



2020 ANNUAL REPORT

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A WORD FROM THE CHAIRMAN



Alex Belaustegui
Chairman of TECNALIA

«The team has responded in an extraordinary way, with an unparalleled sense of responsibility, to improve the quality of life of people and contribute to the differentiation of companies when they needed it most»

The world has changed. In the wake of the pandemic that is now, fortunately, coming to an end, technology and innovation have taken on a more important role than ever before for our society. Technology centres have been of vital importance in the development of all types of solutions that the situation required and I can say with complete certainty that TECNALIA has been a protagonist and a part of the solution. Companies need tools to help them survive, to help them adapt, and to help them be competitive. People need quality of life and above all to have hope that it is possible to build a better world. **Researching and creating** these solutions is what we do at TECNALIA every day and what we have been doing relentlessly since the day the pandemic began.

I could not be prouder of what I have seen during these months: excellent professionals who are committed and, most importantly, of an **incredible human quality**. We have been through the most difficult year in recent history, for us and for all those around us. The team has responded in an extraordinary way, with an unparalleled sense of responsibility, **to improve the quality of life of people** and contribute to the differentiation of companies when they needed it most.

As I approach my first year as chairman of TECNALIA, the end of the pandemic is also in sight. We are entering a new phase for us with the launch of a **new Strategic Plan**. Also for Europe, which is starting another cycle, with a new Framework Programme for innovation, and for the world in general, which has to learn to live and build in this new scenario in which we find ourselves.

It is a time of transition and also a time of hope.

Relevant changes have taken place that deserve special attention. We say goodbye to Iñaki San Sebastián, General Manager of the centre for the last 5 years and linked to it for 32 years, with his entire professional career linked to TECNALIA since its origins in Fatronik. We wish Iñaki the best of luck in his new personal and professional path. I have no doubt that we will have in you the best ambassador of TECNALIA wherever your journey takes you.

And we welcome with great enthusiasm and great expectations Jesús Valero, our previous Deputy Director General of Technology as the new Managing Director. He has a 27-year career at TECNALIA, where he also joined as a scholarship holder. The Board of Trustees has placed its full trust in Jesús to lead the new Strategic Plan and to convert

TECNALIA into an even better organisation than it already is, enabling it to continue to be a key player in the technical-industrial transformation of our country. The Management Plan of 2021, once again a complex year, should be nothing but a prelude and springboard for the new **Strategic Plan 2024** that will be submitted for approval to the Board of Trustees next September.

TECNALIA, having worked on becoming a useful tool for the business fabric network during the previous Strategic Plan and having managed to significantly increase its collaboration with the industry must take the next step. We want to be the benchmark in research and technology for all the players in the area, the driving force behind projects, solutions and innovations for the market. The new Strategic Plan will prioritise **technological excellence in order to be an actor that boosts business R&D and Innovation**; to create a sustainable model in the face of future challenges and commitment to the environment; **to be a driver of talent**; and **to commit to collaboration and strategic alliances** in order to promote an enriched and productive innovation ecosystem.

We will also strengthen our **positioning in Europe**, to operate in global markets that enable us to generate local impact. The European Union faces the launching on of a new innovation Framework Programme, which coincides with the effort of reconstructing the markets through the Next Generation funds. These funds must be used for the techno-industrial recovery of old Europe and for the generation of high added-value applications that can be sustained over time, contributing to repairing the economic and social damage caused by the pandemic while rebuilding a more technologically and industrially competitive Europe as a guarantee for the future.

The results of the last Framework Programme support us and give us the strength to continue working with even more enthusiasm. We are the **first private Spanish organisation in the contracting, participation and leadership of projects in the HORIZON 2020 programme**. We have broken records, ranking 13th among the world's leading research organisations despite being by far the smallest in the top 50. Our potential is huge. Let's make the most of it.

We face incredible challenges, many of them unknown, but I have no doubt that we will overcome them. I am proud to be part of this great team.

A WORD FROM THE MANAGING DIRECTOR



Jesús Valero
Managing Director of TECNALIA

«Our commitment has meant that what was set to be one of our most challenging years has instead strengthened us at all levels, including in business and results»

A WORD FROM THE MANAGING DIRECTOR

The uncertainty we have experienced over the last year has gradually given way to a new reality. COVID has changed the world as we know it and continues to do so today. However, we face a future for which we are increasingly more prepared, with optimism and with much, much enthusiasm.

Our role during this time has been, once again, **to collaborate with companies and improve people's quality of life**. We have been proactive in **using our technological capabilities in the fight against the pandemic**, but we have been very clear about where we needed to focus in order to be truly efficient and useful. Helping companies with their needs and challenges. Opportunities arise from change, and the companies around us have had to respond to new demands. They have needed a technological ally, and that is where we have been and will continue to be.

