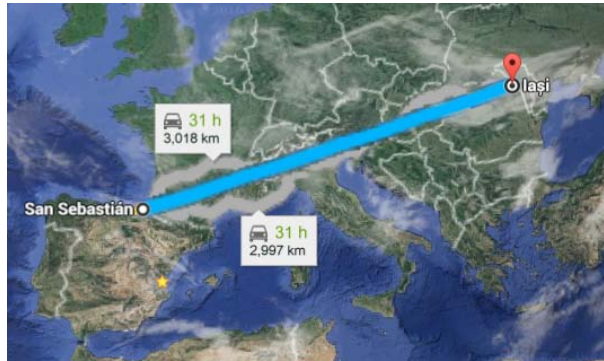


TENEMOS
MUCHO
QUE HACER
JUNTOS

Biotehnologii în agricultură ca oportunitate pentru abordarea temelor privind securitatea alimentară, agricultura durabilă și bioeconomia

Nerea Anacabe



European Commission SMART SPECIALISATION PLATFORM 3

European Commission / Smart Specialisation Platform / S3 Platform / Registered Regions / Regions / Spain

Home S3 Platform S3 Guidance S3 Sections S3 Tools News Events Knowledge Repository Search

SPAIN NUTS 0 : ES ES

Facts & Figures

Capital: Madrid
 Size: 505,990.7 km²
 Population: 46,196,276
 National GDP: 1,022,988 (2013)
 National GERD (%): 1.24 (2013)
 % of Unemployment: 21.7
 S3 related National Website
[RIO-PSF page - SPAIN](#)



505.000Km²
 > 46M population

Contacts

S3 Priorities as Encoded in the "Eye@RIS3" Tool

Description	Capabilities	Target Markets	EU Priorities
-------------	--------------	----------------	---------------

RIS3 Related Links

Country Related News

European Commission SMART SPECIALISATION PLATFORM 3

European Commission / Smart Specialisation Platform / S3 Platform / Registered Regions / Regions / Romania

Home S3 Platform S3 Guidance S3 Sections S3 Tools News Events Knowledge Repository Search

ROMANIA NIITS 0 : RO RO

Facts & Figures

Capital: Bucharest
 Size: 238,390.7 km²
 Population: 21,355,849
 National GDP: 142,245.1 (2013)
 National GERD (%): 0.39 (2013)
 % of Unemployment: 7.4
 S3 related National Website
[RIO-PSF page - ROMANIA](#)
[National S2E Profile](#)



239.000Km²
 > 21M population

S3 Priorities as Encoded in the "Eye@RIS3" Tool

Description	Capabilities	Target Markets	EU Priorities
Safe, accessible, nutritionally optimized food. Sustainable development in forestry. Zootechnics, veterinary medicine, fishing and aquaculture. New products, practices, processes and technologies in horticulture. Sustainable development of fields crops. Biotechnologies for agro-food. Nanobiotechnology. Environmental and industrial biotechnologies. Bioanalysis. Medical and pharmaceutical biotechnologies. In vitro/ in vivo assessment for generic drugs. Systemic, local and targeted drug delivery and technologies to optimize the biopharmaceutical and pharmacokinetic profile. Molecular design, (bio)synthesis, semisynthesis, high-performance screening.	1. Manufacturing & Industry 2. Biotechnology	1. Manufacturing & Industry 2. Food, beverage & tobacco products	1. KETs 2. Industrial biotechnology

Basque Country <i>Euskadi</i> ^a (Basque) <i>País Vasco</i> or <i>Euskadi</i> (Spanish)	
Autonomous community	
Autonomous Community of the Basque Country <i>Euskal Autonomia Erkidegoa</i> ^b (Basque) <i>Comunidad Autónoma del País Vasco</i> (Spanish)	
	
Flag	Coat of arms
Anthem: Eusko Abendaren Ereserkia	
	
Location of the Basque Country community in Spain. Coordinates: 42°50'N 2°41'W	
Capital	Vitoria-Gasteiz (<i>de facto</i>)
Provinces	Álava, Biscay, Gipuzkoa
Government	
• Type	Devolved government under constitutional monarchy
• Body	Basque Government
• <i>Lehendakari</i> (Head of the government)	Iñigo Urkullu (EAJ/PNV)
Area	
• Total	7,234 km ² (2,793 sq mi)
Area rank	14th (1.4% of Spain)
Population (2014)	
• Total	2,166,184
• Density	300/km ² (780/sq mi)
• Rank	7th (4.9% of Spain)



