

ALL
IS
CHANGE



WHO WE ARE

tecnalia Inspiring
Business

TECNALIA RESEARCH AND TECHNOLOGICAL DEVELOPMENT



SINCE 2011
TECNALIA is a benchmark Research
and Technological Development
Centre in Europe

MULTISECTORAL
MULTI-TECHNOLOGY



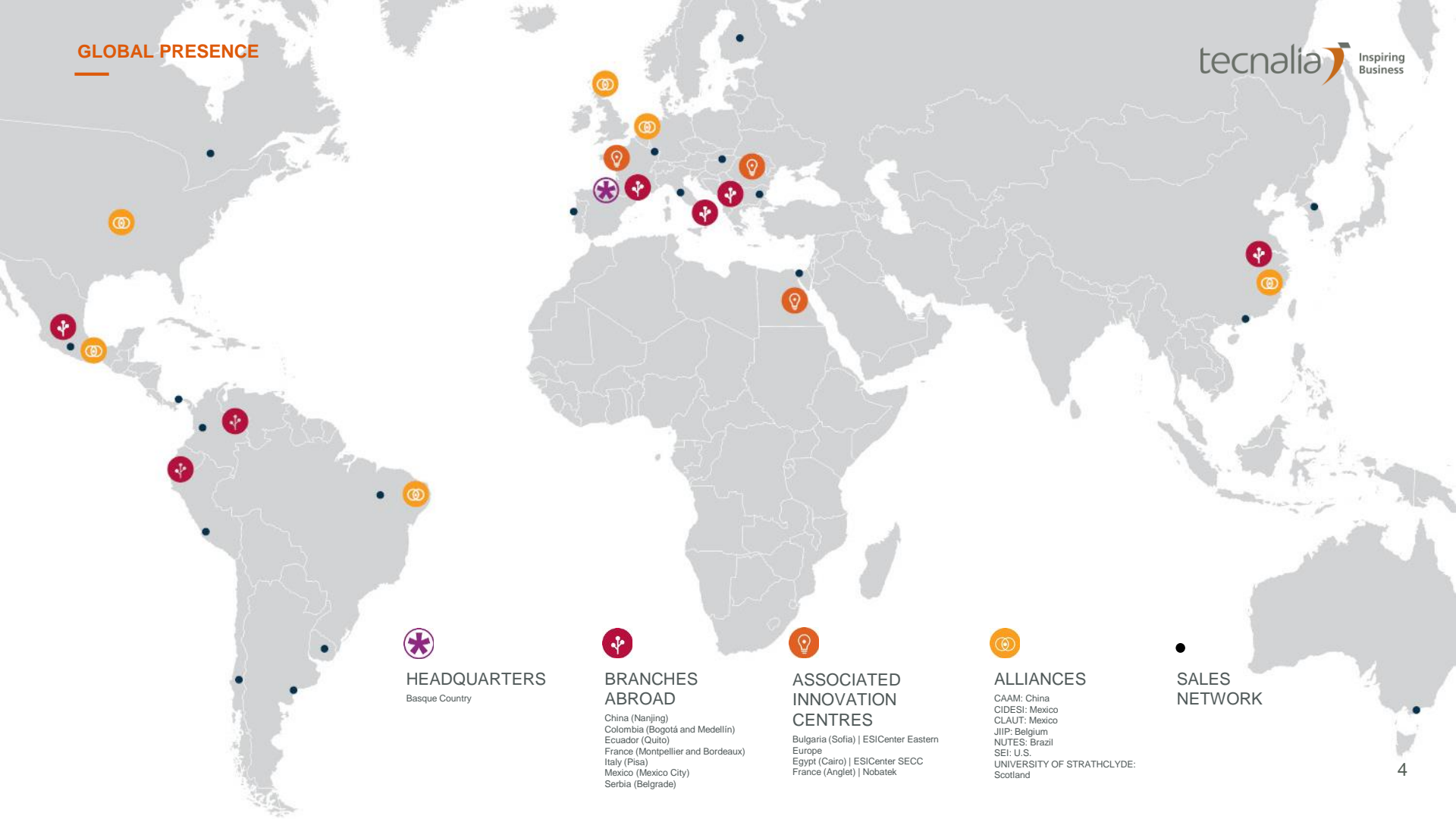
A MODEL ANTICIPATING THE FUTURE

A COMBINATION OF TECHNOLOGY,
TENACITY, EFFICIENCY, COURAGE
AND IMAGINATION

WE TRANSFORM

Technology into GDP

GLOBAL PRESENCE



HEADQUARTERS

Basque Country



BRANCHES ABROAD

China (Nanjing)
Colombia (Bogotá and Medellín)
Ecuador (Quito)
France (Montpellier and Bordeaux)
Italy (Pisa)
Mexico (Mexico City)
Serbia (Belgrade)



ASSOCIATED INNOVATION CENTRES

Bulgaria (Sofia) | ESI Center Eastern Europe
Egypt (Cairo) | ESI Center SECC
France (Anglet) | Nobatek



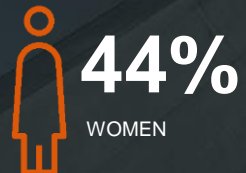
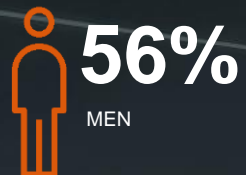
ALLIANCES

CAAM: China
CIDESI: Mexico
CLAUT: Mexico
JIIP: Belgium
NUTES: Brazil
SEI: U.S.
UNIVERSITY OF STRATHCLYDE: Scotland



