





The technological and digital sector in Catalonia: sector snapshot

ACCIÓ Government of Catalonia



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Carried out by

Strategy and Competitive Intelligence Unit of ACCIÓ

Barcelona, March 2025





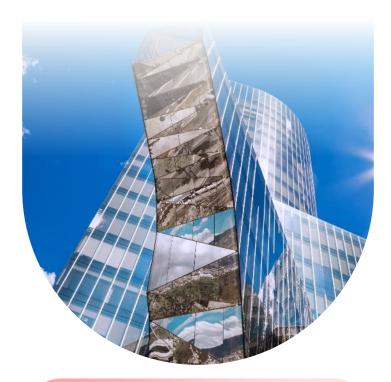
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Catalonia o Trade X Investment

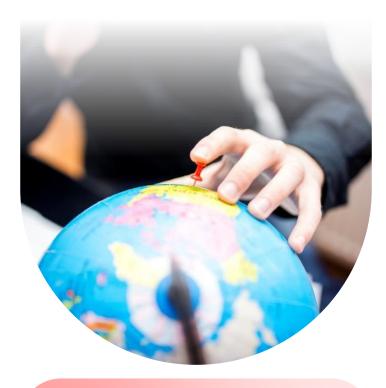


Overview of the technological and digital sector

Generalitat de Catalunya Government of Catalonia



The technological and digital sector in Catalonia



Global trends in the technological and digital sector

1. Overview of the Technological and Digital sector





Definition of the Technological and Digital sector

The **Technological and Digital sector** group all economic activity carried out by producers, consumers, including governments, based on digital goods and services, technologies and digital infrastructure and data.

Although the sector is no longer strictly limited to information and communication technologies (ICT), this continues to be its essential *core* for digital innovation.

In this study, the Technological and Digital sector means the combination of the companies included in the ICT sector and the rest of the digital segments such as video games, the audiovisual industry, e-commerce, smart cities, ICT engineering, the suppliers of 4.0 technologies and startups.

A view of the technological and digital world

ICT and Electronics

- Software providers
- Telecommunications
- Hardware providers
- Manufacturers of equipment and components
- Services and consulting

Other technological sectors

- Audiovisual
- ▶ Video games
- Smart Cities and GovTech
- **E-commerce**
- ▶ ICT Engineering
- Digital Health
- Digital Innovation hubs

4.0 technology suppliers

- Additive manufacturing AI

Connectivity

Robotics

Big data

Simulation

Cloud

- Quantum/photonics
- Deeptech

RA/RV

DLT

Other technologies

- Internet of things
- Cybersecurity
- Startups

ACCIÓ

Catalonia o

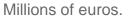
Trade & Investment

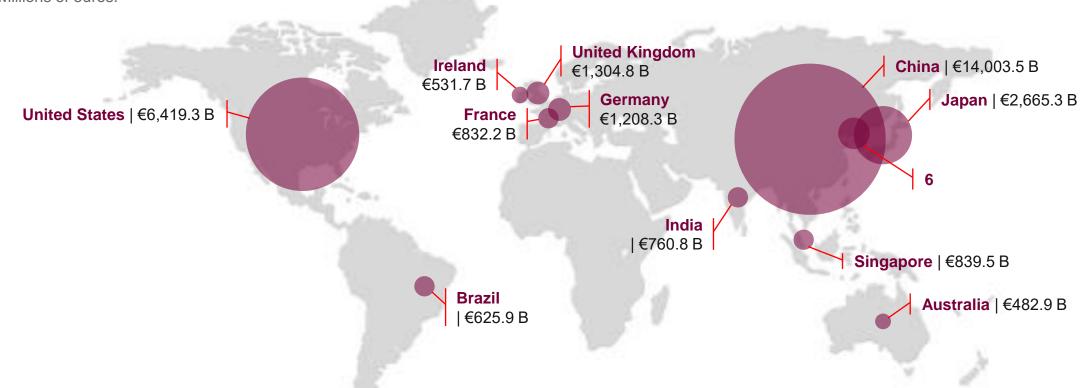


Source: ACCIÓ based on BCG, 2024; UK Government, 2024; OECD, 2024

China and the United States account for 52% of global turnover in the Technological and Digital sector

Worldwide distribution by turnover





Note: Selection of the countries with the highest turnover. Last years available. **Note:** CNAE Codes (2611, 2612, 2620, 2630, 2640, 2680, 4651, 4652, 4743, 4763, 5821, 5829, 5911, 5913, 5915, 5916, 5917, 5918, 5929, 6020, 6110, 6120, 6130, 6190, 6201, 6202, 6203, 6209, 6311, 6312, 7311, 7312, 9511, 9512)







