

**CORPORATE
PRESENTATION**

2024

ideko.es

IDEKO

**MEMBER OF BASQUE RESEARCH
& TECHNOLOGY ALLIANCE**

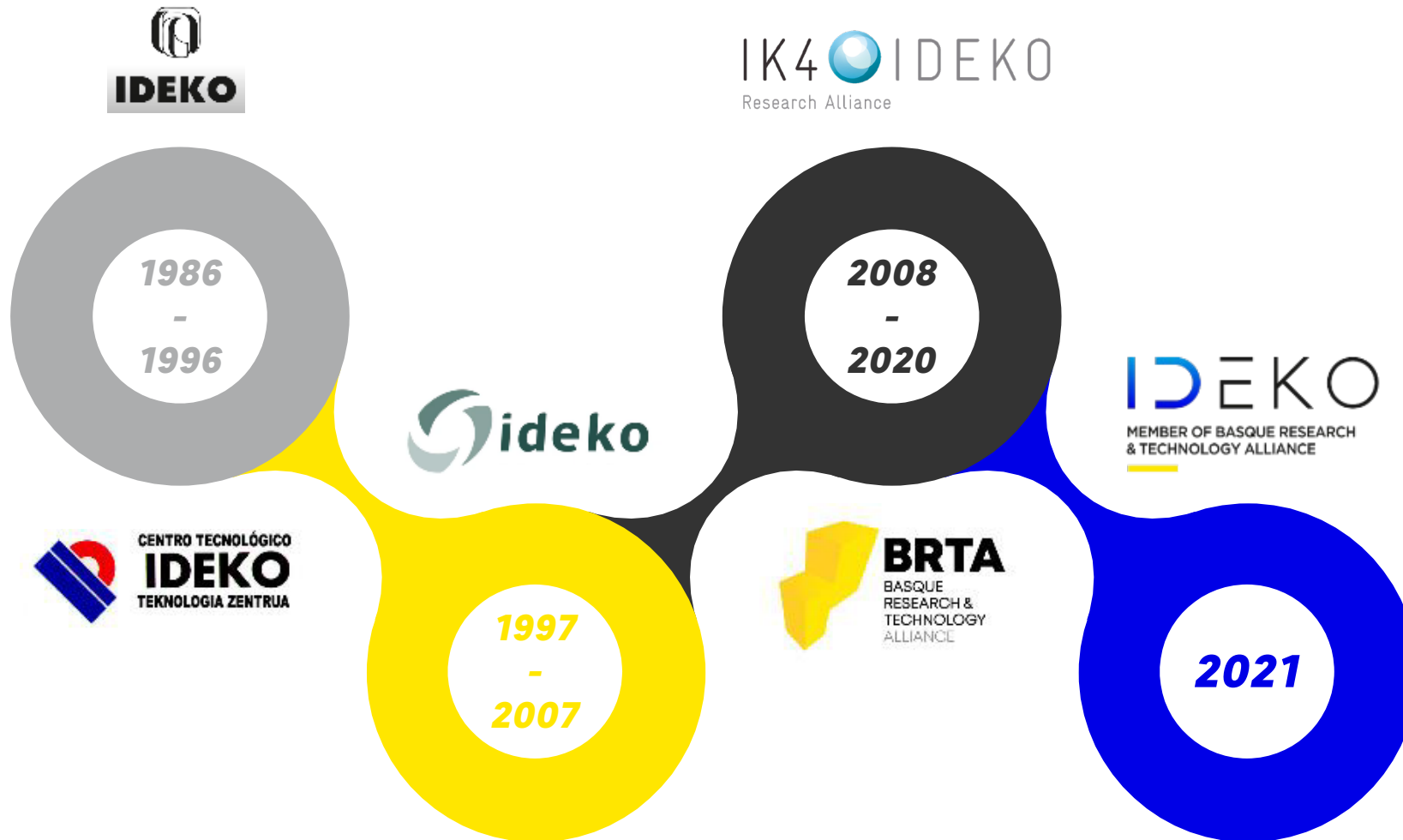


IDEKO is a Research Center member of **BRTA**, specialized in **Advanced Manufacturing**, with special focus on precision machines and processes and Artificial Intelligence in manufacturing.