SALES NETWORK

PEOPLE IN TECNALIA



31

DIFFERENT
NATIONALITIES



267

PhDs

Figures on 31 December 2020

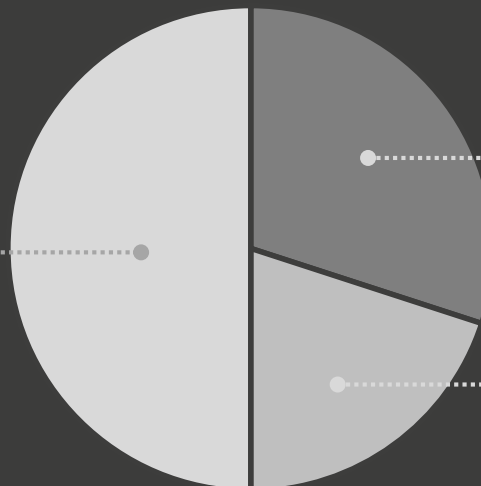
BALANCE OF ACTIVITIES AND THEIR FUNDING

INCOME

115 MILLION
EUROS

50%

Private financing
and others



30%

Competitive
public funding

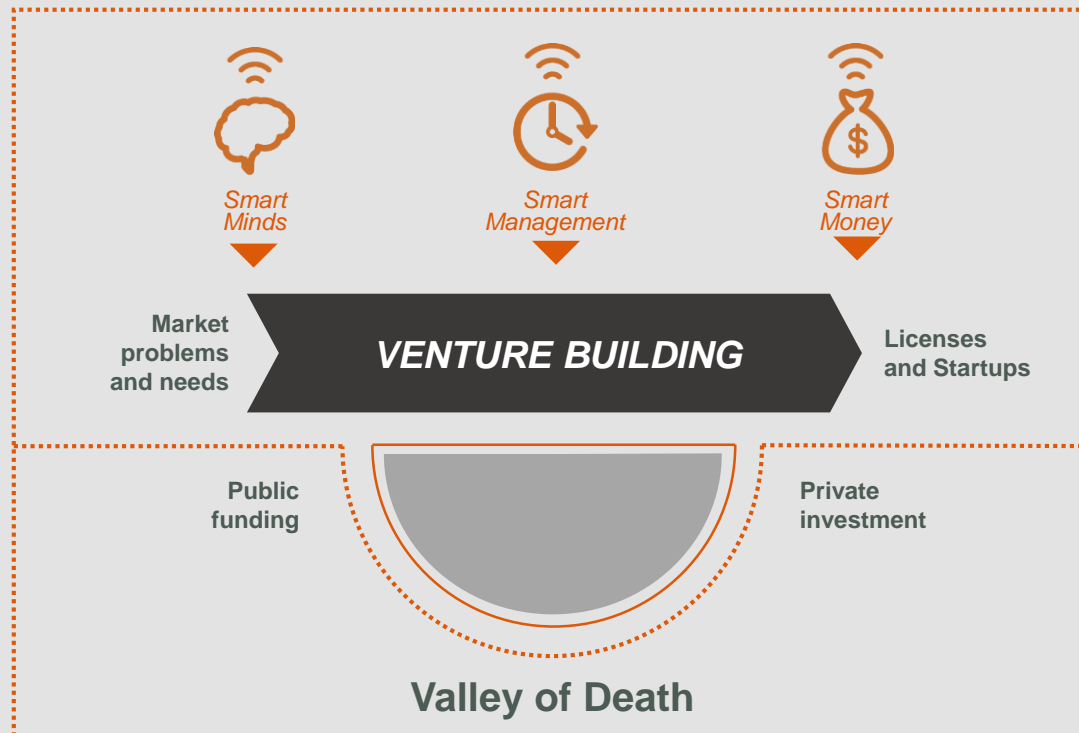
20%

Non-competitive
public funding

TECNALIA VENTURES

It is a 100% TECNALIA owned company, set up with the objective of appraising in-house R&D and innovation, identifying and deploying deep tech business opportunities, through a venture building process.

To do so, it has a **technological assets Incubation Acceleration Programme** to manage their life cycle and maximise their impact.



Acceleration of the incubation of technological assets until they are turned into investment opportunities capable of generating value in society. **VENTURE BUILDING**

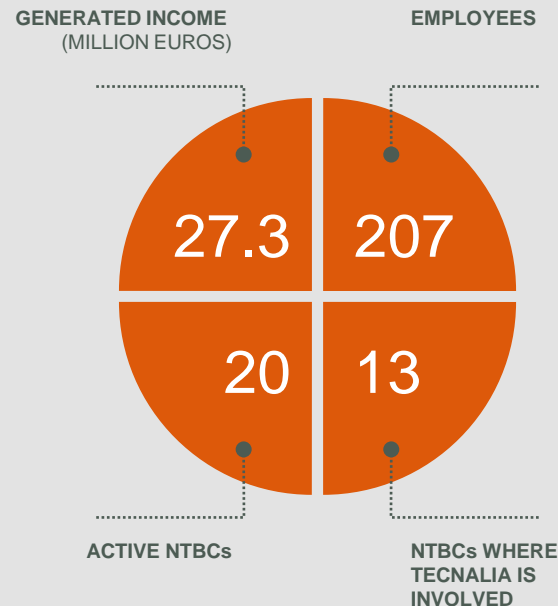
Patents



NTBCs

Figures on 31 December 2020

The survival rate of TECNALIA'S NTBCs 5 years after their establishment is of 100%.