País Vasco/
Euskadi



Nord-Est Region	
	
Country	 Romania
Development Agency HQ	Piatra Neamț
Largest city	Iași
Area	
• Total	36,850 km ² (14,230 sq mi)
Population (2011)	
• Total	3,302,217
• Density	90/km ² (230/sq mi)
Ethnic groups	
• Romanians	97.9%
• Roma	1.2%
• Ukrainians	0.3%
Time zone	EET (UTC+2)
• Summer (DST)	EEST (UTC+3)
NUTS code	RO21
GDP per capita (PPS)	€9,500 (2014) ^[1]
Website	http://www.adrnordest.ro/



Stogskemi project (Sweden)

Clúster del **sectorul chimic**
en Stenungsund (principal
en Suecia)



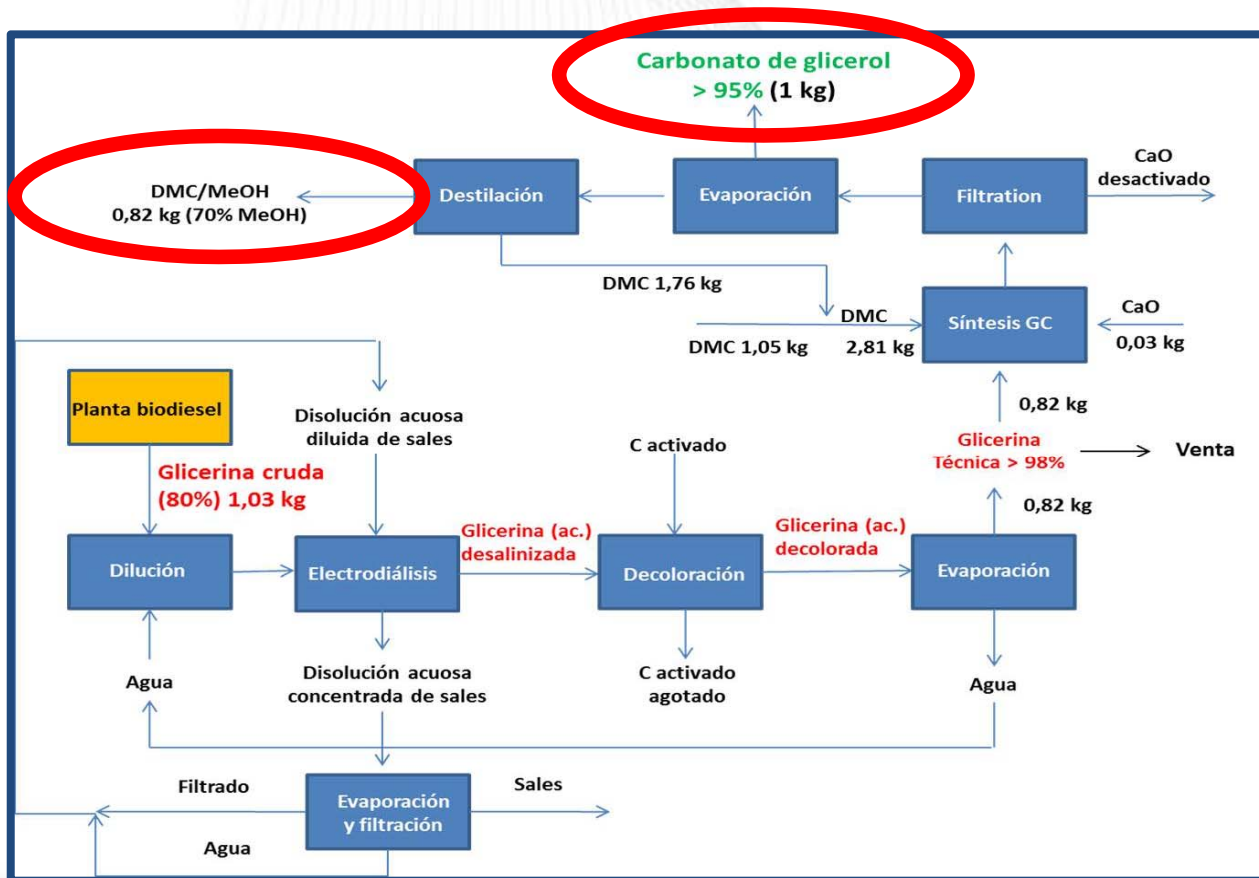
Clúster Processum de
“**industria forestieră**” /
biorrefinería