***WHO
WE ARE***

About Us

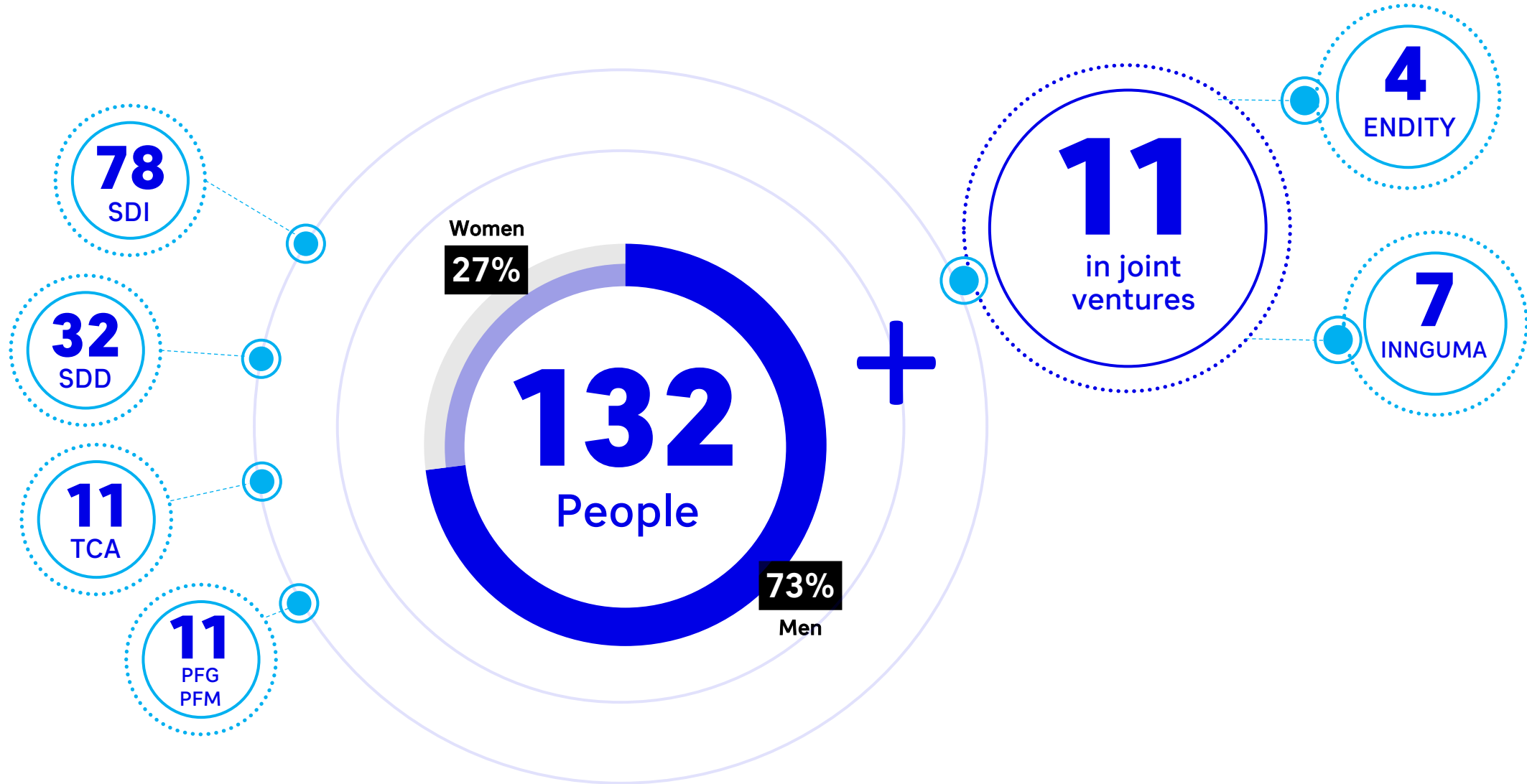




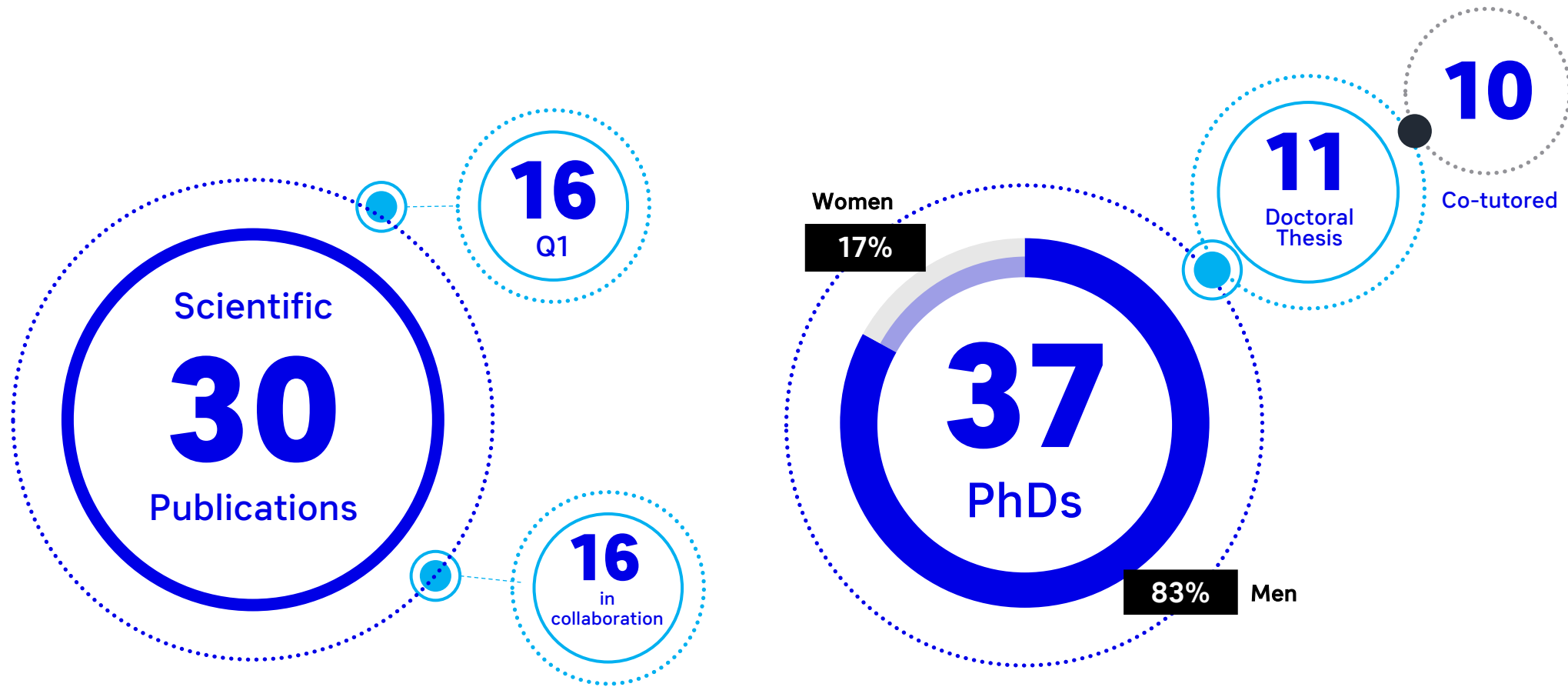
OUR TEAM

Highly qualified people to respond to the current and future needs of our clients in research, development and technology and knowledge transfer.

People in IDEKO 2023



Technological Excellence



R&D ACTIVITY

Our R&D activity is aimed at offering **innovative solutions** that contribute to the competitiveness of the industry.



Incomes 2023



Source of income

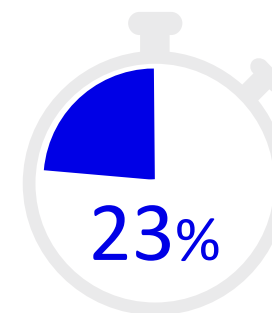
53%

R+D UNDER CONTRACT

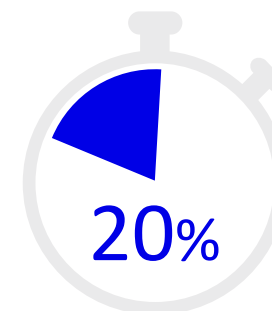


47%

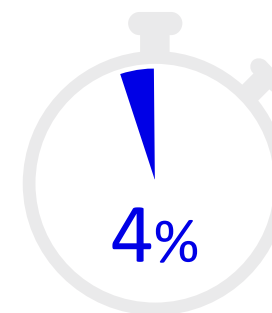
OWN R+D



Basque Government



Europe



Madrid

38

Years

2

Startups

endity 

 **innguma**
intelligence for everyone

>150

Technology Transfer Projects

39

Patents

>30

Years coordinating
European Projects

16

Active EU
projects



***ALLIANCES &
COLABORATIONS***



Alliances & Collaborations

Alliance
Network
+ than 100
R&D agents



Specialization Collaboration



Alliance Members



Kurutuz Gain Industrialdea, 10
20850 Mendara, Gipuzkoa
T. +34 943 05 33 25
info@brta.eus