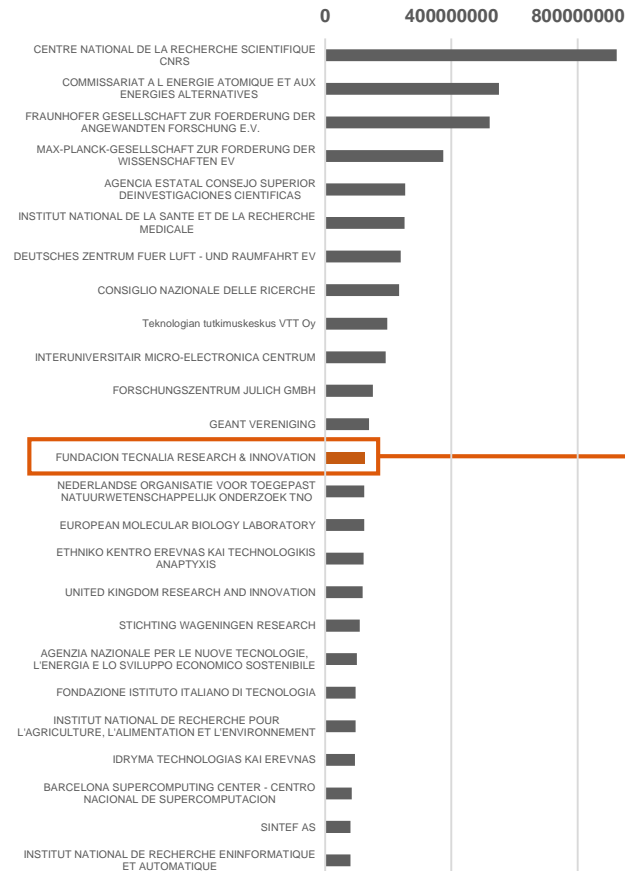
TECNALIA is currently the SECOND SPANISH PRIVATE ORGANISATION IN EUROPEAN PATENT APPLICATIONS, with an outstanding success ratio of 92% regarding EPO/PCT applications granted since 2012.



**Private organisation in Spain
in project contracting, participation and leadership
under the EU Horizon 2020 Programme**

Top 25 REC H2020 Organisations (EC contribution)

