WE CAN DO SO MUCH TOGETHER

TECNALIA Inspiring Business





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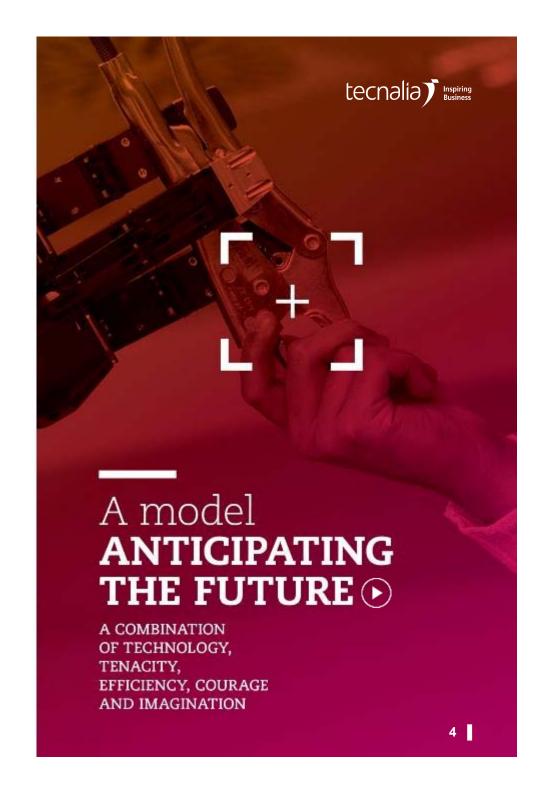
Introduction

TECNALIA RESEARCH AND TECHNOLOGICAL DEVELOPMENT

SINCE 2011

TECNALIA is a benchmark Research and Technological Development Centre in Europe.

_MULTISECTORAL _MULTI-TECHNOLOGY





WE TRANSFORM TECHNOLOGY INTO GDP

CORPORATE GOVERNANCE

BOARD OF TRUSTEES THE INSTITUTIONAL **PATRON** NUMERARY **APPOINTED TRUSTEES TRUSTEES** TRUSTEES **TRUSTEES** (Basque Government, (Town Halls (Companies) (Persons of Regional Councils, and Trade recognised UPV/EHU) standing) Associations)



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FUNDICIÓN

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GRUPO AERNNOVA

GRUPO IGUALMEQUISA, S.A.

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DONOSTIA - SAN SEBASTIÁN CITY COUNCIL

VITORIA - GASTEIZ CITY COUNCIL

UNIVERSITY OF DEUSTO

UNIVERSITY OF THE BASQUE COUNTRY (UPV/EHU)



Organisation

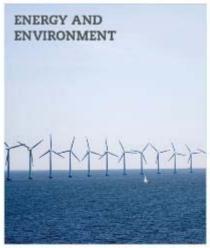


6 INTERCONNECTED BUSINESS DIVISIONS

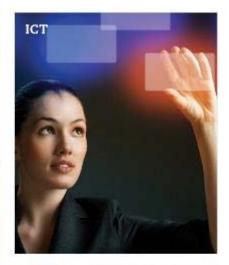
This way of working is the best example of our innovative spirit applied to an operational model, where cooperation works thanks to the transversality of teams, projects and clients.

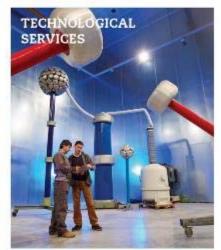
+ EMERGING BUSINESSES















PEOPLE IN TECNALIA

1,445 STAFF

57 % MEN

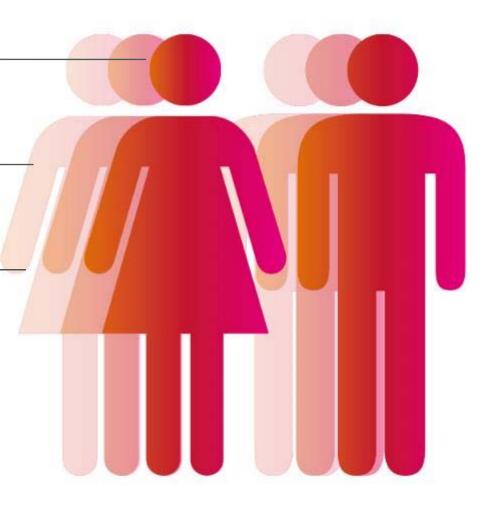
43 % WOMEN

27 DIFFERENT NATIONALITIES

43 AVERAGE AGE

249 NUMBER OF PHDs

Figures on 31 December 2017.