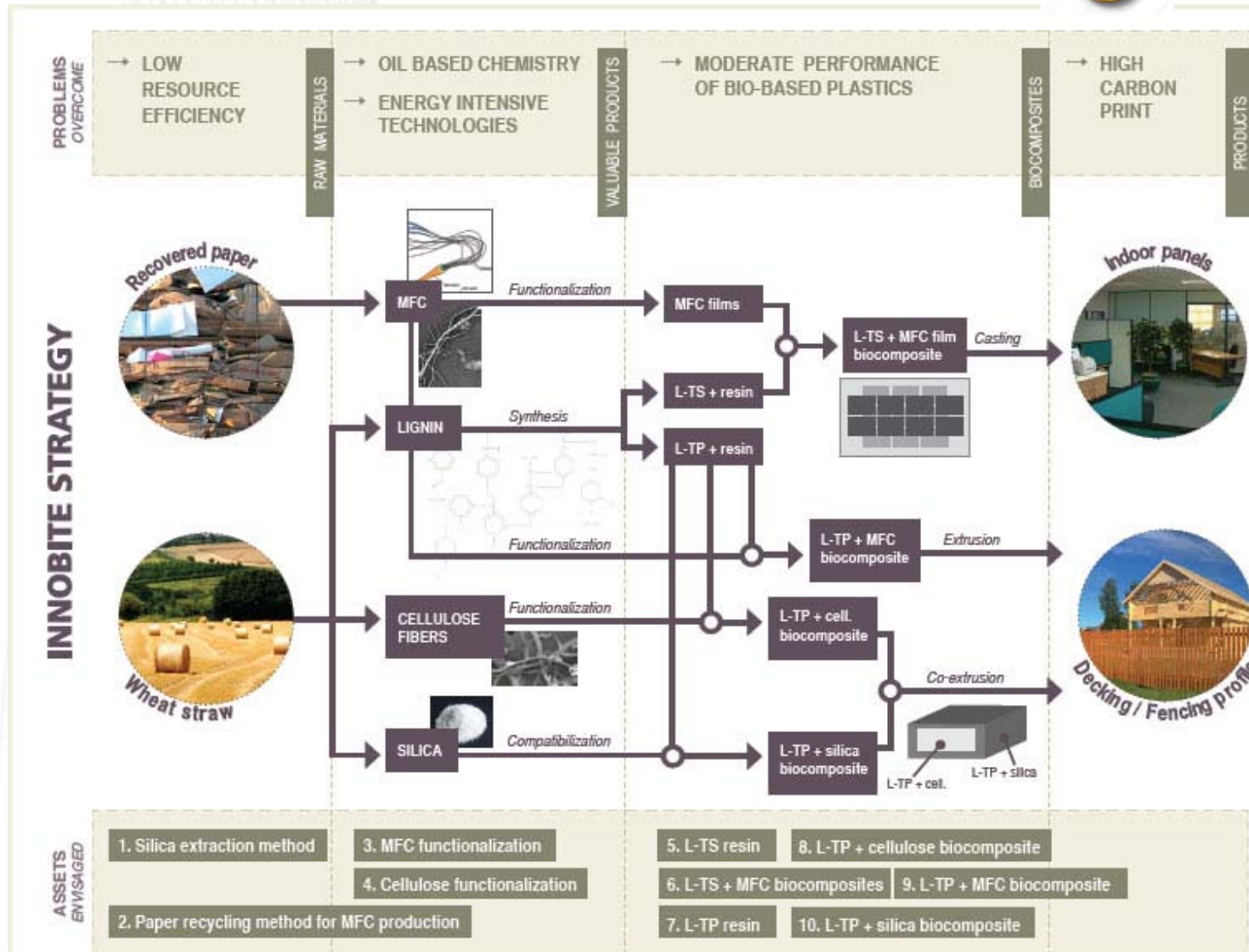
Trabajan en tres cadenas de valor:

