

eurecat!

Innovation with impact

We promote business competitiveness and social welfare through applied research, technological development and innovation.

"innovating with businesses"



What is Eurecat



1

The main technology centre in Catalonia and one of the largest private research organisations in southern Europe.

2

We work together with companies of all sizes and sectors in the different phases of R&D&I.

3

We accelerate innovation, reduce the cost of scientific and technological infrastructure, reduce risks and provide specialised knowledge tailored to business needs.

4

Our multi-sectoral and multi-technological approach enables us to tackle complex challenges and meet major challenges in areas such as technology, the environment and energy.

5

We have highly advanced infrastructures and laboratories in water technology, medical devices, personalised nutrition, integrated electronics, artificial intelligence in industrial environments, lightweight materials and cognitive robotics, among other fields.

6

Our capillarity allows us to be close to our clients: with offices all over Catalonia and presence in Madrid, Malaga and Chile.



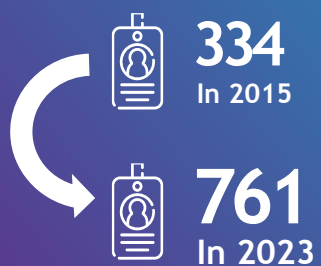
Applied research, technological development and innovation with market impact

Quite a challenge! ...
which opens up great opportunities

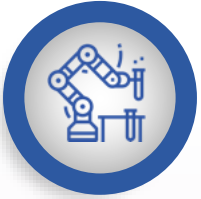


Committed team, close to companies

We have a results-oriented team committed to all our projects to deliver outstanding service to the company



Interdisciplinary integration



Industrial Area

1. Advanced materials and new manufacturing processes
2. Functional printing and embedded devices
3. Collaborative and cognitive robotics
4. Functional textiles
5. Chemicals
6. Modelling and multiphysics simulation
7. Product innovation



Digital Area

1. Sensor systems and IoT
2. Quantum computing
3. Data science and analytics
4. Artificial intelligence
5. Cybersecurity
6. Multimedia technologies
7. Digital Health



Biotechnology Area

1. Nutrition and health
2. Omic sciences
3. Biotechnology



Sustainability Area

1. Water
2. Soil
3. Air
4. Energy
5. Waste
6. Environmental impact
7. Batteries
8. Climate change



Our standout value:

Our interdisciplinary capabilities enable us to address complex challenges.

Science and technology experts

To deliver a comprehensive response to the social, economic and environmental challenges Eurecat has 7 flagship domains



