CORPORATE PRESENTATION

IDEKO

MEMBER OF BASQUE RESEARCH & TECHNOLOGY ALLIANCE

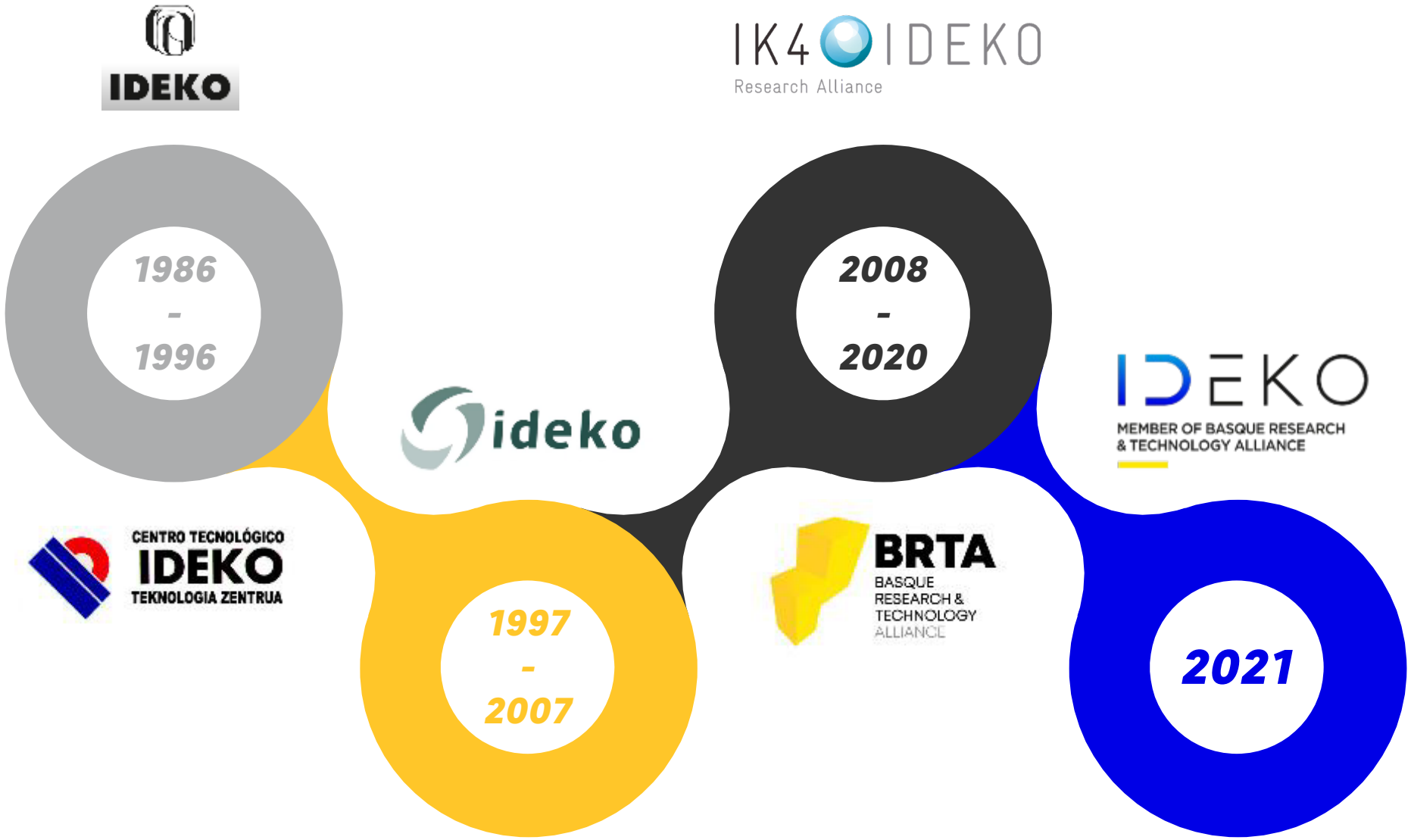
2022

ideko.es

WHO WE ARE

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.

