



MEMBER OF BASQUE RESEARCH
& TECHNOLOGY ALLIANCE

Creating Growth : Improving Society

tecnalia.com





**We are good
at solving complex
problems that
require unique
solutions.**

We like problems. Any problem is an opportunity to do research, help **companies** and institutions compete and contribute towards the improvement of **society**.

Our customers call us when they come across a new problem, whatever it may be, and we use **applied research** to provide specific solutions to solve it.

**PROBLEMS
WANTED**

About us

TECNALIA is the **largest applied research and technological development centre in Spain**, a European benchmark and member of the Basque Research and Technology Alliance.





Headquarters

📍 Basque Country

Branches

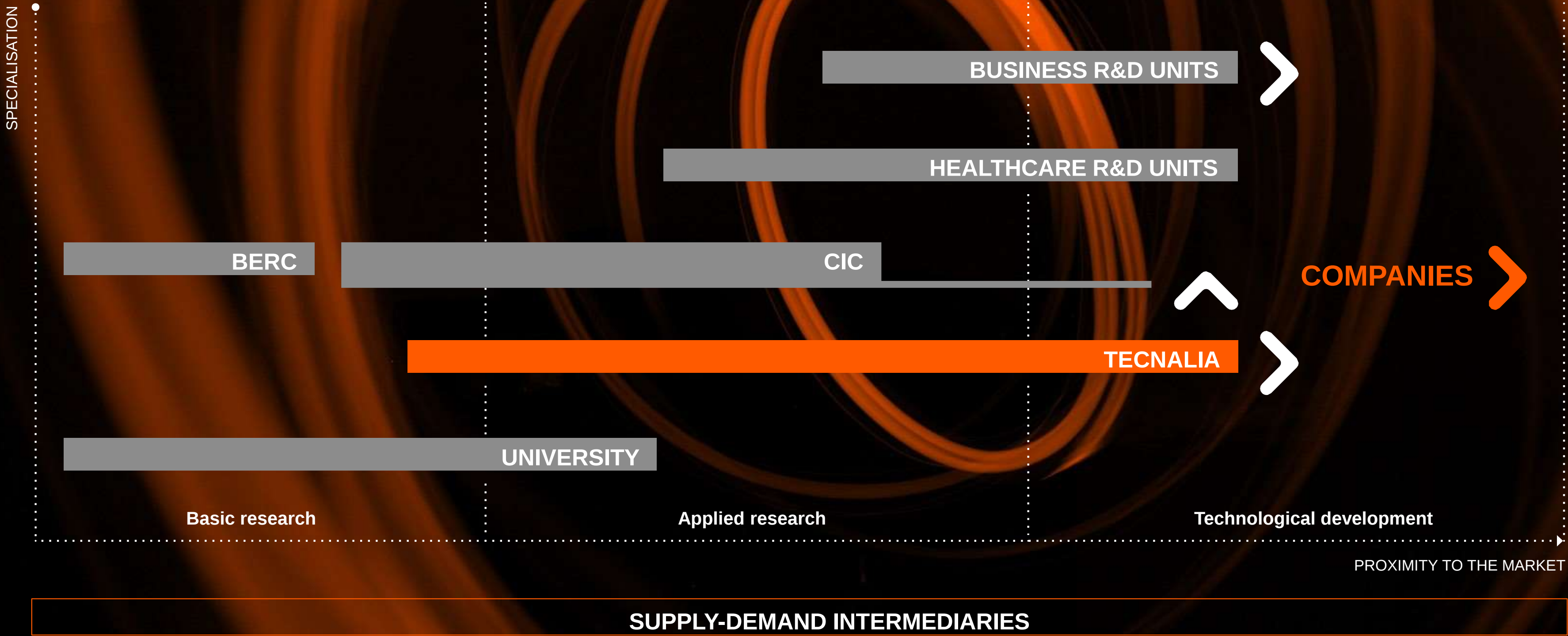
- Madrid
- Zaragoza

Branches Abroad

- | | |
|------------|----------|
| ● China | ● Italy |
| ● Colombia | ● Serbia |
| ● France | |

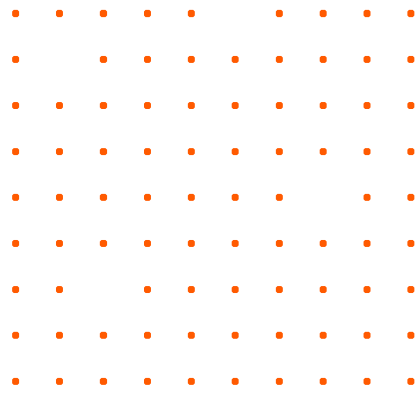


Value Chain



Mission

Transform technological research into prosperity.



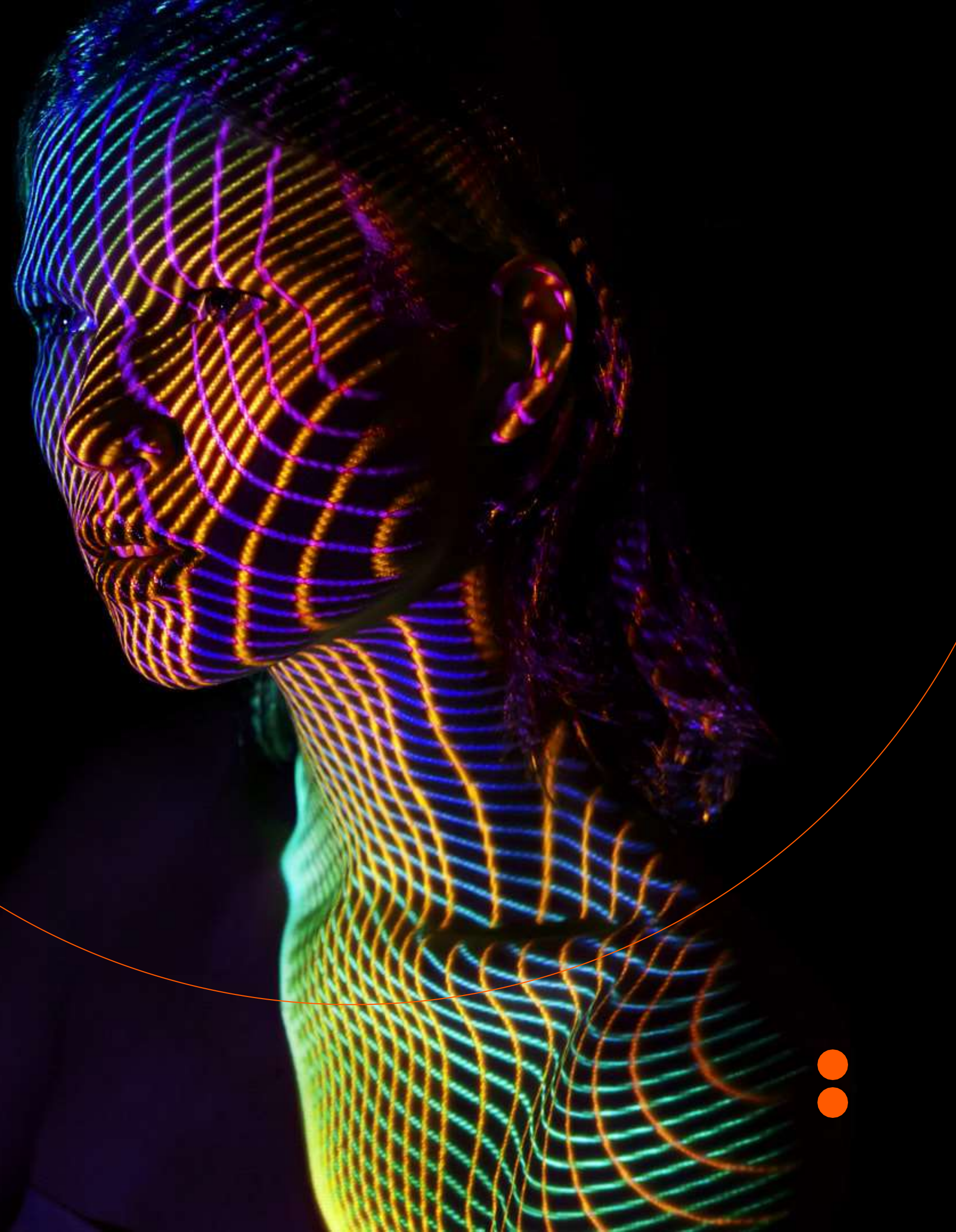
Vision

To be the agents of change in companies and society, adapting them to the challenges of a constantly evolving future.

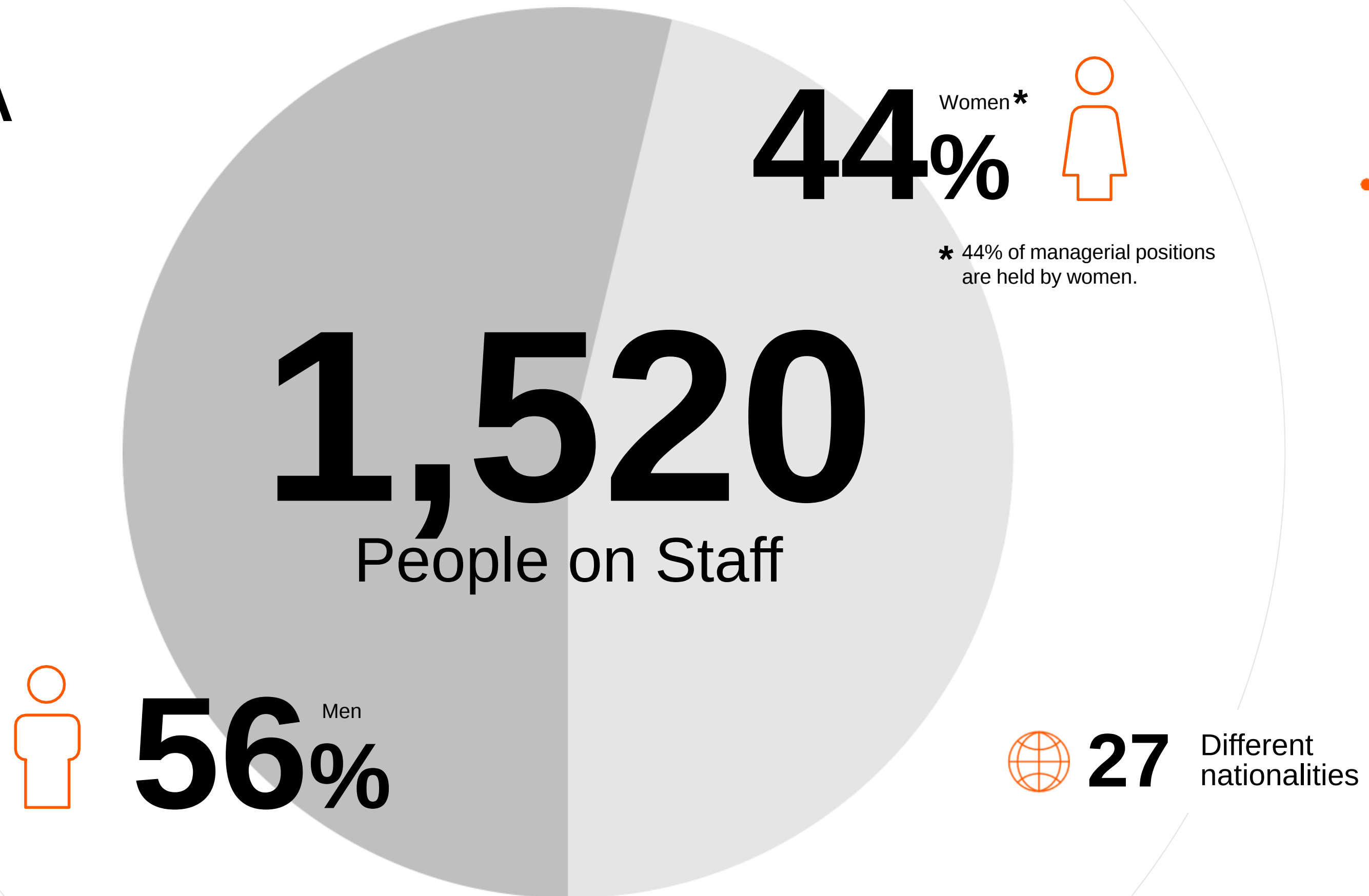


People are behind technology. Generating impact through applied research is only possible if you attract, retain and train the best talent.

We believe in the value of people



People in TECNALIA



We work with companies and institutions to increase their competitiveness, quality of life of people and achieve sustainable growth.

We transform technological research into prosperity, acting as agents of change in companies and society, adapting them to the challenges of a constantly evolving future.

tecnalia.com



We are committed to results, always thinking about our clients and facilitating their activity with a close and useful service.

At TECNALIA, we are brave and proactive and **we are bold enough to create something new every day.**

We collaborate actively. We offer ourselves, support each other and share our ideas to be better, more agile and to create more value.



We seek to build a better world through technological research and innovation.

At TECNALIA, we are actively engaged in the generation of wealth for companies and jobs for society.

We also create new developments for unresolved situations. And we do so by combining technologies from different fields to respond to the major global challenges.



How we work



Results that generate economic impact

**We offer technological solutions
that generate high impact
opportunities and we are committed
to our clients' results.**

At TECNALIA,
we transform
knowledge
into profit
for **companies**
and value
for **society**.

Business impact



Social impact



Clients

FOR EVERY EURO invested
by a company in R&D with TECNALIA,
an income of **€14.32** is added to their
Income Statement.