Leading companies in the sector by turnover



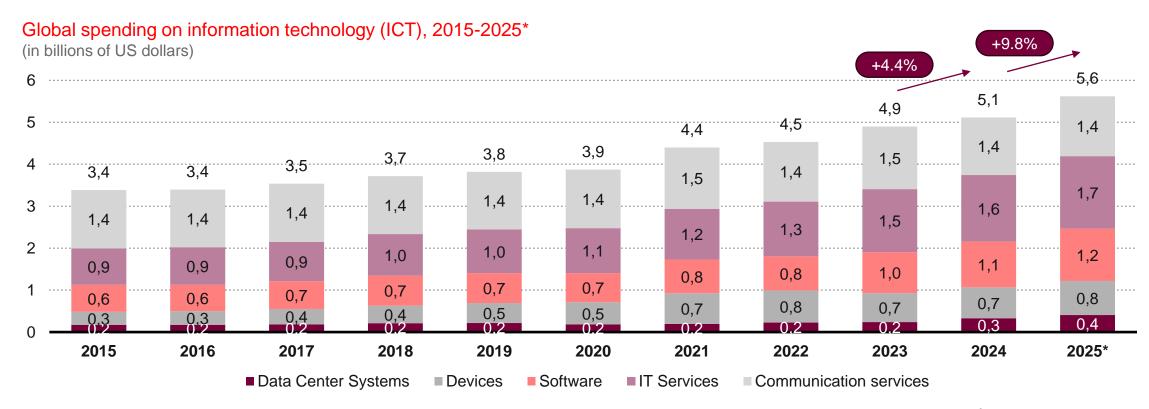
Note: Last years available. Note: CNAE codes (2611, 2612, 2620, 2630, 2640, 2680, 4651, 4652, 4743, 4763, 5821, 5829, 5911, 5913, 5915, 5916, 5917, 5918, 5929, 6020, 6110, 6120, 6130, 6190, 6201, 6202, 6203, 6209, 6311, 6312, 7311, 7312, 9511, 9512). Source: ACCIÓ, based on Orbis





Global ICT spending to reach \$5.115 billion by 2024

- ▶ This year, expenditure stands at 5.115 billion dollars in information technology worldwide, 4.4% more than last year (4.898 billion dollars).
- ▶ It is expected that next year, spending on IT will increase by 9.8%, and will reach 5.618 billion dollars.
- In 2024, the IT segment with the highest spending was **IT services**, followed by devices and software, but the segment has experienced the most significant growth has been **Data Center Systems**, a trend that is expected to continue next year.







The global technology and digital sector has more than 27,000 RDI projects

The volume of foreign investment in the audiovisual industry totaled €1,456 B in the 2020-2024 five-year period, with a total of 27,416 projects employing 3,913,553 people. Spain, with 1,112 projects received, ranks 6th in terms of world RDI destinations.

Technological and digital RDI in the world, 2020-2024*

27,416 projects **48.7%** (15-19)

1,456

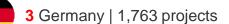
€B in investment ▲ 89.6% (15-19) **3,913,553** jobs created

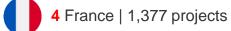
▲ 44.6% (15-19)

Countries of origin by projects









5 India | 1,204 projects

Destination countries by projects











25 leading investing countries by projects, 2019-2023



Notes: the following sectors were considered: "Business machines & equipment", "Communications", "Consumer electronics", "Electronic components", "Semiconductors" and "Software & IT services", the sub-sectors "Advertising, PR, & related" i "Semi-conductor machinery" and the activities "ICT & Internet infrastructure", "Research & Development" i "Technical Support Center"

Source: ACCIÓ, based on fDi Markets, 2025





2. The technological and digital sector in Catalonia





The technological and digital sector is a key driver for innovation and dynamism in the Catalan economy

Growing economic pillar

- The sector has a total of **24,878 companies** (mainly ICT companies), with a total turnover of **€39.6 B**, which provide **198,462** jobs.
- This accounts for 14% of Catalonia's GDP
- The sector's turnover has grown by 14% compared with the previous year and by 34% in three years.

On the global radar for technological and digital investment

- In the 2020-2024 five-year period, Catalonia received over 386 FDI projects, attracting almost €7.6 billion and creating over 28,400 jobs. The number of projects (41.1%), the capital invested (78.7%) and the number of jobs created from this RDI (166.6%) grew with respect to the previous five-year period (2015-2019).
- Catalonia is an attractive and leading location for technological and digital RDI in the world, and ranks as the 1st region in southern Europe, 4th in EU and 11th in the world in number of projects.
- The ecosystem of tech hubs in Barcelona and Catalonia continues to grow at a constant pace, reaching 160 by 2024, and companies such as Coovally, Dataxstream, Delfos Energy,

A robust ecosystem that drives innovation

- Catalonia has a **robust technological and digital ecosystem**: various associations, clusters, training centers and public organizations support companies in the sector and promote their competitiveness.
- Numerous initiatives to strengthen the Catalan ecosystem, have been implemented, such as the Generalitat's Strategies to promote the Digital Economy, the Digital Catalonia Alliance (DCA), and the Digital Innovation Hub of Catalonia (DIH4CAT).
- Barcelona is the venue of the Mobile World Congress, the most important event in the world in the field of technology and communications. The Catalan capital also hosts other important congresses for the sector, such as the ISE, the Barcelona Cybersecurity Congress and the IoT Solutions World Congress.