Water technology



Medical devices



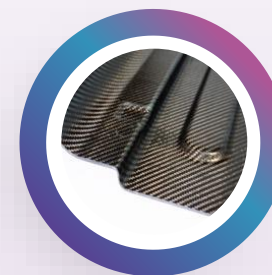
Personalised nutrition



Functional polymers



Artificial intelligence in industrial settings



Lightweight materials



Advanced robotics

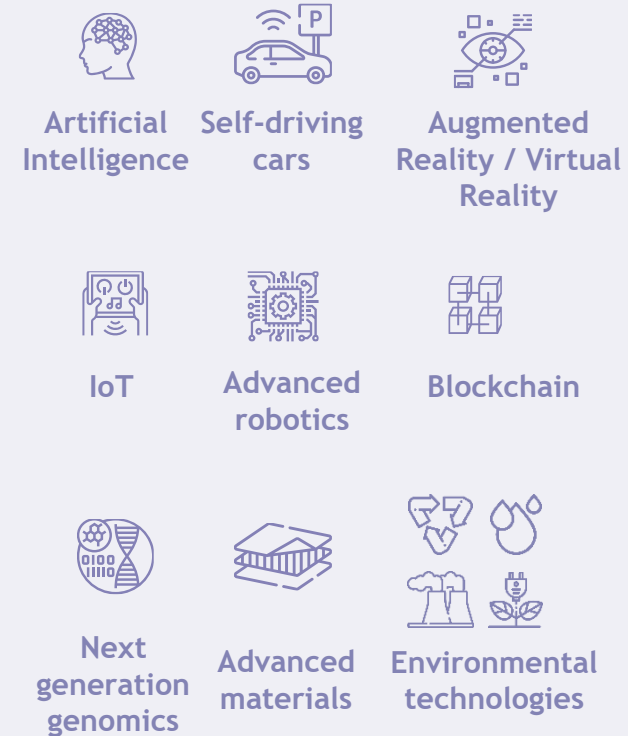
Relevant macro trends

- ✓ Diversity
- ✓ Inequality
- ✓ Climate crisis
- ✓ Demographic change
- ✓ Circular economy
- ✓ Platform economy
- ✓ Geopolitical changes
- ✓ Technological revolution
- ✓ Urbanisation

Sustainable Development Goals



Technologies with disruptive potential



DIGITAL & EXPERIENCE
INDUSTRIES



GREEN CITIES &
INDUSTRIES



MANUFACTURING



MOBILITY



WELLNESS INDUSTRIES



Sectors Markets Ecosystems

We master technology, we know the market; we provide answers in technological terms to the challenges, needs and opportunities of the market, in order to improve the competitiveness of companies and the well-being of society.



Textile



Health



Automotive



Materials Processing
and
Capital Equipment



Sport



Railway



Commerce and tourism



Construction



Energy
and resources



Chemicals



Finance
and assurances



Public Sector



TIC



Nutrition



Cultural and
creative industries



Packaging



Mobility



Aerospace



Logistics



Manufacturing

Differential offer

Together with the company we create and/or improve products, services and processes, from the idea to industrialisation.



Applied research and technological development

- R&D&I units set up with the company
- R&D projects
- Minimum viable product



Advanced technology services

- Scientific and technological assessment
- Audits
- Testing and analysis
- Proofs of concept
- Approvals



Technology consultancy

- Innovation strategy and management
- Technology watch
- Trend analysis and feasibility studies
- Project management and funding



Specialised training

- Masters and postgraduate programmes
- Bespoke corporate training
- Continuous learning
- Soft and hard skills training



Value building

- Industrial and intellectual property protection and transfer
- Evaluation and support in building value from technological assets
- Advice and participation in setting up NTBFs
- Technological asset due diligence



Knowledge sharing

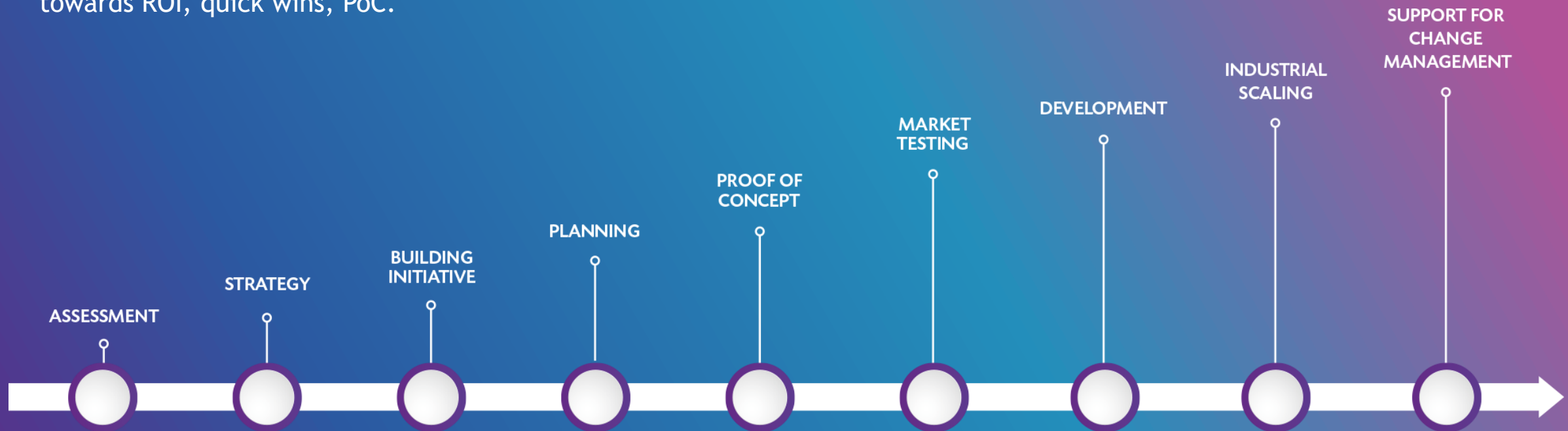
- Promotion actions
- Knowledge sharing and transfer actions



Results-Oriented

We mentor businesses from innovation design to pre-commercial scaling.