Employment

TOTAL employment kept: **11,017**
Jobs held in Basque Country FOR
EVERY JOB AT TECNALIA: **7.51**

GDP

TOTAL contribution: **€765 M**
€29.52 generated FOR EVERY € INVESTED
by Basque public institutions in TECNALIA

Tax Return

TOTAL contribution: **€93 M**
€3.57 obtained FOR EVERY € INVESTED
by Basque public institutions in TECNALIA

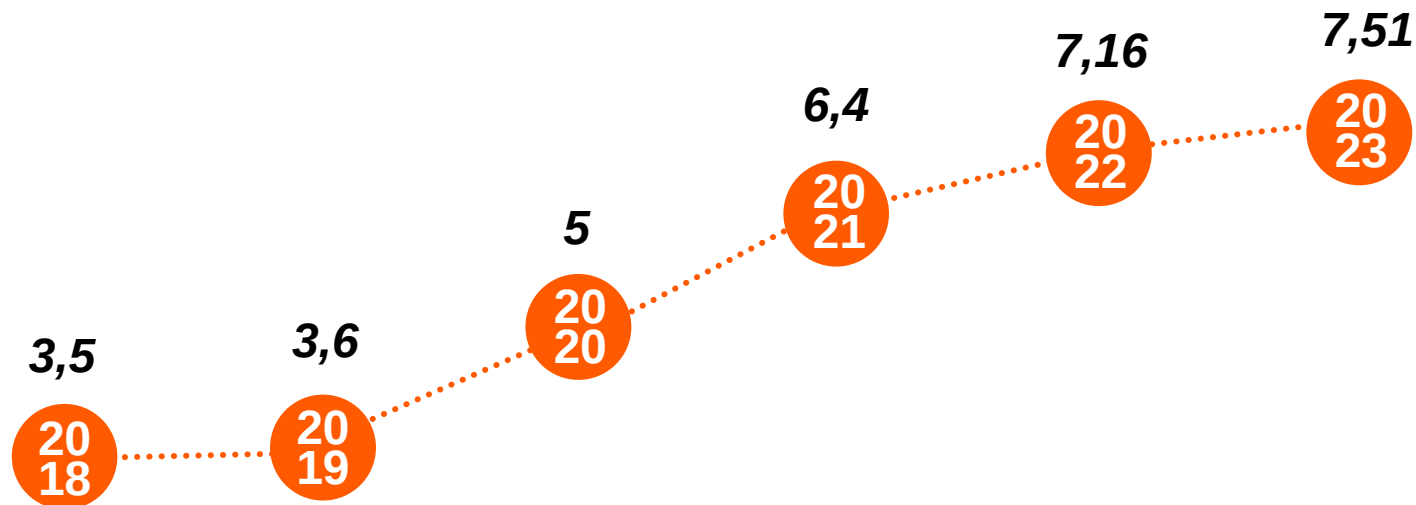


We want to be useful for society

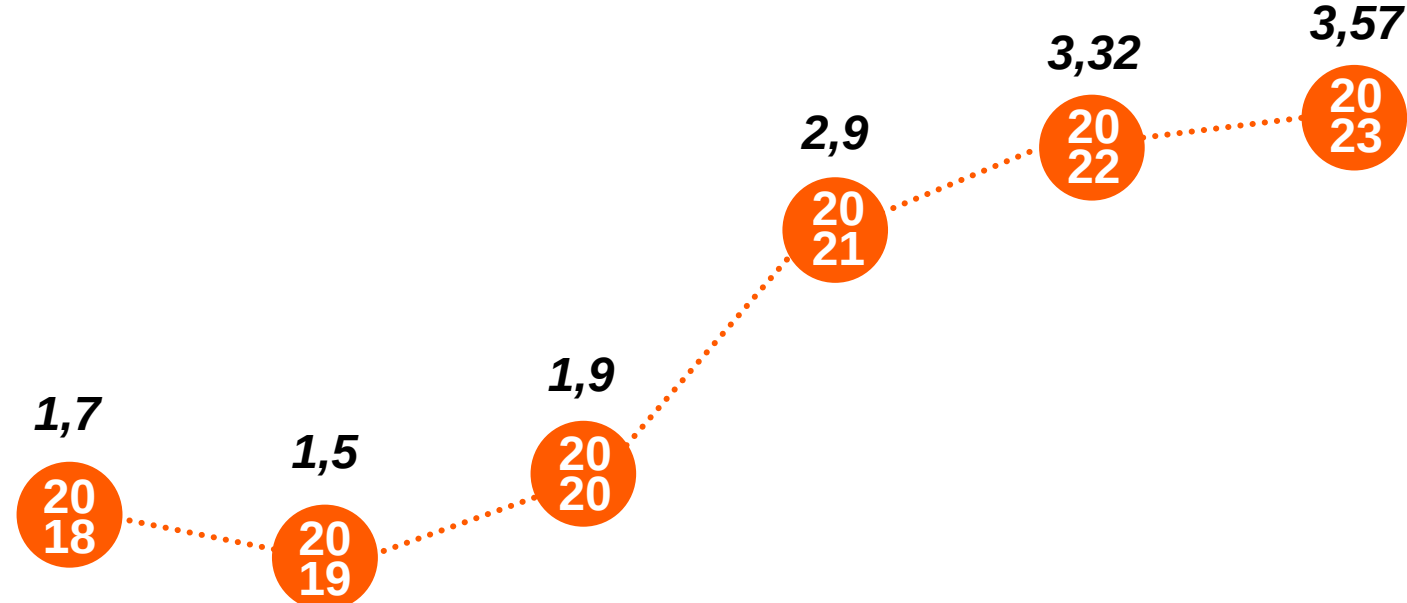
TECNALIA's research has a real impact on society and provides specific solutions to the major global challenges.

Evolution of socio-economic impact indicators

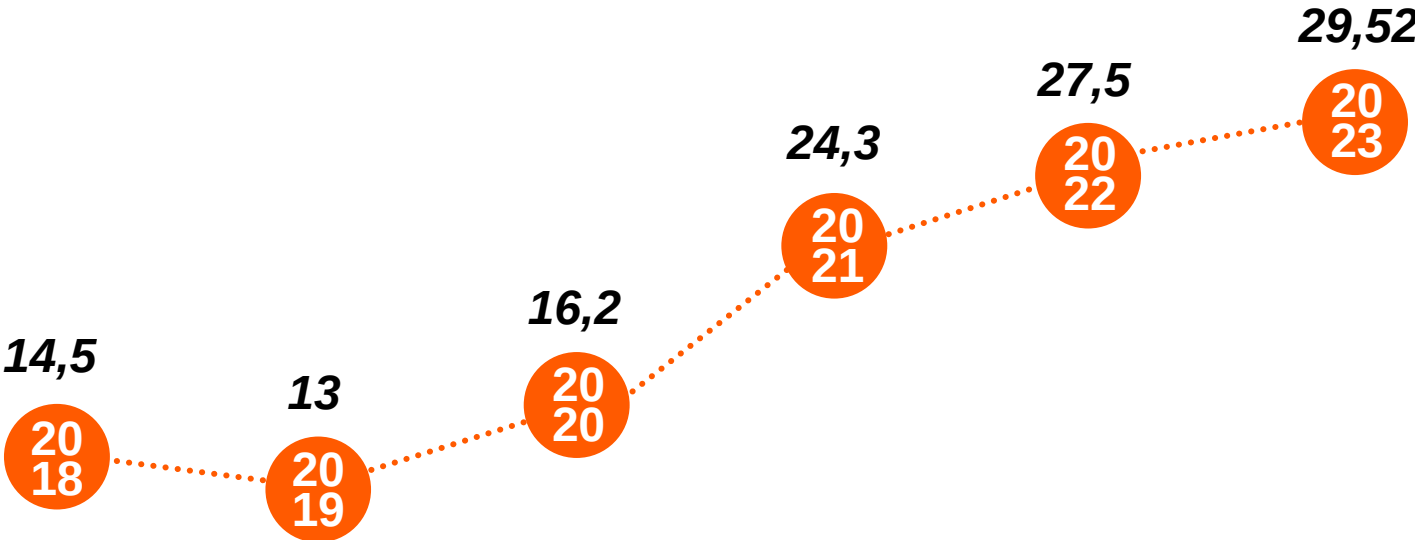
JOB'S MAINTAINED IN BASQUE COUNTRY FOR EACH JOB POSITION IN TECNALIA



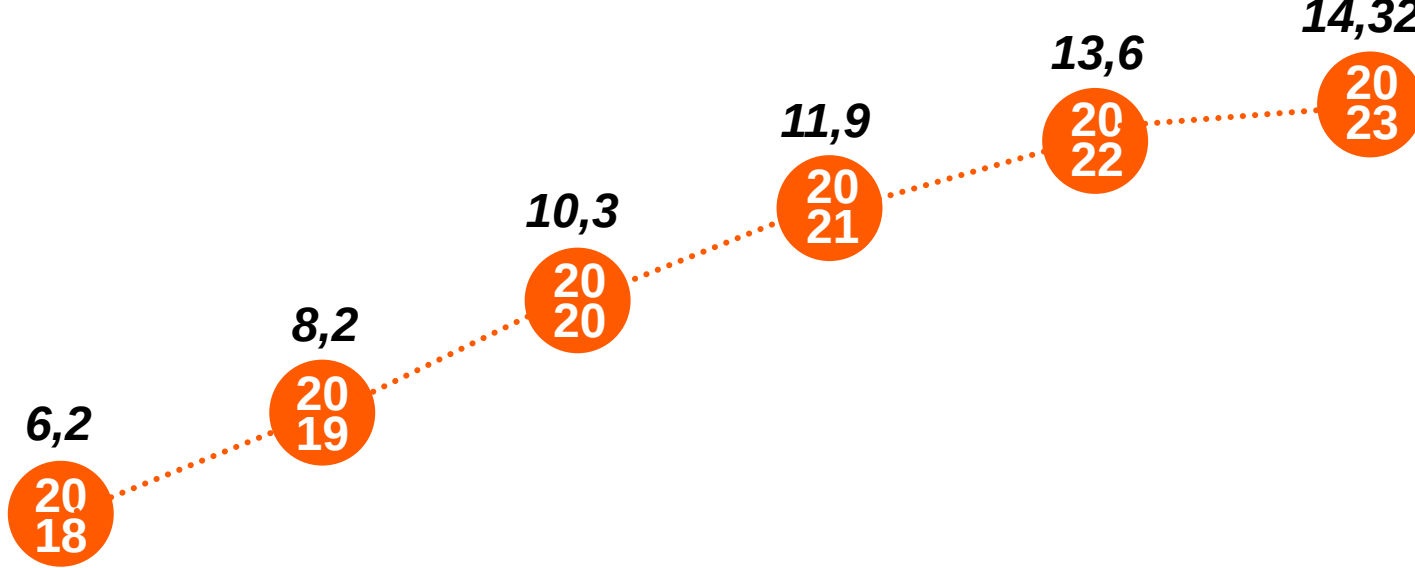
EUROS OBTAINED IN TAX RETURN FOR EACH EURO INVESTED BY BASQUE PUBLIC INSTITUTIONS



EUROS GENERATED FOR EVERY EURO THAT BASQUE PUBLIC INSTITUTIONS INVEST IN TECNALIA



EUROS THAT INCREASE OUR CUSTOMERS' BILLINGS FOR EACH EURO THEY INVEST IN TECNALIA





Multi-technological Excellence

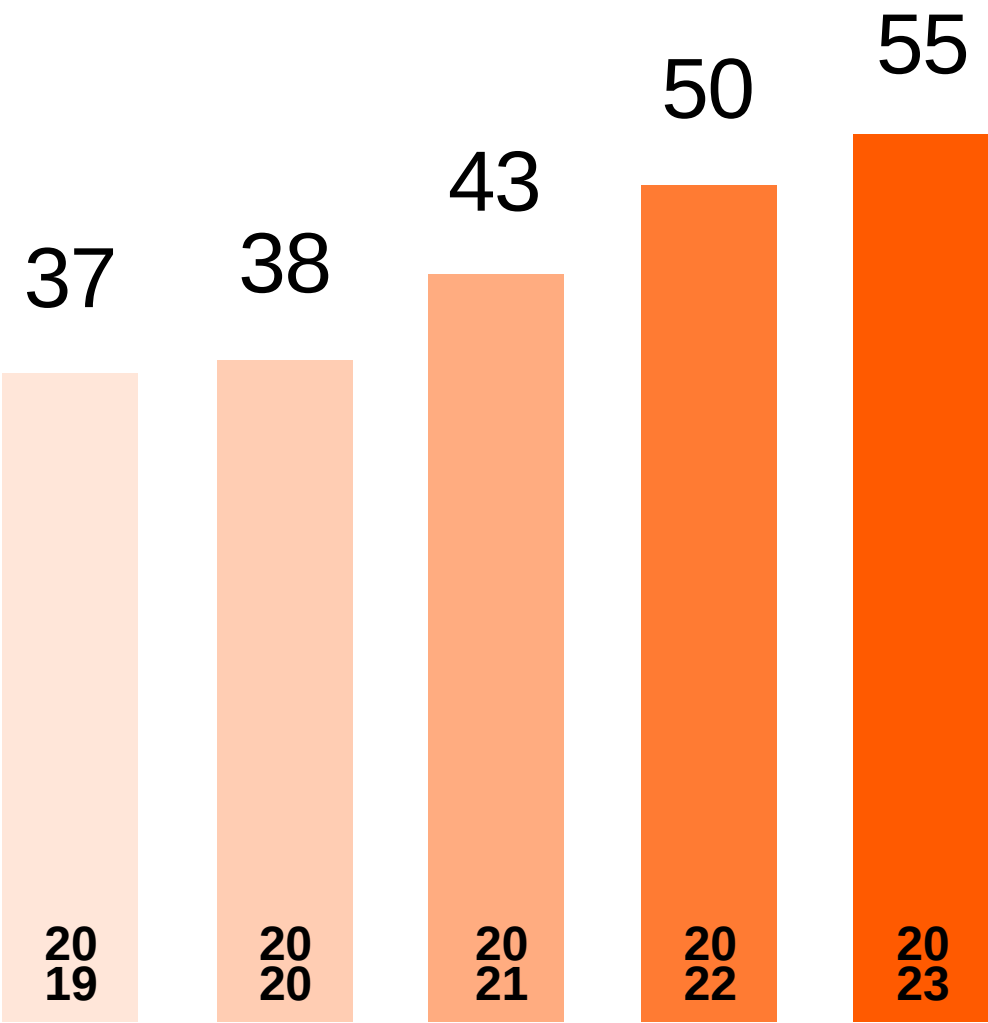
**We have a multi-disciplinary team
to anticipate the needs of today
and of the future through
technological hybridisation.**