The new reality requires new ways of thinking and relating to each other, and that is innovation: doing things differently to obtain better results. **We must be innovative to adapt and succeed in the new normal**. And that is the aim of the major innovation and reconstruction efforts that are being launched by the European Union through the recovery funds. These funds will make it possible to create a new industry in Europe, one that is stronger, more innovative and aligned with the great challenges facing humanity, through strategic projects that generate industrial fabric and new innovative industrial sectors. Europe wants to update itself technologically and industrially.

One of the consequences of COVID has been the need to adapt and, especially, to do so quickly. This is what we have experienced with the **digital transformation**, a process that had already begun years ago, and which, in just a few months, the need has become a reality. Therefore, this crisis has shown us that the transformations, from now on, must be faster. Our job as a technology centre is to be able to **keep ahead of these changes** and incorporate them into our environment quickly.

This speed of change is leading to the emergence of new trends, mainly due to **artificial intelligence**, which allows us to integrate business keys from large volumes of data. We cannot lose sight of new concepts that will be key in the

near future. **Quantum computing**, for example, is becoming an increasingly promising area for solving problems in different sectors, where previously it was not possible due to time or processing power. Quantum software engineering must be developed as a new discipline, both at academic and industrial level, and we must position ourselves as a benchmark in this new trend and in many others to come.

TECNALIA, by its very nature, was created to provide answers to the great challenges of humanity and beyond COVID, we are currently facing other **challenges, such as digital transformation, advanced manufacturing, energy transition, sustainable mobility, the urban ecosystem and health**.

This commitment has meant that what was set to be one of our most challenging years has instead strengthened us at all levels, including in business and results. We are proud to work with all the major Basque groups, as well as with all the innovative SMEs in the Basque Country, but we still have a long way to go and our challenge is to take innovation to every corner of the country's industrial fabric.

To achieve this we have the best of teams, because our future depends on people, and the extraordinary way in which each and every one of the organisation's professionals has responded and the commitment they have shown during this crisis is something to be very proud of. For them, we must build the best TECNALIA, the best place in which to grow and develop as professionals, and give them the opportunity to feel as proud of the centre as we are of them. And we must also be able to be the place where professionals want to go, to be able to **attract talent to the Basque Country** and retain it, through innovative and enriching proposals that help us to have a **sustainable future**. Because TECNALIA is nothing without the people that make it up. The future is in your hands.

PRESENTATION

TECNALIA

We are a leading Research and Technological Development Centre in Europe. We are an organisation committed to a **mission** that unites us: **transforming technology into GDP**; and a **vision** that makes us different: **being agents of industrial transformation**.

OUR PEOPLE

Our team is our greatest asset.

TECNALIA's best asset is our team, made up of 1,472 experts who work to transform technology into GDP in order to improve people's quality of life by generating business opportunities for companies.

Experts from 31 different countries are spread across 20 offices. They are responsible for visualising, identifying and developing comprehensive technological solutions with creativity and imagination, **offering personalised and multi-disciplinary attention** to each one of the companies we work with.

44%
Women

56%
Men

1,472 experts

267 PhDs

31 nationalities

20 locations

COLLABORATION WITH COMPANIES

Trust, collaboration and technological strategy to boost the competitiveness of businesses.



We want to accompany companies with our R&D and innovation potential and advanced services, while our **technological excellence** is acknowledged and the value of our alliance forging capacity is recognised.

We are committed to maintaining a business relationship model which is increasingly strategic and based on trust, collaboration and a shared technological strategy to achieve the highest value-adding proposal to boost their **competitiveness**.

Since 2011, we have collaborated with over 7,800 companies, 75% of which are SMEs. We work with two out of three Basque companies involved in R&D and innovation activities. Likewise, we collaborate with 25 of the IBEX 35 companies.

7,800 companies
75% of which are SMEs

2 in 3 Basque companies
involved in R&D and innovation activities

25 companies
included in the IBEX 35 index

GOVERNING BODIES

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Juan Ignacio Sanz

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KUTXABANK, S.A.
Fernando Irigoyen

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BOARD OF TRUSTEES

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José Esmorís

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EPTISA Cinsa INGENIERÍA
Y CALIDAD, S.A.

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FAGOR EDERLAN, S.COOP.

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Koldo Arandia

IBERDROLA, S.A.

Izaskun Rica

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Rafael Sterling

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Jesús Navas

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Pedro Sainz

ZIV APLICACIONES
Y TECNOLOGÍA, S.L.

