

WORKSHOP UNIA “OLIVE CULTIVAR ADAPTATION AND CLIMATIC CHANGE”

NATIONAL COOPERATION ISSUES

**CITOLIVA-The Technological Centre
In Olive Farming and Olive Oil**

Baeza, 3th November 2017

CITOLIVA

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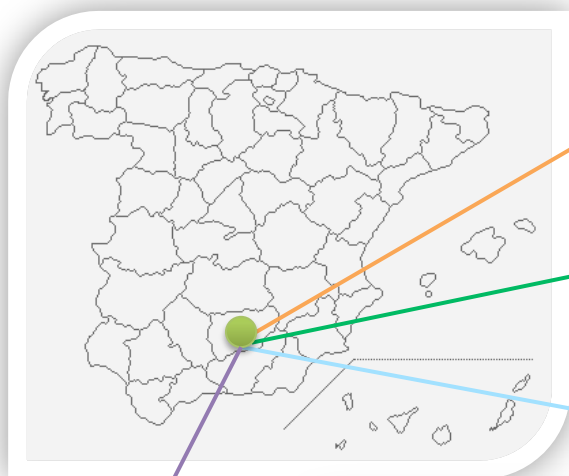
...hablamos?

Mission



CITOLIVA is technological centre expert in olive oil and food, committed to social and economic development of the olive and food sector, as well as sustainable development. It performs strategic and applied research, providing comprehensive and innovative solutions to customers and generating new knowledge.

Facilities



Science and technology park
GEOLIT



Office



Chemical and sensory
testing labs



COOKING-LAB

A SPACE OF CO-CREATION,
A MEETING POINT AMONG SCIENCE,
TECHNOLOGY AND GASTRONOMY,
WITH OLIVE OIL AS THE PROTAGONIST

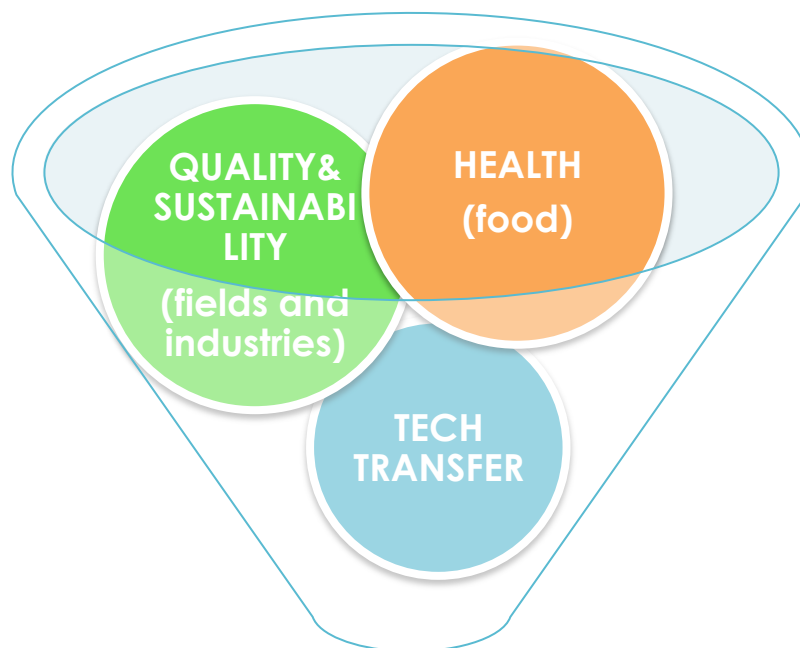


Organisational model

- ✓ Private non-profit foundation
- ✓ Management board made up by 24 representatives of companies from the olive oil and auxiliary industries, universities as well as the Regional Government



Main lines of activity



INNOVATION competitiveness

BRANDING training **R&D**

NETWORKING added value

HEALTH (food)