About Us


IDEKO
1986
-
1996
CENTRO TECNOLÓGICO
IDEKO
TEKNOLOGIA ZENTRUA
ideko
1997
-
2007
IK4 IDEKO
Research Alliance
2008
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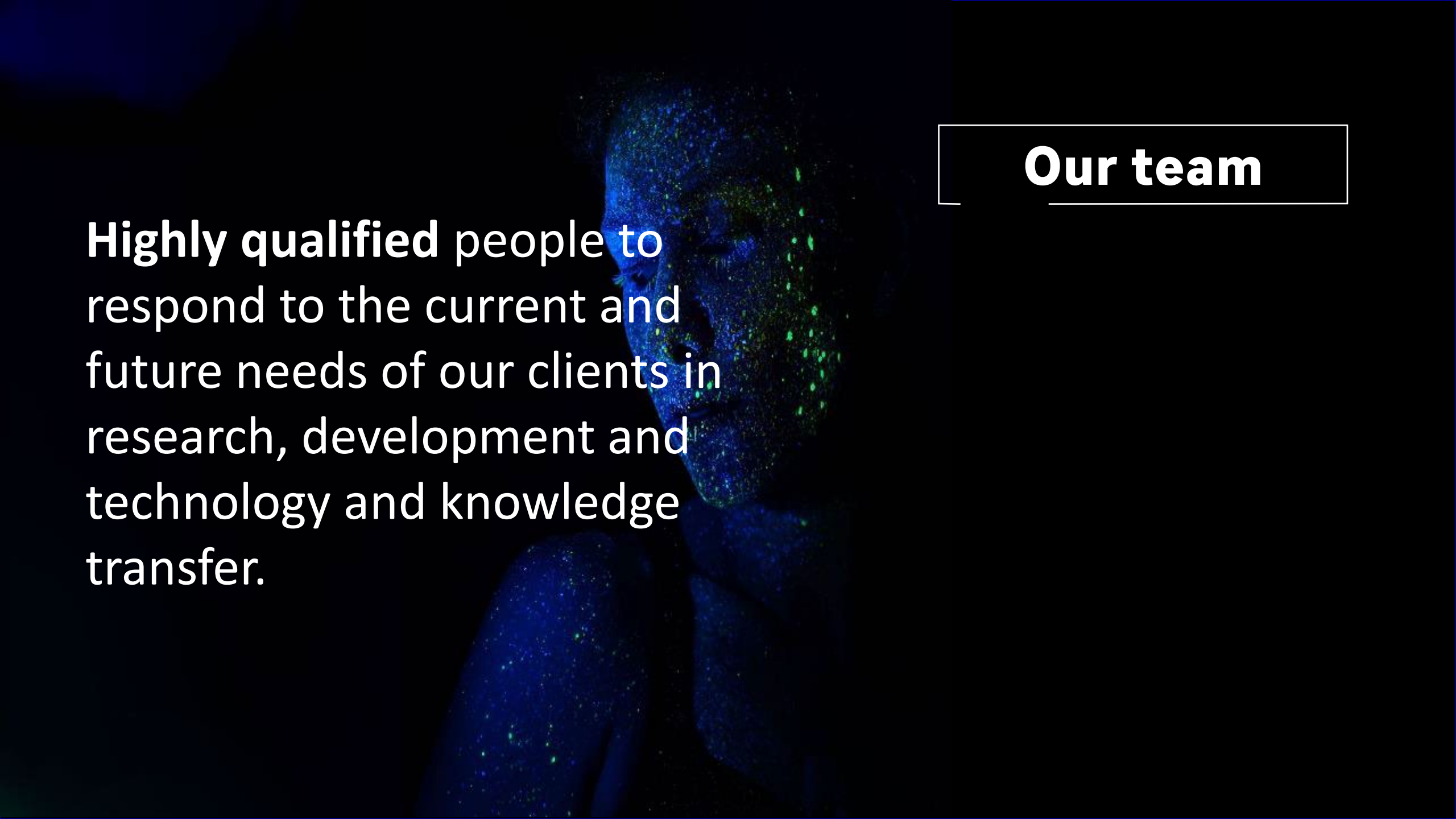
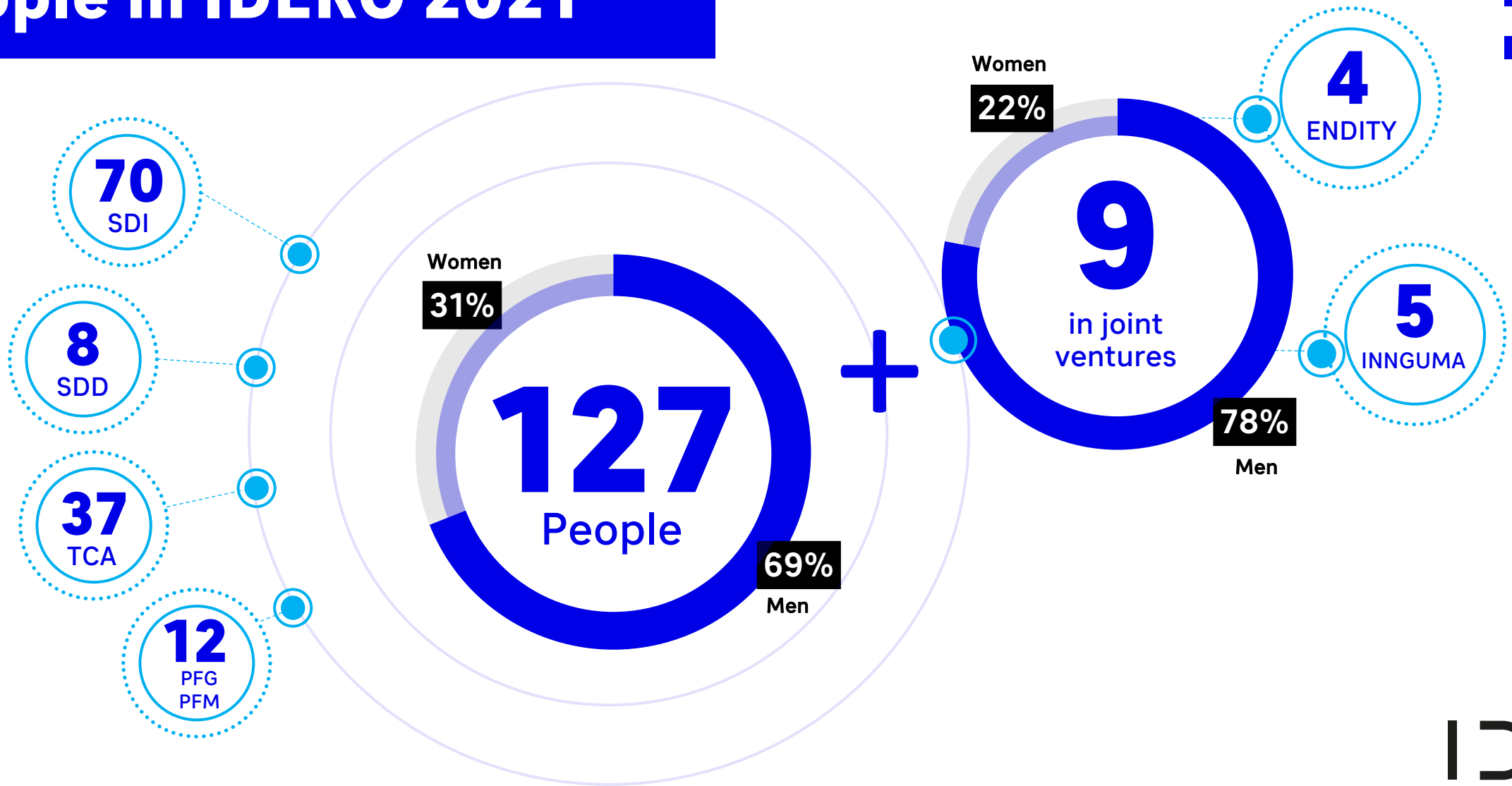
2020
BRTA
BASQUE
RESEARCH &
TECHNOLOGY
ALLIANCE
IDEKO
MEMBER OF BASQUE RESEARCH
& TECHNOLOGY ALLIANCE
2021



