**EMAIL:** ralmeida@consulai.com

## MISSION

**KEY SERVICES:**

**Technology services**

Collaborative R&D

Technical support on upscaling

Commercial infrastructure

Testing and validation

**Business services**

Incubator/ accelerator support

Access to finance and funding

Skills and education

Access to Competence Centres

Other: Training

**Ecosystem services**

Community building

Visioning & strategy development

Other: Demonstration farms



## BASIC INFORMATION

**NAME OF THE DIH:** TECHNOLOGY FOR EFFICIENCY DIGITAL INNOVATION HUB

**SHORT NAME:** T4E DIH

**STATUS:** Fully operational

**GEOGRAPHIC SCOPE:** Extremadura (España)

**YEAR OF ESTABLISHMENT:** 2018

**Nº OF MEMBERS/PARTNERS:** 4

**MEMBERS/PARTNERS:** Fundecyt-PCTEX / University of Extremadura / Supercomputing Center Computaex / Aextic

### SERVED SECTORS:

#### Agricultural sector:

Arable farming / fruits / vegetables / animal husbandry / piggery / poultry / other: olives, vineyards, dehesa ecosystem

#### Technical sector:

Health and social work / transport, storage and communication / public administration and defence / education / other community, social and personal service activities

## CONTACT DETAILS

**DIH ADDRESS:** AVDA. DE LA INVESTIGACION, S/N - 06006 BADAJOZ (SPAIN)

**WEBSITE:** [www.dih4e.eu](http://www.dih4e.eu)

**EMAIL:** [cristina.gallardo@fundecyt-pctex.es](mailto:cristina.gallardo@fundecyt-pctex.es)

**CONTACT PERSON:** Patricia Da Costa / Félix Bermejo

## MISSION

**MISSION / OBJECTIVES:** The Digital Innovation Hub Technologies for Efficiency (T4E DIH) is a physical and virtual space in which actions and services of the different agents of Extremadura are concentrated for the development and improvement of products and productive and business processes, through the use of technology.

T4E DIH ambition is based on the identification of agents, resources and capacities to design a wide catalogue of services in the challenges of energy, ecology, equality and economy that determines

**COMPETENCES:** Broadband and other communication networks (e.g. 5G) / Robotics and autonomous systems / IoT (connected devices, sensors and actuators networks) / Location based technologies (GPS, GIS, in-house localization) / Cyber security (including biometrics) / Advanced or High performance computing/ Data mining, big data, database management / Software as a service and service architectures / Cloud computing / ICT management, logistics and business systems / Internet services (web development, e-commerce)

### KEY SERVICES:

#### Technology services

Collaborative R&D  
Technical support on upscaling  
Testing and validation  
Other: Digital maturity assessment

#### Business services

Incubator/ accelerator support  
Access to finance and funding  
Skills and education  
Market intelligence  
Other: Awareness creation

#### Ecosystem services

Community building  
Visioning & strategy development  
Mentoring (in the network)  
Other: Voice of consumer, product consortia

## PROJECTS AND SUCCESSFUL EXPERIENCIES

**NAME OF THE PROJECT:** Vidi 4.0

**OBJECTIVES:** PROMOTION AND DINAMIZATION OF A PROJECT FOR THE DIGITAL TRANSFORMATION OF THE WINE INDUSTRY

**WEBSITE:**

<http://www.energiaextremadura.org/proyectos/cluster-la-energia-extremadura-consigue-proyecto-la-ultima-convocatoria-las-aeis/>



## BASIC INFORMATION

**NAME OF THE DIH:** PORTUGUESE AGRICULTURAL DIGITAL INNOVATION HUB

**SHORT NAME:** Hub4agri

**STATUS:** Fully operational

**GEOGRAPHIC SCOPE:** Portugal

**YEAR OF ESTABLISHMENT:** 2017

**MEMBERS/PARTNERS:** 15

**SERVED SECTORS:**

**Agricultural sector:** Yes

**Technical sector:** Yes

## CONTACT DETAILS

**DIH ADDRESS:** Av. Prof. Dr. Cavaco Silva, 33 2740-120 Porto Salvo - Portugal

**WEBSITE:** [www.hub4agri.com](http://www.hub4agri.com)

**EMAIL:** [info@hub4agri.com](mailto:info@hub4agri.com)

**CONTACT PERSON:** António Dias

## MISSION

**MISSION / OBJECTIVES:** HUB4AGRI provides a large combination of services aiming the digital transformation of the agrifood value chain.