www.brta.eus

3.906
Researchers

391
PhD / year

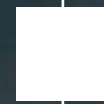
1.551
Scientific
Publications / year

120
Patents / year

337 M€

Total incomes:
60% Public
Administration +
40% Private
Contract

We have **multi-disciplinary team** to generate knowledge, develop solutions and transform them into value on the market. We accompany you **from the first research phases** to the implementation of results in innovations **for the market.**



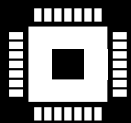
SPECIALIZATION

**DYNAMICS &
CONTROL**



**MANUFACTURING
PROCESSES**

**ICT &
AUTOMATION**



**DESIGN &
PRECISION
ENGINEERING**

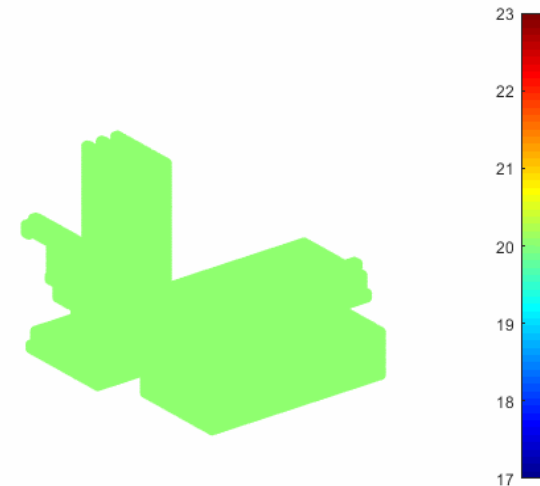


SPECIALIZATION

Design & Precision Engineering

This research group focuses on **high-performance product design and development** such as prototypes, mechanisms, structures, modelling and simulation of components. They develop measurement systems for precision and reliability with photogrammetry, laser, optics or contact sensors technologies.

They also carry out behavioural studies of precision of equipment, mainly in relation to thermal effects and geometrical errors. This task is performed through experimental observation of compensation on the machine, the development of high-dynamics precision systems and calibration equipment.



[MORE INFO](#) 

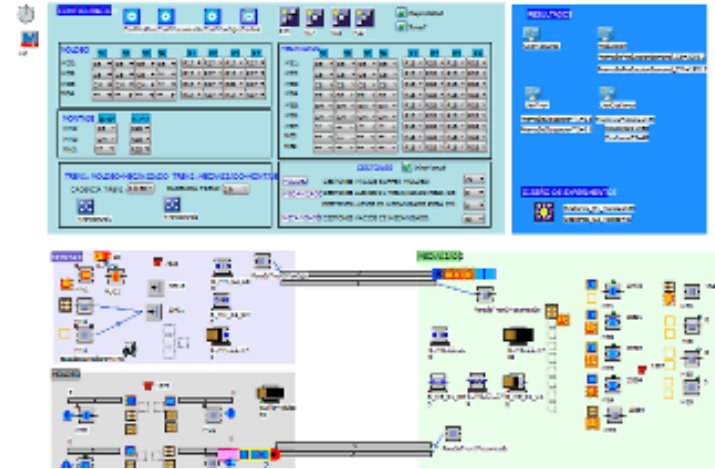
SPECIALIZATION

Manufacturing Processes

In order to **solve existing problems in industrial processes and increase efficiency and productivity of manufacturing processes**, it brings together the development of machining technologies by removal and abrasion, such as turning, grinding, milling, bending, drilling or laser together with the management and organization technologies of Industrial Production, such as simulation programs.

They incorporate **NDT technologies** for the inspection of parts and industrial processes with the aim of adding value and improving industrial production processes and ensuring the quality of the parts.

[MORE INFO](#) 



SPECIALIZATION

Dynamics & Control

It develops technologies for the **characterization, modeling and design** of solutions to improve the **dynamic behavior of machines, mechatronic systems and machining processes.**

It has a recognized prestige in the international field of science and technology of the chatter in machining processes and machine dynamics.