			2013	2014	2015	2016	2017
SALUD INTACTA	NG*	Study and optimization of processing food made with olive oil enriched with natural bioactive compounds for the development of functional food that keep intact their healthy properties					
FRITURA EXCELENCIA	RG**	Use of EVOO in frying. Effect on the sensory and bioactive properties of the food					
ASOAN	NG*	Biotechnological exploitation of the olive by-products in Andalusia leaded to the agri-food sector					
ATENA	NG*	The olive oil and other healthy fats. Technological applications for their processing into high added-value products					
GR2020	NG*	Development of advanced fats					
CHOCO AOVE	NG*	Development of healthier chocolate products by reducing the content in saturated and <i>trans</i> fatty acid by adding olive oil and plant extracts					

* Funded by national government

** Funded by regional government

** Funded by regional government

TECH TRANSFER

			2013	2014	2015	2016	2017
YoExporto Aceite	RG**	Strengths and weakness of the internationalization of the olive sector: the case of small and medium-sized enterprises					
TRAFOON	FP7	Traditional Food Network to improve the transfer of knowledge for innovation					
INOLETUR	NG*	Development of new products and oleouristic services					

* Funded by national government

** Funded by regional government

CITOLIVA®

www.citoliva.es



...hablamos?

Acesur
INNOVAMOS POR TRADICIÓN

sovena

DCOOP

GRUPO interóleo

Partnerships

Melgarejo
Aceite de Oliva Virgen Extra

VALLEJO
ACEITES

HACIENDA EL PALO
-ACEITES-

CASTILLO DE CANENA
1780

MONVA

CASTILLO DE TABERNAS

JAENCOOP
grupo

SAN ISIDRO
S.C.A. LABRADOR

GRUPO oleocampo S.C.A.
PRODUCTOR Y COMERCIALIZADOR DE ACEITE DE OLIVA

ORO DE CÁNAVA
ACEITE DE OLIVA VIRGEN EXTRA

PICUALIA
EXTRAVIRGEN OLIVA DE CAL

OLIVAR DE SEGURA
COOPERATIVA ANDALUZA

CONSEJO REGULADOR DE LA OLIVA DE SIERRA MAGINA

Clasamunt
EXTRA VIRGIN

oleomar
ACEITE DE OLIVA VIRGEN EXTRA

Elayo
grupo

Valoriza
Energía

Interprofesional del aceite de
Oliva
español

GEA
GEA Westfalia Separator



cooperativas agro-alimentarias
Andalucía

biomaslinic
para vivir mil años

Mercacei
información | aove | olivar

ASOCIACIÓN DE INVESTIGACIÓN DE INDUSTRIAS CÁRNICAS PRINCIPADO DE ASTURIAS

interóleo
PICUALJAEN

FIAB
FEDERACIÓN ESPAÑOLA DE INDUSTRIAS DE LA ALIMENTACIÓN Y BEBIDAS

afre
Tecnología española del agua

azti
tecnalia

VITARTIS

pic
Plant InterCluster

fera
The Food and Environment Research Agency

ctaex
centro tecnológico agroalimentario

cicap
CENTRO TECNOLÓGICO

tecnova
CENTRO TECNOLÓGICO

cidaut
Fundación Investigación y Desarrollo en Agua y Energía

Adesva
CENTRO TECNOLÓGICO DE LA AGROINDUSTRIA

CTC
Centro Tecnológico Nacional de la Conserva y Alimentación

ctm
CENTRO TECNOLÓGICO

IAT
Innovación y Tecnología

andaltec
CENTRO TECNOLÓGICO DEL PLÁSTICO

dbA
centro de desenvolviments biotecnològics i agroalimentaris

acal
Asociación para la mejora competitiva del Cluster Agroindustrial

clúster alimentario de galicia

CSIC

National Research Council of Italy

Tic cita
Centro Tecnológico de la Industria Cármica de La Rioja | Centro de Innovación y Tecnología Alimentaria de La Rioja



CICYTEX

CENTRO DE INVESTIGACIONES CIENTÍFICAS Y TECNOLÓGICAS DE EXTREMADURA

UNIVERSIDAD DE CORDOBA



Instituto de Investigación y Formación Agraria y Pesquera CONSEJERÍA DE AGRICULTURA, PESCA Y MEDIO AMBIENTE