- Olefinas de madera vía metanol o etanol
- Butanol de madera vía etanol
- Metanol a partir los gases generados al fabricar pasta de papel

TECNALIA desarrolla la valorización de la **glicerina** procedente de la producción de Biodiesel, sintetizando a partir de la misma **productos químicos altamente demandados**, mediante un proceso ya patentado.

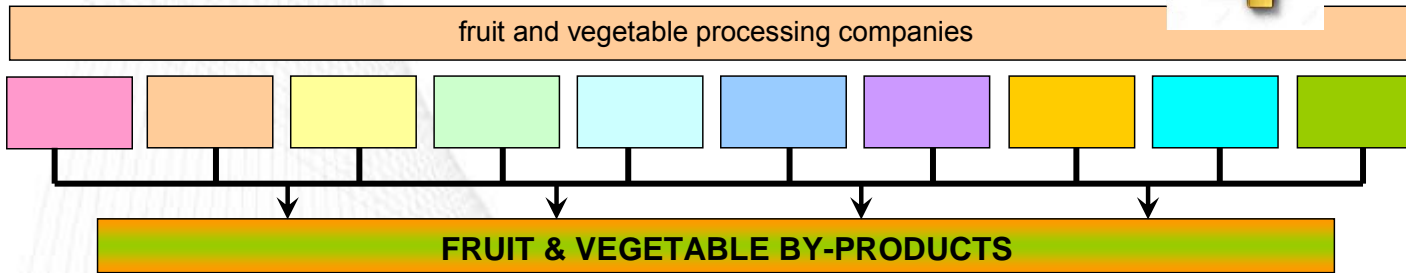


CLAMBER está siendo gestionado y desarrollado por el Instituto de la Vid y el Vino de Castilla-La Mancha (IVICAM), está financiado con fondos FEDER y supervisado por el MINECO. En él participa activamente también la Junta de Comunidades de Castilla-La Mancha.



MFC (Microfibrillated Cellulose) / L (Lignin) / TP (Thermoplastic) / TS (Thermosetting)

TRANSBIO (<http://www.transbio-sudoe.eu/>)



PAST

LANDFILLING

NOWADAYS
FORBIDDEN DUE TO LEGISLATION



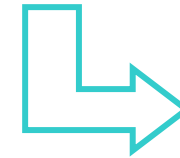
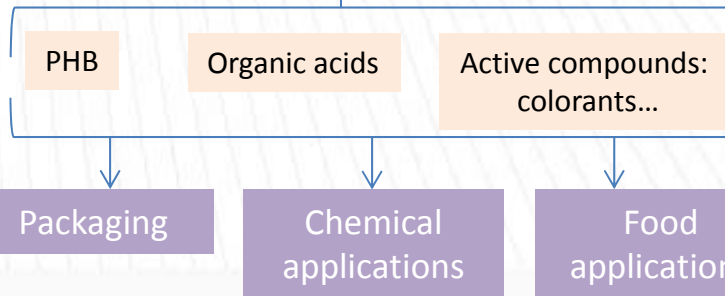
DUE TO TRANSBIO RESULTS POSSIBILITY TO ESTABLISH

CENTRALIZED COLLECTION & PRE-TREATMENT FACILITY

DRIED BY-PRODUCT AS POWDER FOR HYDROLYSIS

LIQUID SUGAR RICH HYDROLYSATE FOR FERMENTATION

PRODUCT FOR SOLID STATE FERMENTATION



FEED, COMPOSTING BIOGAS

CURRENTLY

- Collection by small animal farmers
- NO centralized & coordinated collection & treatment established