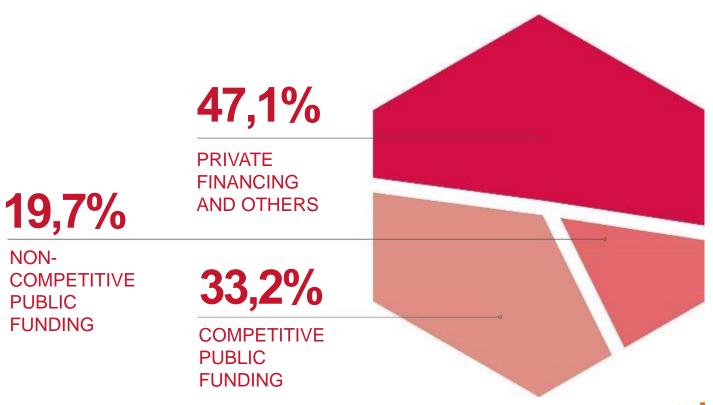


BALANCE OF ACTIVITIES AND FUNDING

FIGURES ON 31 DECEMBER 2017

INCOME

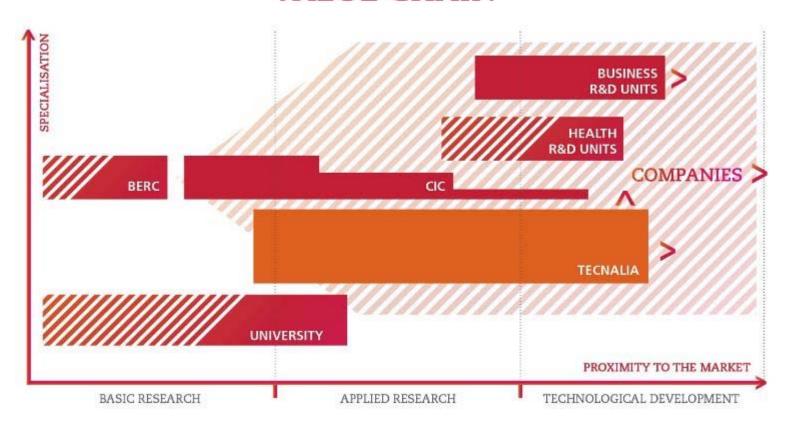
104 MILLION EUROS







VALUE CHAIN



MEDIATORS BETWEEN SUPPLY AND DEMAND



What we do

Inspiring Business Specialisation

Type of services

Excellence

6 global challenges 6 opportunities TECNALIA Ventures



WE DEVELOP TECHNOLOGIES THAT TRANSFORM THE PRESENT

From Technology...
To Market



INSPIRING BUSINESS

A commitment to **Research** & **Technological Development** to identify & develop business opportunities.

FROM TECHNOLOGY...

At TECNALIA we anticipate future challenges to view, identify and implement technological, imaginative and creative solutions providing added value and producing real results.



TO MARKET

With our global presence, we transform technology into GDP to improve people's quality of life by generating business opportunities for companies.



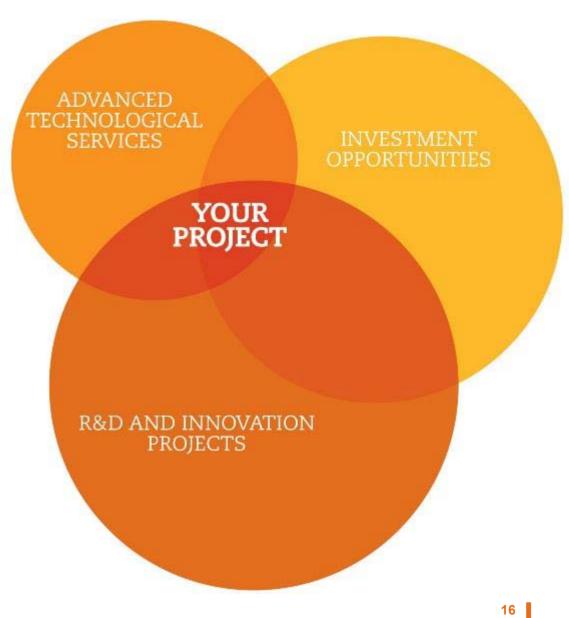






TECNALIA OFFER

Our business offer oriented to the needs of companies.