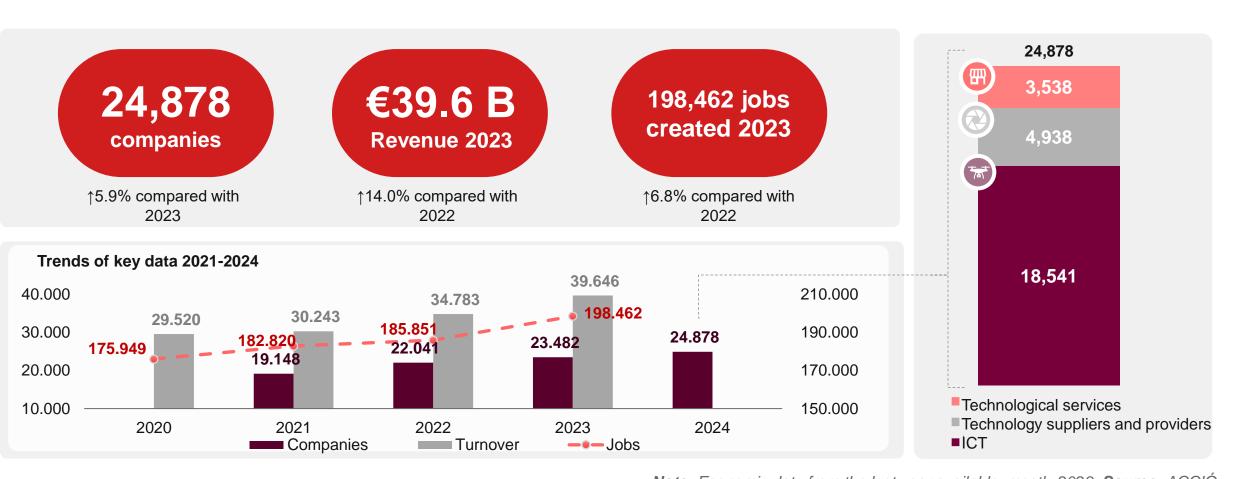
A powerful educational environment that nurtures and attracts digital talent

- The Catalan **technological and digital sector** is one of the **strongest in Europe**, thanks to some of Catalonia's main assets: **talent**, **creativity and cutting-edge technology**.
- In Catalonia there is a significant demand for university qualifications in ICT, with more than 4,000 graduates in bachelor's and master's degrees in the 2022-2023 academic year.
- Large international companies choose Catalonia for their digital talent: "Catalonia is home to many research universities with consolidated AI programs and key technological and scientific organizations" (Michael Spranger, Sony AI).





Source: ACCIÓ Catalonia Connects



Note: Economic data from the last year available, mostly 2023. Source: ACCIÓ Note: The mapping of the audiovisual sector was carried out from companies selected from the following CNAE groups; 2611, 2612, 2620, 2630, 2640, 2680, 4651, 4652, 5821, 5829, 6110, 6120, 6130, 6190, 6201, 6202, 6203, 6209, 6312, 9511, 9512, 2731, 2732, 2733 and 2790; companies from the following ACCIÓ reports are also included; audiovisual, e-commerce, engineering (ICT-related), industry 4.0, smart cities (ICT-related) and startups; companies that have more than one classification were counted only once





Key facts and figures of the audiovisual industry in Catalonia (II)

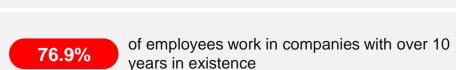


Companies				
Size 54				
Turnover				
Employees				



80.4%





province of Barcelona

of the turnover comes from companies in the



38.0% of employees work in micro-enterprises or small businesses





Half of the companies are located in the city of Barcelona

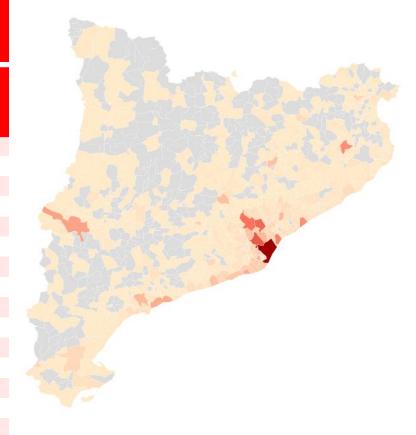
Territorial distribution

The province of

Barcelona is the great
digital hub of Catalonia,
with half of the
companies

El Barcelonès (53.9%), El Vallès Occidental (10.9%), El Baix Llobregat (7.5%) and El Maresme (4.7%) are the counties with the most companies related to the digital economy.