**KEY SERVICES:**

### Technology services

- Collaborative R&D
- Technical support on upscaling
- Commercial infrastructure
- Testing and validation

### Business services

- Incubator/ accelerator support
- Access to finance and funding
- Skills and education
- Brokerage
- Market intelligence
- Access to Competence Centres

### Ecosystem services

- Community building
- Visioning & strategy development
- Mentoring (in the network)



### BASIC INFORMATION

**NAME OF THE DIH:** HUB 4.0 MANUFACTURING SECTORS IN VALENCIA REGION

**SHORT NAME:** HUB4MANUVAL

**STATUS:** Fully operational

**GEOGRAPHIC SCOPE:** Valencia (España)

**YEAR OF ESTABLISHMENT:** 2017

**Nº OF MEMBERS/PARTNERS:** 5

**SERVED SECTORS:**

**Agricultural sector:**

Arable farming and fruits.

### CONTACT DETAILS

**PERSONAL CONTACT:** Francisco Blanes

**EMAIL:** pblanes@ai2.upv.es

### MISSION

**KEY SERVICES:**

**Technology services**

Collaborative R&D

Technical support on upscaling

Testing and validation

**Business services**

Incubator/ accelerator support

Skills and education

Brokerage

Access to Competence Centres





# IMAN NORTE HUB - DIGITAL INNOVATION HUB FOR CUSTOMER-DRIVEN MANUFACTURING @ NORTE



## BASIC INFORMATION

**NAME OF THE DIH:** IMAN NORTE HUB - DIGITAL INNOVATION HUB FOR CUSTOMER-DRIVEN MANUFACTURING @ NORTE

**SHORT NAME:** Iman Norte Hub

**STATUS:** Fully operational

**GEOGRAPHIC SCOPE:** North of Portugal (Portugal)

**YEAR OF ESTABLISHMENT:** 2016

**Nº OF MEMBERS/PARTNERS:** 7

**MEMBERS/PARTNERS:** PRODUTECH - Production Technologies Cluster; INESC TEC - Institute for Systems and Computer Engineering, Technology and Science; UPTEC - Science and Technology Park of University of Porto; CATIM - Technological Center for the Metal Working and Machinery Industry; CITEVE - Technological Center of Textile and Clothing Industries of Portugal; CTCP - Technological Center of Footwear of Portugal; CTCOR - Technological Center of Cork

### SERVED SECTORS:

#### Agricultural sector:

General

#### Technical sector:

Digitalisation and Robotics

## CONTACT DETAILS

**DIH ADDRESS:** Rua dos Plátanos, 197, 4100-414 Porto, Portugal

**WEBSITE:** <https://www.imannortehub.com/>

**EMAIL:** [iman-norte.dih@produtech.org](mailto:iman-norte.dih@produtech.org)

## MISSION

**MISSION / OBJECTIVES:** The mission of the iMan Norte Hub - Digital Innovation Hub for Customer-Driven Manufacturing @ Norte - is to foster the digital transformation of manufacturing companies of the Northern Region of Portugal (Norte) and to nurture the respective innovation ecosystem.

**Objectives:** Facilitate and foster manufacturing technology adoption and diffusion in the areas of cyber-physical production systems and robotics. Improve the collaboration in the ecosystem by linking research institutions, industrial technological centers, industrial associations, incubators, science and technology parks, industrial companies, technology companies, training institutions, and government agencies.

**COMPETENCES:** Digitalisation and Robotics

### KEY SERVICES:

#### Technology services

Collaborative R&D

Technical support on upscaling

Testing and validation

Other: Other: Maturity assessment, technological roadmapping for Industry 4.0, feasibility studies; Support of Industry 4.0 implementation

#### Business services

Incubator/ accelerator support

Access to finance and funding

Skills and education

Brokerage

Access to Competence Centres

### Ecosystem services

- Community building
- Visioning & strategy development
- Mentoring (in the network)
- Other: Other: Other Workshops, open-days and demonstration sessions

### PROJECTS AND SUCCESSFUL EXPERIENCIES

**NAME OF THE PROJECT:** Beincpps - BUSINESS EXPERIMENTS IN CYBER PHYSICAL PRODUCTION SYSTEMS

**OBJECTIVES:** BEinCPPS project aims to integrate and experiment a FI-based machine-factory—cloud service platform firstly intensively in five selected S3 Vanguard regions, afterwards extensively in all European regions, by involving local competence centers and manufacturing SMEs. The final aim of this Innovation Action is to dramatically improve the adoption of CPPSs all over Europe by means of the creation, nurturing and flourishing of CPS-driven regional innovation ecosystems.