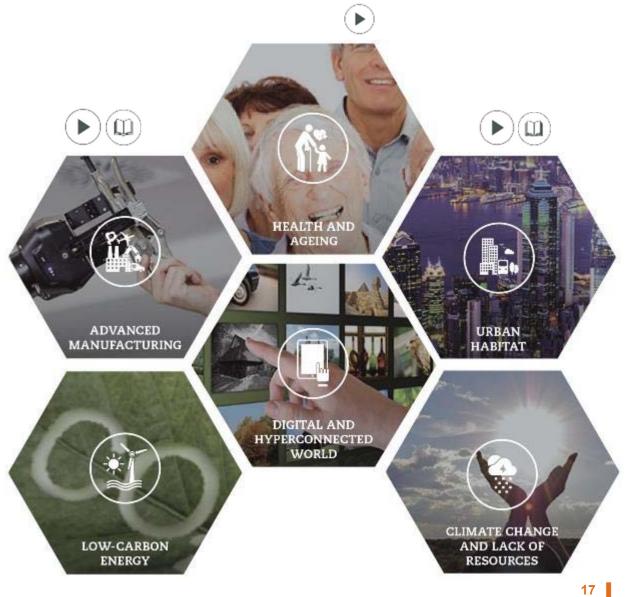


6 global challenges 6 opportunities



WE RESEARCH TO OVERCOME **CHALLENGES FACED BY MANKIND**





Specialisation

tecnalia) Inspiring Business

TECNALIA specialisation is aligned to the Basque Country RIS3 Strategy.







Energy



Biosciences / Health

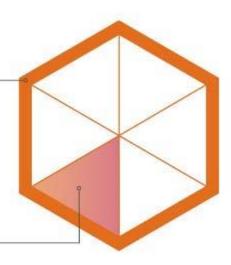


GEI, EXCELLENCE RESEARCH TEAMS

GEIs are teams made up of over 15 members who have focused their activity on Scientific-Technological specialisation, achieving and obtaining accreditation in technology at excellence levels with international recognition. Therefore, these are reduced selective research teams.

GEI CURRENTLY IN OPERATION

- -Big Data
- -Computer Vision
- -Cyber Security & Safety
- -Efficient & Automated Driving
- -Offshore Renewable Energy
- -Green Concrete
 Design
- -Neurorehabilitation
- -Robotics
- -Advanced Surfaces



GEI CANDIDATES BEING ASSESSED TO ACHIEVE THE "EXCELLENCE STAMP"

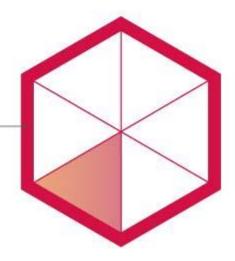
-Ingredients - Bioprocesses

ERT, TECHNOLOGICALLY RELEVANT TEAMS

These are research teams, generally oriented to a business or market segment and who, due to their technical know-how that is highly relevant to our customers, demonstrate excellent results in their R&D and Innovation activities.

ERT CURRENTLY IN OPERATION

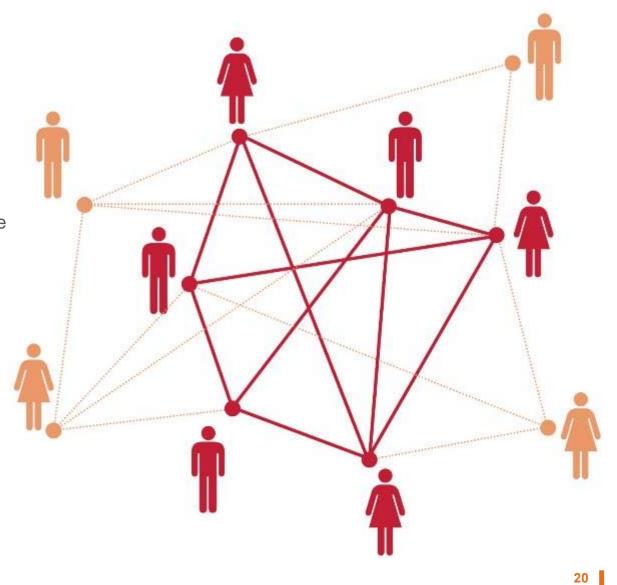
-Maintenance 4.0





KNOWLEDGE CLUSTERS

Are specialist communities including all TECNALIA skills in **KETs** (Key Enabling Technologies). Three Knowledge Clusters are currently in place: Nanotecnology, **Digital Technology** and Strategy.