tecna:ia

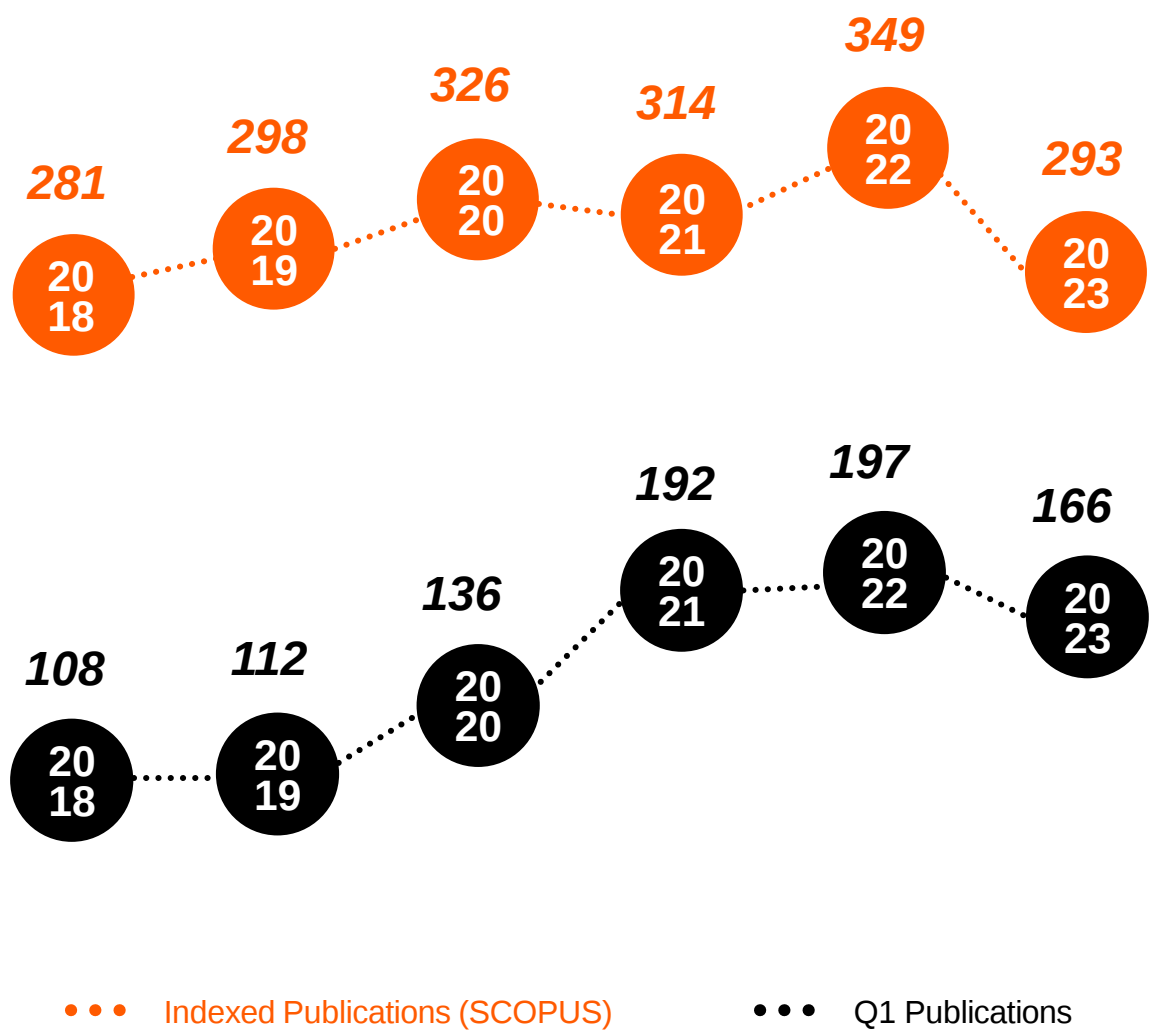
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& TECHNOLOGY ALLIANCE

Technological Specialisation

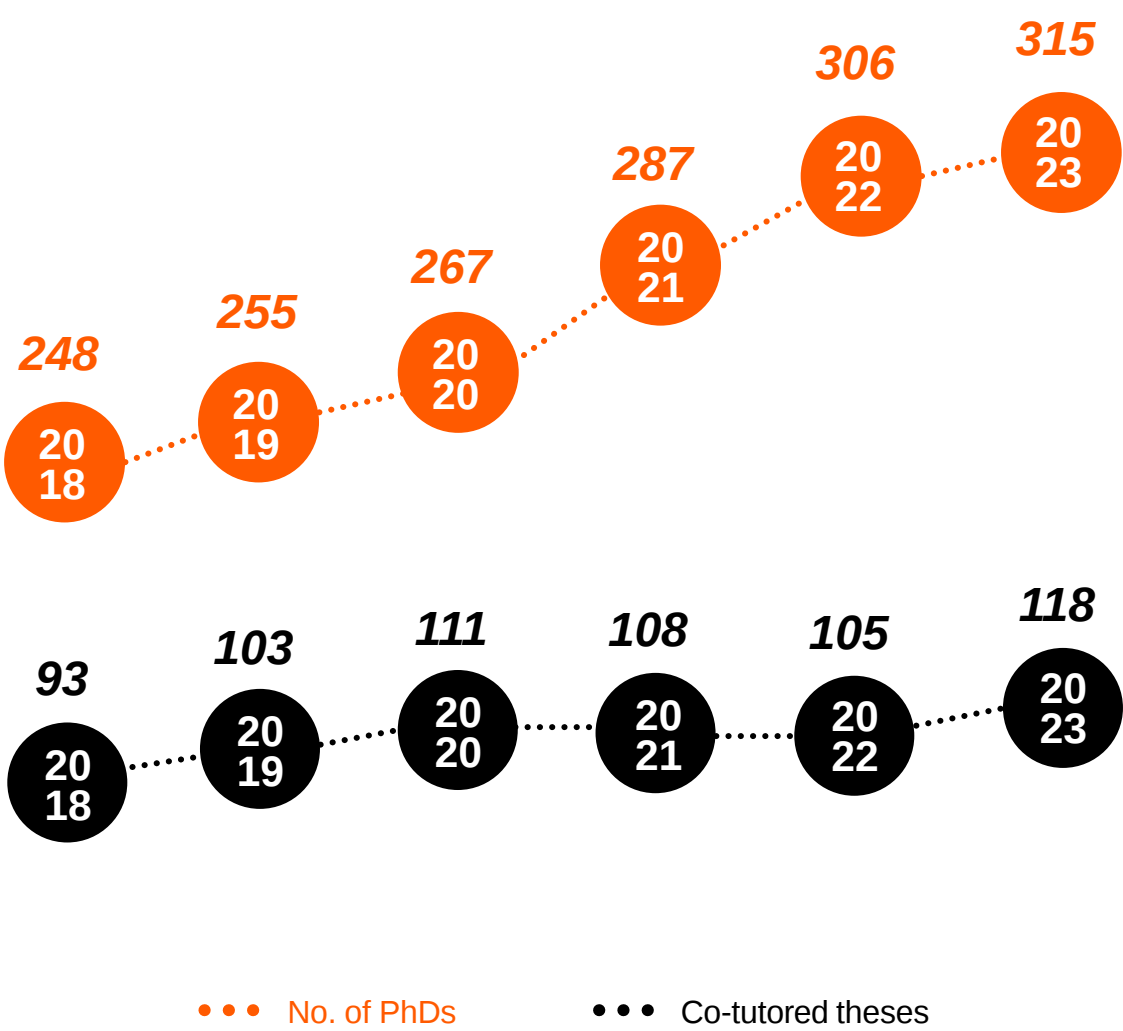
TECNALIA H-index Evolution



TECNALIA Publications Evolution



TECNALIA PhDs & Doctoral Students Evolution



Technological strategy organised in technologies

TECNALIA organises its **Technological Strategy** around those technologies identified in the Technology Plan. In order to maximise the impact of these technologies, TECNALIA structures them into **transversal technologies** (which may have an impact on more than one market) and **vertical technologies** (with an impact on a single market).

All of them are characterised by their technological relevance, scientific- technological capabilities, market demand and research critical mass to achieve the greatest impact on the market.

Transversal technologies

- Robotics, Automation and Mechatronics control
- Cybersecurity
- Computer vision and visual interaction
- Surface engineering
- Artificial intelligence and Big Data
- Metals
- Nanotechnology
- Polymers, composites and bio-based materials
- Embedded electronic systems, power and control electronics
- Software technologies
- Quantum technologies

Specialised technologies

- Adaptation to climate change
- Molecular biology
- Biosynthesis and fermentation
- Structural calculation and fluid-structure interaction
- Air quality and acoustics
- Life cycle and eco-design
- In-service performance
- Reliability
- Galenic development
- Dynamics of offshore systems
- Urban design
- Design and simulation
- Biological assessment
- Extraction and encapsulation
- Physics of the building
- Hydrogen
- Fire engineering
- Cementitious materials
- Meteorology and climate
- Energy models
- Semantic models
- Neural interfaces
- Power systems
- Manufacturing processes
- Sustainable chemistry
- Membrane technology and process intensification
- Waste valorisation technologies
- Photovoltaic technologies
- Thermodynamics

Our essence

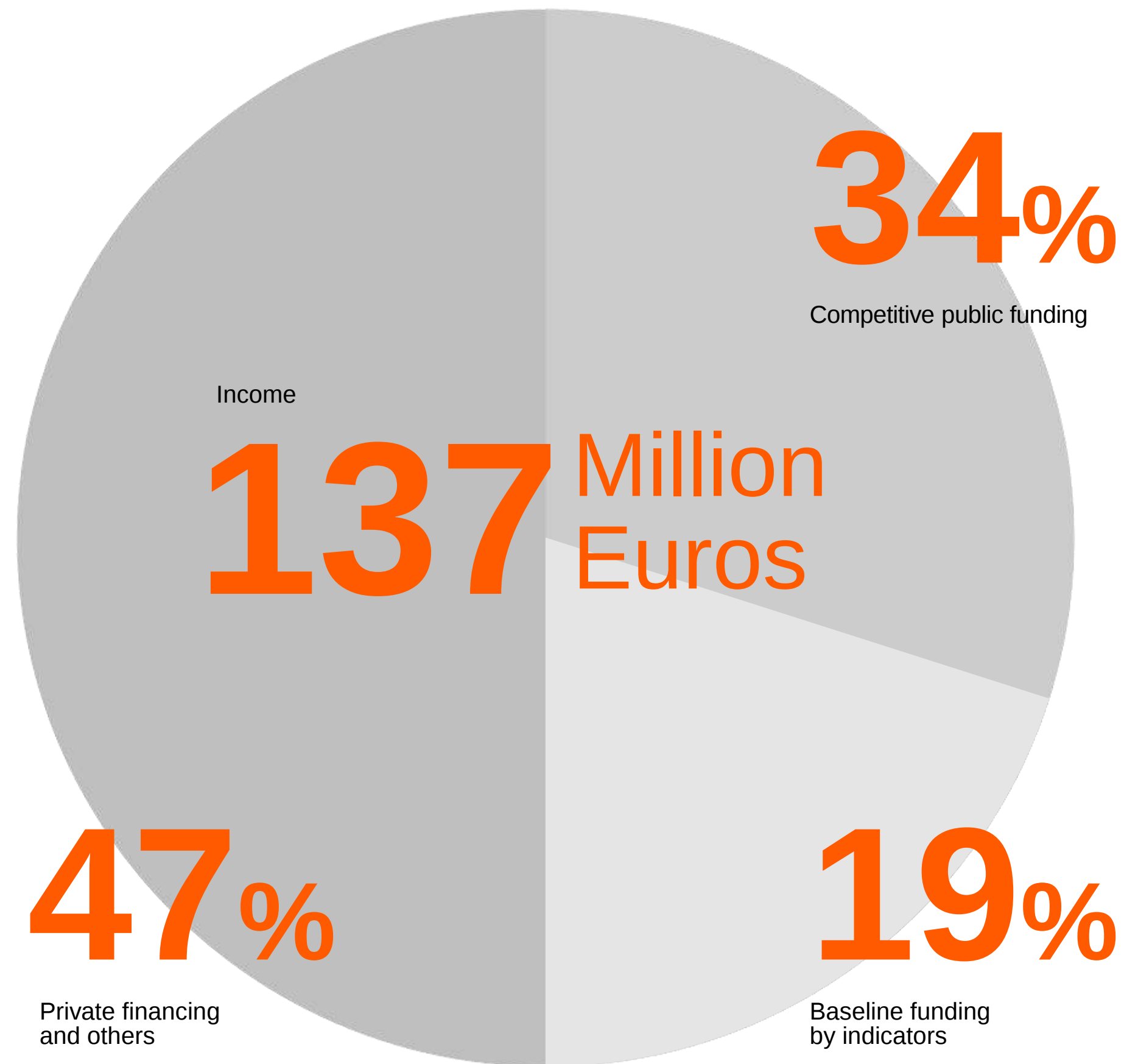
**At TECNALIA, we transform
knowledge into profit for
companies and value for society.**

Through R&D and Innovation, we create solutions that generate economic impact on companies, prosperity for the country and value for society, in terms of quality of life and progress.