Covadonga Coca

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GENERAL DEL ESTADO

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PROVINCIAL COUNCIL OF ÁLAVA

Javier Hernando

PROVINCIAL COUNCIL OF BIZKAIA

Joseba Mariezkurrena

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Jon Gurrutxaga

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EUSKAL HERRIKO UNIBERTSITATEA

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AYUNTAMIENTO DE DONOSTIA

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Eneko Goia

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Igor Salazar

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José Miguel Ayerza

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Pascal Gómez**FREELY APPOINTED TRUSTEES**

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DEL CONOCIMIENTO)**Miguel Ángel Morell****Manuel Salaverria**

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ALSA	GESTAMP	SIEMENS GAMESA RENEWABLE ENERGY INNOVATION AND TECHNOLOGY, S.L.
AMURRIO FERROCARRIL Y EQUIPOS, S.A.	GRUPO AERNNOVA	TALGO
ARCELORMITTAL INNOVACIÓN, INVESTIGACIÓN E INVERSIÓN, S.L.	GRUPO GORLAN	TECMAN, SERVICIOS DE VALOR AÑADIDO, S.L.
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BATZ, S.COOP.	GRUPO TAMOIN, S.A.	TUBACEX, S.A.
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CIE AUTOMOTIVE, S.A.	IBERMÁTICA, S.A.	VIUDA DE SAINZ, S.A.
CONSTRUCCIONES Y AUXILIAR DE FERROCARRILES, S.A. (CAF)	INGETEM, S.A.	ZIV APLICACIONES Y TECNOLOGÍA, S.L.
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	REGAL BELOIT SPAIN, S.A.	
	SAPA PLACENCIA, S.L.	

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IBERMÁTICA, S.A.

SECRETARY

Fernando Irigoyen
KUTXABANK, S.A.

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CIE AUTOMOTIVE, S.A.

María José Armendáriz
GESTAMP AUTOMOCIÓN, S.A.

Izaskun Rica
IBERDROLA, S.A.

Garikoitz Telleria
IRIZAR, S.COOP.

Joaquim Coello
PETRÓLEOS DEL NORTE, S.A. (PETRONOR)

Alejandro Ormazabal
VELATIA, S.L.

D. Alberto Fernández
BASQUE GOVERNMENT

Manuel Salaverria

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VOCALES

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BASQUE GOVERNMENT

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Xabier Iturbe
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Ivan Martín
Manuel Salaverria

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SOCIEDAD FINANCIERA Y MINERA, S.A.-FYM- CEMENTOS REZOLA

ICT

José Ignacio del Río
IBERMÁTICA, S.A.

INDUSTRIA Y TRANSPORTE

Imanol Iturrioz
CONSTRUCCIONES Y AUXILIAR DE FERROCARRILES, S.A. (CAF)

ENERGÍA Y MEDIO AMBIENTE

Izaskun Rica
IBERDROLA, S.A.

LAB_SERVICES

Jesús Navas
VICINAY, S.A.

SALUD

Nicolás Guerra
GRUPO IGUALMEQUISA, S.A.

SUPERVISORY BOARD

CHAIRMAN

Ander Ramos Murguialday

SECRETARY

Yolanda de Miguel

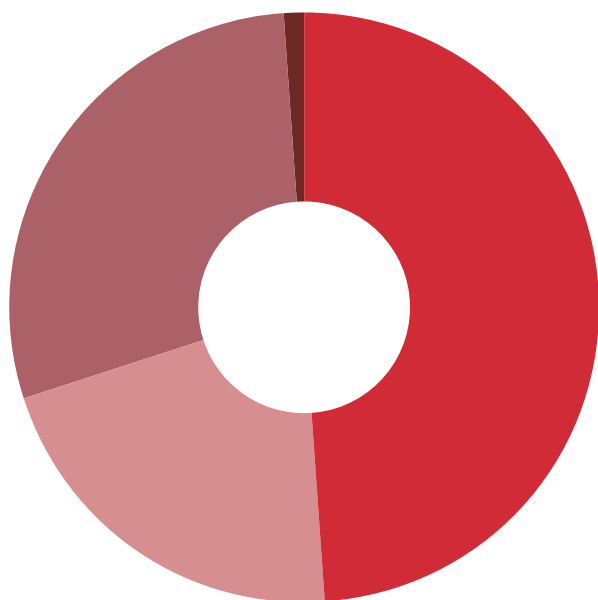
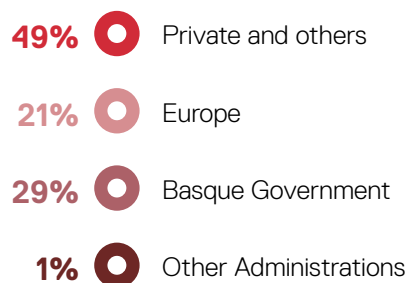
Aitor Álvarez-Gila
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Jesús López Lobo

Patricia Molina Costa
Andrea Sarasola Sanz
Ana Isabel Torre Bastida
Alex Belaustegi Foronda
INGETEAM

FINANCIAL INFORMATION

2020 INCOME PER SOURCE OF FUNDING



Figures on 31 December 2020

2020 INCOME

Item	€K
Non-competitive Public Funding	25,163
Competitive Public Funding	33,506
Private Financing	52,603
Others	2,336
Total Income	113,608

BALANCE SHEET

Assets	€K
Non-current Assets	93,996
Current Assets	153,668
Total Assets	247,664

Equity & Liabilities	€K
Equity	98,547
Non-current Liabilities	99,353
Current Liabilities	49,764
Total Equity & Liabilities	247,664

€K = Thousands of euros

The data shown here has been extracted from the Annual Financial Report, audited by KPMG.