#	City	No. of companies	No. of companies	Diff. 2024-
		2025	2024	2025
1	Barcelona	12,378	11,699	↑679
2	Sant Cugat del Vallès	799	745	<u></u> †54
3	Sabadell	524	508	<u></u> 16
4	L'Hospitalet de Llobregat	467	444	↑23
5	Terrassa	460	437	↑23
6	Badalona	409	386	↑23
7	Girona	359	328	<u></u> †31
8	Mataró	358	338	↑20
9	Lleida	290	270	↑20
10	Tarragona	242	228	↑14
11	Castelldefels	236	219	↑17
12	Cornellà de Llobregat	230	221	∱9
13	Granollers	204	195	∱9
14	Cerdanyola del Vallès	198	195	↑3
15	Reus	195	172	↑23
	Other	7,530	7,097	↑ 43 3







Source: ACCIÓ, based on Orbis

CataloniaConnects

Mapping of deeptech startups in Catalonia













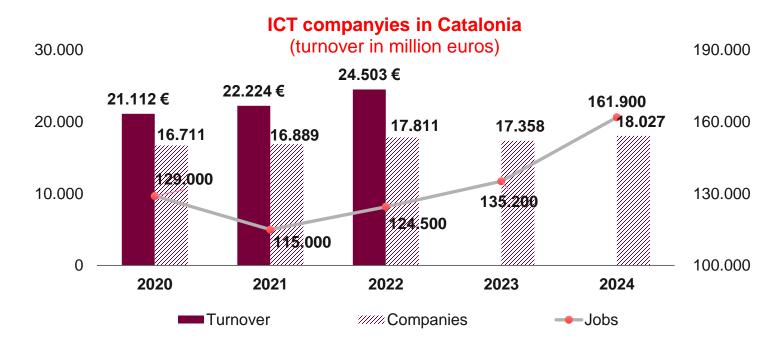


Notes: The companies are a representative sample of each category **Source:** ACCIÓ, based on Orbis

Catalonia, one of the most relevant ICT hubs in Europe.

- The number of companies in the ICT sector in Catalonia has increased by 3.9% compared to last year, higher than the increase in Spain, which rose by 3.6% from 2023. In terms of the five-year period, the number of ICT companies in Catalonia has grown by 7.9%, 3 percentage points more than Spain (4.8%).
- The Catalan ICT sector stands out in Spain, accounting for 22.8% of all companies in the sector and 21.2% of the total number of workers in Spain.
- The ICT sector's revenue has increased by 10.3% compared to last year and by 26.8% in the last 5 years. Employment in the sector has risen by 19.7% and 25.5%, respectively.









Source: Latest available data from the INE and IDESCAT

Digital areas expand the ICT sector in Catalonia



The IT sector is accompanied by digital areas that allow us to undertake the digitalization of industry and make Catalonia a smarter and more connected place.









Source: ACCIÓ
CataloniaConnects

Technology providers and suppliers in Catalonia

IRM

parlem

N neutroon

Al / Big Data

Technology providers converge and apply technologies, especially digital ones, to transform the design, manufacturing, operation and service of production systems.

Johnson Controls

E·G·□

☑ DigiProces

nprocess

Cybersecurity inetum.					
e esprinet	GRUPO EULEN	IN PANÉ			
DELL Technologies	% ayesa	LOGICALIS Architects of Change			
a⊃kcent	sopra 🔀 steria	V-Valley			
Robotics FANUC					
ABB	SIEMENS	→ TAVIL			
SALTO SALTO	FESTO	KUKA			
YASKAWA	PVL	∂ THEKER			
Immersive technologies					
EPSON	⊘ PICO	in>velon			
PIXELDREAMS Schwerker educate	Wideum	Yoy			
mentor-vr	AUMENTA SOLUTIONS	FUTURA VR STUDIO			











mow"

Cloud





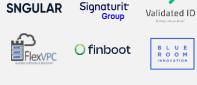
Chips and semiconductors

WUUW

LEAR.

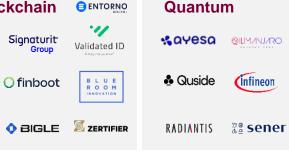


Technology suppliers



ERICSSON

DLT/blockchain







IRM





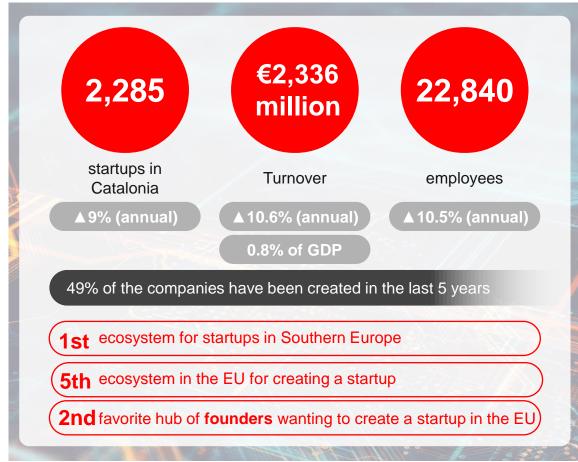


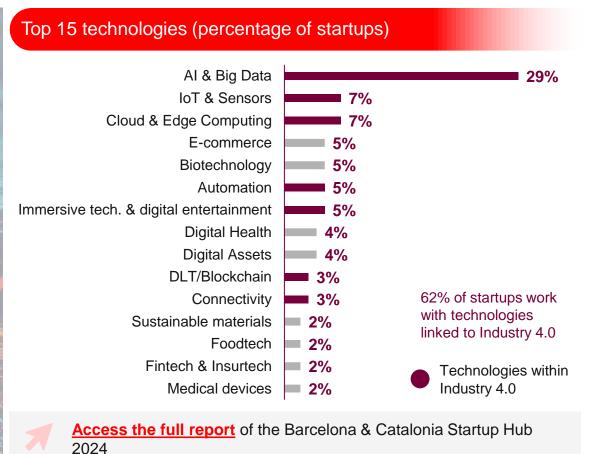
Telefónica

ADTEL

Source: ACCIÓ **Catalonia**Connects

With more than 2,200 startups, Catalonia is the No. 1 startup hub in southern Europe