We use agile methodologies to monitor projects. Targeted towards ROI, quick wins, PoC.





Alliances and territorial presence

Proximity and trust

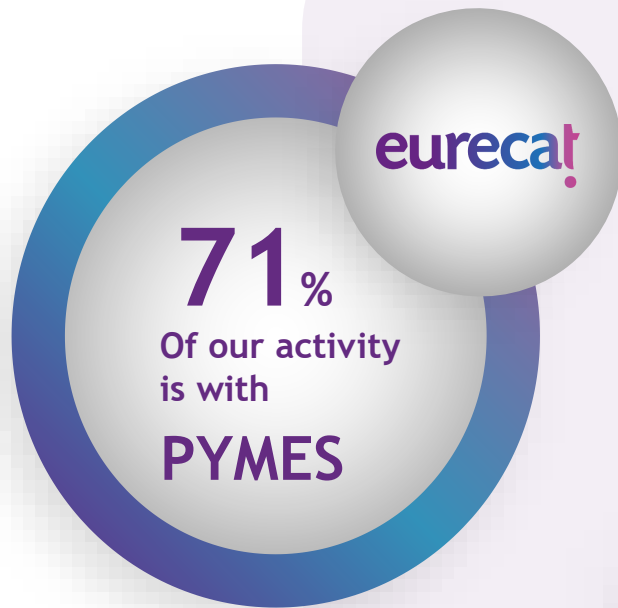
We promote alliances with universities and research centres to bring knowledge sources closer to companies. We are committed to **being close to our clients and their challenges.**



Eurecat 2023 in figures



Sustained growth since 2015, to increase the competitiveness of Catalan companies and the welfare of society through R&D&I.



62M€ Income
in 2023



2.000 Client
companies



200 Patents

Eurecat's differential
value according to our
clients:

- ✓ Expertise
- ✓ Multidisciplinarity
- ✓ Quality
- ✓ Proximity
- ✓ Impact

Customer satisfaction index: **8,65 / 10**

We help companies to discover new opportunities and participate in the creation and improvement of products, services, processes and business models with an impact on their competitiveness and social welfare.



Leaders in attracting competitive R&D&I funds:

Scale and impact

Leaders in attracting competitive R&D&I funds:

- 28.8 MEUR in 2023 in competitive public funds
- First Catalan private organisation to return from Horizon 2020 and fourth in Spain
- Eurecat is the research and technology centre with the most participations in Digital Innovation Hubs funded by the H2020 programme in Spain.
- Spain is the 2nd country with the highest return of European funds in water, circular economy and climate. Eurecat is the 2nd entity at national level.

2nd

Technology
Centre of the
Spanish State in
return of H2020

+ 170

H2020 and Horizon Europe projects
(2014-2022)

+ 38

Coordinated H2020 and Horizon Europe
projects (2014-2022)