AUDITOR'S LETTER



KPMG KPMG Auditores, S.L.
Avda. de la Libertad, 17
2ª planta
20004 San Sebastián

Informe de Auditoría de Cuentas Anuales emitido por un Auditor Independiente

Al Patronato de Fundación Tecnalia Research & Innovation por encargo de su Comisión Ejecutiva

Opinión

Hemos auditado las cuentas anuales de Fundación Tecnalia Research & Innovation (la Fundación), que comprenden el balance a 31 de diciembre de 2020, la cuenta de resultados y la memoria correspondientes al ejercicio terminado en dicha fecha.

En nuestra opinión, las cuentas anuales expresan, en todos los aspectos significativos, la imagen fiel del patrimonio y de la situación financiera de la Fundación a 31 de diciembre de 2020 así como de sus excedentes correspondientes al ejercicio terminado en dicha fecha, de conformidad con el marco normativo de información financiera que resulta de aplicación (que se identifica en la nota 2 a de la memoria) y, en particular, con los principios y criterios contables contenidos en el mismo.

Fundamento de la opinión

Hemos llevado a cabo nuestra auditoría de conformidad con la normativa reguladora de la actividad de auditoría de cuentas vigente en España. Nuestras responsabilidades de acuerdo con dichas normas se describen más adelante en la sección *Responsabilidades del auditor en relación con la auditoría de las cuentas anuales* de nuestro informe.

Somos independientes de la Fundación de conformidad con los requerimientos de ética, incluidos los de independencia, que son aplicables a nuestra auditoría de las cuentas anuales en España según lo exigido por la normativa reguladora de la actividad de auditoría de cuentas. En este sentido, no hemos prestado servicios distintos a los de la auditoría de cuentas ni han concurrido situaciones o circunstancias que, de acuerdo con lo establecido en la citada normativa reguladora, hayan afectado a la necesaria independencia de modo que se haya visto comprometida.

La firma electrónica del documento integrado por las cuentas anuales de Fundación Tecnalia Research & Innovation (la Fundación) correspondientes al ejercicio terminado en 31 de diciembre de 2020 formulada por la Comisión Ejecutiva el 25 de marzo de 2021 junto con nuestro informe de auditoría sobre las mencionadas cuentas anuales, se emite a solicitud del Registro de Fundaciones del País Vasco únicamente como justificación y autenticación de la integridad y contenido del mismo, así como de la identidad del firmante. En este sentido, la fecha del informe de auditoría, entendido a todos los efectos, y en especial a los de la aplicación de la normativa de auditoría de cuentas vigente en España, es la que figura bajo la firma manuscrita del auditor de cuentas responsable que ha realizado el trabajo. En ningún caso puede entenderse que la mencionada firma electrónica sustituye a la citada firma manuscrita o forma parte integrante de la formulación de las cuentas anuales, que es responsabilidad única del Comité Ejecutivo.

KPMG Auditores, S.L., es el responsable de las responsabilidades descritas. Toda información y sugerencias para el Cliente de forma gratuita, independiente de la hora y día, puede obtenerse en el teléfono de atención al cliente. Para más información, consulte el sitio web de KPMG Auditores, S.L. en www.kpmg.es.

Inscrito en el Registro Central de Fundaciones del Ministerio de Justicia nº 20702, en el Registro de Fundaciones del País Vasco nº 2004, inscrita en el Registro de Comercio nº 10702, en el I.C.T.A. nº 107020000, P.IVA nº 107020000.



Entre los riesgos significativos que han sido objeto de comunicación a la comisión de auditoría de Fundación Tecnalia Research & Innovation, determinamos los que han sido de la mayor significatividad en la auditoría de las cuentas anuales del periodo actual y que son, en consecuencia, los riesgos considerados más significativos.

Describimos esos riesgos en nuestro informe de auditoría salvo que las disposiciones legales o reglamentarias prohiban revelar públicamente la cuestión.