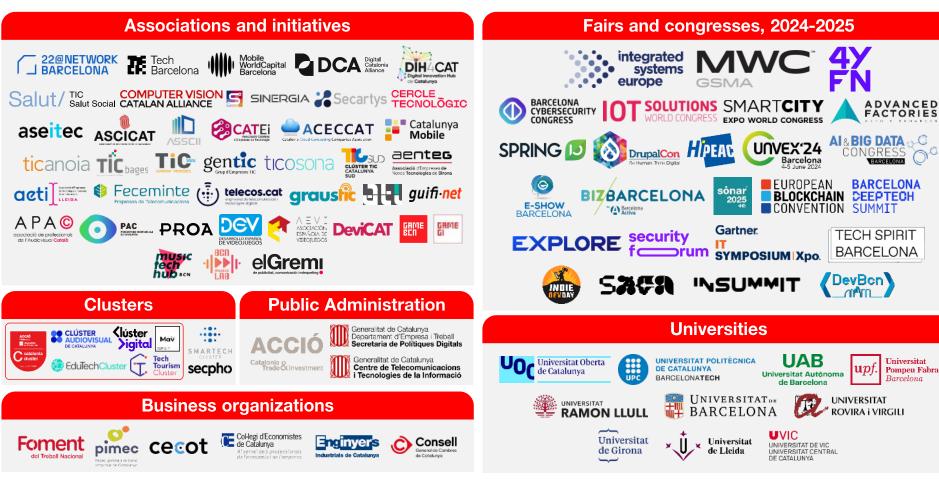
Notes: This chart has been compiled using the main technology data of each of the 2,285 startups of the Barcelona & Catalonia Startup Hub





Source: "Barcelona & Catalonia Startup Hub 2024", ACCIÓ

A robust ecosystem that supports the technological and digital sector of Catalonia





Barcelona will be the venue of the Mobile World Congress, the most important event in the world in the field of technology and communications, until 2030. Barcelona will continue to be "the world's mobile capital" for another five years, at least.



Barcelona has hosted five editions of Integrated Systems Europe, the global flagship event in the audiovisual sector and integrated systems. The 2025 edition brought together more than 85,000 attendees from 168 different countries.

Notes: partial non-exhaustive representation of some of the main actors for each of the categories of the Catalan digital ecosystem







MWC and 4YFN, events that have forged a successful alliance with Barcelona





in Barcelona, since 2006

Mobile World Congress (MWC) Barcelona

is the world's largest and most influential event in the connectivity and mobile technology industry



"MWC Barcelona [2024] has once again offered four exceptional days of debate, thought leadership, inspiration and dealmaking. Barcelona has delivered again!"

John Hoffman Managing Director, GSMA Ltd.



MWC 2024 was a record-breaking edition, with a significant impact on the local economy:

- More than 101,000 attendees from 205 countries and territories
- Over 2,700 exhibitors, sponsors and partners
- More than 59% of attendees represent sectors adjacent to the core mobile ecosystem.
- More than 1,100 speakers and opinion leaders, of whom more than 40% are women
- 51% of attendees are at management level or higher, of whom 21% are at a high level (*C-suite*)
- €502 million in economic impact, surpassing the €500 million barrier for the first time
- More than 9,200 part-time jobs created, 100 more than in the 2023 edition
- €6.3 billion contributed to the Barcelona economy and more than 160,000 part-time jobs created throughout Catalonia since 2006



The 4YFN has hosted 930 exhibitors, 450 speakers and more than 250 pitching sessions.1,000+ investors with collective funds totaling €50 billion

Source: ACCIÓ, starting with MWC Barcelona, 2025/2024; Catalonia Trade & Investment, 2024

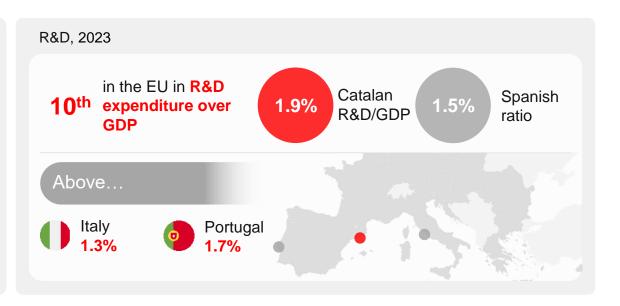




R&D and innovation, hallmarks of the Catalan business culture







Catalonia, an innovative region in both Spain and Europe

- Catalonia holds both the "strong innovator" and the "Regional Innovation Valley" labels (2023/2024)
- Catalonia has the largest number of innovative companies in Spain, accounting for 22.5% of the total (2022)
- Catalonia leads European patent applications in Spain, accounting for 34.6% of the total (2023)
- Catalonia has received more than 1,400 million euros in aid from the current Horizon Europe program 3.28% of the European total, doubling what it should receive based on its population.