IRTA
RECEPCIÓ I TECNOLOGIA AGROALIMENTARIES

WAGENINGEN UNIVERS WAGENINGEN

INP
TOULOUSE

UNIVERSITAT POMPEU FABRA

EUROPEAN COMMISSION
(DG ENV, DG CLIMA, EASME)

LIFE Programme 2014-2020



LIFE programme

- Financial instrument for the **environment, nature conservation** and **climate action**
- Applicants: **private** organizations, **public** bodies and **NGOs (from Member States)**
- Projects: cooperation (**national** and **international**)

Sub-programmes of LIFE

Environment

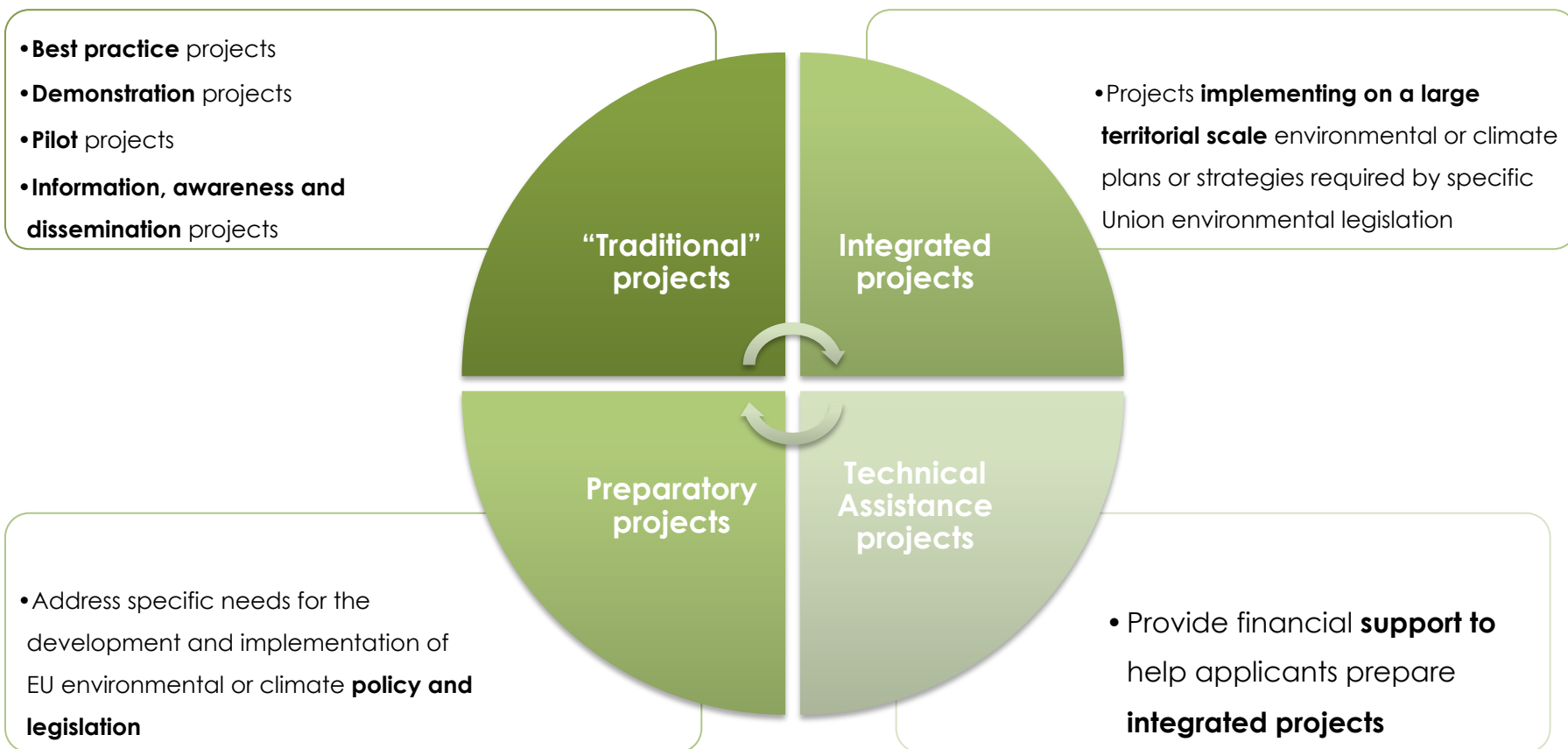
- Nature & Biodiversity
- Environment & Resource Efficiency
- Environmental Governance & Information