[MORE INFO](#) 

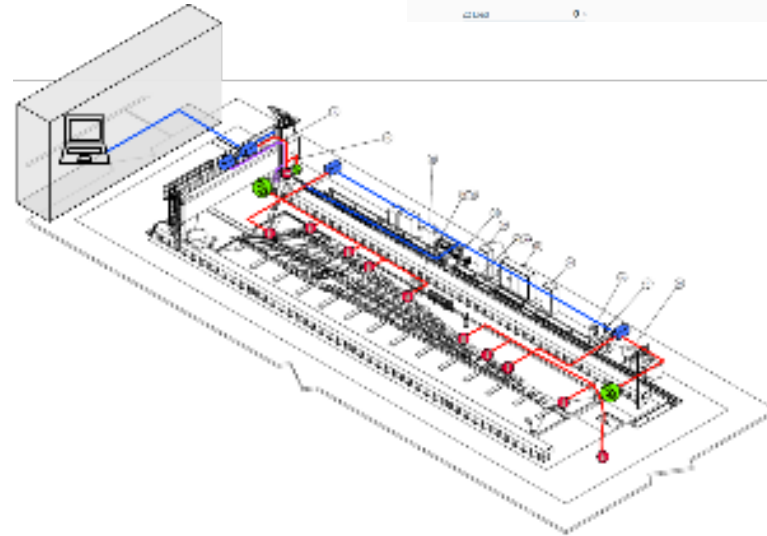
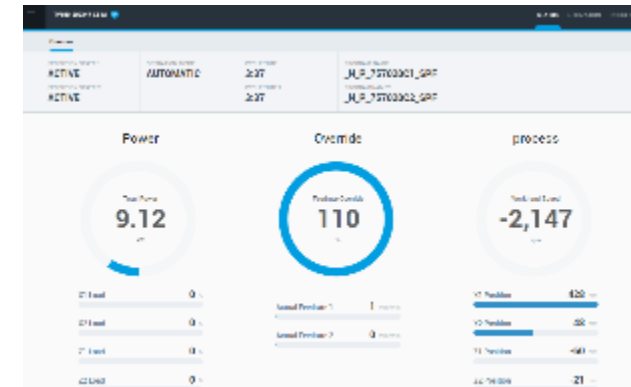


SPECIALIZATION

ICT & Automation

They develop software applications and automation solutions to provide advanced capabilities to **manufacturers of machines and manufacturing lines.**

They research and develop state-of-the-art **ICT solutions** with applicability in advanced manufacturing technologies and industrial production.



[MORE INFO](#) 

6 Specialization Lines

PRECISION MACHINES AND PROCESSES

Development of precision solutions addressing the entire value chain: from the measurement and verification of the quality of the machined part, working on the process and machine technologies.

1

ARTIFICIAL INTELLIGENCE IN MANUFACTURING

Application of AI techniques to obtain data performance on quality.

2

ACTIVE AND SMART COMPONENTS

Development of smart components that provide special functionalities, integrated into the machine or as accessory devices.

3

SIMULATION - DIGITAL TWINS

Development of models that allow designing and optimizing a production process in all its different scales.

4

PROCESS AND APPLICATIONS OF STRATEGIC PARTS

Development of innovative solutions to provide a competitive advantage in special parts offers.

5

ROBOTICS

Collaborative application of robots with machines and operators, to provide them with special capabilities and functionalities and eliminate manual operations.