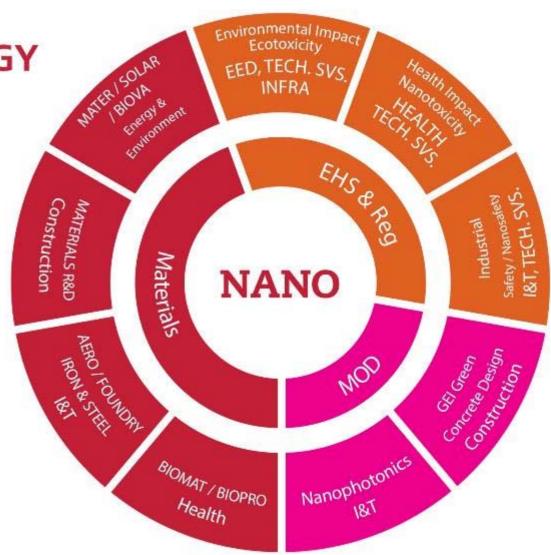






NANOTECHNOLOGY KNOWLEDGE CLUSTER

Over 110 specialists developing new applications based on nanotechnology for the following sectors: Industry, Construction, Energy, Environment, Transport or Health.

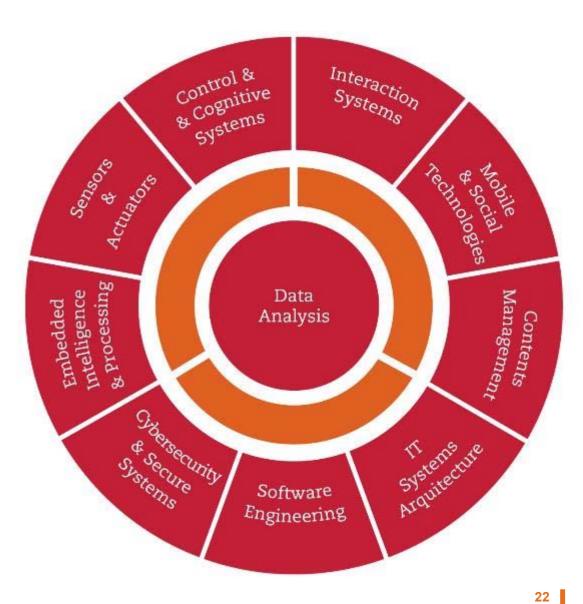






DIGITAL TECHNOLOGY KNOWLEDGE CLUSTER

Over 350 experts with the mission of maximising and increasing TECNALIA ICT potential endeavour to conduct business efficiently and effectively.

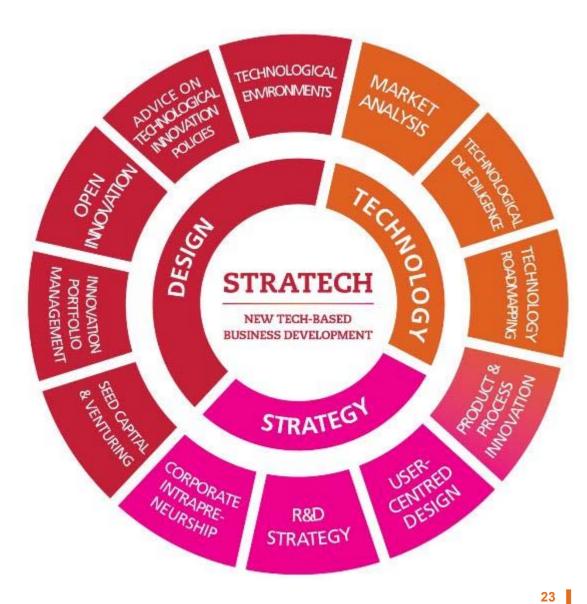






STRATEGY CLUSTER

The "STRATECH" Strategy Cluster is TECNALIA's tool to meet its client's diversification and growth needs, based on technological solutions that have been developed under "Open Innovation".



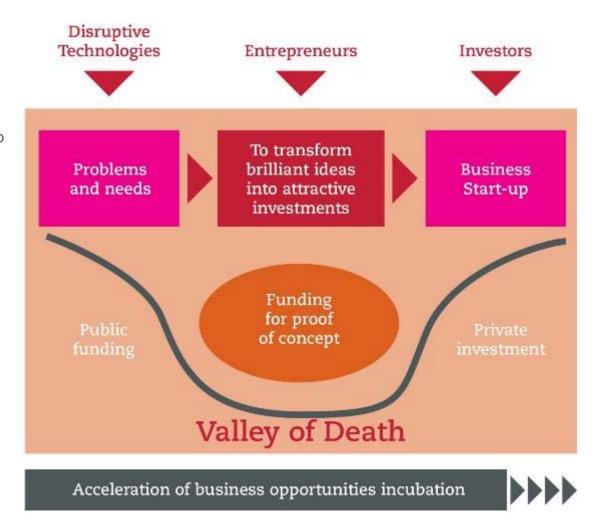






Through TECNALIA Ventures,
TECNALIA develops an entrepreneurship
ecosystem in order to commercialise
and maximise the value of its
technological assets. To do so,
it focuses its efforts on connecting
the three main pillars of any
innovation eco-system:

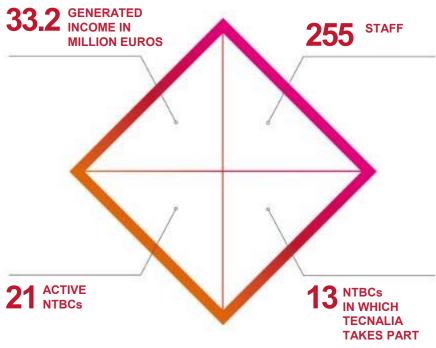
- **Minds:** People/Organisations focused on the generation of technology-based ideas.
- Management: People with an entrepreneurial profile who are capable of generating business opportunities.
- Money: Investors who undertake to provide support in the development of the company, in addition to providing financial muscle.







NTBCs



Figures on 31 December 2017.



How we do it

Open

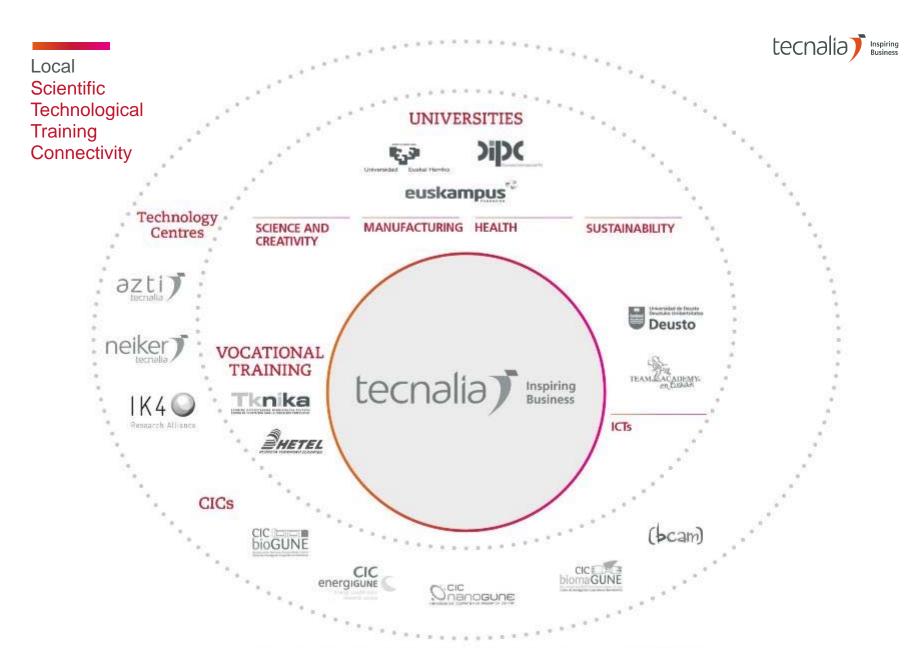
Global presence

Connectivity

A European benchmark



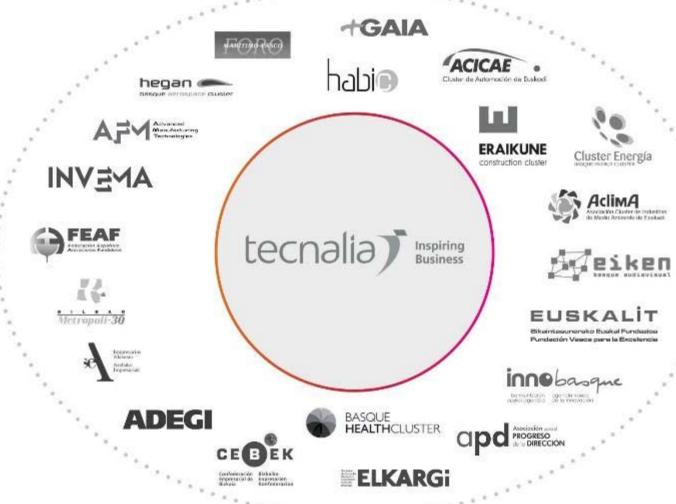
INNOVATION



A RELATIONSHIP MODEL IN THE BASQUE COUNTRY INNOVATION SYSTEM.