+ 200

Spanish companies in projects with
Eurecat participation

+ 200

Large consortium R+D+I projects

90

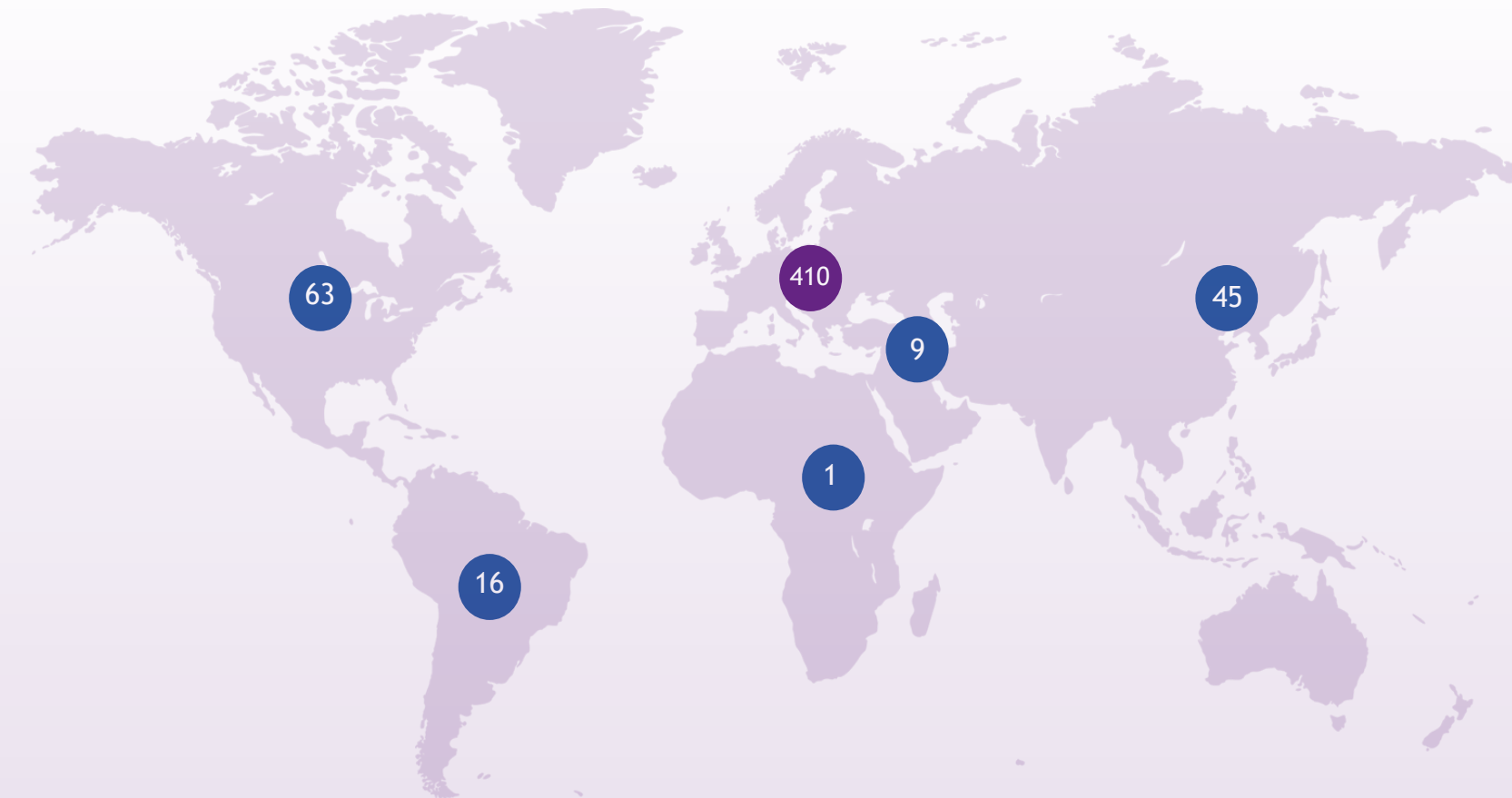
MEUR of return in H2020 and
Horizon Europe (2014-2022)

3.432

Citations of our scientific publications
by company researchers



International alliances and partnerships



We collaborate with 544 organisations worldwide

Network of international collaborations since 2010 (publications, collaborative grant projects, news, conferences).
Source: Linknovate

Eurecat deploys strategic alliances with agents in the R&D&I system to play a dynamic role as an ideal bridge between the global world of knowledge and companies, with the aim of responding to their innovation needs and boosting their competitiveness.



Driver and orchestrator of joint initiatives



We promote unique initiatives for the future, led by or with the participation of Eurecat.
We respond proactively to the current and future needs of companies and society.