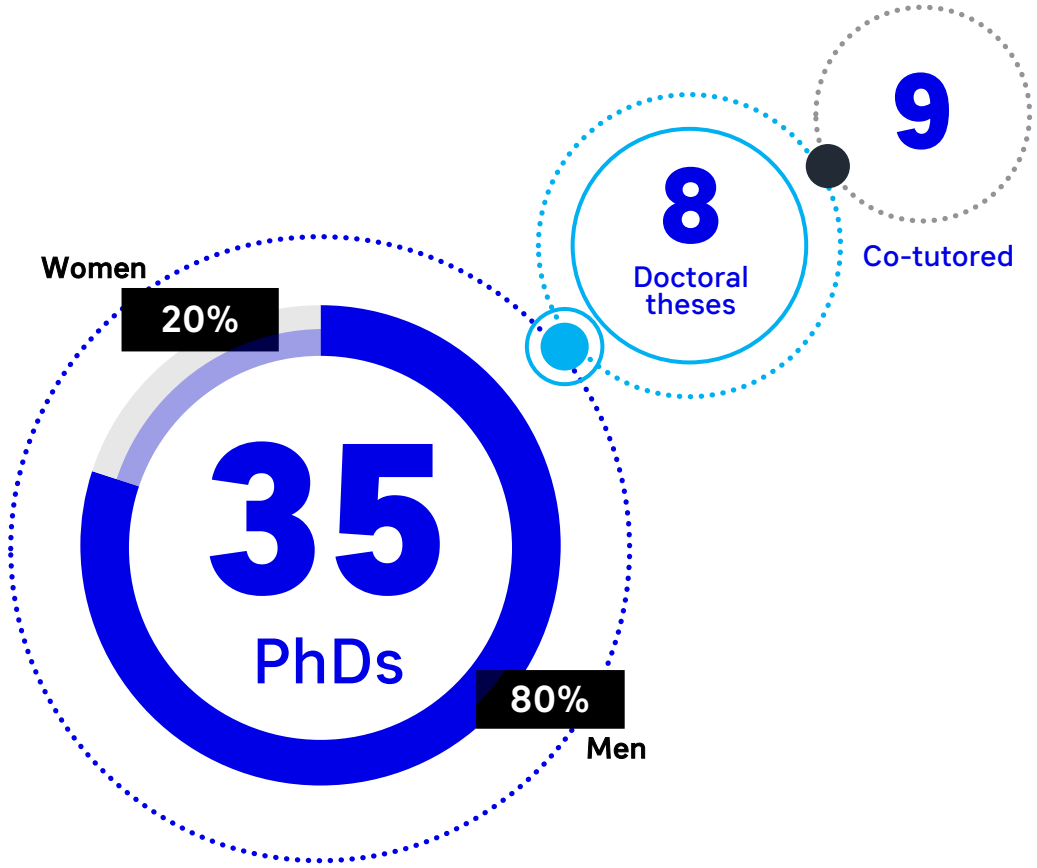
Our team

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 2021



Technological excellence



2021

R&D activity

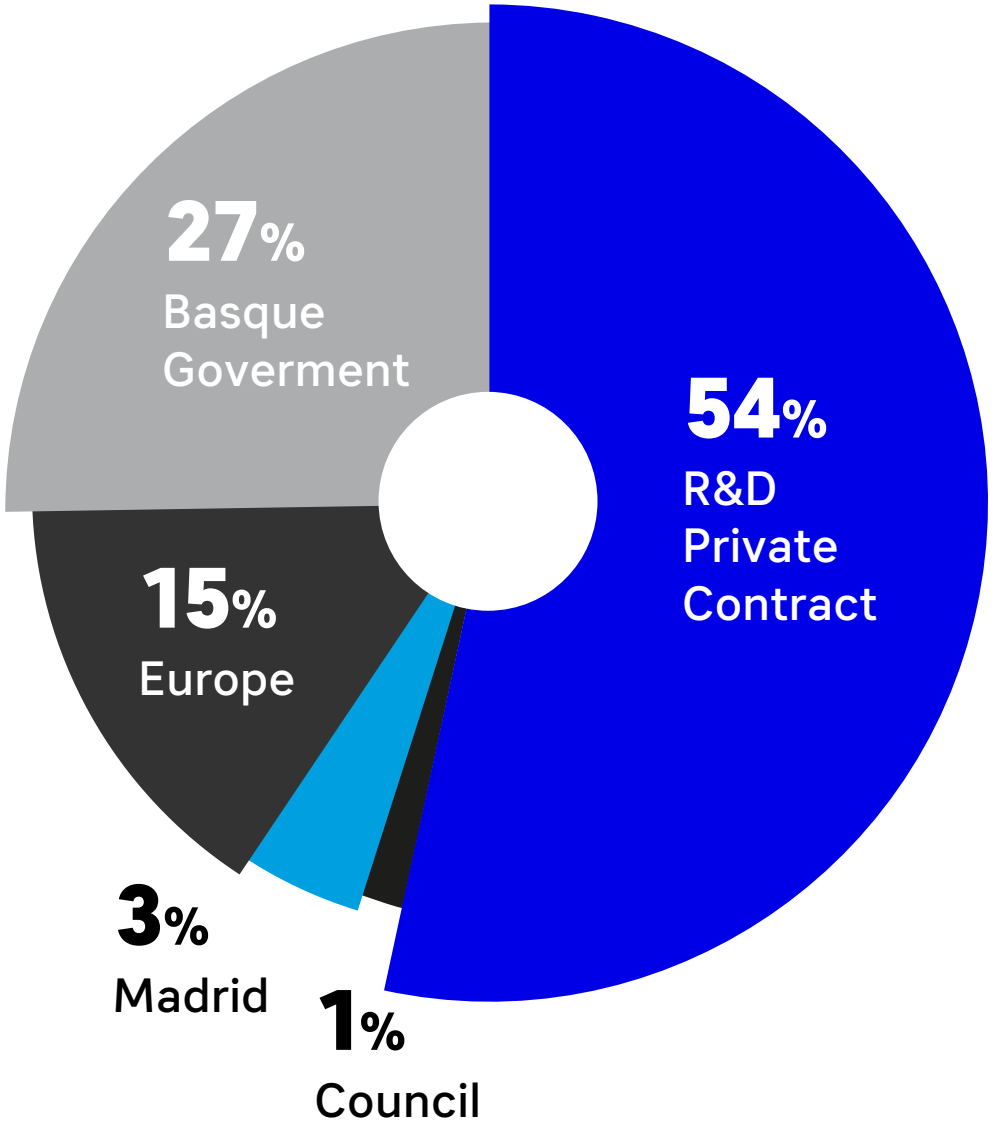
Our R&D activity is aimed at offering **innovative solutions** that contribute to the competitiveness of the industry.