KPMG Auditores, S.L.
Inscrito en el R.O.A.C nº 50702

[Firma manuscrita]
Olga Marras

Inscrito en el R.O.A.C nº 23131
14 de abril de 2021



[Firma manuscrita]
Olga Marras Sáiz
26042021

La firma electrónica del documento integrado por las cuentas anuales de Fundación Tecnalia Research & Innovation (la Fundación) correspondientes al ejercicio terminado en 31 de diciembre de 2020 formulada por la Comisión Ejecutiva el 25 de marzo de 2021 junto con nuestro informe de auditoría sobre las mencionadas cuentas anuales, se emite a solicitud del Registro de Fundaciones del País Vasco únicamente como justificación y autenticación de la integridad y contenido del mismo, así como de la identidad del firmante. En este sentido, la fecha del informe de auditoría, entendido a todos los efectos, y en especial a los de la aplicación de la normativa de auditoría de cuentas vigente en España, es la que figura bajo la firma manuscrita del auditor de cuentas responsable que ha realizado el trabajo. En ningún caso puede entenderse que la mencionada firma electrónica sustituye a la citada firma manuscrita o forma parte integrante de la formulación de las cuentas anuales, que es responsabilidad única del Comité Ejecutivo.

IMPACT OF THE ACTIVITY

IMPACT DATA

In 2020 we at TECNALIA reached the end of a strategic cycle with the aim of maximising the impact of our R&D and Innovation aligned with our mission: ‘Transforming technology into GDP’.

During this cycle we have been able to observe, thanks to our own methodology and tool, the **increased positive impact** of our activity on different scopes, such as economic, scientific-technological, social or environmental.

This has enabled us, on the one hand, to make an assessment of the degree of compliance of our mission and vision during this strategic cycle, assisting in the setting and achievement of the strategic objectives **and, on the other hand, to confirm with data our conviction that there is a clear relationship between competitiveness, growth, employment and social welfare, with the systematic and growing commitment to R&D and Innovation.**

In 2020, in spite of the difficulty represented by the COVID crisis, we have managed to **improve all impact indicators** and thus continued to increase our impact during this strategic cycle.

Some of the results obtained regarding the measurement of the impact of our activity in 2020 and its evolution compared to 2017, are as follows:

For **every Euro** invested by a company in R&D with TECNALIA, **an income of €10.30** is added to its Income Statement, compared to €6 in 2017.



For **every job** in TECNALIA, **5 other jobs** are kept in the Basque Country, increasing the value by 40% compared to 2017.



For **every Euro** invested in TECNALIA by Basque Public Institutions, **GDP of €16.20** is generated, compared to €14 in 2017.



For **every Euro** that Basque Public Institutions invest in TECNALIA, **a tax return of €1.90** is obtained, an increase of almost 10% compared to the return obtained in 2017.





TECNALIA calculates its Carbon Footprint (CF) according to the principles of the standard UNE-ISO 14064-1: 2012 since 2012 to **know the environmental impact of its direct and indirect activities** with the aim of implementing improvement actions to reduce it, which have focused on **energy efficiency and sustainable mobility**. In 2019, more indirect activities were taken into account to calculate the Organisational Environmental Footprint (OEF) with its own tool, thus updating the CF. In 2020, the calculation of TECNALIA's OEF and CF for the 2019 financial year was externally verified.

The data for the last two financial years, 6501 total GHG (t CO₂ e) and 3315 (tCO₂) respectively, **show that the reduction in impact has been due to the reduction in energy consumption and travel due to the pandemic**. The energy efficiency of buildings and sustainable mobility are therefore maintained as lines of action in the 2024 strategic period.

ACUSTRAIN

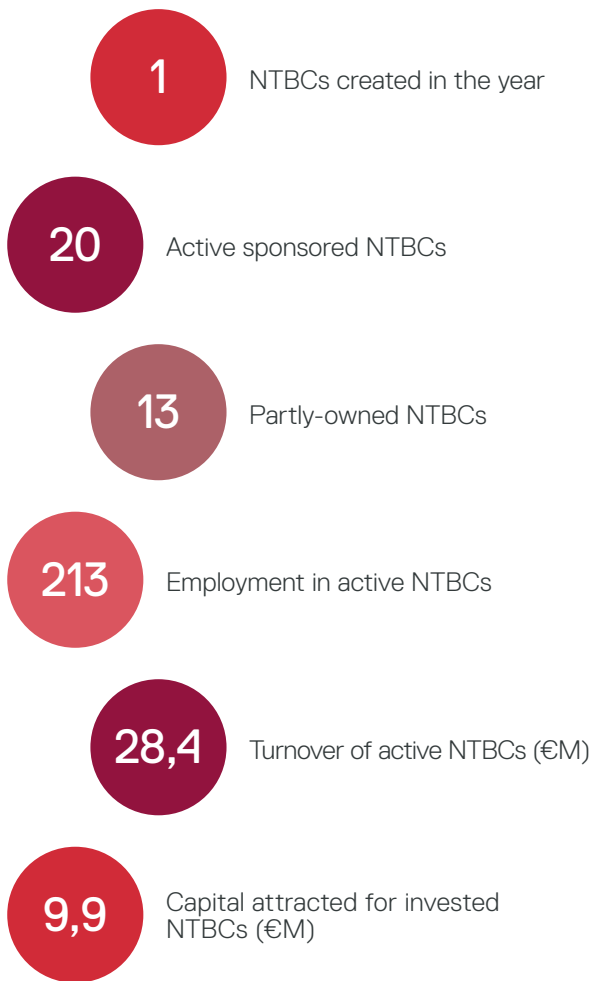
The new company located in Bizkaia was founded in 2020 as a result of the collaboration between TECNALIA and BECSA. Its aim is to manufacture and install low-level modular systems, based on concrete and absorbent materials, to provide acoustic shielding against rolling noise from railways in urban environments.