75% of the
budget for
implementation

Climate Action

- Climate Change Mitigation
- Climate Change Adaptation
- Climate Governance and Information



Funding schemes of LIFE calls



General characteristics of LIFE projects

- Minimum financeable budget per beneficiary: **not apply**
- Duration of projects: **not apply**
- Partners: there is **no minimum number** of beneficiaries set and **transnationality is not a requirement**
- Subsidy up to **55%** (general)

Examples of funded projects by LIFE call related to the topic of interest

Date	Leader country	Leader organization	Project title
2016	Spain	Universidad de Murcia	LIFE AMDRYC4 - Climate Change adaptation of dryland agricultural systems in the Mediterranean area
2015 	Italy	Università degli Studi di Perugia	OLIVE4CLIMATE LIFE - Climate change mitigation through a sustainable supply chain for the olive oil sector
2014	Greece	Spyridis A. - Koutalou V. G.P. HYETOS	LIFE AGROCLIMAWATER - Promoting water efficiency and supporting the shift towards a climate resilient agriculture in Mediterranean countries
2014	Greece	National observatory of Athens	LIFE ADAPT2CLIMA - Adaptation to Climate change Impacts on the Mediterranean islands' Agriculture
2011 	Greece	Development Agency of Eastern Thessaloniki's Local Authorities, ANATOLIKI SA	oLIVE-CLIMA - Introduction of new olive crop management practices focused on climate change mitigation and adaptation

MINECO (Spanish Ministry of Economy,
Industry and Competitiveness)