Incomes 2021

10M€

46% Own R&D

54% R&D Private contract



34
Patents

2
Startups

endity

innguma
intelligence for everyone

>150
Technology transfer projects

>30
Years coordinating
European Projects

9
Active EU
projects

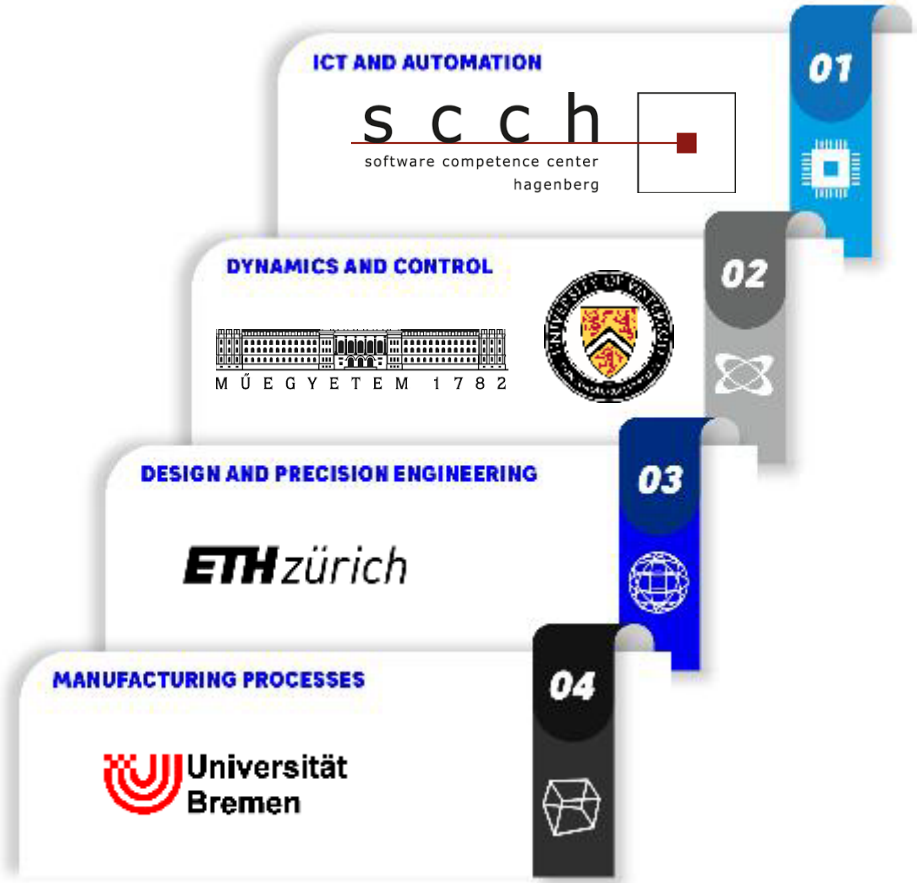
Alliances & Collaborations

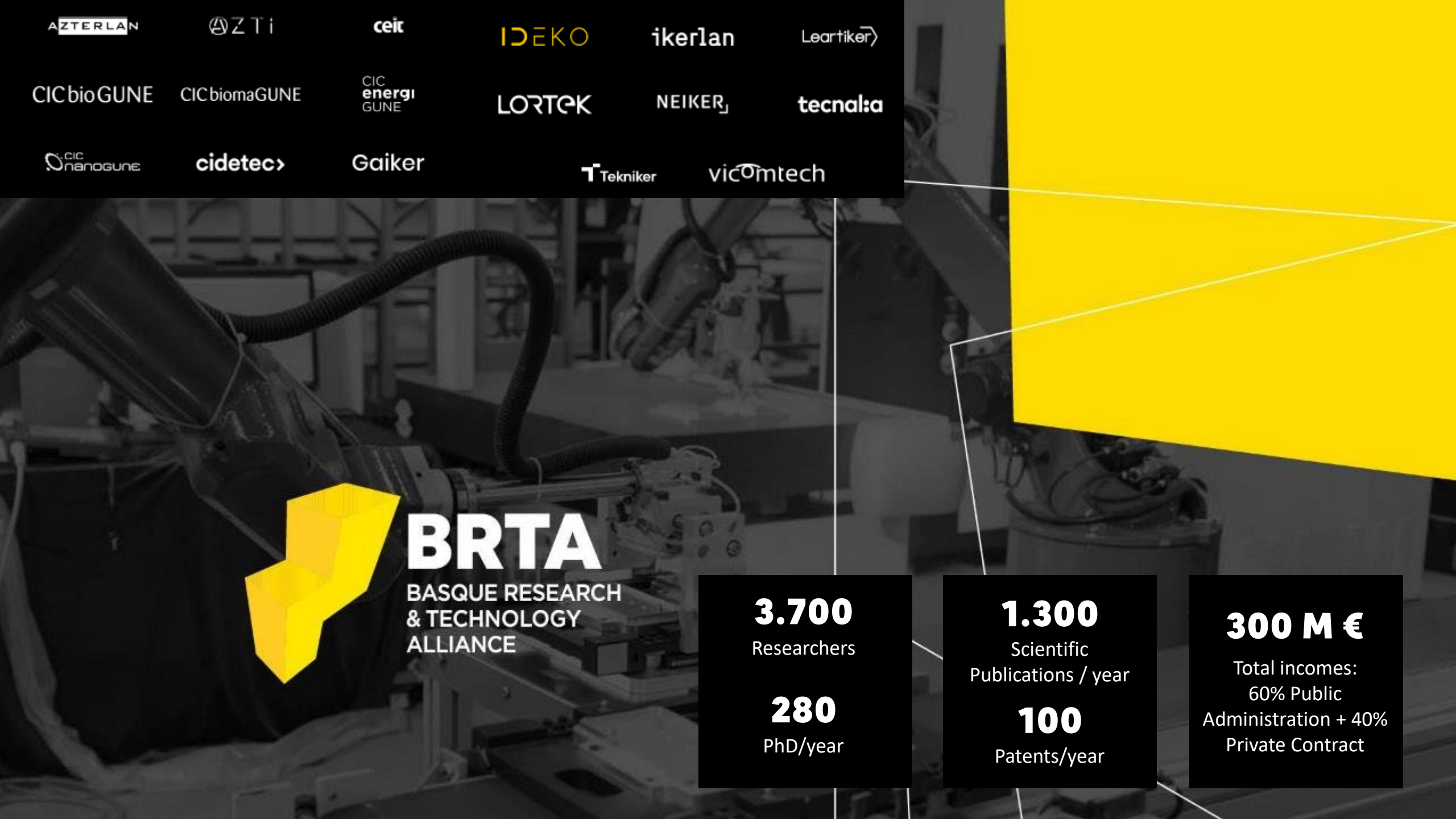
Alliances & Collaborations

Alliance Network

+ than 100 R&D agents

Specialization Collaboration

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CICbioGUNE
CICbiomaGUNE
CIC energiGUNE
LORTEK
NEIKER
tecnalia
CIC nanoGUNE
cidetec
Gaiker
Tekniker
vicomtech
BRTA
BASQUE RESEARCH & TECHNOLOGY ALLIANCE
3.700
Researchers
280
PhD/year
1.300
Scientific Publications / year
100
Patents/year
300 M €
Total incomes:
60% Public Administration + 40% Private Contract