**RANKED No. 13
OUT OF 2,900
RESEARCH
EUROPEAN
ORGANISATIONS**



13th

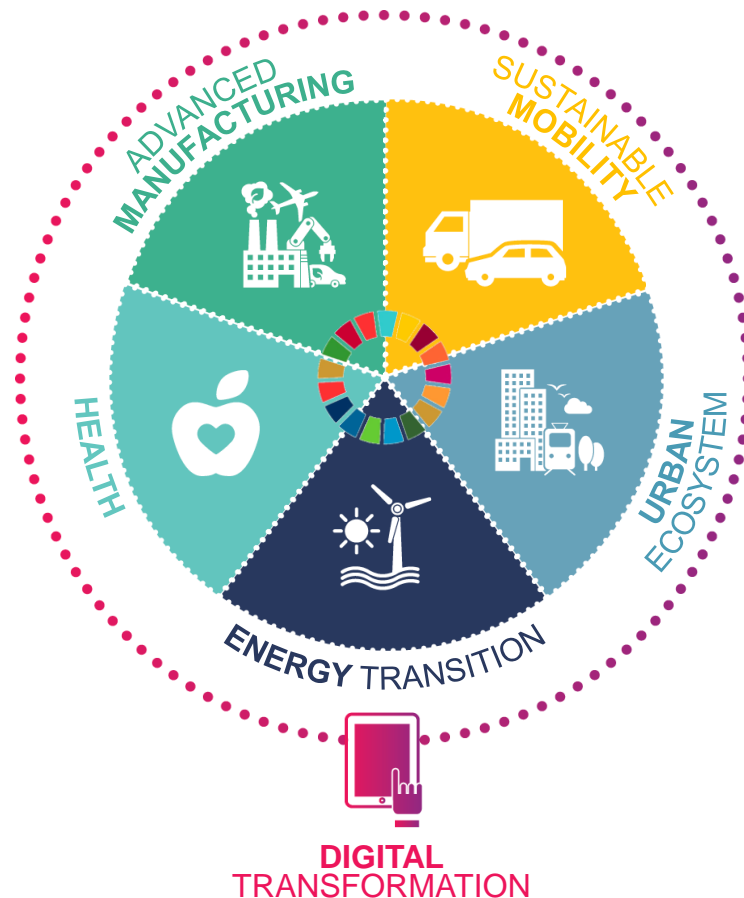
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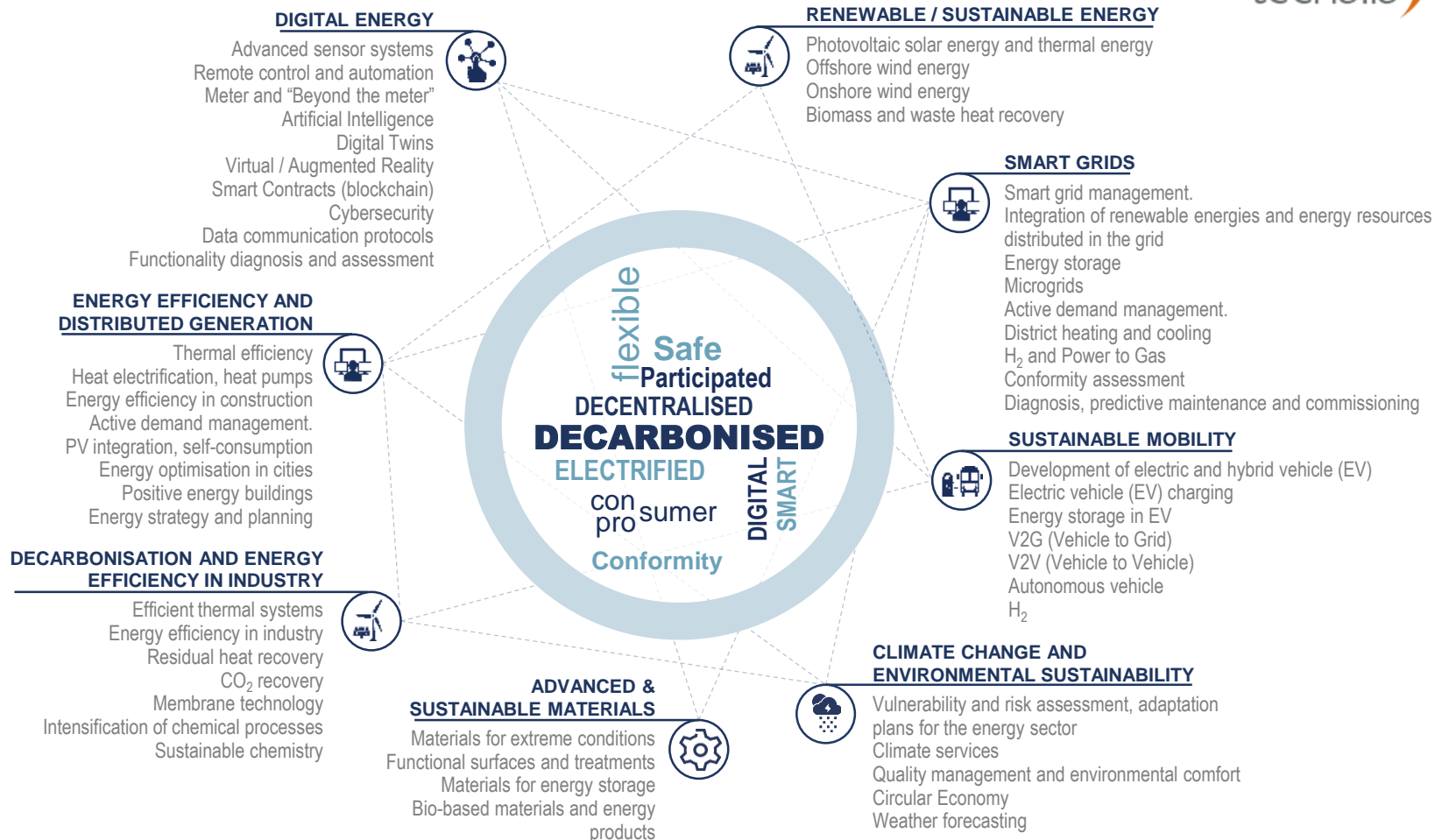
Figures on March 2020

READY TO FACE NEW CHALLENGES WITH YOU

We are alert and ready to face all current challenges and opportunities as well as those which lie ahead.

