

## INNOVATION & TRANSFER SESSION

Begoña Vicente Yenes – Head of Business Development of Research Institutes

[www.unavarra.es/research-institutes](http://www.unavarra.es/research-institutes)

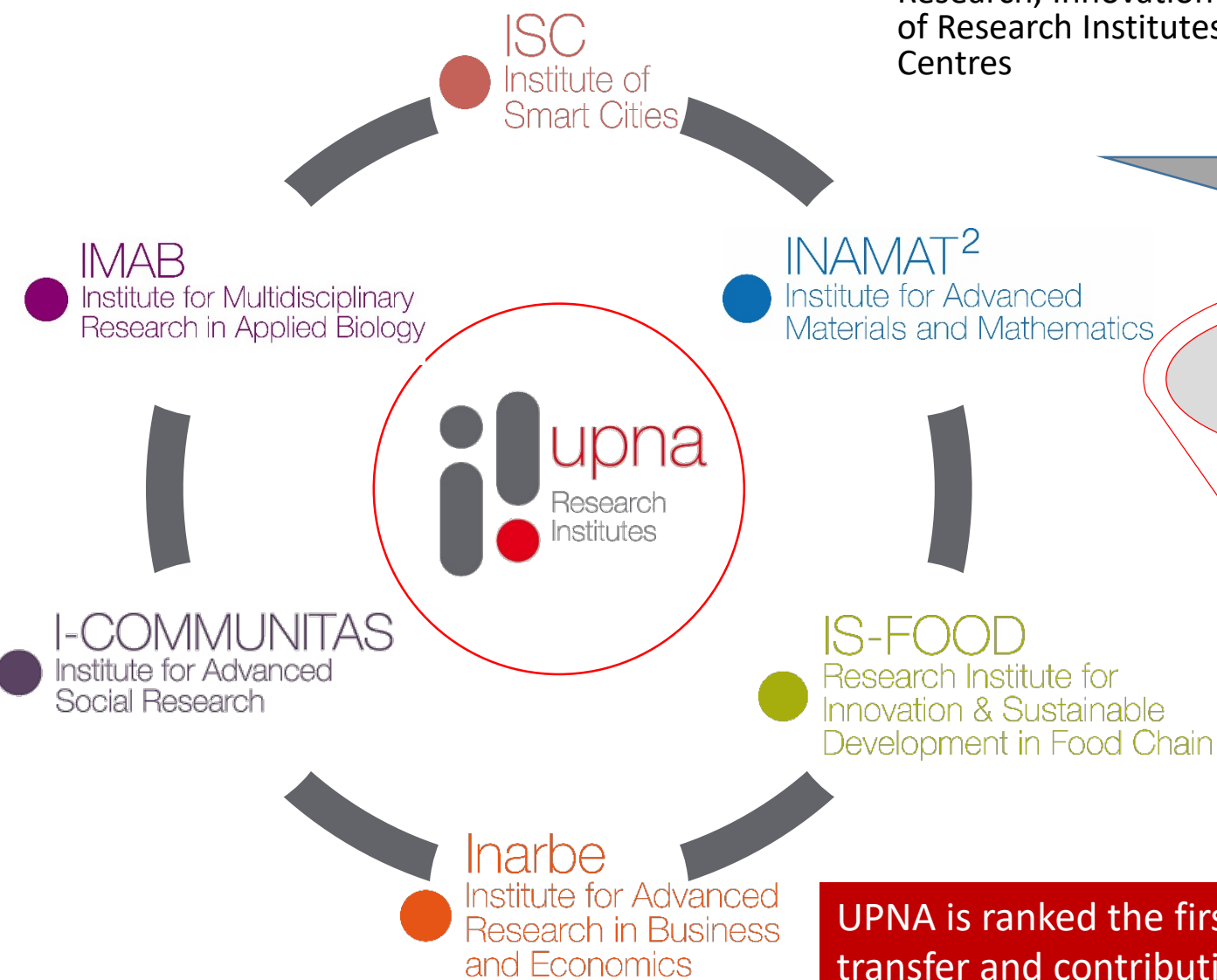


*Ferrovías de Aragón*

Sede de Institutos de Investigación  
Ikerketa Institutuen Egoitza  
Research Institutes HQ