Source: ACCIÓ, based on European Commission, Eurostat, Fundación Española para la Ciencia y la Tecnología (FECYT) (based on data from SciVal-SCOPUS), Horizon Dashboard, INE, The Vanguard Initiative





A powerful ecosystem of cutting-edge scientific and technological infrastructures

An extensive network of scientific and technological centers constitute the basis of the Catalan research and innovation program



Barcelona Biomedical Research Park (PRBB)

The PRBB is one of the major centers of biomedical research in southern Europe



Catalan Institute for Chemical Research (ICIQ)

ICIQ is an internationally recognized leading institution in the field of chemistry



ALBA synchrotron

Inaugurated in 2010, ALBA is a pioneering 3rd generation scientific facility and the most important of its kind in the Mediterranean

ALBA II, based on the upgrade of the current ALBA, will be a 4th generation synchrotron facility



Applus+ IDIADA

Opened in 1994, the Applus IDIADA test track is considered by many to be the best of its kind in Europe



Institute of Photonic Sciences (ICFO)

ICFO is an institution that aims to push the boundaries of photonics knowledge



MareNostrum 5 at BSC-CNS

MareNostrum 5 is a pre-exascale EuroHPC supercomputer designed to strengthen European medical research.

MareNostrum 5 is the 4th most powerful supercomputer in the EU and the 11th in the world



Source: ACCIÓ, based on TOP500, 2024; EuroHPC JU, 2023, Digital Economy and Society of Catalonia, 2022





The company: more technological and competitive thanks to developers and facilitators



ACCIO has identified, under the TECNIO label, the developers of the most innovative technologies in the RDI system of Catalonia with differential technological capabilities and the ability to transfer them to companies.

Technology centers with TECNIO accreditation related to ICT













































































Other technological centers or entities related to the ICT sector in Catalonia

















































Numerous initiatives have been implemented to strengthen the Catalan digital ecosystem



Strategies of the Generalitat de Catalunya to boost the digital economy



NewSpace strategy



5G strategy



Blockchain

Blockchain

Strategy

Quantum T.

Strategy

Al strategy



Cyber security policy



Digital Catalonia Alliance (DCA)

Alliance that brings together, provides knowledge to and guides emerging digital economic sectors to help consolidate them.

It focuses on 6 technological communities: Internet of Things (IoT), Drones, AI, NewSpace, Cybersecurity and Blockchain.

Digital Innovation Hub of Catalonia (DIH4CAT)

Regional non-profit innovation ecosystem formed by the main agents supporting the digitalization of Catalonia.

It aims to promote the technological transformation of small and medium-sized companies, technological startups and public entities.



The Digital Decade of the European Union Digital milestones for 2030

Measures that seek to promote a humancentered, safe and environmentally sustainable digital environment, as well as bridging the digital divide and guaranteeing the EU's digital sovereignty. The program is structured under 4 cardinal points:

Digital skills

Secure and sustainable digital infrastructures
Digital transformation of companies
Digitalization of public services



Notes: The Quantum Technologies Strategy of Catalonia is currently in the drafting phase Source: ACCIÓ based on the Cybersecurity Agency of Catalonia, 2025; Digital Policies, 2025; Digital Administration, 2023







Main investing countries by invested capital, 2020-2024



1 USA | €2.1 billion



5 Japan | €353 M



2 United Kingdom | €1.9 B



6 Switzerland | €151 M



3 Germany | €1.5 billion



4 France | €577 M



7 China | €150 M



8 Sweden | €110 M

Reasons for investment, 2020-2024



Availability of qualified talent | 24% of projects



Technology and innovation | 18% of projects



Proximity to markets/consumers | 15% of projects

Notes: the following sectors were considered: "Business machines & equipment", "Communications", "Consumer electronics", "Electronic components", "Semiconductors" and "Software & IT services", the sub-sectors "Advertising, PR, & related" i "Semi-conductor machinery" and the activities "ICT & Internet infrastructure", "Research & Development" i "Technical Support Center" Source: ACCIÓ, based on fDi Markets, 2025





Catalonia, on the European podium in receiving technological FDI in 2024



2020-2024

Projects
4th region
5.0% of the total

2020-2024

Invested capital

10th region

2.5% of the total

2020-2024

Jobs

3rd region 5.0% of the total

Catalonia is the 1st region in Spain, 1st in southern Europe, 4th in the European Union and 11th in the world in terms of the number of projects received between 2020 and 2024.