Along all the paths which lead us to the future.






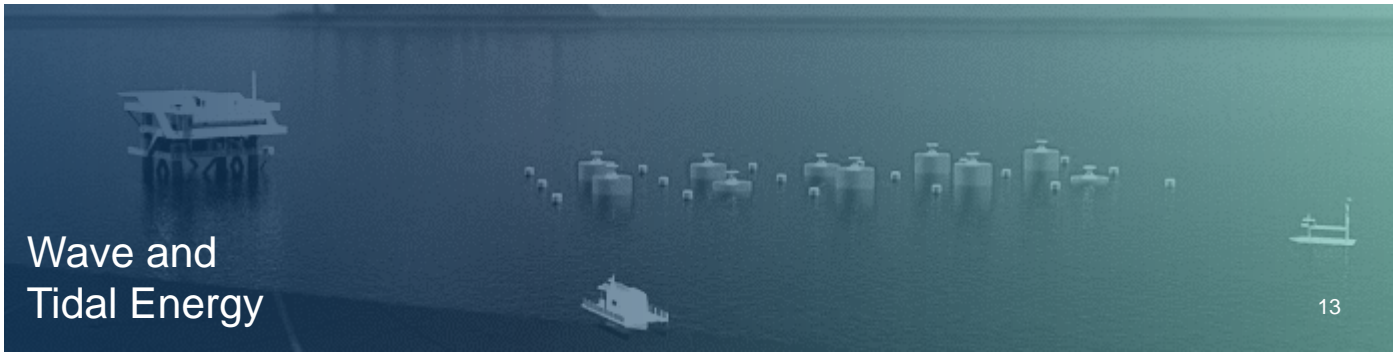
- New solutions for installation and O&M
- Optimised designs for reducing costs of foundations and electrical infrastructure
- Test and analysis of materials and components for harsh environments
- Design tools for floating platforms
- Tank testing and numerical analysis
- Analysis and design of mooring systems and electrical connections
- Design tools for the optimisation of arrays
- Performance assessment
- Optimisation of Power Take-Off and Control systems



Innovations for cost reduction in fixed offshore wind farms



Floating offshore wind turbines



Wave and Tidal Energy

16

years of experience in the offshore renewable energy sector

€42m

worth on R&D

4

patents transferred to industry (including 2 SMEs)



contributing to numerous international committees and advisory groups



tank and open-sea **testing of wave energy** devices

collaborating with the regional government on the definition of a **marine energy strategy**



organising international and national events, including ICOE 2010

2 technology-based companies created



OCEANTEC

in partnership with Iberdrola, development of wave energy converters.

Acquired by IDOM in 2018

nautilus 
floating solutions

a consortium made up of four industrial companies plus TECNALIA

aiming at developing cost-effective floating platforms for offshore wind in deep waters.



European Research Projects

20 participation in

5 led projects

>€7m funding

>33% success rate

What we know

Coupled, analytical and multi-physical models, including testing and validation

Physical and virtual sensing

Experimental modelling based on data analytics and deep learning

System engineering and decision tools

Where we apply our knowledge

Testing of components for offshore applications in real conditions

Digital twins of components for offshore applications to support life extension, operation, maintenance and redesign

Design and optimization of offshore structures and systems, including among others, foundations, mooring systems, dynamic cables, marine operations and electrical lay-out

Generation, modeling and evaluation of innovative concepts for cost reduction in offshore renewables



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