**WEBSITE:** <http://www.beincpps.eu/>



## BASIC INFORMATION

**NAME OF THE DIH:** INDUSTRIAL TECNOLOGY KNOWLEDGE DIH

**SHORT NAME:** ITK-DIH

**STATUS:** Fully operational

**GEOGRAPHIC SCOPE:** Jaén, Andalucía (España)

**YEAR OF ESTABLISHMENT:** 2016

**Nº OF MEMBERS/PARTNERS:** 11

**MEMBERS/PARTNERS:**

Linares chamber of commerce

Cetemet

EOI

ES-Tech

Fundación Incyde

Linared Group

Sicnova 3D

Laserscan

Vanadis

Diputación de Jaén

Linares Town Hall

**SERVED SECTORS:**

**Agricultural sector:**

Agricultural Machinery and cold chain.

**Technical sector:**

Advanced Manufacturing

## CONTACT DETAILS

**DIH ADDRESS:** Campus Científico-Tecnológico de Linares, 23700 Linares, Spain

**WEBSITE:** <http://dih-itkl.es/contact-us/>

**EMAIL:** [contact@dih-itkl.es](mailto:contact@dih-itkl.es)

## MISSION

**MISSION / OBJECTIVES:** DIH-ITKL's mission is to improve the competitiveness of regional companies through digitalization.

**COMPETENCES:**

1. Innovation activities and technology transfer. Definition of technologies to use and how to use them. Information about availability of digital enablers.
2. Business development.
3. Skill creation. Reduction of the lack of knowledge about the I4.0 initiative. Reduction of the lack of qualified, experienced resources to undertake the transformation, especially in smaller companies.

**KEY SERVICES:**

**Technology services**

Collaborative R&D

Technical support on upscaling

Commercial infrastructure

Testing and validation

**Business services**

- Incubator/ accelerator support
- Access to finance and funding
- Skills and education
- Brokerage
- Market intelligence
- Access to Competence Centres

**Ecosystem services**

- Community building
- Visioning & strategy development
- Mentoring (in the network)

**PROJECTS AND SUCCESSFUL EXPERIENCIES**

**NAME OF THE PROJECT:** Xera

**OBJECTIVES:** To develop an automatic device for reading capacity and inventories of wine barrels using ultrasound

**WEBSITE:** <https://www.casksandbotastechnologies.com/>



## CLUSTER ASSOCIATION GRANADA PLAZA TECNOLÓGICA Y BIOTECNOLÓGICA, ON GRANADA TECH CITY



### BASIC INFORMATION

**NAME OF THE DIH:** CLUSTER ASSOCIATION GRANADA PLAZA TECNOLÓGICA Y BIOTECNOLÓGICA, ON GRANADA TECH CITY

**SHORT NAME:** Ongranada Tech City

**STATUS:** Fully operational

**GEOGRAPHIC SCOPE:** Andalucía (España)

**YEAR OF ESTABLISHMENT:** 2013

**Nº OF MEMBERS/PARTNERS:** 486

#### MEMBERS/PARTNERS:

Research & Technology organization:

University of Granada (UGR)

Foundation Centre of Excellence for Research into Innovate Medicines in Andalusia, Medina

Andalusia Public Foundation for Biomedical Research in Eastern Andalusia (FIBAO)

Spanish National Research Council (Institute of Astrophysics of Andalusia)

CSIC

Centre for Functional Food Research and Development (CIDAF)

Incubator/Accelerator:

UGR Entrepreneur

Business Development Support Centre, CADE

Start-up Company, SME:

409 SME's

Large enterprises:

BIDA FARMA, S.Coop. And.

SCA, HEFAGRA Pharmateutical Cooperative of Granada

Northgate Arinso Granada, S.A., ATHISA

Miguel García Sánchez e Hijos, S.A.

PC Componentes

Experis Manpower SLU

Indra Software Labs

Arenlace SL

Coviran SCA

Nokia Transformation Engineering and Consulting services

Telefónica SA

Networked/Cluster organization

Cluster Andalucía Smart Cities

ETICOM

Private Investors, institutes

Caixa Bank

Economic Development Agencies

Innovation and Development Agency of Andalusia (IDEA Agency)

Educational Institutes

School Mulhacen

Business Training Centre DIVISION FORMACION

Training Centre Hermanos Naranjo

Industry Associations

Association of electronics, information technologies, telecommunications and Digital Content Companies (FAITEL)

Spanish Science Industry Association (INEUSTAR)

Granada Association of Young Entrepreneurs (AJE)