Enzymes

Cosmetic

Detergent

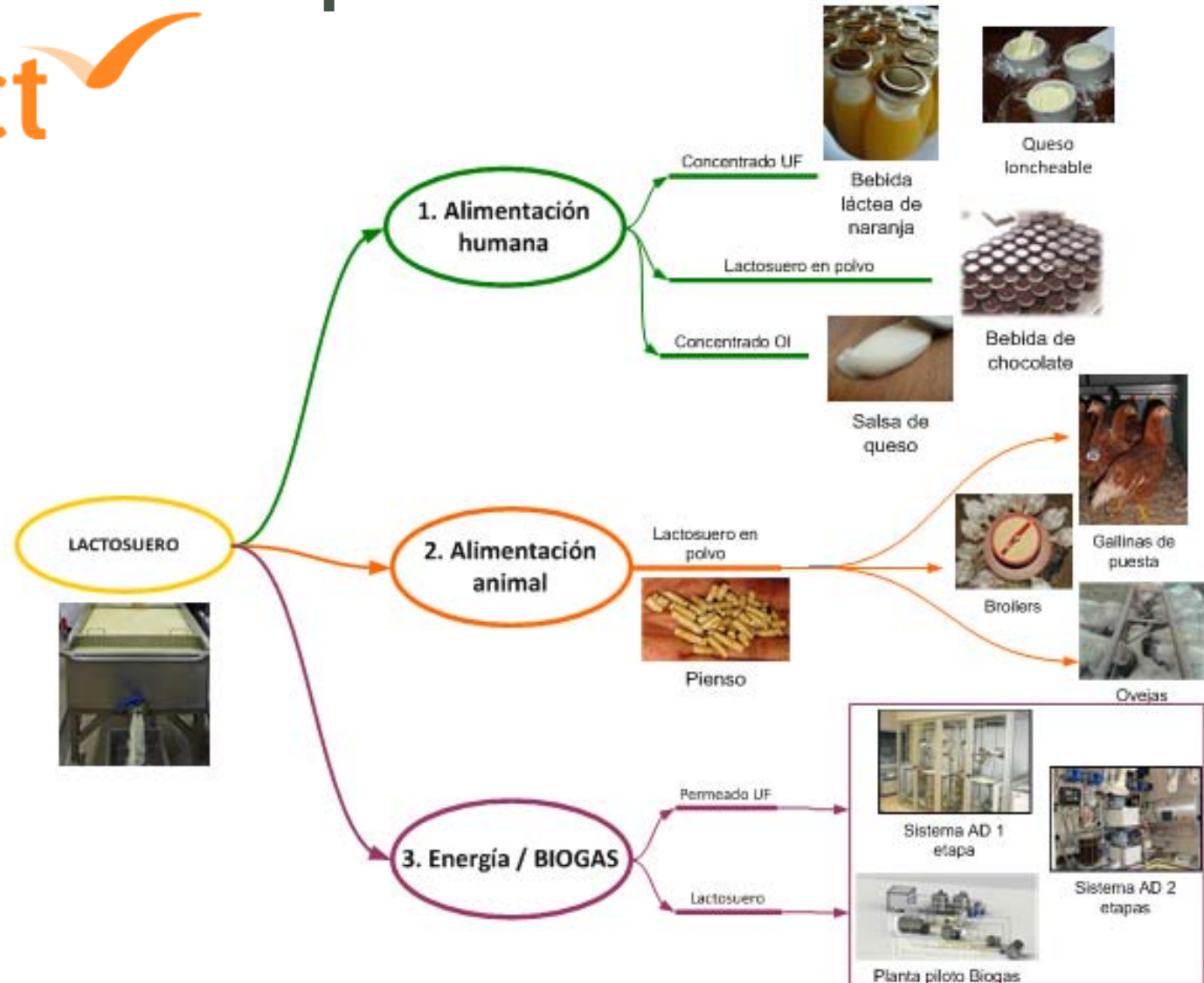
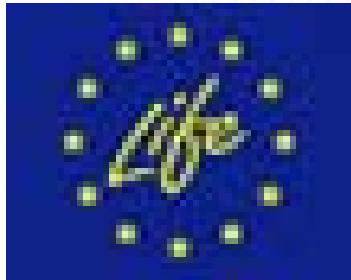
Valorización de subproductos alimentarios