To do so, we have adopted our claim,
which sums up this essence:

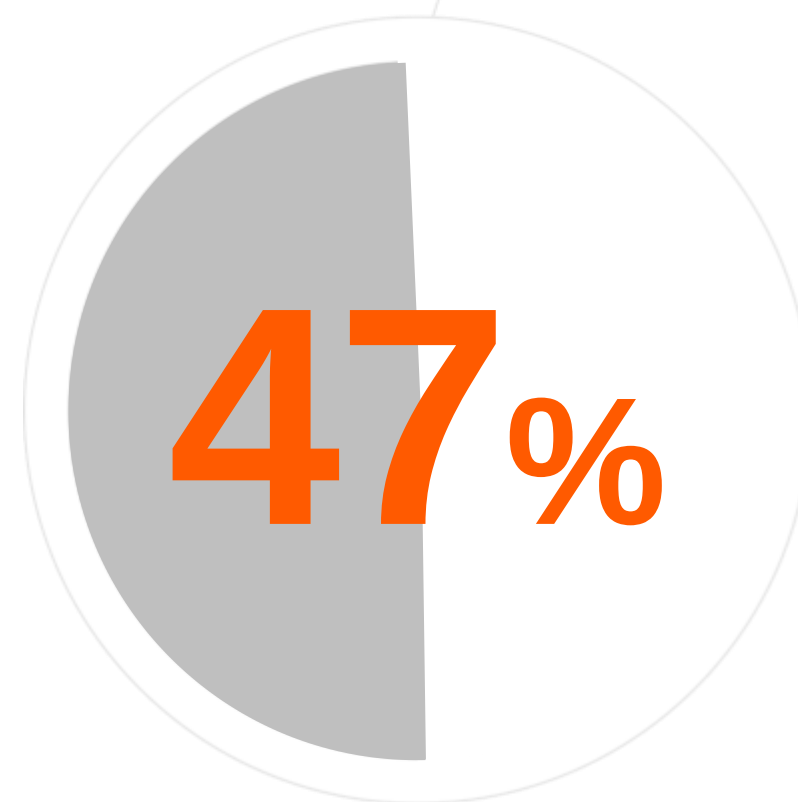
Creating Growth : Improving Society

Balance of activities and their funding

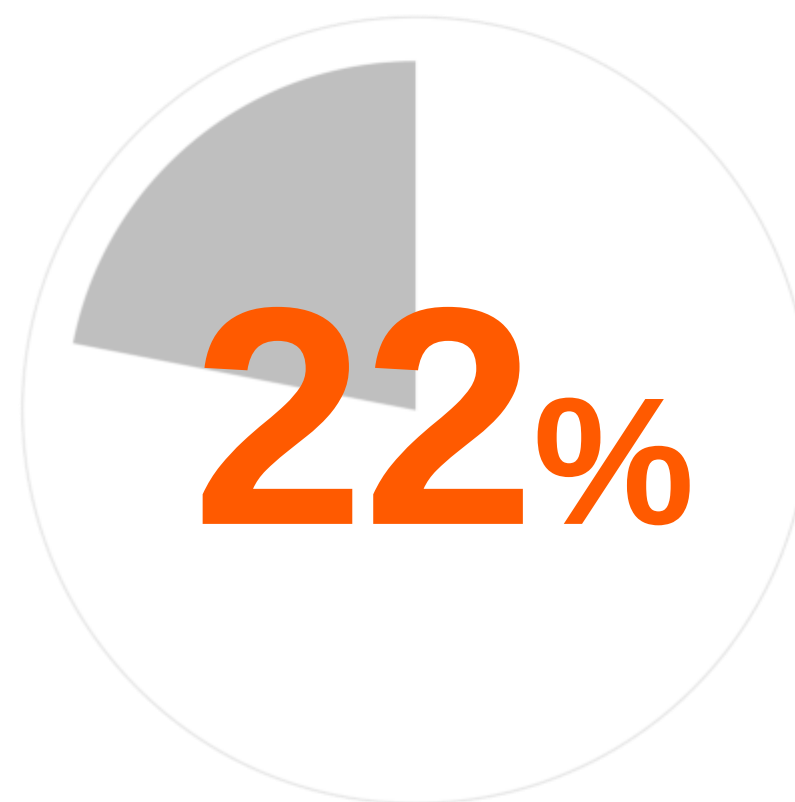


Figures on 31 December 2023

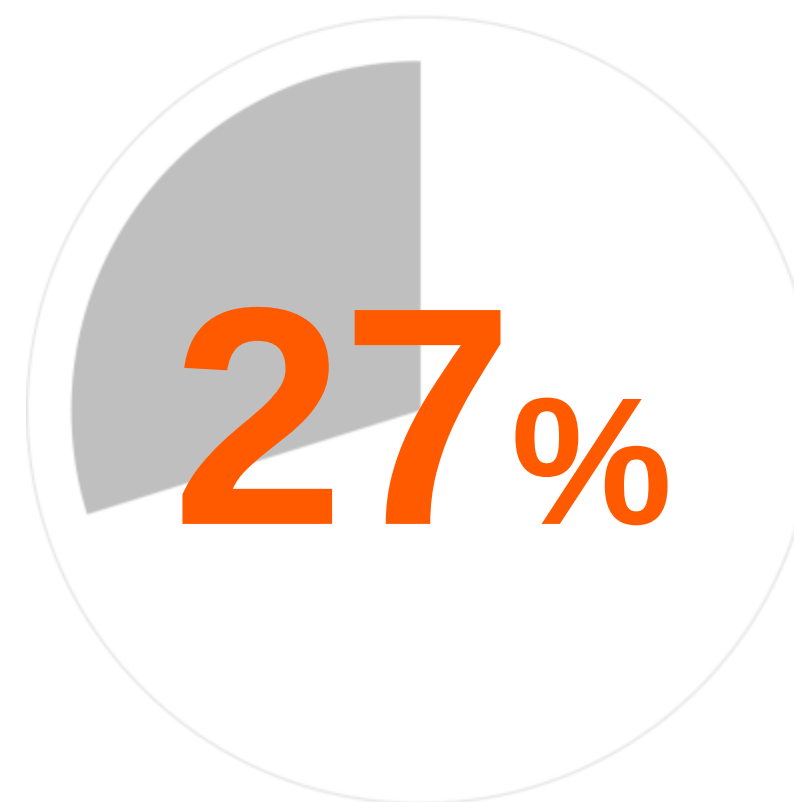
Sources of Funding



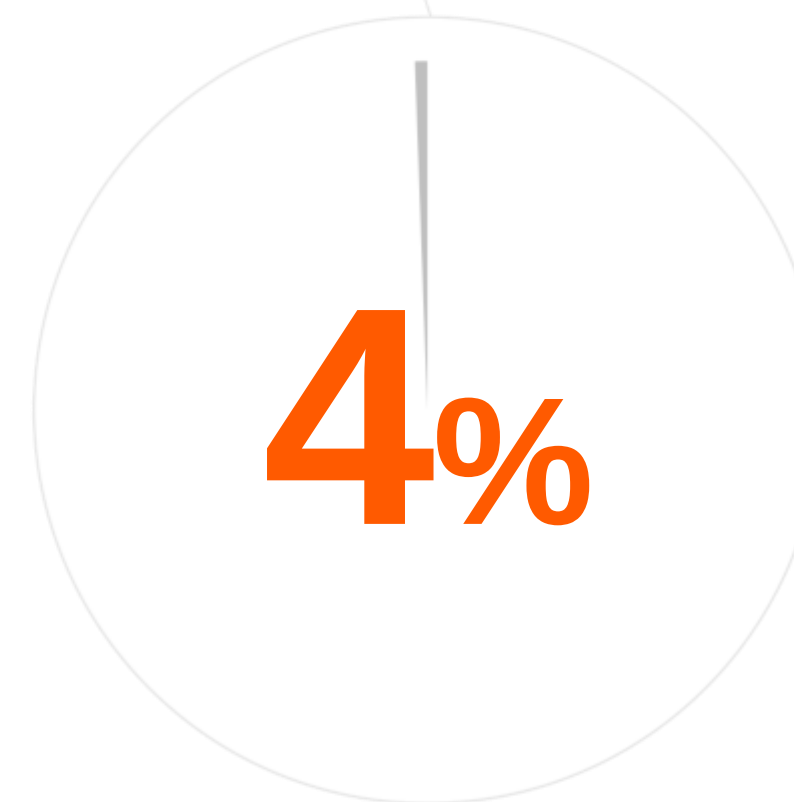
Private
and others



Europe



Basque
Government



Other
Administrations

Proximity to the market

Our objective is to be the **technological partner of all companies**, regardless of their size and R&D and innovation needs.

Scopes of Action



Our scopes of action are aligned with the sustainable development goals (SDG)

With a multi-sectoral and multi-technological perspective, we listen and work with companies to respond to the major global challenges.

In this way, we are able to generate profit for companies and create value for society.



Smart Manufacturing:



In a changing global scenario, we pursue an aim shared with manufacturing companies from all sectors, making a positive impact on their productivity while increasing the competitiveness of their businesses. To do so, **we are committed to smart, flexible and sustainable manufacturing through digitalisation, automation and eco-efficiency** as drivers of the change that transforms materials and manufacturing processes.

What can we do for you?

- Industry 4.0
- Advanced machines, automation and robotics
- Decarbonisation of industry and the circular economy
- New materials and manufacturing processes
- Additive manufacturing
- Quantum sensing

Further information



Digital Transformation:



We love designing and deploying the digital processes, products and services of the future in an ever more interconnected and **interactive world**. Thus, our digital strategy focuses on three drivers: intelligence, security and new value generation models. Thanks to them, we develop a unique proposal in data economy for product manufacturers and integrators based on cybersecurity, blockchain and artificial intelligence.

What can we do for you?

- Quantum technologies
- Artificial Intelligence
- Robotics and cognitive systems
- Advanced systems for interaction and worker 4.0
- High-performance computing for Big Data
- System lifecycle and DevOps
- Cybersecurity and confidence
- Internet of Things (IoT)
- Sensors and actuators
- Computer vision
- Smart maintenance

Further information



Energy Transition:

We contribute to in-depth energy decarbonisation by developing technological solutions that make renewable energies more competitive, foster smart electrification of energy systems and unleash the potential of hydrogen as a high-value energy vector to be climate neutral by 2050.

What can we do for you?

- Renewable energy
- Smart grids and storage
- Positive energy buildings and districts
- Industry decarbonisation
- Decarbonised mobility
- Digitalisation of energy
- Energy transition materials
- Climate-energy strategy and environmental sustainability

Further information



Sustainable Mobility:



We design and develop technologies and new business models that contribute to the shift towards a future scenario **in which mobility has a low environmental impact and is connected, efficient, safe and inclusive.** This includes improving transport vehicles, communication systems and energy infrastructures, as well as their interaction and integration into urban and interurban ecosystems.

What can we do for you?

- Urban air mobility
- Smart mobility management
- Energy for sustainable mobility
- Transport infrastructures
- Automated driving
- Electric and hybrid vehicles

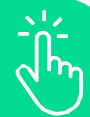
Further information



Health and Food:

We foster the development of customised products and services in prevention, diagnosis, prognosis, treatment and rehabilitation phases, through an integrated approach that includes genetics, nutrition and physical and social environments, as the main variables that affect people's health.

Further information



What can we do for you?

- Food ingredients and functional compounds
- Healthy foods
- *In vitro* diagnosis
- Regenerative medicine
- Neuroengineering
- Biomedical product
- Medical robotics
- Digital health and medical imaging
- Pharmaceutical development
- Health and safety wearable devices
- Healthy urban solutions

Urban Ecosystem:

We contribute to the positive transformation and development of cities and regions by implementing a set of people-oriented technology innovation solutions to develop smart, low-carbon urban environments.



What can we do for you?

- Smart eco-materials
- Smart buildings
- Energy in buildings and cities
- Resilience and climate change
- Urban and territorial transformation
- Healthy city
- Urban mobility
- Smart infrastructures

Further information



Circular Economy:



We work towards a circular economy as the **driving force for change and an ecological transition vector**, to help companies and society as they make the much-needed change towards **a sustainable circular economy development model**. Our strategy is based on three drivers: **minimising** raw material consumption and waste generation; **extending the useful life** of products and assets as much as possible; and **generating value from waste**. Our value proposal is based on these drivers, and we apply, throughout the entire life cycle, combinations of strategies and technological solutions to achieve circularity.

What can we do for you?