# RESEARCH ACTIVITY

Research, Innovation and Knowledge Transfer is based on the foundations of Research Institutes, Research Groups and Collaborative Research Centres



## COLLABORATIVE RESEARCH CENTRES



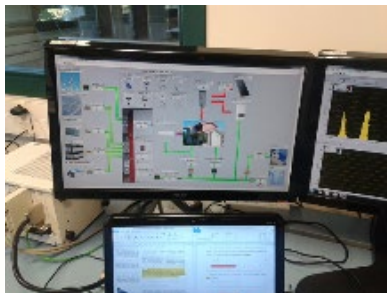
Multidisciplinary Approach

Aligned to

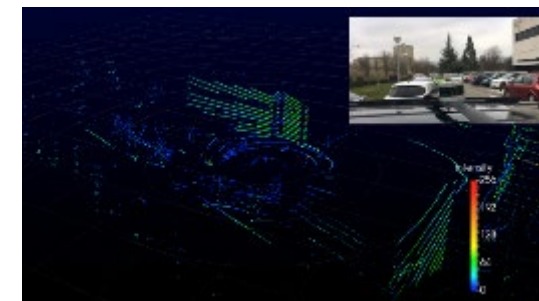


UPNA is ranked the first Spanish university in technology transfer and contribution to the regional development.

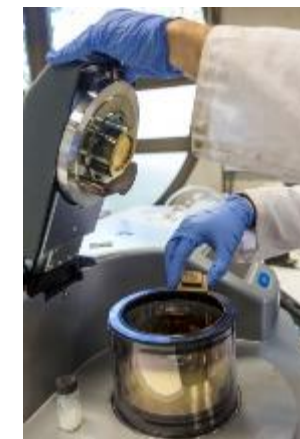
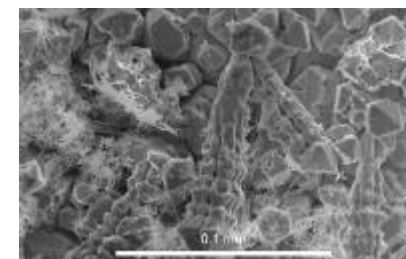
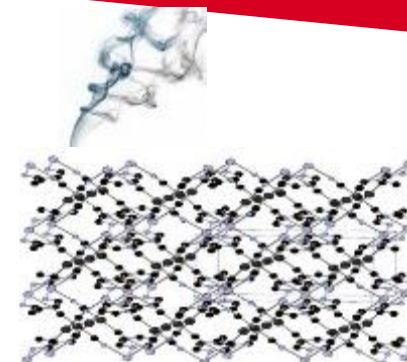
# RESEARCH INSTITUTES FOCUS



- ✓ Data analysis and signal processing
- ✓ Internet of Things
- ✓ Sustainability and energy efficiency
- ✓ Intelligent Environments



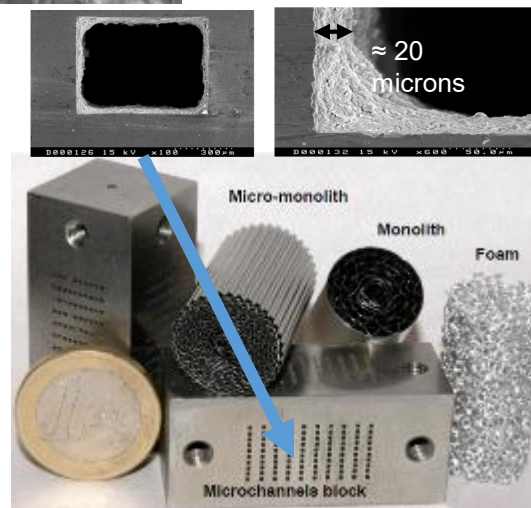
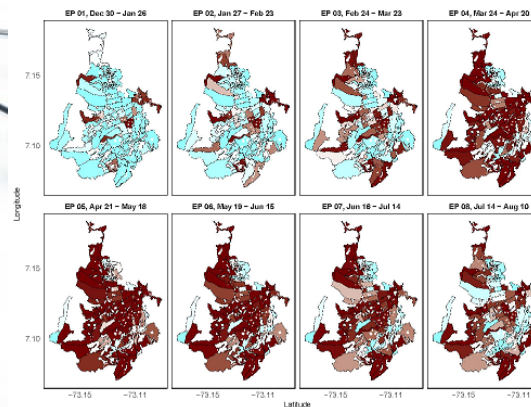
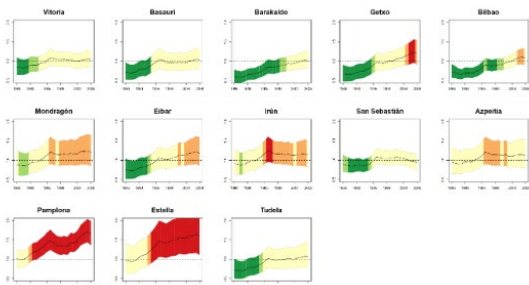
# RESEARCH INSTITUTES FOCUS