Furthermore, at TECNALIA, we have developed an entrepreneurship ecosystem which helps us recover and launch our technological assets through our *Deep Tech Venture Builder*, **TECNALIA Ventures**, with the ultimate aim of generating value for businesses and society. Our efforts are focused on connecting the three main pillars of any innovation ecosystem: “Minds” (technologists/scientists), “Management” (entrepreneurs) and “Money” (investors).

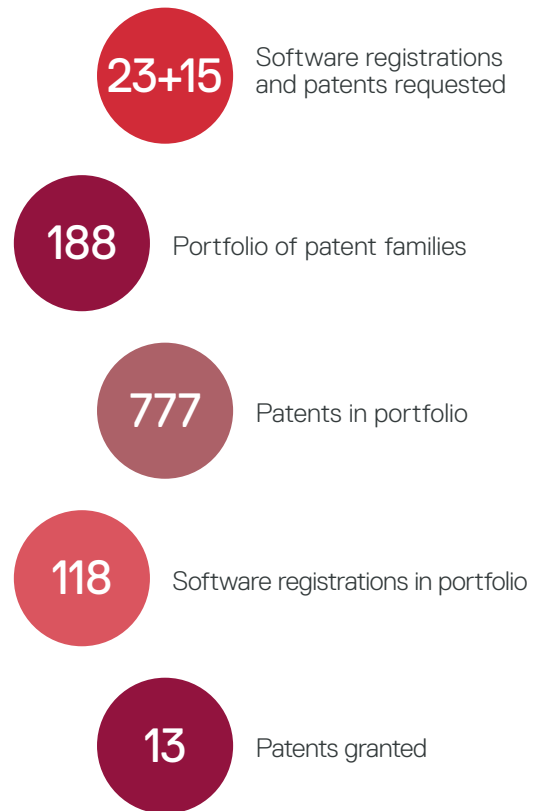
As a result of this, TECNALIA obtained income of €4.4 million in 2020 from the Sale of Industrial Property.

NTBCS IN FIGURES



PATENTS IN FIGURES

Moreover, according to the 2020 Report issued by the European Patent Office (EPO), TECNALIA is the third private Spanish organisation in European patent applications. TECNALIA has applied for 2.5 patents for every 100 researchers, which is the highest ratio, compared to other organisations of a similar nature.



EUROPEAN BENCHMARK

1st in Spain

We are the first private organisation in Spain in project contracting, participation and leadership under the EU Horizon.2020 Programme.

13th in Europe

We are ranked No. 13 out of 2,900 research European Organisations.

SOURCE: CORDIS Figures on December 2020

**OUR PARTICIPATION
IN HORIZON 2020**

524

Spanish collaborating companies

451

Projects contracted*

178

Contracts (m€)

68

Projects led

* Including EIT projects

Figures on 31 December 2020



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.

- 1 **18 ETP**
EUROPEAN TECHNOLOGY PLATFORMS
Manufacture, EuMAT, SmartGrids
- 2 **12 PPP**
PUBLIC PRIVATE PARTNERSHIPS
Factories of the Future (FoF), Green Vehicles (GV), Energy Efficient Buildings (EeB), SPIRE
- 3 **4 JTI**
JOINT TECHNOLOGY INITIATIVES
Clean Sky, Shift2Rail, Hydrogen & Fuel Cell, ECSEL
- 4 **2 EIP**
EUROPEAN INNOVATION PARTNER
RawMaterials & A.H. Ageing
- 5 **6 EIT**
INNOENERGY, KNOWLEDGE INNOVATION COMMUNITIES
Manufacturing, Health, Urban Mobility & Climate-KIC, Raw Materials.
- 6 **1 JPI**
JOINT PROGRAMMING INITIATIVE
Cultural Heritage
- 7 **Over 15 leading Associations**
EARTO, EERA, EFFRA...

**WE HAVE A RELEVANT
PRESENCE IN EIT INNOVATION
COMMUNITIES**

MANUFACTURING

- Core Member
- Chair of Advisory Board CLC West
- TV – Linked 3rd Party (LTP)

HEALTH

- Associated Member
- Member of the Innovation Hub Spain Board
- TV – Linked 3rd Party (LTP)

INNOENERGY

- Associated Partner
- Board of Director

URBAN MOBILITY

- Core Member
- Member of Steering Committee CLC South

CLIMATE-KIC

- Community Member

RAWMATERIALS

- Core Partner
- Steering Committee Innovation Hub South
- TV – Linked 3rd Party (LTP)



TECHNOLOGICAL SPECIALISATION

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

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).