- Natural resources and sustainability
- Product and process eco-design
- Circular industry
- Circular cities & regions
- Waste recovery and recycling
- Digitalisation for circular economy
- Bioeconomy

Further information



Relationship models with companies



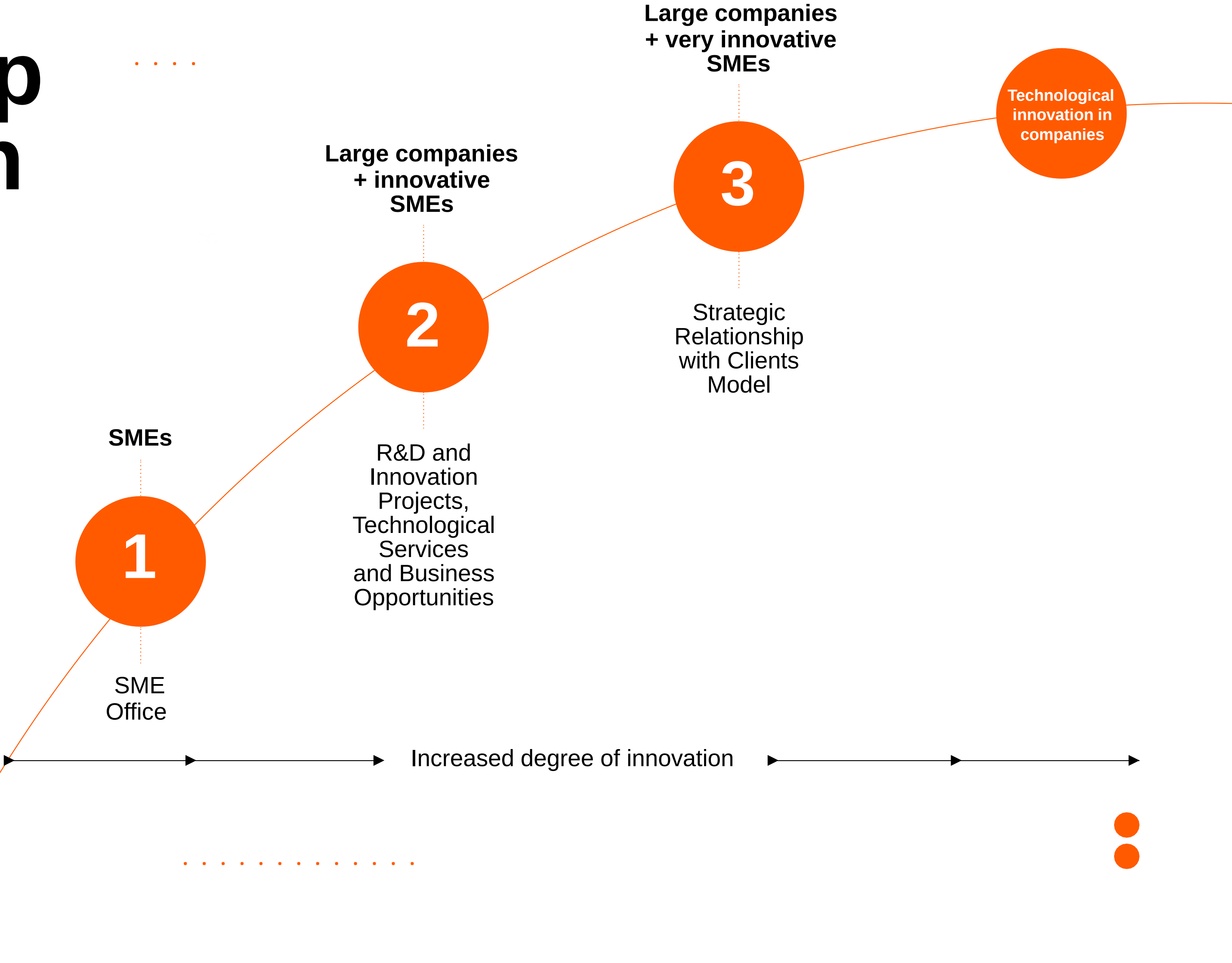


**We want to be the
technological partner of all
companies to generate high
impact business opportunities
through technology.**

Together, we can provide specific
responses to the needs of the future.

Relationship models with companies

TECNALIA's Relationship Models with Companies vary according to their degree of Technological Innovation, adapting to the needs of each Company.





1
Laboratory services

R&D and Innovation projects
2



Development of Investment Opportunities
3



Laboratory services

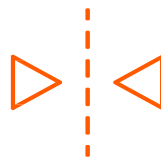
A team of experts and a set of laboratories which develop, certify and validate processes, systems and products that you need to launch on the market promptly.



Security



Trust



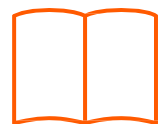
Proximity



2

R&D and innovation projects

As strategic partners for your company, **we develop customised R&D and innovation projects** with a sole purpose: to generate impact on your business through technology.



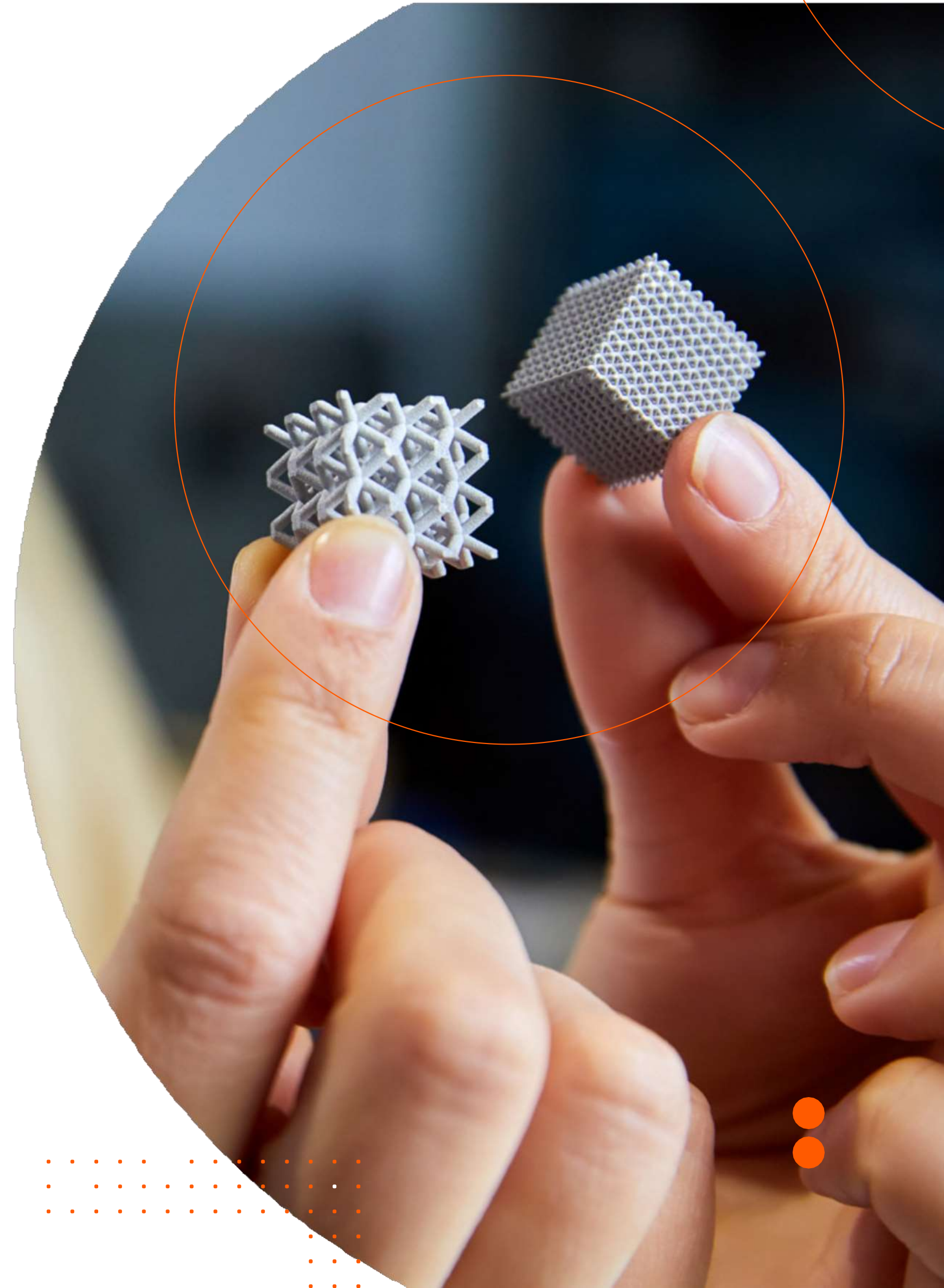
Research



Development



Engagement



Development of investment opportunities

Through **TECNALIA Ventures**, we help you to address your R&D appraisal problems and make your business grow. To do so, we connect you with the three pillars of the technology transfer to market process:



Technological capabilities aimed at improving your income statement.



People with a business profile who are able to turn these capabilities into business.



Investors committed to business development.

3



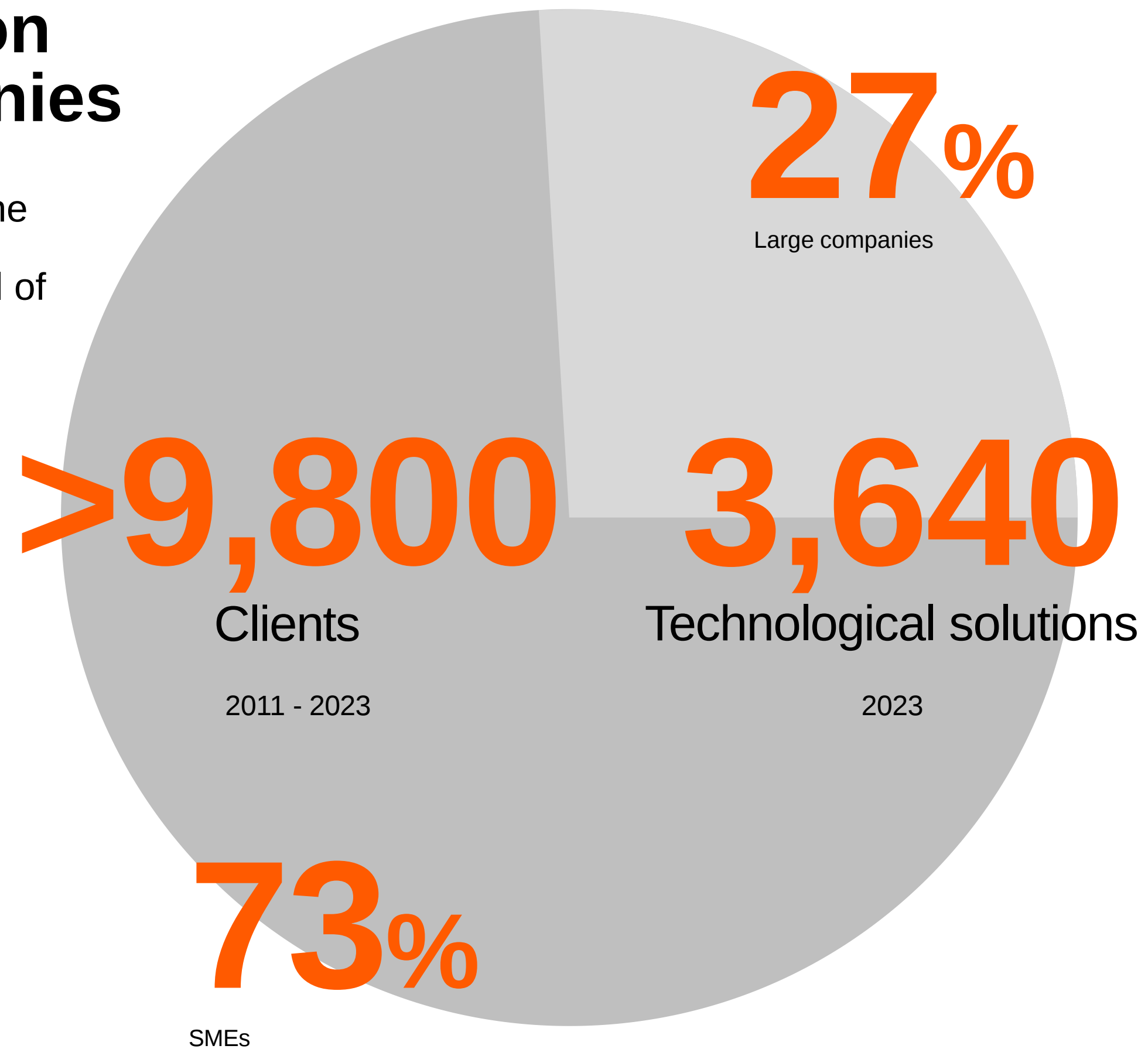
Collaboration with companies

We are committed to the
closest collaboration to
obtain the highest level of
satisfaction for you.

Satisfied
clients*

8.7
10

* Client satisfaction index for 2023.

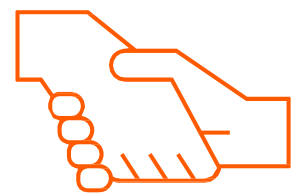


Business engagement

Deeply rooted in the business community with strong institutional backing, TECNALIA has a solid foundation to become your business driver.

Over 100 companies participate in our Governing Bodies.

..



25

Patron Trustees

Companies



11

Institutional Trustees

Basque Government, General State Administration, Provincial Councils, UPV/EHU



7

Appointed Trustees

Persons of recognised standing



6

Numerary Trustees

Town and City Councils and Trade Associations



A large, circular, microscopic view of cells, possibly from a petri dish, is centered on the page. The cells are stained and show various internal structures. The background is a solid orange color. The title 'Dual Impact Stories' is written in large, white, sans-serif font across the center of the image.

Dual Impact Stories

Creating **profit** for companies
only makes sense if it
generates **value** for society.



Stories that, when told,
can respond to our brand claim.

Creating Growth : Improving Society

GESTAMP

Advanced manufacturing processes in the automotive industry



Miguel Ángel Ferrández
R&D BIW Bilbao
Director GESTAMP

“In conjunction with TECNALIA, thanks to the implementation of advanced manufacturing processes in the automotive industry, we have succeeded in reducing energy consumption, CO₂ emissions and production costs.”



MORE INFO

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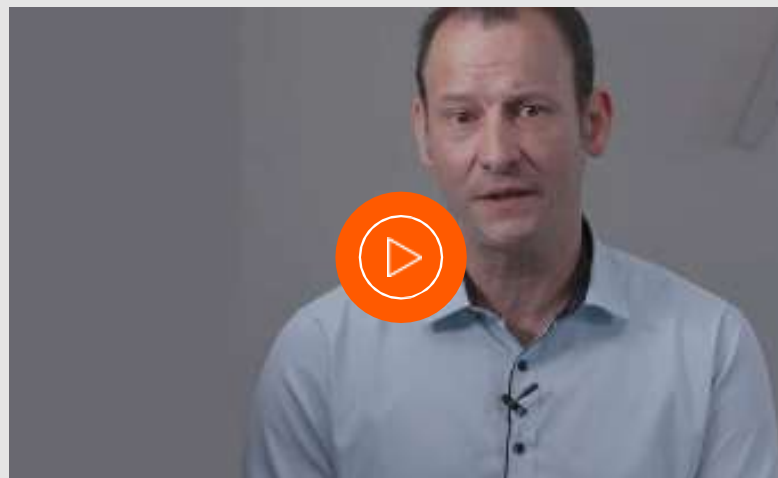


TECNALIA's collaboration with GESTAMP has enabled the development of a pioneering software that enables us to modify the manufacturing processes of automotive components and adapt them to more flexible, lighter and large-scale materials.