- ✓ Smart materials and functional coatings
- ✓ NanoScience applications and materials characterization
- ✓ Data science and Mathematical modelling

Focus on:

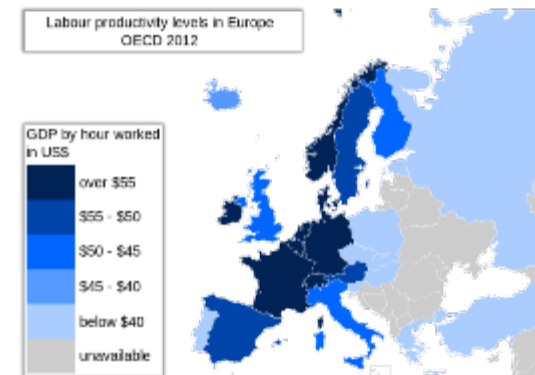
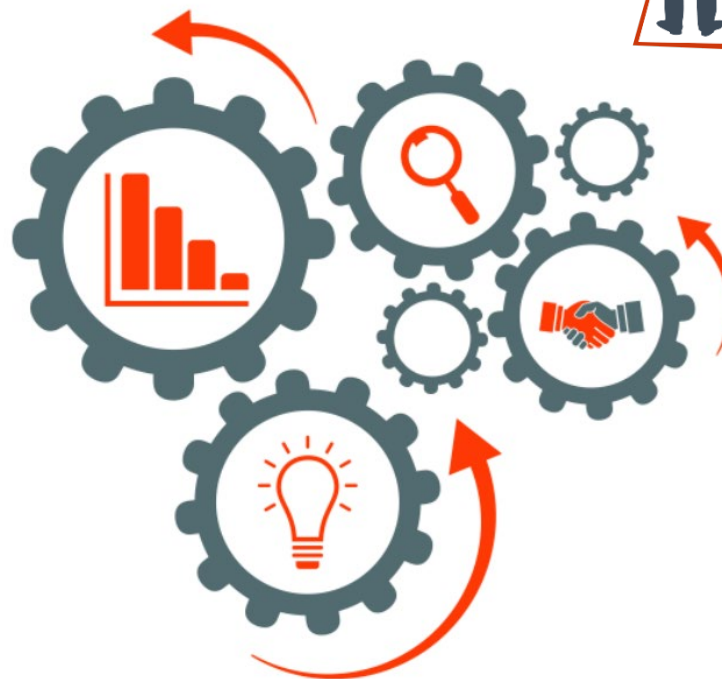
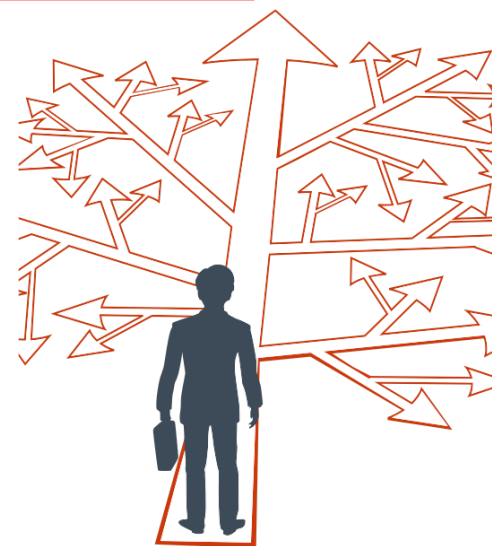
- Health
- Industry
- Energy
- Environment