6

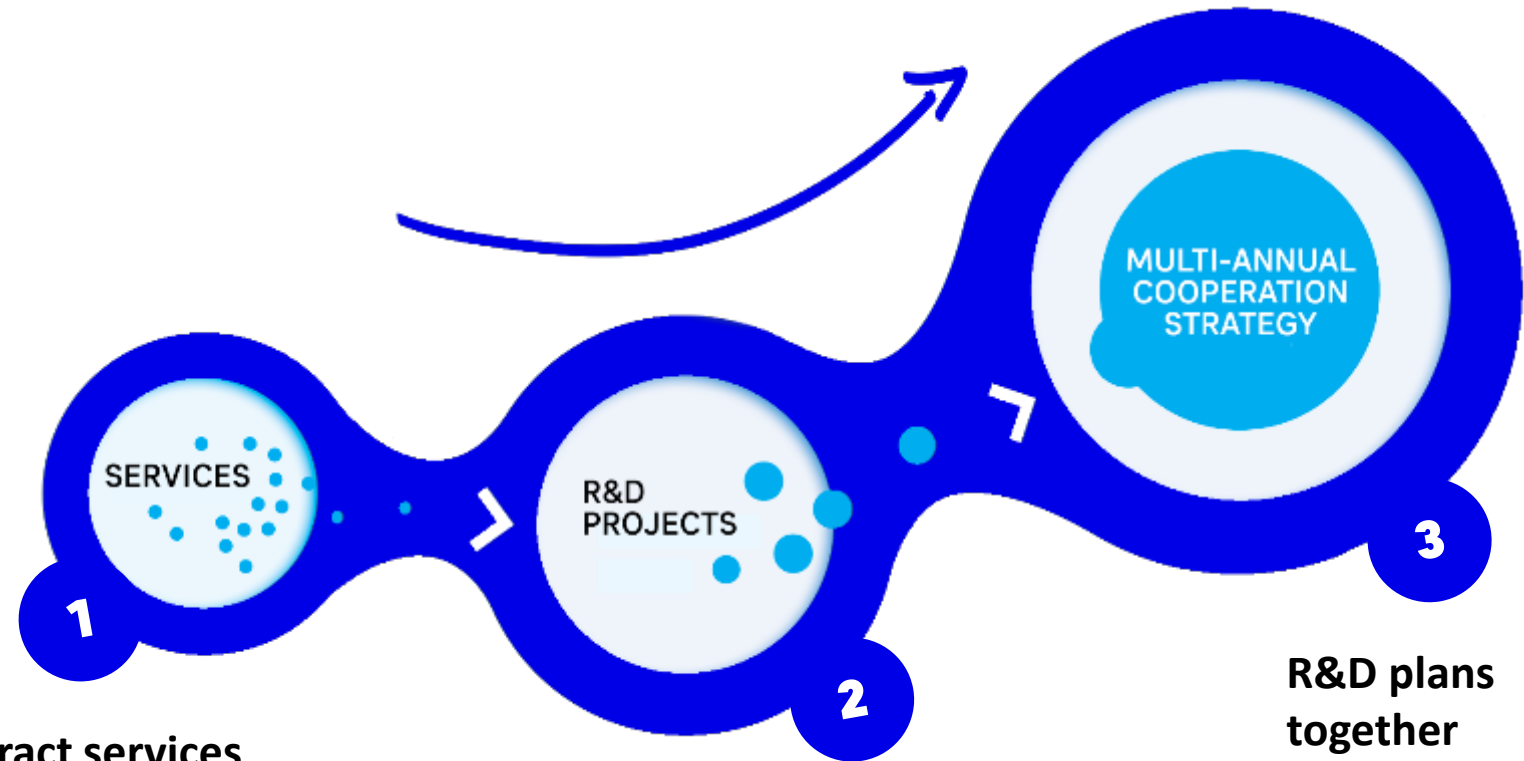


***INNOVATION
MANAGEMENT
MODEL***



Technological Partner

We offer an **integral solution** for the needs of today and the future in advanced manufacturing.