Extractos subproductos tomate, cardo, ciruela en alimentación y cosmética



Valorización de subproductos alimentarios

valorlact
 whey to future



Cheile Succesului

1

chimie în sectorul agro

70

60

50

40

30

20

10

0

6

munca în echipă

sprijin din sectorul public

2

5

disponibilitatea biomasei

completează lanțul valoric

3

utilizarea în cascadă

4

Main figures
in 2014

PEOPLE IN TECNALIA

1,434 PEOPLE
ON STAFF

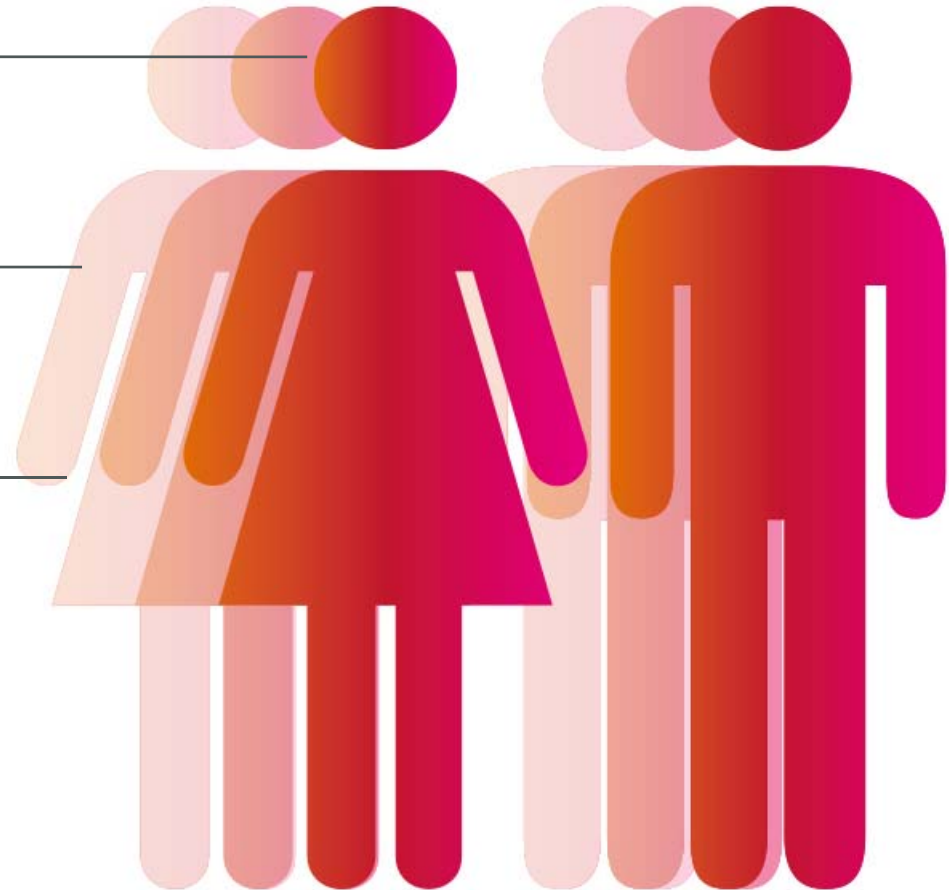
 **56 %** MEN
 **44 %** WOMEN

 **29** DIFFERENT
NATIONALITIES

41 AVERAGE
AGE

202 NUMBER OF
PHDS

Figures on 31 December 2014



1st
national private
organisation in hiring,
participation and
leadership for the EU
7th Framework Programme
for R&D&I.

1st NATIONAL PRIVATE ORGANISATION IN HIRING, PARTICIPATION AND LEADERSHIP FOR THE EU 7th FRAMEWORK PROGRAMME FOR R&D&I.