Technological FDI in the EU by number of jobs, 2020-2024 9 Sweden 1 Ireland 5 Warsaw 2 Romania 9 West-Nederland 7 Illa de Françe 4 Hungary 10 Bulgaria 3 Catalonia 6 Community of Madrid

Notes: the following sectors were considered: "Business machines & equipment", "Communications", "Consumer electronics", "Electronic components", "Semiconductors" and "Software & IT services", the sub-sectors "Advertising, PR, & related" i "Semiconductor machinery" and the activities "ICT & Internet infrastructure", "Research & Development" i "Technical Support Center"

Source: ACCIÓ, based on fDi Markets, 2025



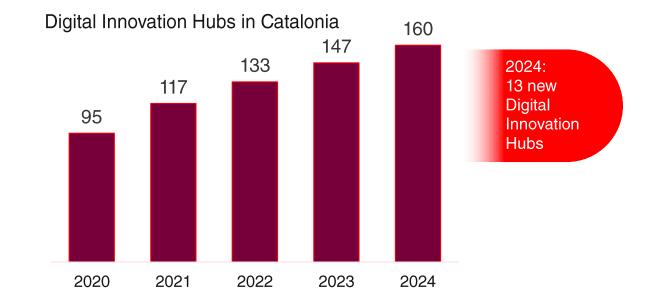


Digital Innovation Hubs if Catalonia

The installation of 13 new Digital Innovation Hubs was announced in 2024, adding to the 147 that were already operating in the territory in 2023.

This data is part of a growing trend in innovative and technological business investments in Catalonia, which in the case of Digital Hubs has accelerated in recent years.

A total of 65 Digital Innovation Hubs were set up in Catalonia between 2020 and 2024, which brings the total number of digital hubs of foreign companies to 160.



The 13 new digital hubs created **299 jobs** in 2024 and it is expected that by 2028 they will create more than 894 positions.

The economic impact of the new hubs by 2024 it is estimated at €2.9 billion per annum. The forecast for 2028 is that turnover will exceed €4 billion.

Notes: Digital Innovation Hubs are considered investments by foreign companies (whether greenfields or acquisitions, licenses, etc.) aimed at developing digital products, R&D, innovation or prototyping, which have their own team and offer global services to the entire business group or have an international scope. Those that only operate in commercial or sales value chains are excluded

Source: Tech Hubs Overview 2025, MWC-ACCIÓ-Barcelona City Council and compilation of investments made public (announced) in ACCIÓ's press releases





Features of the 160 Digital Innovation Hubs in Catalonia

Geographic origin

United States of America 24%

Germany 16%

France 12%

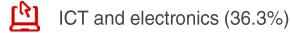
United Kingdom 9%

Switzerland 4%

Sweden 4%

The United States accounts for just under a quarter (24%) of the total Digital Hubs.

Sectoral distribution



Video games (13.1%)

Consulting and business services (9.4%)

Finance and insurance (7.5%)

Pharmaceutical industry (6.9%)

The ICT and electronics sector is the most important. The number of Digital Innovation Hubs stands at 58.

Location in Catalonia



76% of Digital Innovation Hubs are located in Barcelona. The rest of the municipalities in the metropolitan area account for another 24%.

Source: Tech Hubs Overview 2025, MWC-ACCIÓ-Barcelona City Council and compilation of investments made public (announced) in ACCIÓ's press releases





160 companies have set up Digital Innovation Hubs in Catalonia

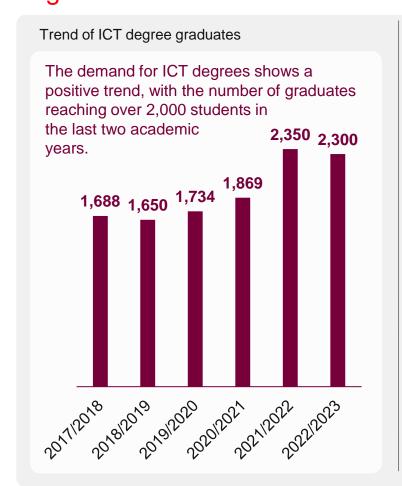


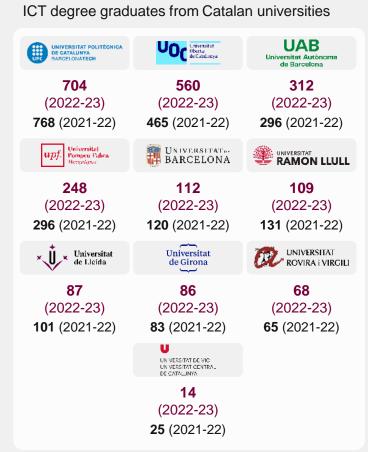




Source: ACCIÓ CataloniaConnects

The UPC leads in the number of graduates in ICT degrees, while the UOC leads in master's degrees











The number of Catalan graduates in Vocational Education and Training* in the ICT field grew by 42.4% in 2023

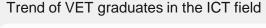
Barcelona continues to expand the education and training capacity of FP in the field of ICT. During the 2022-23 academic year, the places offered increased by 12.9% and reached a figure of more than 17,000 enrolled students.