Indexed scientific publications:

328

Q1 scientific publications:

146

PhD dissertations:

17

Number PhDs:

257

H5-index:

36

Co-tutored doctoral theses:

111

Indexed joint scientific publications:

165

TRANSVERSAL TECHNOLOGIES

- Automation, robotics and mechatronic control
- Cybersecurity and blockchain
- Computer vision and visual interaction
- Surface engineering
- Artificial intelligence and big data
- Metals: Sustainable metal materials, processes and products
- Nanomaterials
- Polymers, composites and bio-based materials
- Embedded electronic systems, power and control electronics
- Software technologies



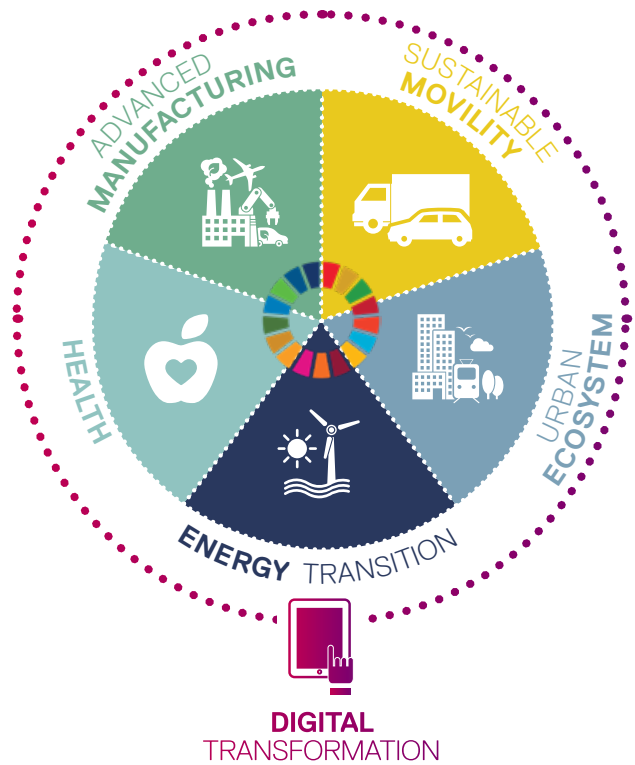
SPECIALISED TECHNOLOGIES

- Adaptation to climate change
- Molecular biology
- Biosynthesis and fermentation
- Structural calculation and fluid-structure interaction
- Air and acoustic quality
- Life cycle and eco-design
- In-service performance
- Dependability
- Dynamics of offshore systems
- Urban design
- Design and simulation
- Biological assessment
- Extraction and encapsulation
- Physics of the building
- Dosage
- 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

SCOPES OF ACTION

Our scopes of action are aligned with the Sustainable Development Goals (SDG).

We listen to our business clients and understand the challenges faced by society from our genuine technological perspective. Then, we develop our core value proposal projecting the most relevant opportunities and those most appropriate for our strengths in each of our priority scopes of action.



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.

ENERGY TRANSITION

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

SUSTAINABLE MOBILITY

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

We design and develop technologies and new business models that contribute to the shift towards the mobility of the future: **low environmental impact, 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.

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. We do this by **being committed to smart, flexible and sustainable manufacturing processes, through digitalisation, automation and eco-efficiency** as our drivers for change transforming materials and manufacturing processes.

ADVANCED MANUFACTURING

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

HEALTH

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

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

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.

URBAN ECOSYSTEM

- Smart eco-materials
- Smart buildings
- Building and city energy
- Resilience and climate change
- Urban and territorial transformation
- Healthy city
- Urban mobility
- Smart infrastructures
- Circular economy

DIGITAL TRANSFORMATION

- Artificial Intelligence
 - Robotics and cognitive systems
- Advanced systems for interaction and worker 4.0
 - High-performance computing for Big Data
 - Life-cycle systems and developments
 - Cybersecurity and trust
 - Internet of Things (IoT)
 - Sensors and actuators
 - Computer vision
 - Smart maintenance

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; and we develop a unique proposal in data economy for product manufacturers and integrators based on cybersecurity, blockchain and artificial intelligence.