Summary of Spanish participation in the EU 7th Framework Programme for Research (2007 - 2013)

RANKING PER INVESTMENT RETURN

Organisation	Activities	
	No.	Led
AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS	693	271
FUNDACIÓN TECNALIA RESEARCH & INNOVATION	377	85
UNIVERSIDAD POLITÉCNICA DE MADRID	256	70
INDRA SISTEMAS, S.A.	58	11
UNIVERSIDAD POMPEU FABRA	137	71
UNIVERSIDAD DE BARCELONA	150	69
TELFÓNICA INVESTIGACIÓN Y DESARROLLO S.A.	112	15
ATOS SPAIN, S.A.	148	35
UNIVERSIDAD POLITÉCNICA DE CATALUÑA	169	42
FUNDACIÓ CENTRE DE REGULACIÓ GENÓMICA	66	42
UNIVERSIDAD AUTÓNOMA DE BARCELONA	157	52
BARCELONA SUPERCOMPUTING CENTER	72	17
UNIVERSIDAD POLITÉCNICA DE VALENCIA	117	30
ACCIONA INFRAESTRUCTURAS, S.A.	110	11
FUNDACIÓN CENTRO NACIONAL DE INVESTIGACIONES ONCOLÓGICAS CARLOS III	47	21
INSTITUT DE CIENCIES FOTÒNIQUES	61	39
UNIVERSIDAD AUTÓNOMA DE MADRID	86	32
UNIVERSIDAD DEL PAIS VASCO	90	29
ENTE PÚBLICO AEROPUERTOS ESPAÑOLES Y NAVEGACIÓN AÉREA	23	0
UNIVERSIDAD COMPLUTENSE DE MADRID	93	17
FUNDACIÓN TEKNIKER	65	11
UNIVERSIDAD DE ZARAGOZA	76	28
UNIVERSIDAD CARLOS III DE MADRID	66	17
UNIVERSIDAD DE SANTIAGO DE COMPOSTELA	65	18
UNIVERSIDAD DE VALENCIA	68	21

The above table includes 25 Spanish institutions which have obtained a greater return from FP7 sorted by funding-

The first three Spanish bodies listed by return are among the top hundred having obtained greater funding from the 7FP throughout the EU.

A European
Benchmark

**PARTICIPATION IN THE EU
7th FRAMEWORK PROGRAMME (2007-2013)**

Position	Organisation	Type	Country
1	CNRS - CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE	REC	FR
2	FRAUNHOFER-GESELLSCHAFT	REC	DE
3	CEA - COMMISSARIAT A L'ENERGIE ATOMIQUE	REC	FR
4	THE UNIVERSITY OF CAMBRIDGE	HES	UK
5	THE UNIVERSITY OF OXFORD	HES	UK
6	CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS	REC	ES
7	CONSIGLIO NAZIONALE DELLE RICERCHE	REC	IT
8	MAX PLANCK GESELLSCHAFT	REC	DE
9	IMPERIAL COLLEGE OF SCIENCE, TECHNOLOGY AND MEDICINE	HES	UK
10	UNIVERSITY COLLEGE LONDON	HES	UK
11	EIDGENOESSISCHE TECHNISCHE HOCHSCHULE ZUERICH	HES	CH
12	KATHOLIEKE UNIVERSITEIT LEUVEN	HES	BE
13	ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE	HES	CH
14	VTT	REC	FI
15	DEUTSCHES ZENTRUM FUER LUFT - UND RAUMFAHRT EV	REC	DE
16	TNO	REC	NL
17	INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE	REC	FR
18	DANMARKS TEKNISKE UNIVERSITET	HES	DK
19	TECHNISCHE UNIVERSITEIT DELFT	HES	NL
20	THE UNIVERSITY OF EDINBURGH	HES	UK
21	KOBENHAVNS UNIVERSITET	HES	DK
22	THE UNIVERSITY OF MANCHESTER	HES	UK
23	FUNDACIÓN TECNALIA RESEARCH & INNOVATION	REC	ES
24	JRC - JOINT RESEARCH CENTRE- EUROPEAN COMMISSION	REC	EU
25	KARLSRUHER INSTITUT FUER TECHNOLOGIE	HES	DE

SOURCE: 5th FP7 MONITORING REPORT 2013 (EUROPEAN COMMISSION)

* REC: RESEARCH ORGANISATION

* HES: HIGHER OR SECONDARY EDUCATION ORGANISATION

TECNALIA ranks **23rd** out of **32,000** European organisations involved.