As a result of this collaboration, we produce components for the automotive sector that address today's environmental requirements.

ACLARA

Equipment and component manufacturers for the electrical and power sector



Pedro Urteaga
President of
Global IEC Engineering
ACLARA-HUBBELL

“In conjunction with TECNALIA, we create new products and solutions that allow for a more responsible and sustainable use of energy.”



MORE INFO

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At the ACLARA (Hubell) engineering excellence centre, TECNALIA's multi-technological know-how is turned into innovative solutions that foster a decarbonised, electrified and more digitalised energy model.



We are living in an era in which shared knowledge is a powerful tool to come up with solutions that add value to society.

IMQ

Leading private
healthcare company in
the Basque Country



Nicolás Guerra
General Manager
IMQ Clinics

“In conjunction with TECNALIA,
we develop smart solutions to
improve working conditions and
the quality of working lives in
order to reduce the amount of
work-related accidents and
occupational diseases.”



MORE INFO

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IMQ and TECNALIA are
collaborating actively on a
pioneering project to develop
new generations of personalised
exoskeletons to prevent
straining and musculoskeletal
injuries.

Thanks to these improvements,
cost-effective technological
tools will be created, adapted to
the market's current needs.

VIDRALA

**Producers of more than
8 billion glass containers
a year**



Soraya Villa

**Operations Data Systems
Manager VIDRALA**

“In conjunction with TECNALIA,
we have learned that applied
technology can be a great tool
for detecting and solving
everyday problems in industry,
resulting in more sustainable
products.”



MORE INFO

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**The collaboration between
VIDRALA and TECNALIA addresses
a very common problem: the
appearance of bubbles in glass
containers. In search of a solution,
TECNALIA's full technological
potential and VIDRALA's
experience in glass manufacturing
have been combined.**

**We have managed to create a unique
technological solution in the sector that
allows us to calibrate the furnaces even
better to control the production process,
fine-tune the quality of the products and
reduce energy consumption,
which benefits companies and
society as a whole.**

ALUCOIL

Manufacturers of
technologically advanced
materials for the building,
transport and industrial
sectors



Belén Martín
ALUCOIL General Manager

“In conjunction with TECNALIA,
we are addressing a new market
situation with innovative
solutions, in which housing is
more sustainable and integrated
into a new, more inclusive urban
model.”



MORE INFO

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ALUCOIL and TECNALIA
embarked on a collaboration
that aimed to study a new
façade cladding system using
aluminium honeycomb panels.



Together, we have created
new solutions to make housing
more sustainable and integrated
into a new, more inclusive
urban model, and to make
people’s lives safer.

INKOLAN

Supplier of digital information on water, gas, electricity, telecommunications and municipal network infrastructures



Lucía Alcibar-Arechuluaga
Business Development
Director, INKOLAN

“With TECNALIA we tackle the digital transformation of the cities of the future in an efficient way, counting on a differential factor: data.”



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The collaboration between INKOLAN and TECNALIA is especially important, because we have worked together on the design and application of digital twins in urban contexts.

Our work involves a software architecture that virtually replicates a city’s water, gas, electricity, telecommunications, and network infrastructure. Then, smart data helps us to understand how the infrastructure works in a global and integrated way.

NORBOLSA

Investment services
company with more than
30 years of history



Iñaki Varela

Deputy General Director
of Media NORBOLSA

“At NORBOLSA, we wanted to
take advantage of this technical
experience and knowledge to be able
to build and deploy a financial
solution for the placement of
promissory notes.”



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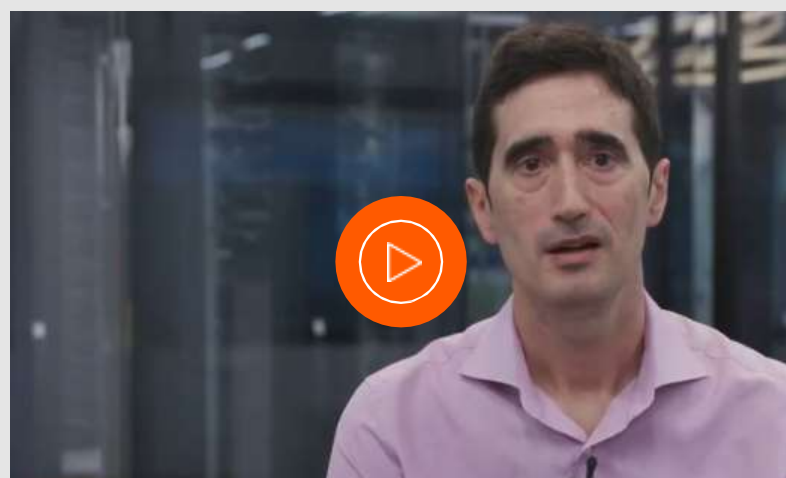


NORBOLSA and TECNALIA
embarked on a pioneering
collaboration to create a
technology platform based on
smart contracts that will enable
financial instruments to be placed
among different stakeholders
rapidly, safely and transparently.

Thanks to the potential of Blockchain
and Web3, we will be able to create
safe and agile innovative solutions
adapted to all types of business and
applied to the specific needs of
society.

i-DE

**Iberdrola group
electrical distribution
company**



Zigor Ojinaga

**i-DE Substation Standardization
Manager**

“Thanks to the use of new generation
tools and equipment we manage to
save time, costs and remotely solve
potential incidents that may occur.”



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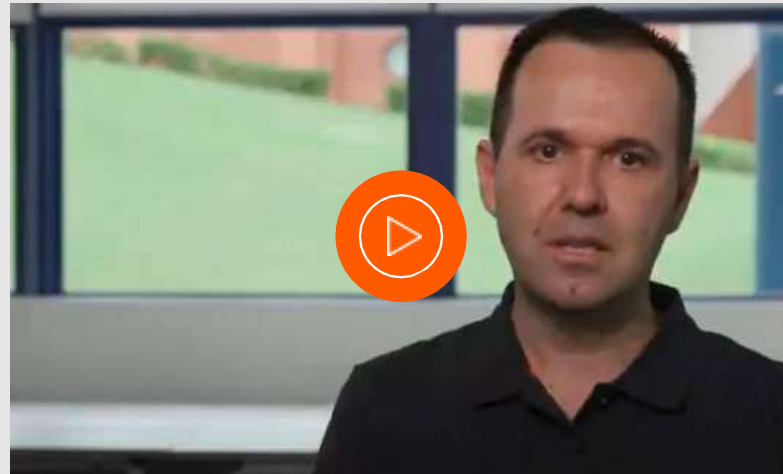


**i-DE and TECNALIA have
embarked on a collaboration
that aims to define the new
requirements for the functional
validation and cybersecurity of
the electrical grid equipment in
order to guarantee the efficiency
of supply and, in turn, comply
with the most demanding
verifications.**

**We are developing a
technological solution that
seeks greater energy efficiency
and provides numerous
benefits for companies and
for society as a whole.**

COREMARINE

Utilities and power generation



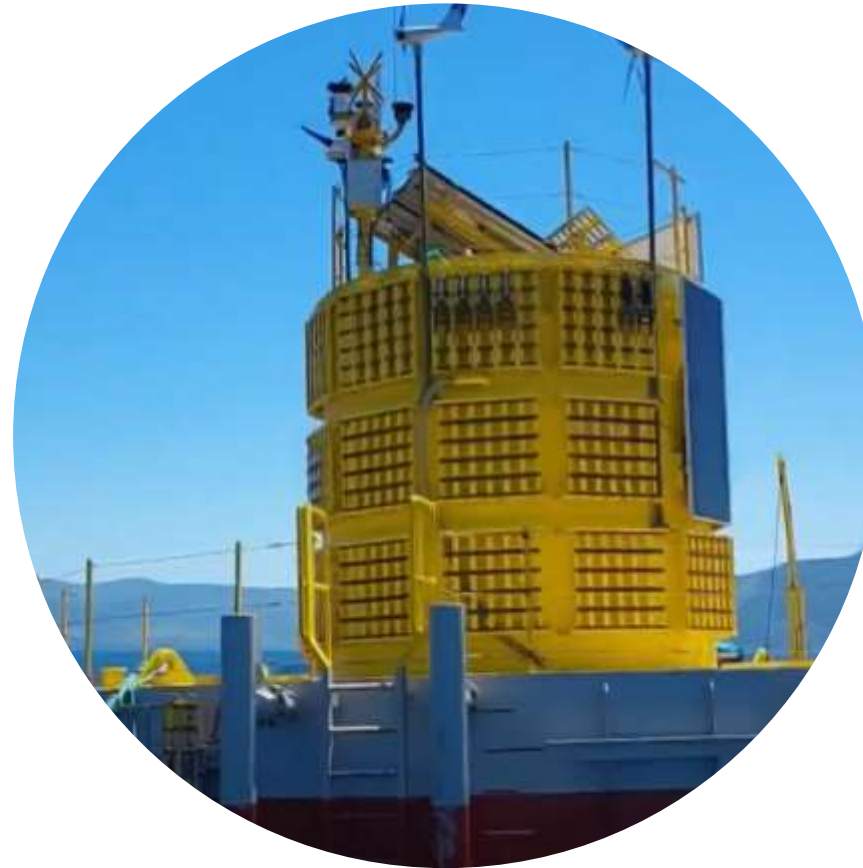
Carlos López
Technology Director,
COREMARINE

“We develop innovative inspection and monitoring solutions that significantly reduce the need to access devices installed at sea.”

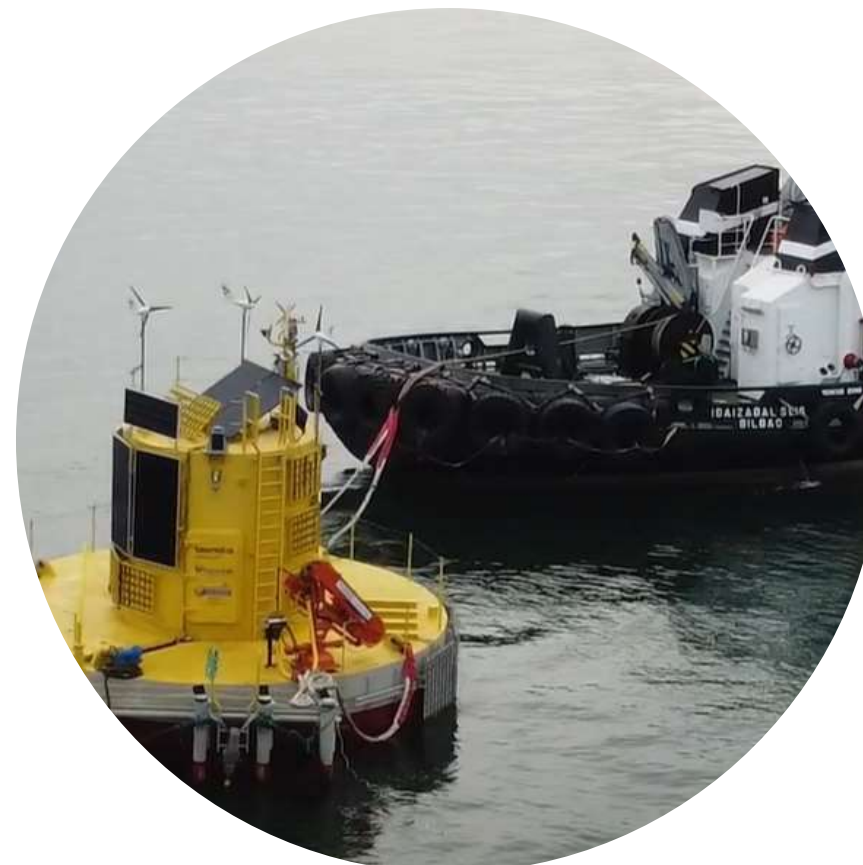


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The collaboration between **COREMARINE** and **TECNALIA** comes in, based, among others, on making the complex and costly operation and maintenance activities of floating wind power more efficient.



This is an innovative way of applying digitalization to solve problems related to marine energy. A project that allows us to reduce process costs and facilitates the commercialization of floating wind energy.

FERSA

Complete
bearing solutions
for the automotive
industry



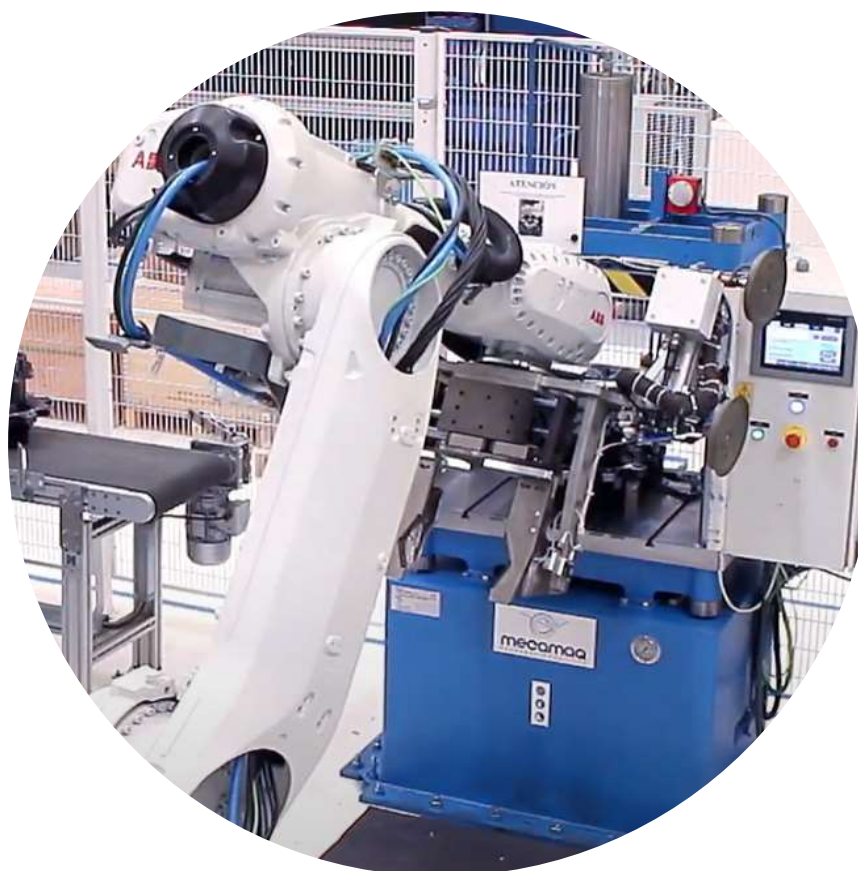
Fernando Cebrián
Operations Director
FERSA

“We developed an innovative technological solution that improves the operational efficiency of production processes, increases product quality and reduces the environmental impact derived from manufacturing.”