Specialization

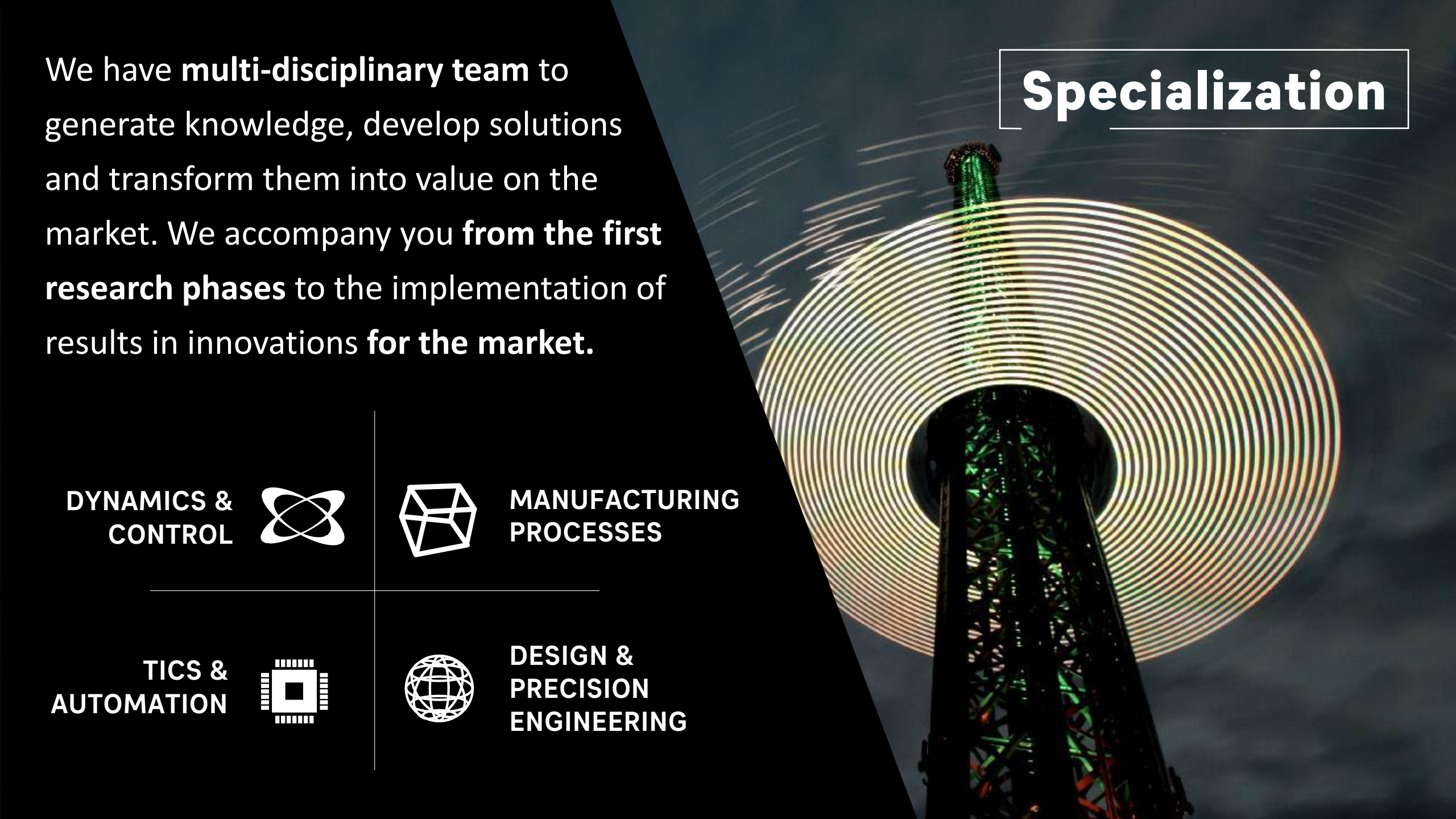
We have **multi-disciplinary team** to generate knowledge, develop solutions and transform them into value on the market. We accompany you **from the first research phases** to the implementation of results in innovations **for the market.**

DYNAMICS & CONTROL

MANUFACTURING PROCESSES

TICS & AUTOMATION

DESIGN & PRECISION ENGINEERING

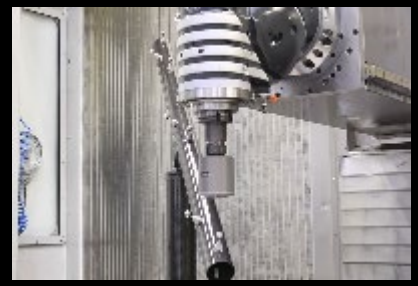


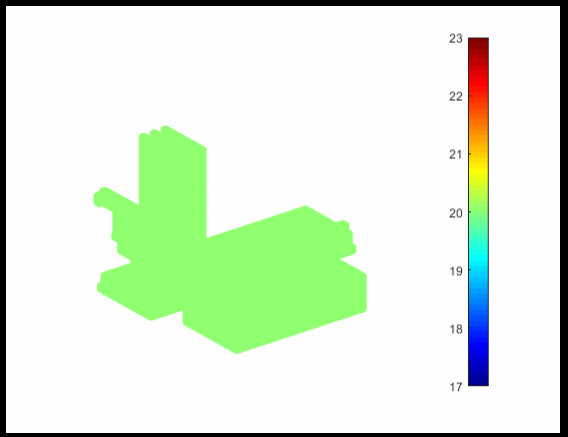
Spezialization

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.