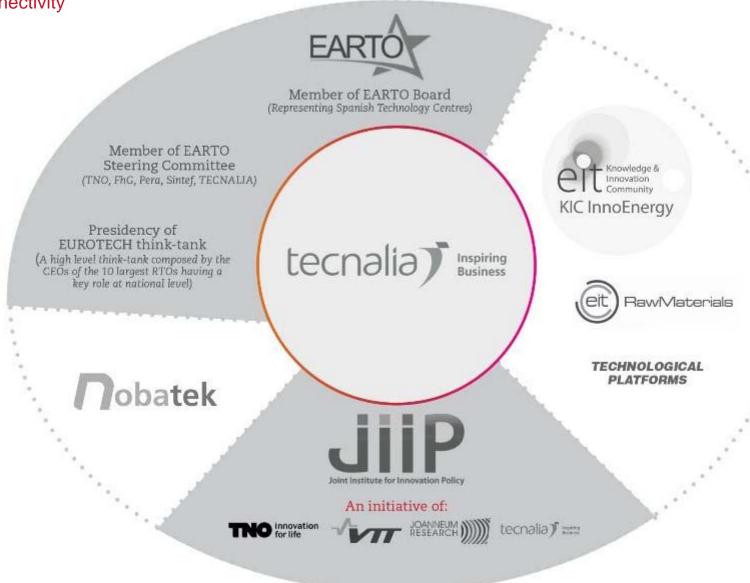














Global Presence





CENTRES

Bulgaria (Sofia) | ESICenter Eastern Europe Egypt (El Cairo) | ESICenter SECC France (Anglet) | Nobatek

Colombia (Bogotá and Medellín) Ecuador (Quito) France (Montpellier) Italy (Pisa)

Mexico (Mexico City and Monterrey) Serbia (Belgrade)

CAAM: China CIDESI: Mexico CLAUT: Mexico JIIP: Belgium NUTES: Brazil UNIVERSITY OF STRATHCLYDE: Scotland



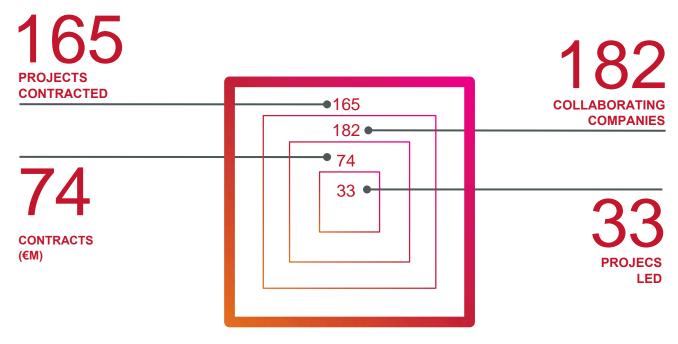


national private organisation in project contracting, participation and leadership within the EU Horizon 2020 Programme.





PARTICIPATION IN HORIZON 2020



Figures on 31 December 2017





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



RANKING PER INVESTMENT RETURN	Activities	
Organisation	No.	Led
AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS	693	271
FUNDACIÓN TECNALIA	377	85
RESEARCH & INNOVATION		
UNIVERSIDAD POLITÉCNICA DE MADRID	256	70
INDRA SISTEMAS, S.A.	58	11
UNIVERSIDAD POMPEU FABRA	137	71
UNIVERSIDAD DE BARCELONA	150	69
TELEFÓNICA 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 FOTÓNIQUES	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

Summary of Spanish participation in the BU 7th Framework Programme for R&D and innovation (2007 - 2013)

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

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	СН
12	KATHOLIEKE UNIVERSITEIT LEUVEN	HES	BE
13	ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE	HES	СН
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	DE0	
	RESEARCH & INNOVATION	REC	ES
24	JRC - JOINT RESEARCH CENTRE- EUROPEAN COMMISSION	REC	EU
25	KARLSRUHER INSTITUT FUER TECHNOLOGIE	HES	DE

SOURCE: SEVENTH FP7 MONITORING REPORT 2013 (EUROPEAN COMMISSION)



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

SOME FIGURES

377 PROJECTS APPROVED

PROJECTS LED (21.5%)