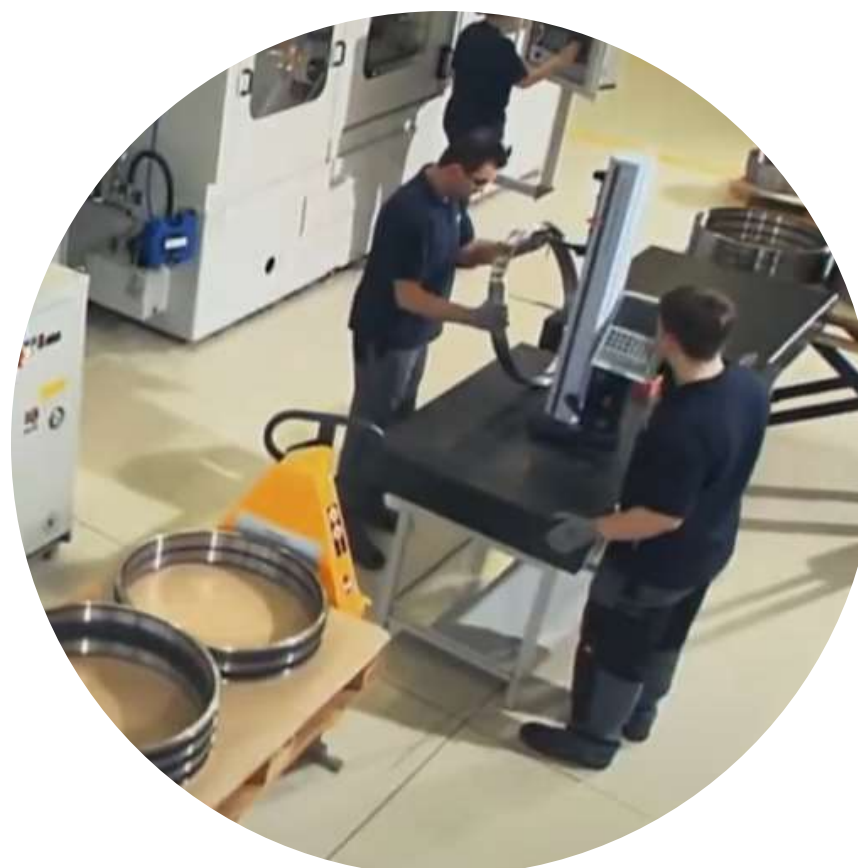


MORE INFO

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The collaboration between FERSA and TECNALIA is based on innovation and artificial intelligence, having developed a data management tool that integrates simulation models from a bearing production line and Artificial Intelligence to control the process.



It is a solution that provides multiple advantages to the industrial sector, the environment and society as a whole.

CIE AUTOMOTIVE

**Components,
assemblies and
subassemblies for the
automotive market**



Óscar Valbuena
Processes engineer
CIE

“We design a new manufacturing route through the hybridisation of two technologies to produce toothed geometries.”



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**Thanks to the collaboration
between CIE and TECNALIA
we have developed
an innovative solution
for the differential assembly
of vehicles of the future.**



**Thanks to the combination of
these two advanced manufacturing
processes, we have achieved greater
efficiency by increasing savings in
raw materials, which also leads to a
reduction in the energy consumed
and the final machining costs.**

VAILLANT SAUNIER DUVAL

Leaders in the
heating and ventilation
technology industry



Ricardo Fernández
Pre-sales support engineer
in VAILLANT SAUNIER
DUVAL

“We have created a heat pump
that works alongside
photovoltaic energy
to optimise comfort levels
using renewable energy.”



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Thanks to the collaboration
between VAILLANT SAUNIER
DUVAL and TECNALIA,
we have carried out a series
of tests in laboratories with
controlled spaces, which
have allowed us to reproduce
the real behavior of the system.



This is a new business opportunity
which integrates renewable energy
into our lives, and the opportunity
to save on monthly bills.

CINFA

Leading laboratory
in the Spanish
pharmaceutical market



Francisco José Aranda
Quality Director
CINFA

“This alliance is the result of a trust-based day-to-day relationship which has led us to create a working team able to address all the drug production phases.”



MORE INFO

tecnalia.com



The collaboration between CINFA and TECNALIA arose with the objective of expanding our joint development and production capacity.



This alliance gives us the opportunity to provide society with accessible quality medicines, so that everyone can enjoy better health for longer.

OPTIMUS3D

Health and medical devices



Izaskun Arriaga
Medical Device
Technical Manager -
OPTIMUS3D

“The introduction of biomedical engineering into the field of healthcare makes it possible to personalise surgical and rehabilitation treatments, providing greater benefits and solutions.”



MORE INFO

tecnalia.com



The collaboration between **TECNALIA y OPTIMUS3D Health**, has come up with an innovative solution that provides a business opportunity by adding a new, unique medical device to our portfolio of products.

Thanks to this collaboration, we provide a treatment superior to conventional treatment that prevents muscles from weakening, reduces pain and, ultimately, improves the lives of people suffering from rhizarthrosis.

Clients

Some clients:



Alliances:



European Benchmark

We are a benchmark centre in Europe

Our purpose is to build a better world
through technological research and
innovation.

To transform knowledge into profit for
companies and value for society.



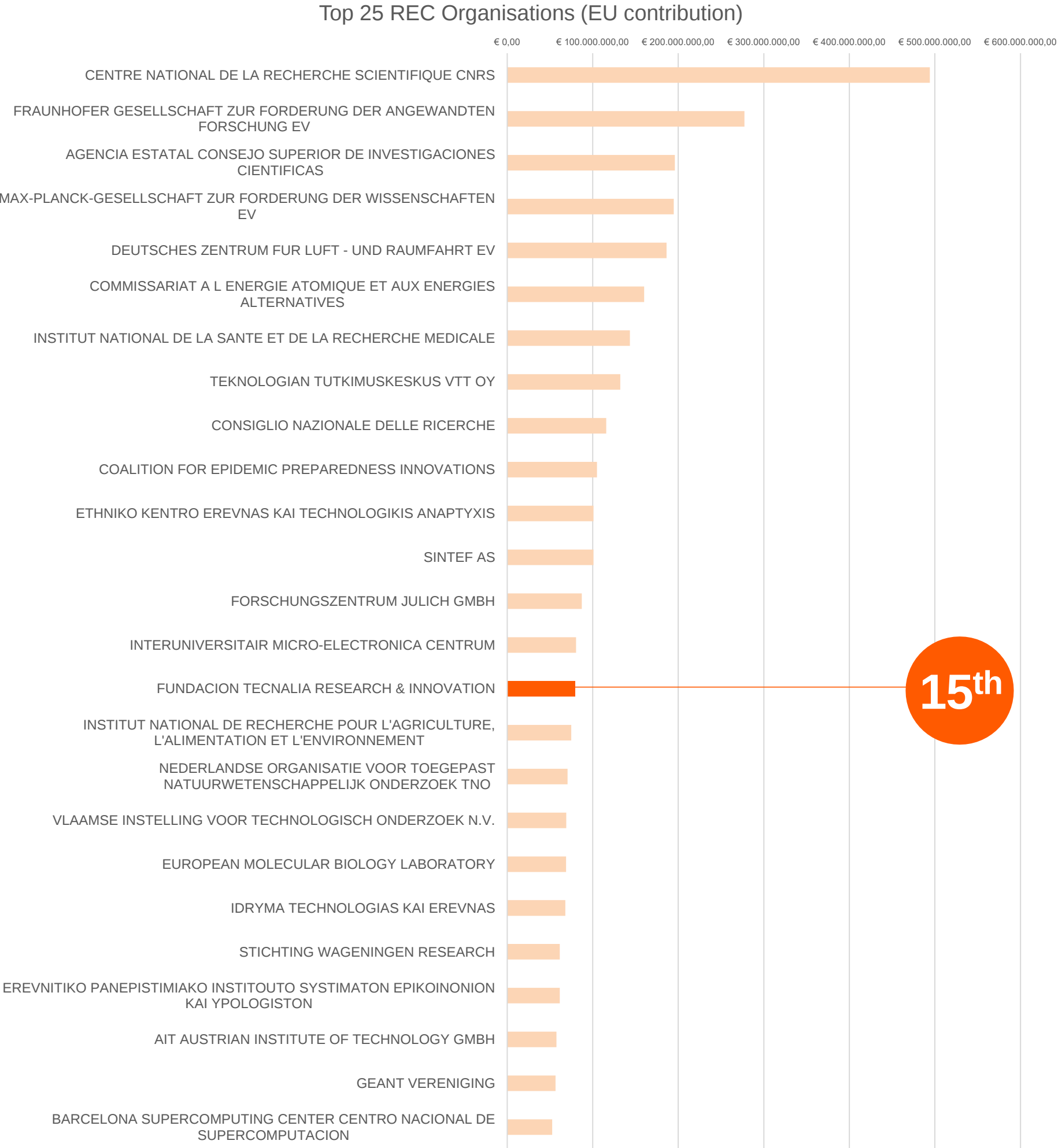


1st

**Private organisation
in Spain in project
contracting, participation
and leadership in the EU
Horizon Europe Programme.**

Ranked No. 15 out of 2,500 European Research Organisations

SOURCE: Funding & Tenders
Data of February 2024



15th



Participation in Horizon Europe

Figures on 31 December 2023



Participation in Partnerships in Horizon Europe

The EU is increasingly outsourcing 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 20 major European partnerships.**



Presence in EIT Innovation Communities



TECNALIA Ventures

tecnalia.com



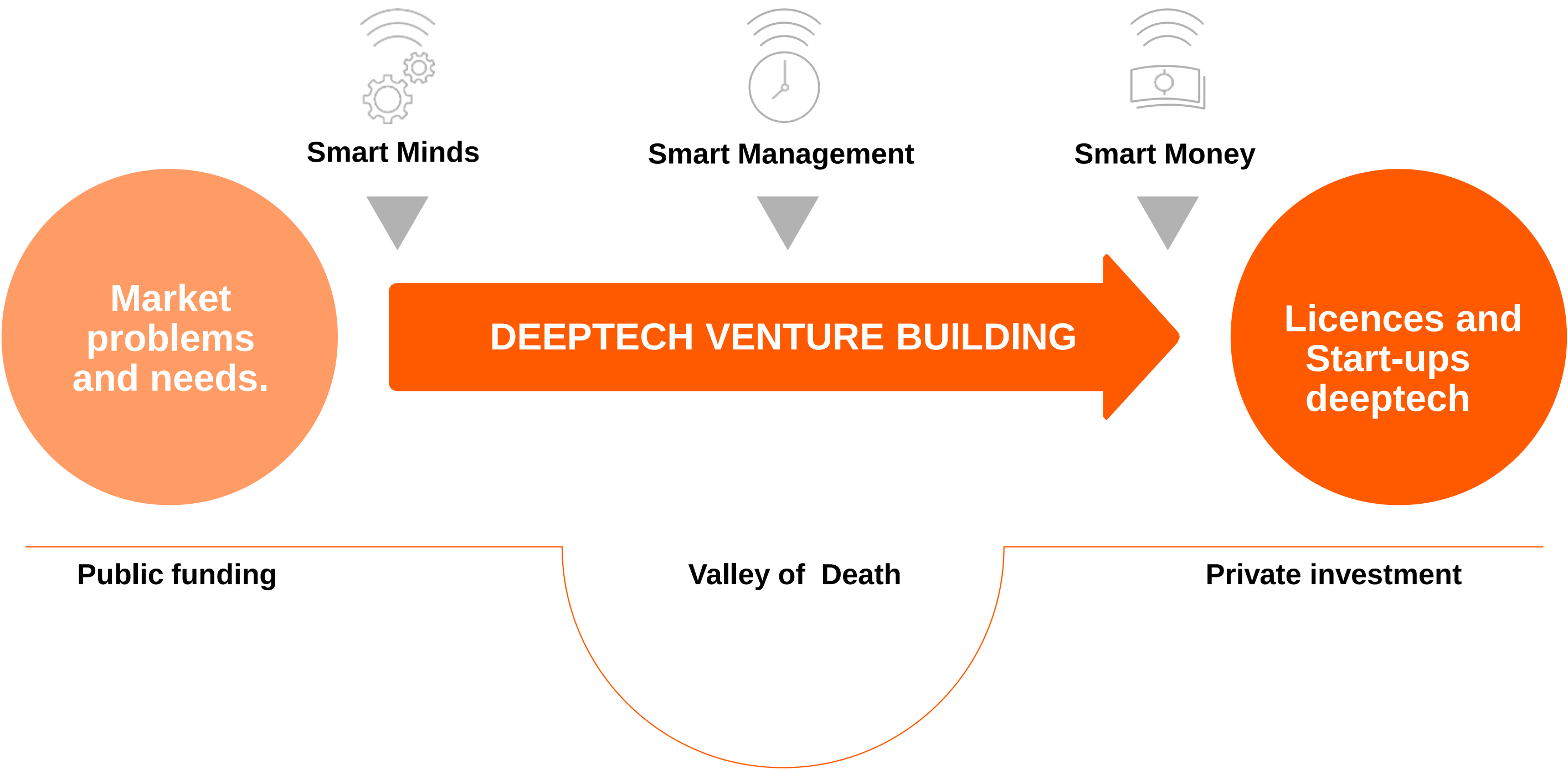
tecnalia ventures

Technology Value for Growth

It is the team of people at TECNALIA that pursues the objective of **adding value to the centre's investment in R&D and Innovation** by identifying and managing deep tech business opportunities through a venture building process.