# RESEARCH INSTITUTES FOCUS



- ✓ Economic analysis of organizations and business strategy
- ✓ Economic market analysis
- ✓ Analysis of public policies



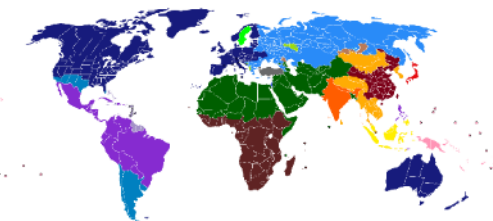
# RESEARCH INSTITUTES FOCUS



- ✓ Sustainable production and food quality
- ✓ Agrofood Innovation
- ✓ Consumer



# RESEARCH INSTITUTES FOCUS



Occidente / Western civilization  
 Oriente / Eastern civilization  
 América Latina / Latin America  
 África / Africa  
 Europa / Europe  
 Asia / Asia  
 Oceanía / Oceania  
 Australia / Australia  
 América del Norte / North America  
 América del Sur / South America  
 Europa del Este / Eastern Europe  
 Europa del Oeste / Western Europe  
 América del Norte y del Sur / North and South America  
 África del Norte / North Africa  
 África del Sur / South Africa  
 Asia del Este / Eastern Asia  
 Asia del Sur / Southern Asia  
 Oceanía del Norte / Northern Oceania  
 Oceanía del Sur / Southern Oceania



- ✓ Territories and cultures
- ✓ Memory, Politics and Identity
- ✓ Human Rights
- ✓ Communication and Social Intervention



# RESEARCH INSTITUTES FOCUS



IMAB  
Institute for Multidisciplinary  
Research in Applied Biology



✓ Biotechnology



**RED** Health,  
Medical,  
Diagnostics

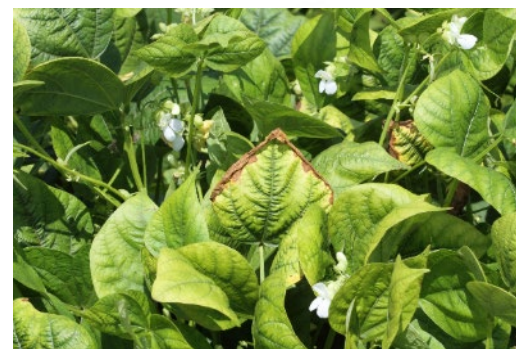
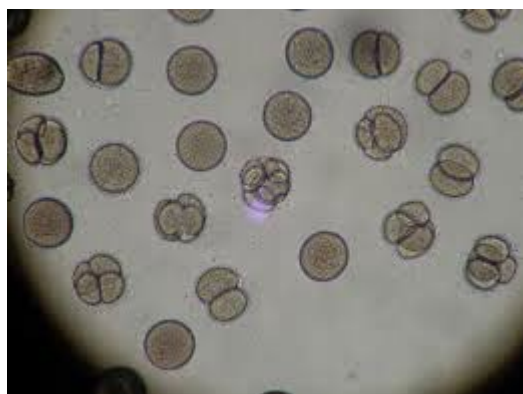
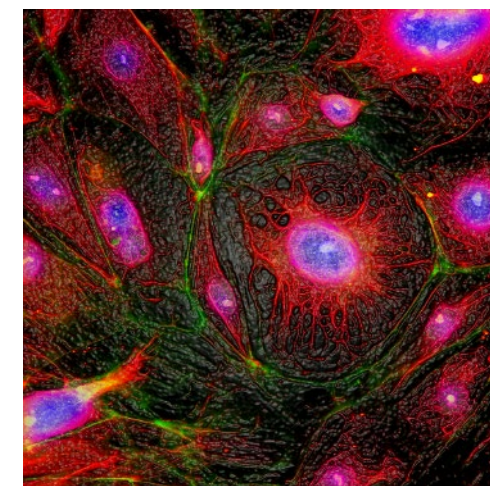
✓ Environmental Agrobiolology



**WHITE** Gene-based  
Bioindustries



**GREEN** Agricultural,  
Environmental  
Biotechnology



## LINKED SPIN OFFS

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PYROIS  
TECH



BIOINSECTIS

everSens   
what your breath reveals

 **ANTERAL**

upna

 Neuraptic AI

 **FuVeX**

 **naudit**  
High Performance Computing and Networking

 **MOVALSYS**  
SISTEMAS DE EVALUACIÓN DEL MOVIMIENTO

 **Nadetech**  
Innovations

# COLLABORATION

## General:

- Specific framework agreement
- Chairs: single or several institutions



## Research:

- Technology Transfer Agreements
- Research Contracts
- Public Research Funding Projects
  - European
  - National
  - Regional
- In Company PhD students



## Students:

- In Company internships
- Final degree or Master final degree projects (TFG, TFM)



## Specific training:

- Specific technical training
- In Company training
- Ad-hoc Seminars, conferences....