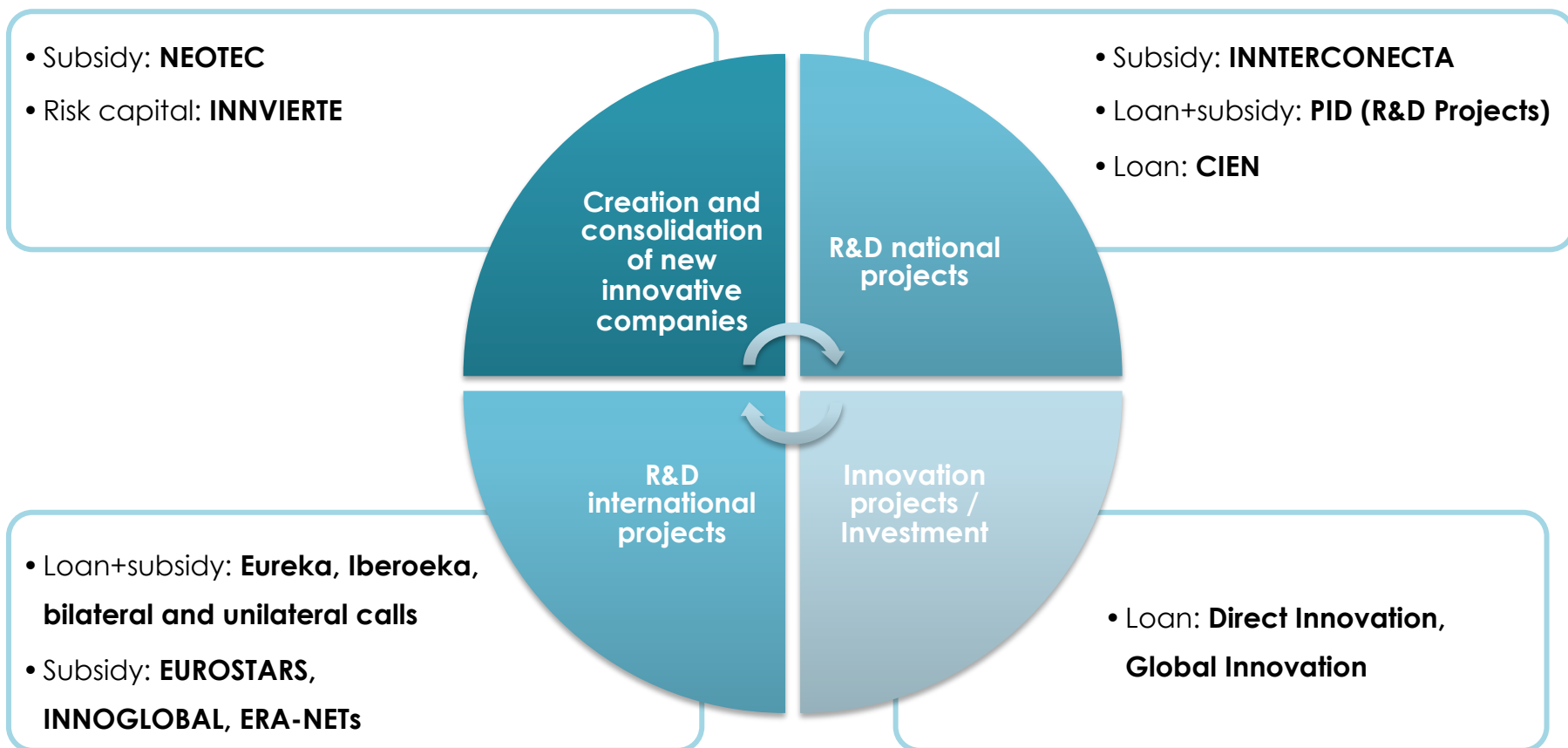
CDTI
**(Centre for the Development
Industrial Technology)**



Philosophy of CDTI

- Funding of **applied** R&D
- Applicants: only **companies** (research organizations always under subcontracting schemes)
- Projects: **individual** or **cooperation** (national and international)
- **Market** orientation

Funding schemes of CDTI



General characteristics of R&D national projects

- Minimum financeable budget per company: **€ 175,000**
- Duration of projects: **12-36 months**
- Open calls: **without specific topics**
- Loan: up to **85%** of the financeable amount (to be returned in 10 years, 2-3 years of waiting period)
- Non-refundable tranche (subsidy): up to **30%** of the loan

International cooperation projects

- Open collaboration among companies and research centres
- **Each country assumes the financing of its participating organizations**
- These calls endorse the projects approved by a "seal of quality"
- At least, 2 countries participating
- Non-refundable tranche (subsidy): up to **33%** of the loan

International cooperation projects: EUREKA and IBEROEKA countries



IBEROEKA
Proyectos de Innovación

21 countries: **Argentina**, Bolivia, **Brazil**, Colombia, Costa Rica, Cuba, **Chile**, Ecuador, El Salvador, **Spain**, Guatemala, Honduras, Mexico, Nicaragua, Panama, Paraguay, **Peru**, **Portugal**, Dominican Republic, Uruguay and Venezuela



40 countries: Germany, Austria, Belgium, Bulgaria, Croatia, Cyprus, Denmark, Estonia, Finland, **France**, Germany, **Greece**, Hungary, Ireland, Iceland, **Israel**, Latvia, Lithuania, Luxembourg, Macedonia, Malta, Monaco, Montenegro, Norway, the Netherlands, Poland, **Portugal**, Romania, Russian Federation, San Marino, Serbia, **Spain**, Sweden, Switzerland, **Turkey**, Ukraine and the United Kingdom

International cooperation projects: bilateral and unilateral calls

Bilateral calls*

Algeria, Brazil, Canada, China, Korea, Egypt, India, Japan, Malaysia, Russia, South Africa, Thailand