SOME FIGURES

377 PROJECTS APPROVED

85 PROJECTS LED (21.5%)

131 CONTRACTS (€M)
4% OF CONTRACTS WON IN SPAIN

IN CO-OPERATION WITH

2,890
EUROPEAN ORGANISATIONS

570
SPANISH ORGANISATIONS

406
SPANISH COMPANIES

109
BASQUE COMPANIES

Positioning in public-private initiatives

The EU is increasingly outsourcing the management to Public-Private Organisations with greater independence to influence R&D&I. One of TECNALIA's key success factors is its **strategic positioning in over 60 major European public-private initiatives and Associations.**

21 ETP: European
Technology Platforms
**Manufuture,
Artemisia or
SmartGrids**

10 PPP: Public Private
Partnerships
**Factories of the
Future, Green Cars
or Energy Efficient
Building**

3 JTI:
Joint Technology
Initiatives
**Clean Sky, Artemis
and Hidrogen
& Fuel Cell**

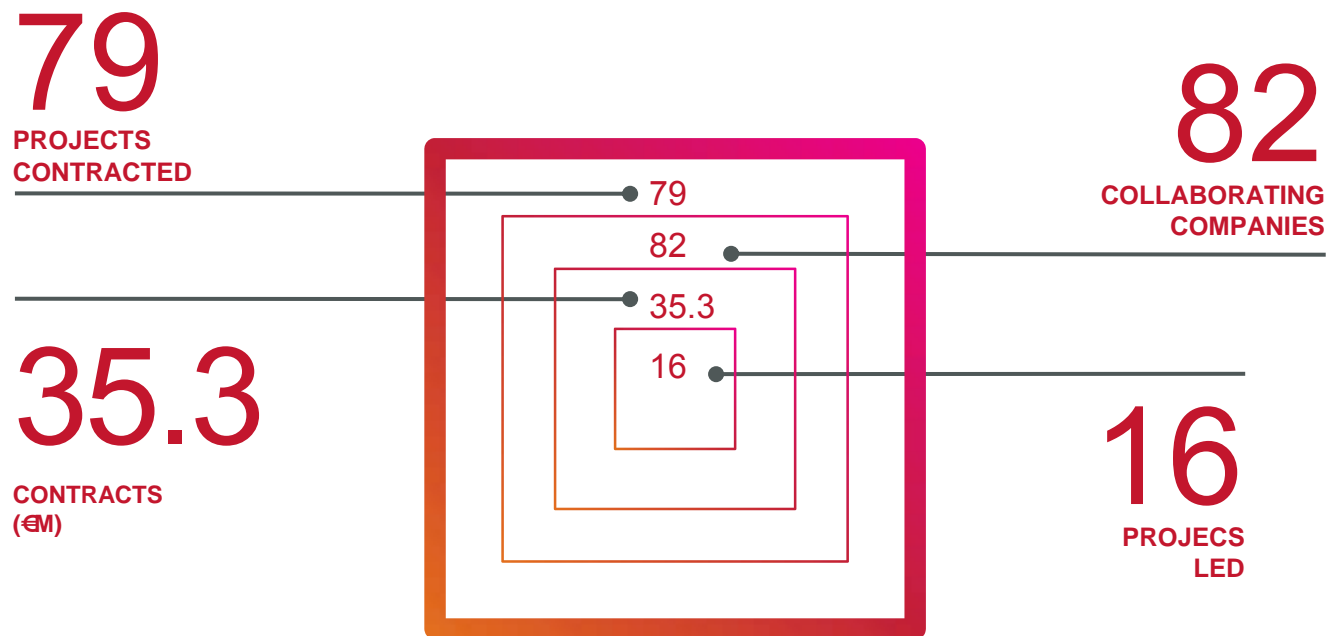
2 EIP: European
Innovation Partner
**Raw Materials
& A.H. Ageing**

2 KIC: Knowledge and
Innovation Communities
**Innoenergy,
Raw Materials**

1 JPI:
Joint Programming
Initiative
Cultural Heritage

Over 15 leading
Associations
EARTO...

PARTICIPATION IN HORIZON 2020



Figures on 30 September 2015

Vă mulțumesc foarte mult pentru atenție
nerea.anacabe@tecnalia.com



“Capacitatea de a continua
orchestratie deschiderea Camino”