Contract services

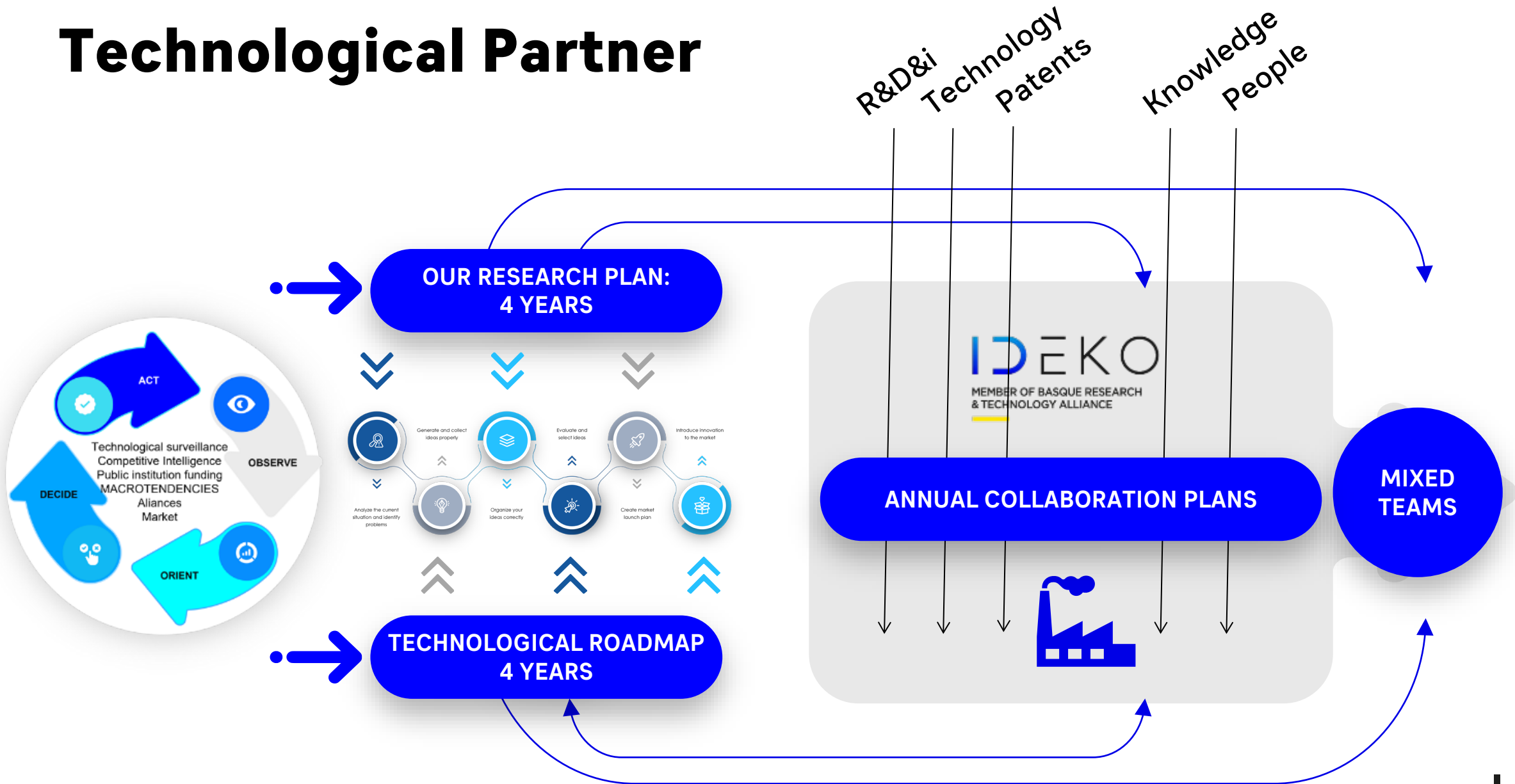
Resolution of vibration problems, modal analysis, FEM calculations and simulations, or the provision of advanced measuring, inspection and verification services.

R&D projects

Knowledge and technology transfer.

R&D plans together

Technological Partner



AERNnova

euskotren

GOIMEK

DANOBAT

DANOBAT OVERBECK

SORALUCE



AIRBUS



ONA

SIKULAN



RONALGROUP

Tenaris



endity

IBERMACH
Special Machinery / Presses



Orona



Loramendi
Total Performance in foundry



ZUBIOLA
DIAMOND TOOLS SOLUTIONS

CAF

eusko MACHINING



sarralle



COMETEL



SAVVY



Alcorta
FORGING GROUP

ETXEPE

Ingeteam



sidenor

UNESA



Gestamp



SIEMENS

ULMA



SIEMENS Gamesa
RENEWABLE ENERGY



FACILITIES



**DIGITAL GRINDING
INNOVATION HUB**



**PRECISION
ENGINEERING LAB.**



**PRECISION
METROLOGY LAB.**



**HIGH
PERFORMANCE
DYNAMICS LAB.**



COMPOSITES LAB.



LASER LAB.



NDT LAB.



ROBOTICS

FACILITIES

Multi-localization



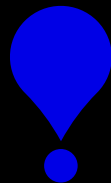
Donostia | Zuatzu Business Park



Zamudio | Technological Park

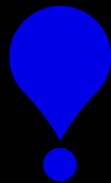
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ZAMUDIO

CFAA
Technological Park of
Zamudio (Bizkaia)

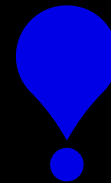


ELGOIBAR

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+34 943 748 000

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DONOSTIA

Zuatzu Business Park
Donostia – San Sebastián
(Gipuzkoa)