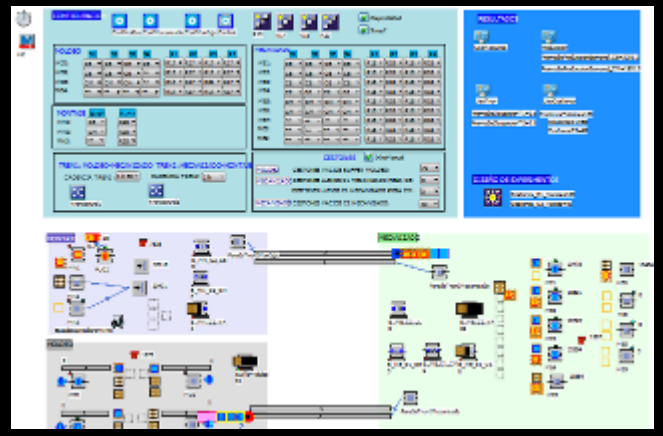
MORE INFO





Spezialization

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

Spezialization

Dynamics & Control

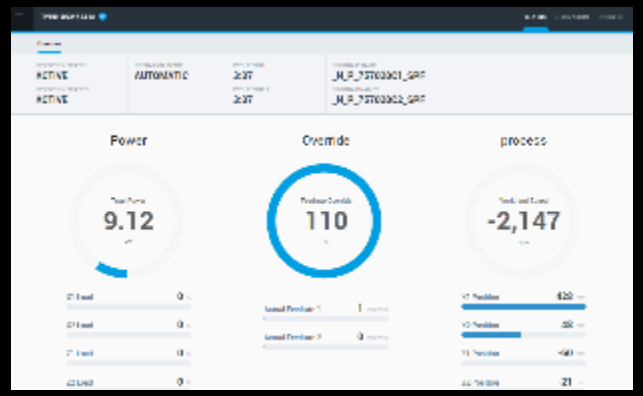
It develops technologies for the characterization, modeling and design of solutions to improve the dynamic behavior of machines, mechatronic systems and machining processes.

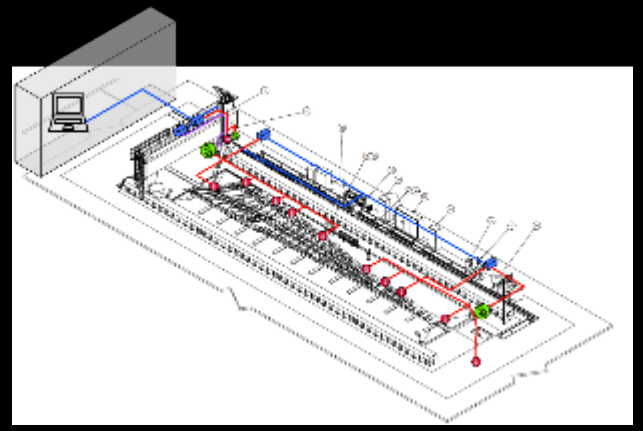
It has a recognized prestige in the international field of science and technology.of the chatter in machining processes and machine dynamics.

MORE INFO

Spezialization

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

7 Specialization Lines 2021 - 2024

MACHINE AND PRECISION 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 INTELLIGENT 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

STRATEGIC PARTS PROCESSES AND APPLICATIONS

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

ADDITIVE MANUFACTURING

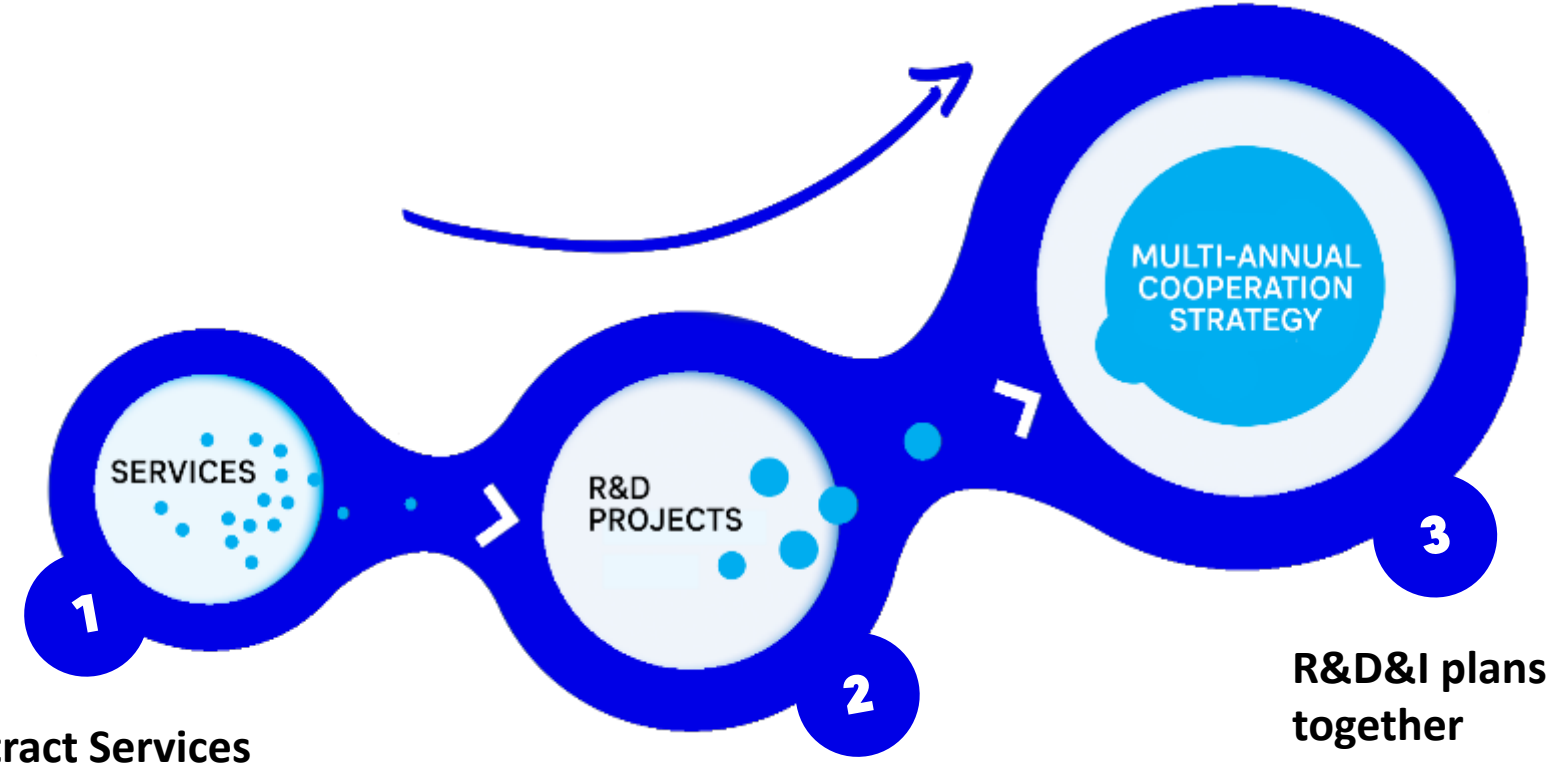
Applicability of additive manufacturing technologies. Prospective, new business opportunities.