2020 MILESTONES



TOGETHER WITH CTAG, WE HAVE PARTICIPATED IN THE MOBILITY CITY INITIATIVE PROMOTED BY FUNDACIÓN IBERCAJA



TECNALIA IS WORKING WITH BILBAO CITY COUNCIL IN THE DEVELOPMENT OF 4.0 ELECTRIC VEHICLES TO PROMOTE SMOKE-FREE CITIES



TECNALIA HAS RECEIVED A EUROPEAN AWARD FOR AN INNOVATIVE SYSTEM THAT CONNECTS THE BRAIN, THE MUSCLES AND MOVEMENT IN PARALYSED PATIENTS



WE HAVE JOINED IMH TO DEVELOP NEW ADDITIVE MANUFACTURING TECHNOLOGIES



WE HAVE LAUNCHED OUR NEW TECNALIA WEBSITE



THE CITY OF MALAGA HAS THE FIRST SELF-DRIVING VEHICLE LINKING THE CRUISE TERMINAL TO THE CITY CENTRE



INGREDALIA FINALISED THE INDUSTRIALISATION PROCESS AND WAS RECOGNISED AS THE 2ND BEST NEW COMPANY AT THE EXPANSIÓN STARTUP 2020 AWARDS



TOGETHER WITH IBERMATICA WE HAVE LAUNCHED THE FIRST CONTACT TRACING SYSTEM ENSURING PRIVACY PROTECTION



WE HAVE PARTICIPATED, ALONG WITH AVS, IN THE COMMISSIONING OF THE ITER EXPERIMENTAL FUSION REACTOR



TECNALIA HAS LAUNCHED A PROGRAM OF RESEARCHERS WITH DUAL AFFILIATION TOGETHER WITH THE UPV/EHU



WE HAVE TESTED THE ELECTRICAL QUANTITATIVE SENSORY TESTING (EQST) SYSTEM FOR FAILED BACK SURGERY SYNDROME



MYTECNALIA: TECNALIA HAS LAUNCHED AN ON-LINE MANAGEMENT AND COMMUNICATION PLATFORM SO THAT CUSTOMERS CAN ACCESS THEIR R&D TESTS AND INFRASTRUCTURES



WE HAVE REDUCED THE RISKS ON WORK SITES USING CABLE ROBOTICS



IN 2023, WE WILL LAUNCH THE FIRST SMART MOTIOWAY IN BIZKAIA, WITH THE PROVINCIAL COUNCIL OF BIZKAIA



WE HAVE ENTERED INTO A STRATEGIC AGREEMENT WITH THE NATIONAL HYDROGEN AND FUEL CELL TECHNOLOGY TESTING CENTRE (CNH₂)



WE HAVE PARTICIPATED IN THE JOINT DEVELOPMENT OF A PROJECT FOR THE DIGITAL TRANSFORMATION OF PORT CRANES WITH ZEUKO



EKAIN FERNÁNDEZ WAS APPOINTED THE NEW COORDINATOR OF THE HYDROGEN DISTRIBUTION COMMITTEE AT THE PRESTIGIOUS HYDROGEN EUROPE RESEARCH



WE HAVE DEVELOPED A TACTILE BIOFEEDBACK SYSTEM TO MONITOR THE HEALTH OF EMERGENCY STAFF



FESIA HAD A TURNOVER IN EXCESS OF €300K, A SALES NETWORK PRESENT IN 12 COUNTRIES AND A TEAM OF 7 PEOPLE



WE HAVE OPENED A BRAND NEW HIGH VOLTAGE CABLE TESTING LABORATORY



WE RECEIVED THE “DIGITAL TOURIST 2020” AWARD FOR OUR SMART TOURISM PROJECT WITH THE PROVINCIAL COUNCIL OF GIPUZKOA



TECNALIA HAS CONDUCTED A STUDY TO ANALYSE THE CONSEQUENCES OF CLIMATE CHANGE IN SAN SEBASTIAN



H₂SITE JOINED THE CB INSIGHTS LIST OF MOST PROMISING PRIVATE ARTIFICIAL INTELLIGENCE COMPANIES IN THE WORLD IN THE HYDROGEN SECTOR



TECNALIA RECEIVED THE ANNUAL UNE AWARD FOR THE INTEGRATION OF STANDARDISATION IN INNOVATION IN 2020

GLOBAL PRESENCE



LOCATION

HEADQUARTERS

**PARQUE CIENTÍFICO Y
TECNOLÓGICO DE GIPUZKOA**
Mikeletegi Pasealekua, 2
E-20009 Donostia – San Sebastián
(Gipuzkoa)
T 902 760 000*
Llamadas internacionales:
+34 946 430 850

OTHER LOCATIONS

ARABA/ÁLAVA
**PARQUE TECNOLÓGICO
DE ÁLAVA**
Albert Einstein, 28
Leonardo Da Vinci, 11
E-01510 Vitoria - Gasteiz

BIZKAIA
**PARQUE CIENTÍFICO Y
TECNOLÓGICO DE BIZKAIA**
Astondo Bidea, Edificio 700
E-48160 Derio
Ibaizabal Bidea, Edificio 101
Laida Bidea, Edificio 204
Laida Bidea, Edificio 413
E-48170 Zamudio

CÁDIZ
CENTRO TECNOLÓGICO
Loma de Sancti Petri, s/n.
E-11139 Chiclana de la Frontera

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**PARQUE CIENTÍFICO Y
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E-20730 Azpeitia

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