# ANEXOS UPNA

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# PUBLIC UNIVERSITY OF NAVARRA (UPNA)

Public University of Navarra ([www.unavarra.es](http://www.unavarra.es))

The Public University of Navarra was set up in 1987 by the Parliament of Navarre.

## 2 CAMPUSES

### ACADEMIC COURSES

- 25 official degrees + 7 double degrees
- 9 International programmes
- 30 Master degrees adapted to the EEES
- 13 Doctorate programmes
- 12 Own degrees



Pamplona  
(capital of Navarre)



Tudela  
(2<sup>th</sup> city of Navarre)

### INTERNATIONAL ACTIVITIES

- **300 bilateral agreements** with international institutions of more than 50 countries
- First position among Spanish Universities offering degrees in English
- EBRoS (European Bioregion of Science) Western Pyrenees.

### HUMAN RESOURCES

- Students: 8,200
- Teaching staff: 950
- Administration & services staff: 490
- **Graduates: 35,000**



Automation and Mechatronics



Food Chain



Renewable Energy and Resources



Health

# UNIVERSITY OFFICIAL STUDIES

ING

## School of Agricultural Engineering and Biosciences

### Undergraduate

- Agricultural, Food and Rural Environment Engineering
- Innovation in Food Processes and Products
- Data Science
- Science
- Biotechnology
- Double Degree in Data Science and Management, Business Administration
- Double Degree in Agricultural, Food and Rural Environment - Engineering & Innovation on Food Processes & Products

### Master

- Agricultural Engineering
- Geographic Information Systems and Remote Sensing
- Food Industry Technology and Sustainability
- Environmental Agrobiology
- Soils & Water Management
- Synthetic and Industrial Chemistry

ECO

## Faculty of Economics and Business Science

### Undergraduate

- Economics
- International Double Bachelor's degree in Economics, Management and Business Administration
- Double Bachelor's degree in Management, Business Administration and Law (international program)
- Double Degree in Business Administration and Management, and Economics (international programme)
- Double Degree in Data Science and Management, Business Administration

### Master

- Master's degree in Business Processes with Enterprise Resource Planning - ERP
- Business Management
- Business Economics, Organisation & Management



ING

## School of Industrial Engineers and Telecommunications

### Undergraduate

- Mechanical Engineering
- Electrical and Electronic Engineering
- Engineering in Industrial Technologies
- Engineering in Mechanical Design
- Engineering in Telecommunications Technologies
- Computer Engineering
- Biomedical Engineering
- Double Degree in Telecommunication Technologies - Engineering and Biomedical Engineering

### Master

- Telecommunications Engineering
- Industrial Engineering
- DD Industrial Engineering and Business Management
- Computer Science
- Renewable Energy Engineering
- Biomedical Engineering
- Materials and Manufacturing Engineering
- Computational and Applied Mechanical Engineering
- Project Management
- Mathematical Modelling, Statistics and Computer - Science

JUR

## Faculty of Law

### Undergraduate

- Law
- Labour Relations and Human Resources
- Double Degree in Business Adm. and Management, and Law

### Master

- Access to the Legal Profession
- Occupational Health and Safety Private Property Law

HUM

## Faculty of Human and Social Sciences

### Undergraduate

- Infant Education Teaching Qualification
- Primary Education Teaching Qualification
- Social Work
- Applied Sociology
- History and Heritage
- Double MEI+MEP

### Master

- Social Intervention: Individuals, Families and Groups
- Secondary Education Teaching

SAN

## Faculty of Health Sciences

### Undergraduate

- Nursing
- Physiotherapy
- Psychology
- Medicine

### Master

- Health Promotion & Social Development
- Health Science Research
- Public Health