131 CC

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

IN CO-OPERATION WITH

2,890

EUROPEAN ORGANISATIONS

406

SPANISH COMPANIES

570

SPANISH ORGANISATIONS

109

BASQUE COMPANIES

^{*} REC: RESEARCH ORGANISATION

^{*} HES: HIGHER OR SECONDARY EDUCATION ORGANISATION



A European Benchmark

Positioning in public-private initiatives

The EU is increasingly outsourcing the management to Public-Private Organisations with greater independence to influence R&D and innovation. 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 Hydrogen &
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...**



Examples of our activity

(TECNALIA Value)

R&D and innovation projects

Investment opportunities

Advanced technological services





R&D AND INNOVATION PROJECTS TIME FOR ACTION





ADVANCED MANUFACTURING

OUTSTANDING PROJECTS



MOBILE ROBOTICS

Robotic solution for automation of fuselage panel orbital joints, including drilling, sealant application and blind rivet installation processes as well as computer vision reference system. In co-operation with AIRBUS GROUP, among others.





3D PRINTING TOOL FOR INDUSTRY

This is a unique machine-tool nationwide which facilitates the creation of large metal parts from scratch with high precision finishes, as well as for the repair of high value parts in sectors such as the automotive and aeronautical sectors. It achieves material and energy savings of up to 60% compared to conventional methods. IBARMIA, the University of the Basque Country (UPV/EHU) and TECNALIA have developed this solution in co-operation, within a record time of 9 months.





ADVANCED MANUFACTURING

OUTSTANDING PROJECTS



AUTONOMOUS VEHICLES

AUTOMATION DEVELOPMENT for Autonomous Mobility is a cross-cutting initiative led by BOEING RESEARCH & TECHNOLOGY Europe to develop critical technologies for autonomous mobile systems. As part of land application (as well as air and sea applications), TECNALIA in association with AZKAR, MASER, FICOSA and ELECNOR-DEIMOS is developing technology for autonomous land vehicles.



INFRASTRUCTURES PROMOTING THE ADOPTION OF ELECTRIC VEHICLES

New planning tools for European distribution operators focused on massive roll-out of optimised electro-mobility and maximising distributed power generation integration. The aim is to develop structures and capabilities to ensure conformity, interoperability and performance of smart charging systems of electric vehicles.







LOW-CARBON ENERGY

OUTSTANDING PROJECTS



NAUTILUS FLOATING SOLUTIONS

An industrial and technological consortium made up by four leading companies in cutting-edge technology with a strong presence on international markets (ASTILLEROS DE MURUETA, TAMOIN, VELATIA and VICINAY MARINE INNOVACIÓN) and TECNALIA. It aspires to become the world leader in the development of floating platforms for the off-shore wind power market.

ENERGY TRANSMISSION IN HVDC

Aiming to make feasible installations for the generation of high power off-shore renewable energy.

Developing models and control algorithms for the analysis of multi-terminal High Voltage Direct Current (HVDC) systems applied to energy transmission in wind farms and offshore interconnections. Such developments are carried out within the European Best Paths framework.







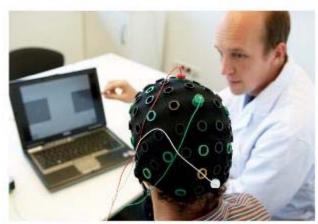
HEALTH AND AGEING

OUTSTANDING PROJECTS



DISEASE DETECTION AT HOME

Development of initiatives based on assistive technology such as sensors enabling monitoring a person's activities and habits, and identifying any changes which may be symptoms of disorders related to neurodegenerative disorders such as Alzheimer's disease.



RECOVERY OF STROKE PATIENTS

Motor recovery of upper limb paralysis as a result of a cerebrovascular accident (CVA) using the brain-machine interface. The aim is for the patient to be able to move and control movements in the paralysed limb naturally, recovering autonomy and functional independence levels.





DIGITAL AND HYPERCONNECTED WORLD

OUTSTANDING PROJECTS



TOWARDS SOFTWARE INDUSTRIALISATION

FAST enables optimisation of the software factory code on the basis of re-using it but without generating dependency. This makes "reversibility" possible at any time. This is a multi-language tool adaptable to the needs of each factory, providing control and traceability of the code generated. Towards software industrialisation.



DEVELOPPER VIDEO



TECHNICAL OFFICE VIDEO



SMART DESTINATION

QING SOLUTIONS is an initiative initially created by TECNALIA for Grupo Palladium hotels, offering innovative technological solutions for the tourist sector. Through our "smart bracelets" we have created a safe ecosystem for transactions, accesses and identification in a customisable way to enhance the customer's services experience and for easy integration with information and CRM systems.