Employers' Confederation of Granada

Employers' Confederation of Malaga

Association EUROCLOUD ESPAÑA

Provincial Association of Private Vocational and Training Centres

Association of Builders and Promoters of Granada

Regional Governments

Regional Governments of Andalusia, Junta de Andalucía

Provincial Council of Granada, Diputación de Granada

Granada Town Hall

Granada Chamber of Industry and Commerce  
 Official Association of Telecommunication Engineers of Eastern Andalusia  
 Trade Union :Comisiones Obreras (CCOO)  
 Trade Union; Union General de Trabajadores (UGT)  
 Unión Iberoamericana de Municipalistas

#### **SERVED SECTORS:**

##### **Agricultural sector:**

Fruits, greenhouses and vegetables

#### **CONTACT DETAILS**

**WEBSITE:** <https://www.ongranada.com/>

**SOCIAL MEDIA:** Twitter (@onGranadaTC) Facebook (@ongranada)

**EMAIL:** antonio@ongranada.com; comunicacion@ongranada.com

**CONTACT PERSON:** Antonio Alcántara

#### **MISSION**

**MISSION / OBJECTIVES:** On Granada Tech is a business ecosystem which comprises more than 600 associated companies. Its main objectives are to promote entrepreneurship, develop innovation, implement research and development projects, attract investment, promote the creation of qualified employment, promote digitalisation, as well as facilitate the transfer of knowledge between the knowledge centres, private entities and the companies.

**COMPETENCES:** On Granada Tech City aims to contribute to the digitalisation of the productive sectors of the region of Andalusia. Some activities and services provided by On Granada are the following:

- Research & Development projects.
- Dynamisation and promotion of the technologies to contribute to the digitalization process.

- Training and employment.
- Promotion of entrepreneurship and funding

#### **KEY SERVICES:**

##### **Technology services**

Collaborative R&D

Technical support on upscaling

#### **PROJECTS AND SUCCESSFUL EXPERIENCIES**

**NAME OF THE PROJECT:** Digiclusters

**OBJECTIVES:** The project's objective is the industrial modernization of agrifood and packing sector towards Industry 4.0 and digital transformation. In addition to boosting the industrial competitiveness of the EU, it aims to create and consolidate a network of collaborations and synergies between associations, companies and clusters, in the ICT and agrifood & packing sector

**WEBSITE:** <https://www.clustercollaboration.eu/node/6664>

### BASIC INFORMATION

**NAME OF THE DIH:** DIGITAL INNOVATION HUB OF LA RIOJA

**SHORT NAME:** RIOHUB

**STATUS:** Fully operational

**GEOGRAPHIC SCOPE:** La Rioja (España)

**YEAR OF ESTABLISHMENT:** 2017

**Nº OF MEMBERS/PARTNERS:** 7

**MEMBERS/PARTNERS:**

ADER-Agencia de Desarrollo de La Rioja

AERTIC Agrupación Empresarial Innovadora del sector TIC de La Rioja

CTIC-CITA Centro Tecnológico Agroalimentario

dirección General de Innovación, Trabajo, Industria y Comercio Dirección

Digital de Agenda Digital

CTCR-Centro Tecnológico del Calzado de La Rioja

ECONET consultants

**SERVED SECTORS:**

**Agricultural sector:**

Fruits, Dairy, vegetables, piggery and organic.

**Technical sector:**

All

### CONTACT DETAILS

**DIH ADDRESS:** Francisco Muro de la Mata 13-14

**WEBSITE:** In preparation. Provisional info:

<http://www.ader.es/servicios/proyectos-europeos/riohub/>

**EMAIL:** [riohub@larioja.org](mailto:riohub@larioja.org)

**CONTACT PERSON:** Enrique Esteban

### MISSION

**MISSION / OBJECTIVES:** The implementation of CPS technologies and Internet of Things (to be aligned with 4.0 Industry Regional Policy), in the manufacturing sectors where Rioja has traditionally been more active (to be aligned with Rioja RIS3), in order to become them more competitive.

**COMPETENCES:**

- Awareness creation
- Ecosystem building, scouting, brokerage, networking
- Collaborative Researches
- Testing and validation
- Incubator/accelerator support
- Education and skills development

**KEY SERVICES:**

**Technology services**

Collaborative R&D

Technical support on upscaling

Testing and validation

**Business services**

Incubator/ accelerator support

Access to finance and funding

Skills and education

Brokerage

Market intelligence

Access to Competence Centres

**Ecosystem services**

Community building

Visioning & strategy development