As a leader and orchestrator, in alliance with the agents of the system

Active



Technology and knowledge to cope with the climate emergency



Boosting digital manufacturing and 3D printing technologies



Creation of a Technology-Based Company as a benchmark in MOLD Electronics (IME).



Centre of reference in R+D+I of the battery ecosystem in Southern Europe.



Creative and Cultural Industries (EIT)



Joint Research Unit on Metal Manufacturing



In approach



Centre for the development and application of technologies for decarbonisation.

PLEMCAT

Marine Energy R+D+I Platform of Catalonia

Driver and orchestrator of joint initiatives



The leading R&D&I facility in the Southern European battery ecosystem.

- Joint Eurecat + IREC research unit. Specialised development, testing and innovation.
- Designed to improve transfer of knowledge to industry for the development of future generations of cells and batteries.
- Comprehensive support across the entire value chain: eco-design, new materials, testing and validation, assembly, production, second life and circularity, etc.
- Innovation with industrial, economic and social impact in batteries and their application:
 - sustainable, lightweight and environmentally friendly electric mobility
 - stationary energy supply support systems
 - renewable energy rollout
 - capital goods



www.battechbatteryhub.org

Lead partners:



Driver and orchestrator of joint initiatives

Metal Digital
Manufacturing Hub

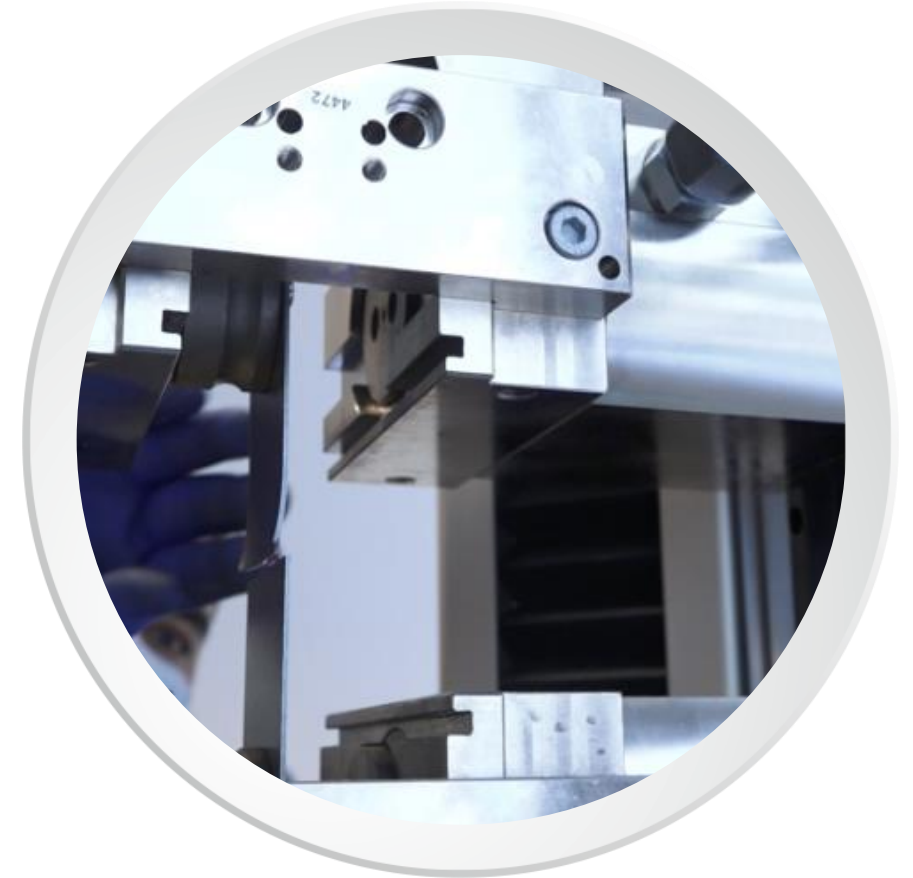
Powered by
RMIT
UNIVERSITY

eurecat

eurecat

Joint Research Unit (JRU) of Metal Digital Manufacturing

- The Metal Digital Manufacturing (JRU) is a Joint Research Unit driven by Royal Melbourne Institute of Technology (RMIT) Europe and Eurecat.
- It brings together the knowledge, facilities and experience of RMIT's Advanced Manufacturing and Additive Manufacturing Centers, together with the Center of Excellence in Advanced Manufacturing of Eurecat.
- The unit covers the entire value chain, from advanced design and fabrication of metal components to the development of alloys and new materials that allow innovative design solutions to be customized throughout the value chain of metal digital manufacturing.