***Specific agreement between CDTI and each of these countries**

Unilateral calls**

Algeria, Argentina, Australia, Bangladesh, **Brazil,** Cambodia, **Chile,** China, Colombia, Costa Rica, Ecuador, **Egypt,** India, Indonesia, Laos and Myanmar, **Lebanon,** Japan, Malaysia, **Morocco,** Mexico, Pakistan, **Peru,** Singapore, Sri Lanka, Thailand, Taiwan, Tunisia, **USA** and Vietnam

****For the partners of these countries there is no commitment of public financing**

Examples of funded projects by CDTI related to the topic of interest

Date	Product	Beneficiary company(ies)	Project title
Sep 2017		Investigacion y tecnologia de uva de mesa SL	Obtaining new varieties of table grape before a climate change scenario
Jul 2017		Lands and Buildings SL	Determination of the optimal moment for olive harvesting through a decision support system
Dec 2016		Bodegas Rodas SA	Development and exploitation of the genetic variability of tempranillo and malbec cultivars for their adaptation to climate change conditions
Oct 2016		Bodegas Martín Codax, Bodegas Ramón Bilbao, Grupo Hispatec Informática Empresarial, Juve and Camps, Miguel Torres, Pago de Carraovejas, Pellenc Ibérica, Viveros Villanueva Vides	Global solution to improve wine production against climate change based on robotics, IT technology and biotechnology and vineyard management strategies
Jun 2016		Castillo de Canena	Strategies for maximize the synthesis of healthy compounds in olive
Apr 2016		Bodega Classica	Adaptation and cultivation of grape varieties of the Rioja as a strategy to mitigate the effects of climate change on the vineyard and the possibility of elaboration of differentiated sparkling wines

MINECO (Spanish Ministry of Economy,
Industry and Competitiveness)

**AEIs-Agrupaciones Empresariales Innovadoras
(Innovative Business Groupings)**







AEIs

- **Innovative Business Grouping (AEI):** combination, in a geographical space or productive sector, of companies and public or private research and training centers, involved in a collaborative exchange process aimed at obtaining advantages and /or benefits derived from the execution of joint projects of an innovative nature
- There is an **official register at MINECO** compiling AEIs and all their members
- CITOLIVA belongs to **INOLEO**, the AEI for goods and services supply to olive sector

AEIs call

- Funding of projects performed by **AEIs and their members**
- Applicants: only **organizations registered** at the official register of AEIs from the MINECO
- Projects: **individual** or **cooperation** (at national level)
- **Feasibility studies** and **innovation and applied R&D** projects
- Open call: **without specific topics** (but projects including Industry 4.0 have higher score)
- Project budget between **€ 100,000 and € 500,000**
- Subsidy between **15 and 80%**, depending on the size of the organization and the type of project

Examples of funded projects by AEIs call related to the topic of interest

Date		Beneficiary AEI	Project title
2017		INOLEO	Optimization of irrigation according to meteorological criteria
2017		INOLEO	Development of a platform of energy management in olive mills based on AI and big data
2017		ASSOCIACIÓ AEI INNOVI	Open innovation platform for the improvement of sustainability in the wine sector
2017		ASSOCIACIÓ AEI INNOVI	Software for calculating the water footprint and expert system for making decisions and improving energy flow in the wine sector

MAPAMA (Spanish Ministry of Agriculture,
Food and Environment)

**GOsSUP-Grupos Operativos Supraautonómicos
(Supra-autonomic Operational Groups)**

GOs SUP call

- **5 focal areas:** improve economic results, competitiveness, environment and biodiversity, use of water and knowledge based-bioeconomy
- Applicants: **at least 2** from different regions and within 3 profiles (agri-food and forestry sectors, research and other stakeholders)
- Project budget **€ 100,000** maximum
- Subsidy between **50 and 100%**

Examples of funded projects by GOs SUP call related to the topic of interest

Date	Beneficiary	Project title
2017	AGRUPACION DE COOPERATIVAS AGRARIAS DE MURCIA	Adaptation of the stone fruit sector to climate change



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at CITOLIVA



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