## OTHER UNIVERSITY STUDIES - ENGINEERING AND BASIC SCIENCES FOCUS

### Non Official University Studies Engineering and Basic Sciences Focus

- III Diploma of Specialization in Video Game Development and Virtual Reality Applications
- Diploma of Specialization in Cybersecurity and Ethical Hacking
- II Diploma of Specialization in Internet of Things (IoT) and Industry 4.0
- Marketing Specialization Diploma from an Industrial Approach
- II University Expert in Agroecology and Rural Development
- IV University Expert in Data Science and Big Data
- University Expert in New Technologies for Precision Agriculture
- University Expert in Professional Transversal Competences
- Master in Scientific Culture



### PhD Programs (Science Focus)

#### SCIENCE

- ✓ PhD in Environmental Agrobiolology
- ✓ PhD in Industrial Sciences and Technologies
- ✓ PhD in Mathematics and Statistics
- ✓ PhD in Synthetic and Industrial Chemistry

#### ENGINEERING AND ARCHITECTURE

- ✓ PhD in Agrifood
- ✓ PhD in Biotechnology
- ✓ PhD in Communications Technologies, Bioengineering and Renewable Energies

# UPNA IN A SNAPSHOT

Public University of Navarra ([www.unavarra.es](http://www.unavarra.es))

## in 2019

**85 new publicly funded projects**  
valued at **6,6 M€**  
(331 (25,45 M€) in the last 5 years)

Has signed **190 research contracts**  
valued at **1,9 M€**

Has applied for **4 new patents**  
(46 in the last 5 years)

**357 PhD students**

## knowledge transfer collaborations

Publicly funded projects: European calls (H2020, POCTEFA, LIFE+, SUDOE...), National calls and Regional calls.  
 Research and Knowledge Transfer Contracts  
 Industrial Doctorates  
 Industrial Research Chairs  
 Technology co-development and licensing  
 Promotion and participation in new Technology Based Companies  
 IPR licenses



## excellence



CAMPUS DE EXCELENCIA  
INTERNACIONAL  
DEL VALLE DEL EBRO

## ranking Shanghai



Subject (2018)	World	Spain
Electrical and Electronic Engineering	201-300	6
Computer Science	201-300	9
Agricultural Engineering	401-500	29

6 ×  + 1 × 



## SOME INDUSTRIAL CLIENTS



**LIEBHERR**



**Ingeteam**



**STI** norland

**SKF**



## SOME NON INDUSTRIAL CLIENTS



AENOR



IK4  
TEKNIKER  
Research Alliance



Universiteit Utrecht



Nafarroako  
Gobernua  
Gobierno  
de Navarra



funcas



Cáritas



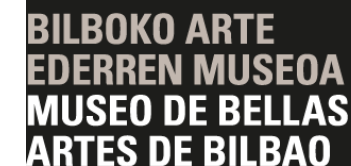
neiker  
tecnalia



Mutua  
navarra



Colegio Oficial  
de Ingenieros Agrónomos  
DE ARAGÓN, NAVARRA Y PAÍS VASCO



BILBOKO ARTE  
EDERREN MUSEOA  
MUSEO DE BELLAS  
ARTES DE BILBAO



EUSKO JAURLARITZA  
GOBIERNO VASCO  
INGURUMEN ETA LURRALDE  
POLITIKA SAILA  
DEPARTAMENTO DE MEDIO AMBIENTE  
Y POLÍTICA TERRITORIAL



Universidad  
de Navarra



جامعة الملك عبد العزيز  
King Abdulaziz University



Deusto  
Fundación Deusto  
Deustu Fundazioa  
Deusto Foundation



FUNDACIÓN  
CAJANAVARRA



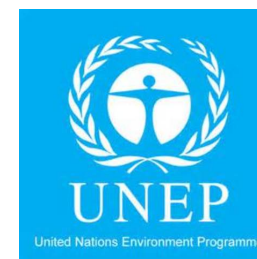
FUNDACIÓN  
MAPFRE



Comisión Europea



ACIE  
AGENCIA DE CERTIFICACIÓN  
EN INNOVACIÓN ESPAÑOLA



UNEP  
United Nations Environment Programme



Eustat  
EUSKAL ESTADISTIKA ERAKUNDEA  
INSTITUTO VASCO DE ESTADÍSTICA