www.metaldigitalmanufacturing.com

Lead partners:

RMIT
UNIVERSITY

eurecat

Driver and orchestrator of joint initiatives

The Digital Innovation Hub in Artificial Intelligence in Catalonia

- Part of the Catalan Government's Catalonia.AI strategy.
- The CIDAI aims to fast-track Artificial Intelligence uptake in business and society.
- It is a public-private initiative coordinated by Eurecat which promotes knowledge transfer and implementing joint projects between knowledge-generating organisations (universities, research and innovation centres), technology and service provider companies, and user companies and institutions looking for innovative solutions in applied artificial intelligence.
- It seeks to promote the Catalan Artificial Intelligence ecosystem as a flagship international hub by building a connected, active and vibrant community that embraces most of the stakeholders.



www.cidai.eu

Lead partners:



Driver and orchestrator of joint initiatives



At the forefront of innovation in the tourism industry

- A public-private initiative coordinated by Eurecat designed to play a key role in the transformation of tourism: innovation, sustainability and the competitiveness of destinations and businesses.
- It is an international leader in applied research, technological innovation and knowledge transfer in the industry coupled with analysing tourism activity and recommending policies and instruments in and for the industry.
- Work strands addressing sustainability, tourism intelligence systems, digital transformation, talent and innovation.
- Aimed at the entire value chain of the tourism industry and related businesses, society as a whole and residents in tourism destinations.



www.coeintourisminnovation.org

Promoters:

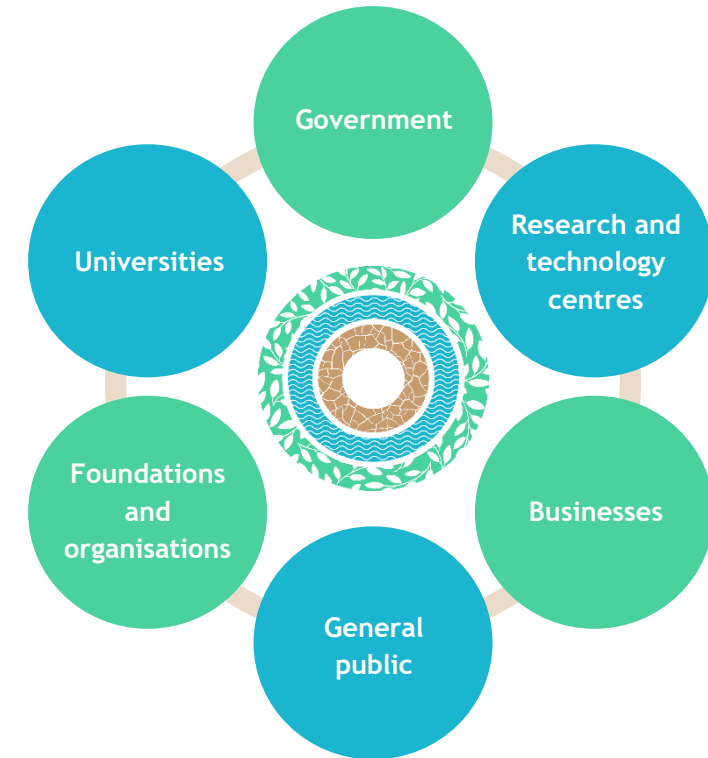


Driver and orchestrator of joint initiatives



Technology and knowledge to tackle the climate emergency

- It seeks to become the flagship centre for climate resilience in adapting to and mitigating climate change in Catalonia and the Mediterranean.
- R&D&I of excellence to become more resilient to climate change and support sustainable development by fast-tracking the ecological transition.
- Transfer of knowledge and technology to businesses, government and society; outreach and training for society.
- Promotion across Catalonia by rolling out regional Living Labs.
- Joint initiative with ecosystem stakeholders coordinated by Eurecat.