7

INNOVATION MANAGEMENT MODEL

Technological Partner

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

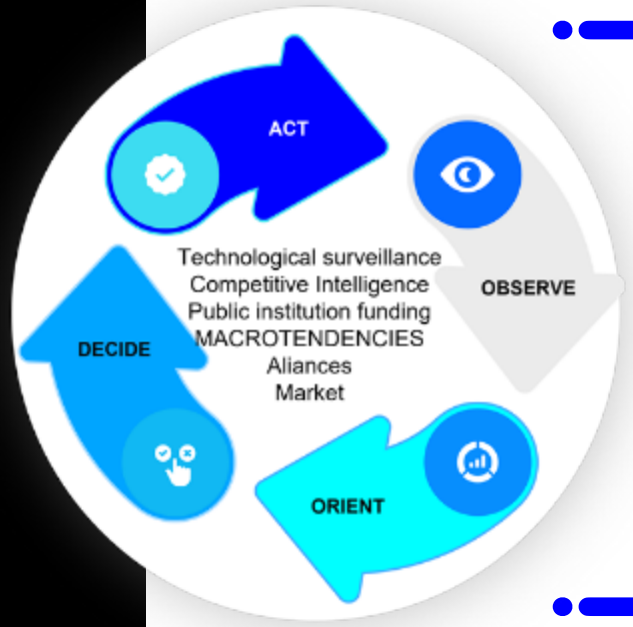


Contract Services
resolution of vibration problems, modal analysis, FEM calculations and simulations, or the provision of advanced measuring, inspection and verification services.

R&D projects
Knowledge and technology transfer.

R&D&I plans together

Technological Partner



RESEARCH PLAN | IDEKO
4 YEARS

TECHNOLOGICAL ROADMAP
4 YEARS

R&D
Technology
Patents
Knowledge
People

IDEKO
MEMBER OF BASQUE RESEARCH
& TECHNOLOGY ALLIANCE

ANNUAL COLABORATION PLANS

MIXED
TEAMS


AERnnova
euskotren
GOIMEK
DANOBAT
DANOBAT OVERBECK
SORALUCE
AEROMEC
eusko MACHINING
GKN
IZAR CUTTING TOOLS
ONA
SIKULAN
ALDAKIN
epc Engine Power Components
Irizar
LAULAGUN bearings
RONALGROUP
Tenaris
AMPO Commitment made of steel
endity
IBERMACH Special Machinery / Presses
lantier Solutions Inside
Orona
TTTGROUP
BOEING
ekin thinking together
HEMBRUG
Loramendi Total Performance in foundry
SAKANA group
ZUBIOLA DIAMOND TOOLS SOLUTIONS
CAF
ITP Aero
Korta
sarralle
ZEISS
COMETEL
FAGOR FAGOR AUTOMATION
IPF
MYL
SAVVY
urola SOLUTIONS
Alcorta FORGING GROUP
ETXEPE
Ingeteam
MASTED ASSEMBLY Customized machinery solutions
sidenor
UNESA
MORRES
ERLO Group
Gestamp
MONDRAGON ASSEMBLY
SIEMENS
ULMA
COPRECI
Egile DRIVEN BY PRECISION
GAI
LOXIN
SIEMENS Gamesa RENEWABLE ENERGY
GRUPOWEC thinking forward

FACILITIES

DIGITAL GRINDING INNOVATION HUB

PRECISION ENGINEERING LAB.

PRECISION METROLOGY LAB.

HIGH PERFORMANCE DYNAMICS LAB.

COMPOSITES LAB.

LASER LAB.

CNC AND DIGITAL FACTORY LAB.

PROTOTIPE WORKSHOP

Facilities


CFAA
basque center for applied mathematics
CAMPUS


CFAA IDEKO IMH BCAM UPV-EHU
IN DATA WE THINK
AIMS I
nosce te ipsum
IDEKO

IDEKO

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