URBAN HABITAT

OUTSTANDING PROJECTS





RETROFITTING AND INTEGRATED URBAN REGENERATION

The Mogel district in Eibar and Sestao are good examples of how retrofitting and integrated urban regeneration have achieved Integral Sustainable Urban Development with the collaboration of TECNALIA, which benefits numerous families and residents in both municipalities generating employment and social cohesion, reducing CO₂ emissions and integrating accessibility, environmental and ICT criteria.



VIDEO OF INTEGRAL RETROFITTING PROJECT OF MOGEL DISTRICT



ZENN - MOGEL DEMO SITE VIDEO, CITY OF EIBAR

SMART CITIES

Vitoria-Gasteiz and Donostia-San Sebastián, with the collaboration of TECNALIA, will develop smart city models regarding energy efficiency, sustainable mobility and ICT application.

Actions related to this initiative were implemented in the Coronación and Vega del Urumea districts respectively and over 1.200 families will benefit from the results.





CLIMATE CHANGE AND LACK OF RESOURCES

OUTSTANDING PROJECTS



LOW ENERGY/ EMBEDDED GHG EMISSIONS ECOLOGICAL CONCRETE

Based on optimising thermal energy used in the manufacturing process, optimising electric power and recovering heat as a source of energy to generate electricity using an Organic Rankine Cycle (ORC).



CLIMATE RESILIENCE OF CITIES AND VITAL INFRASTRUCTURES

Procedures to determine vulnerability of cities and infrastructures against climate change and determine the efficiency of adaptation measures. Paris, Bilbao, Manchester and Bratislava have been configured as "Field Labs".





ASSESSMENT AND DIAGNOSIS

Technological Services



CONSTRUCTION



Quality and Safety Assessment of Construction Materials



Quality and Safety Assessment of Construction Systems and Products



Quality Control and Project Management of Singular Works



Certification and Assessment of Innovative Products

ELECTRICAL ENERGY



Low, Medium and High Voltage Electrical Equipment Assessment



Conformity Assessment and Certification of Electrical Equipment



On-Site Commissioning, Diagnosis and Maintenance Tests of Electrical Equipment

PHARMACY AND HEALTH



Pharmaceutical Development: Galenic, Analytical and Stability Studies



Drug Manufacture Batches for Clinical Trials, Pilot, Registration, Industrial and Industrial Scaling



Clinical Trials: Bioequivalence, Phase I, II, III and IV, Clinical Nutrition, Clinical Validation, Bioanalysis and Management of External Studies



Personalised Therapies: Diagnosis, Prognosis and Prediction of Response (Companion Diagnostics)

MATERIALS



Failure Analysis and Prevention



In-service Performance and Selection of Materials



Welding and Metal Construction



Analysis, Testing and Assessment of Materials (Mechanical, Metallography, Chemical Analysis, Corrosion and NDT)



Structural Integrity and Extension of Life

SUSTAINABILITY



Water Quality



Control of Discharges



Waste Characterisation



Air Quality and Emission Control



Urban Pests and Biocidal Efficacy





INVESTMENT OPPORTUNITIES

NEW BUSINESSES







Textia Solutions
www.textiasolutions.com



Nautilus www.nautilusfs.com



ILT Plasma www.iltplasma.com



Digimet www.digimet.es



WIMI 5 www.wimi5.com



Oceantec www.oceantecenergy.com



Fesia www.fesiatechnology.com



Aurea Pay&Pass www.myaurea.es



Ingredalia



Neos Surgery www.neosurgery.com



Vixionwww.spyroerp.com/soluciones/industry-40



Go4IT Solutions www.go4it.solutions



Biokemik www.biokemik.eu

Locations



Headquarters

TECNALIA PARQUE CIENTÍFICO Y TECNOLÓGICO DE GIPUZKOA

Mikeletegi Pasealekua, 2 E-20009 Donostia - San Sebastián (Gipuzkoa) T 902 760 000*

Other Locations

ÁLAVA PARQUE TECNOLÓGICO DE ÁLAVA

Albert Einstein, 28 Leonardo Da Vinci, 11 E-01510 Vitoria - Gasteiz

BIZKAIA PARQUE CIENTÍFICO Y TECNOLÓGICO DE BIZKAIA

Ibaizabal Bidea, Edificio 101 Laida Bidea, Edificio 204 Laida Bidea, Edificio 413 E-48170 Zamudio Astondo Bidea, Edificio 700 E-48160 Derio

CÁDIZ

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