www.centreenresilienciaticlimatica.org

Lead partners:



Driver and orchestrator of joint initiatives



TEXTILE INNOVATION HUB

- Business innovation programme aimed at the textile industry sponsored by Eurecat, Mataró Town Council and TecnoCampus as part of the Mataró Maresme Territorial Specialisation and Competitiveness Project (PECT). It is committed to promoting the restructuring of the industry and the places where it has the greatest footprint, starting with el Maresme and Catalonia.
- It seeks to be a leader for the textile industry, especially in fashion, health and sports, in technological innovation and business models.
- Strategic strands: (1) Driving a textile innovation and entrepreneurship ecosystem for the future, (2) textile industrial competitiveness and its digital transformation, (3) sustainability and circular economy as the key to standing out and the future of the textile industry, (4) internationalisation of the hub and its businesses.



www.reimaginetextile.com

An initiative by



Partners:



Funded by:



Driver and orchestrator of joint initiatives



H2CAT, the Catalan network for renewable hydrogen innovation

- H2CAT is made up of 30 research groups with knowledge in different lines of research and technologies related to hydrogen.
- Through the creation of valorisation programmes and the transfer of research results to the social environment, H2CAT works to increase the scientific indicators in the field of green hydrogen in the Catalan ecosystem.
- Consolidation of a scientific-technological model that promotes innovation and the scalability of benchmark industries with the aim of positioning Catalonia as a world leader in green hydrogen.
- Key element for improving the competitiveness of the energy, industrial and transport sectors, among others, motivating the deployment of a low-emission society and territory.



www.xarxah2cat.org

Lead partners:





Spin-offs

Valuing Intellectual Property Assets

10 Investees

We generate international patents every year and promote the creation of new technology-based companies that contribute to rooting the industry in the territory and generating quality employment.

14,6M€
In turnover

+ 200
patents

85
people employed



More than **20 laboratories** at the service of companies to find **technological solutions** to complex industrial or innovation challenges.



Our laboratories have **strategic equipment** to carry out **tests, analysis and characterisation services, concept tests and complex projects.**

We have a **highly qualified team** to solve complex scientific and technological challenges and a business development team with experience innovating with companies.



labs.eurecat.org



Advanced and innovative technological training for industry professionals

- ✓ Experience
- ✓ Applied technological knowledge
- ✓ Quality
- ✓ Installations
- ✓ Experts in e-learning
- ✓ References in Industry 4.0

Training modalities

We connect with the company. We offer different types of training proposals to provide solutions to the needs of companies and professionals: Advanced training programmes, Continuous Training, In-Company Training, Professional Training for employment.



Testimonials

Success stories in the company



Santos Jorge and Eurecat collaborate in the valorisation of glass waste to obtain new materials and applications



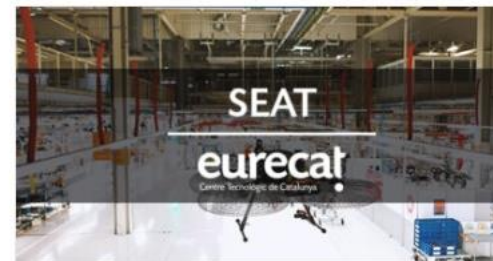
Giró and Eurecat create innovative plastic-free fruit and vegetable packaging



The Empordà Health Foundation and Eurecat innovate with an impact on ophthalmology through a process of innovative public procurement



Giromed Institute and Eurecat create an intelligent device for the follow-up of the treatment of obstructive sleep apnoea syndrome



SEAT innovates with Eurecat in autonomous vertical navigation with drones inside the factory



The Sant Cugat High Performance Centre innovates with Eurecat in the creation of a distance learning platform



All the videos on the playlist “Innovant amb les empreses”, on Eurecat's Youtube channel <https://bit.ly/2Szhyll>

"innovating with businesses"

Thank you

eurecat.