To do so, it connects the three fundamental pillars of any innovation ecosystem:

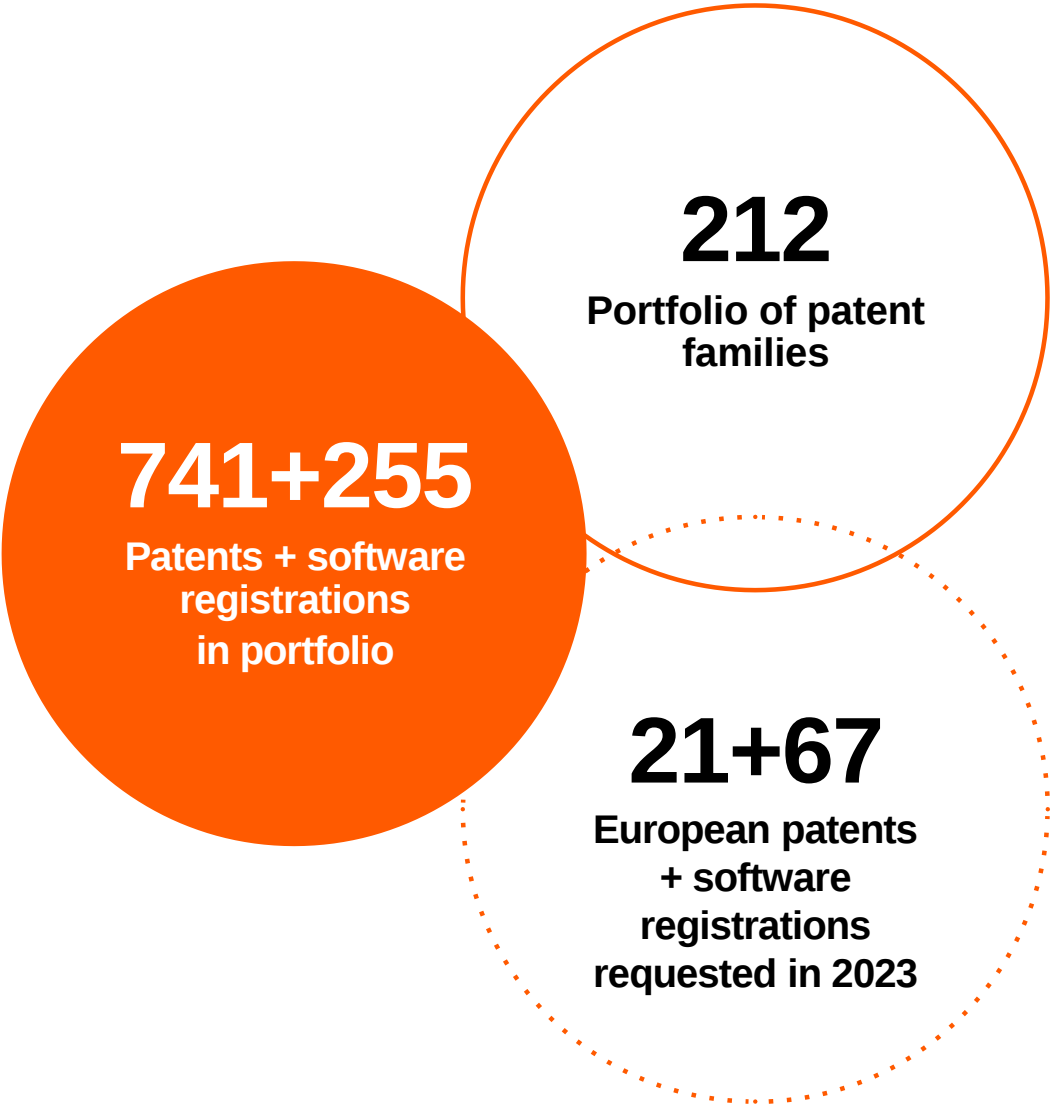
- People who generate technology-based ideas (minds).
- Managers capable of transforming technological ideas into business opportunities (management).
- Investors who bet on deep tech entrepreneurial initiatives (money).



Acceleration of the incubation of technological assets until they are turned into investment opportunities capable of solving corporate income statement problems and generating value for society: DEEPTech VENTURE BUILDING

TECNALIA is currently the fourth Spanish organisation in European patent applications, with an outstanding success ratio of 92% regarding EPO/PCT applications granted since 2012.

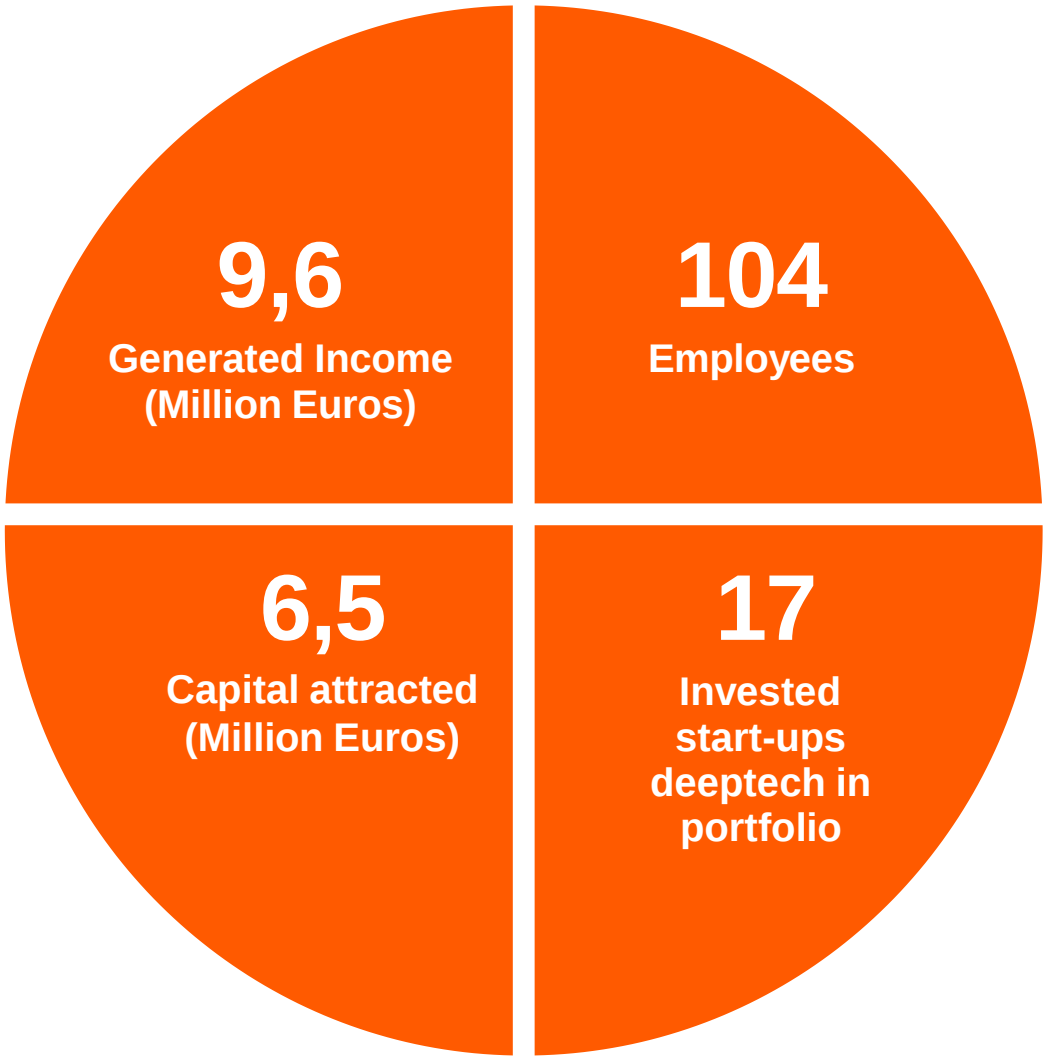
Industrial Property



Figures on 31 December 2023

The **survival** rate of TECNALIA'S start-ups deeptech after 5 years of their establishment is **85%**.

Start-ups deeptech



2023 aggregated figures

TECNALIA-driven companies :



AUREA
www.myaurea.es



DIGIMET
www.digimet.es



ACUSTRAIN
www.acustrain.com



ELCODE



ADDILAN
www.addilan.com



GO4IT SOLUTIONS
www.go4it.solutions



FESIA
www.fesiatechnology.com



INGREDALIA
www.ingredalia.com



VIXION
www.vixon360.com



IZPITEK SOLAR
www.izpitek solar.com/



NEOS SURGERY
www.neosurgery.com



BIOKEMIK
www.biokemik.eu



NAUTILUS
www.nautilusfs.com



H2SITE
www.h2site.eu



VELTIS
www.veltisrating.com

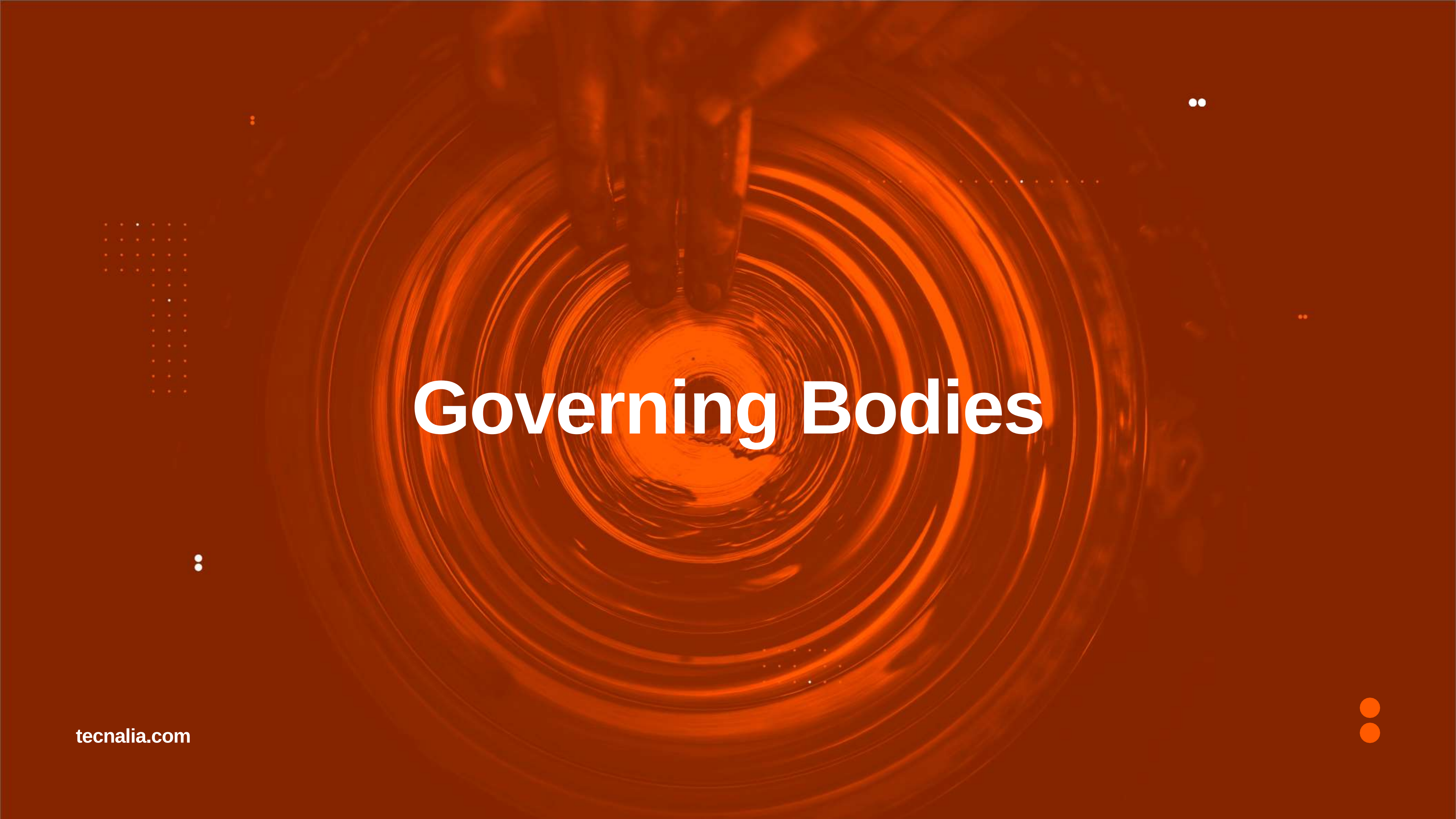


INTELLIALERT
www.intellialert.es



SOLARCRAFT
www.solarcraftaerospace.com





Governing Bodies



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for companies:

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Deeply rooted in the business community with strong institutional backing, TECNALIA has a solid foundation to become **your business driver**.

Over 100 companies take part in our Governing Bodies.

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Boards of operational units



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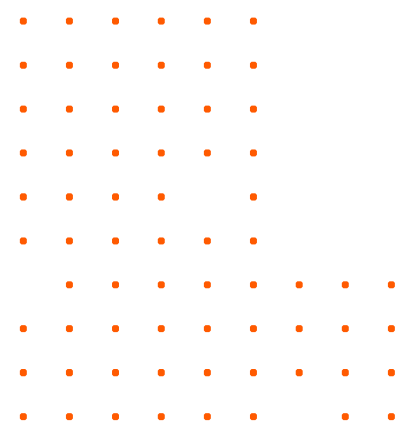


Collaborating partners



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Creating Growth Improving Society