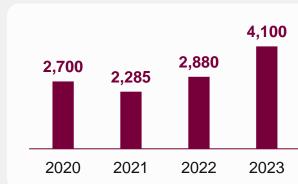
Women

Although there is still a gender gap (12.2% women), during the 2022-23 academic year, the number of women enrolled grew by 26.4% compared with the previous academic year.

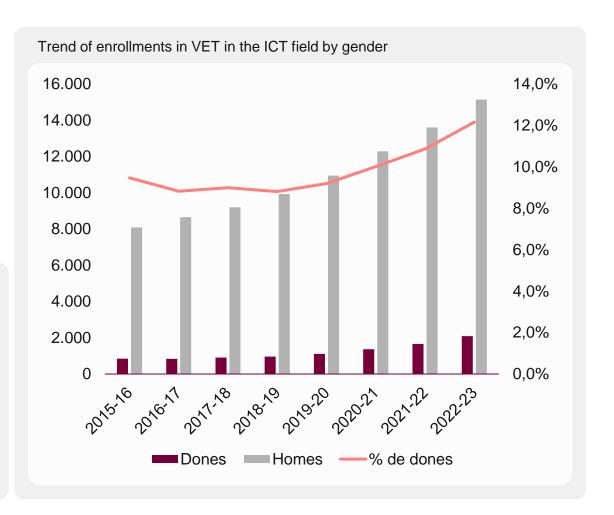
Specializations

The vocational education and training programs with the largest number of students enrolled are those in microcomputer systems and networks, software development, and cross-platform applications, and web application development.





Specialized professional training in ICT generated 4,100 graduates during the 2022-23 academic year, of whom almost 50% specialized in microcomputer systems and networks.





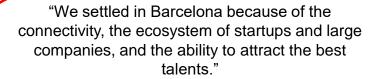
Generalitat de Catalunya
Government of Catalonia

Large international companies choose Barcelona for its availability of digital talent



"Catalonia is home to many research universities with consolidated AI programs and key technological and scientific organizations."

Michael Spranger Chairman of Sony Al



Guodong Wang

CTO, Coovally







"The city and the region have a lot to offer, the technological ecosystem is strong, the universities enjoy international prestige, and we are impressed by the diversity of profiles and the level of local talent."

Jean-Jérôme Peytavi Chairman, Dataxtream's EMEA "In Barcelona there is a large pool of qualified people."

Simon Michel CEO, Ypsomed





"Barcelona's rich technological, research, innovation and training ecosystem has been a key factor for KION Group's investment in Catalonia."

Blanca Sorigué
Managing Director, CZFB

"Barcelona and Catalonia offer sustained growth, brilliant talent and competitive advantages at low risk."



Gerard Esparducer
Head of Spain Hub at Allianz Technology





Source: ACCIÓ, based on Catalonia in Business

3. Global trends in the Technological and Digital sector





Global trends in the technological and digital sector: a field with impact across the board

Economic sphere

Business models and processes will be rethought to explore new ways to create value

The development of digital skills will be a key factor for economic growth

Digital technologies will serve the needs of the sectors and offer operational improvements

Cybersecurity will be a key element to guarantee a more resilient technological and digital sector

Industrial sphere

The concept of Industry 4.0 is a new approach that makes it possible to control production processes by providing integration and synchronization of entities and workflows within the value chain in real time. automating and valorizing the importance of data. increasing flexibility, allowing holistic and personalized manufacturing of products, and optimizing production times and resources.

Social sphere

The democratizing power of the technological and digital sector will offer opportunities to disadvantaged communities

Hyper-personalization paves the way for more individualized digital experiences

Al-based technologies will generate unprecedented connection opportunities

Unleashing the potential of data will mean a significant leap forward in people's well-being

Healthcare sphere

Digital health, understood as the development and use of digital technologies to improve health, will offer advances in the prevention, diagnosis, treatment, monitoring and management of diseases and health conditions, as well as in the monitoring and management of lifestyle habits that impact people's health. It will provide a wide range of benefits to the various actors in the ecosystem: health systems, healthcare personnel and patients.

Sustainability sphere

Al is key to driving the development of a sustainable technological and digital sector

Al's huge appetite for data has the potential to have a positive impact on the environment

Digital technologies will accelerate scientific discoveries and action against climate change

Digitalization is essential for safe, efficient, accessible and sustainable mobility

Source: ACCIÓ,, from own and Forbes reports, 2025; UNEP, 2025; EC, 2024; Digital Cooperation Organization, 2024; EY, 2024; OECD, 2024





10 technologies that will be trending in 2025



Artificial intelligence

Productivity and automation at the service of companies and users



Decarbonization

A global challenge with great opportunities



Cybersecurity

A constant challenge in an increasingly connected world



Advanced manufacturing

Innovations that drive the industry of the future



Quantum

The new frontier of technology



Semiconductors

Without semiconductors there is no innovation



New space

The democratization of outdoor space



Health technologies

Innovation that saves lives and transforms medical care



Hydrogen

Energy vector for the decarbonization of the economy



Blockchain

Security and immutability of data at the service of all







Thank you!

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