





# 1. About Catalonia Trade & Investment

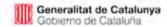






## Catalan government's agency for business competitiveness





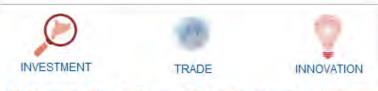
CATALONIA

Best European FDI Strategy fDi Magazine Awards by Financial Times



The Catalan Government's agency for business competitiveness. Attached to the Ministry of Business and Knowledge, it specializes in promoting business innovation and internationalization and has a network of 40 offices worldwide





Catalonia Trade & Investment's success lies in offering a pro-business approach and tailor-made solutions.

The institution offers services for international companies considering Catalonia and Barcelona as an investment location in Europe. It also offers services for expansion or for new projects for already established firms in Catalonia. It's multidisciplinary teams work in the fields of investment international commerce, and technological innovation and cooperation.

Source: ACCIO







### Catalonia has all the assets of a powerful innovation economy

A powerful industrial base



A world-class tech hub



An open trade logistics crossroads



International and local talent in a top spot to live and work



A pro-business environment









### **Spain's powerhouse**



6.3%

OF SPANISH TERRITORY

16%

OF SPANISH POPULATION



18.4%

**OF SPANISH COMPANIES** 

20%

**OF SPANISH GDP** 

25%

OF SPANISH INDUSTRY



21.5%

**OF SPANISH INNOVATIVE COMPANIES** 

28.3%

OF THE TOTAL STATE-LEVEL AID OF THE H2020

34.2%

OF EUROPEAN PATENTS IN **SPAIN** 



1<sub>ST</sub>

**REGION IN FOREIGN INVESTMENT ATTRACTION**  25.5%

**OF SPANISH EXPORTS** 

32.7%

OF SPANISH REGULAR **EXPORTING COMPANIES** 

Source: ACCIÓ based on data from Idescat, INE, EPO, CDTI and MINCOTUR







# A diversified industry, the backbone of the Catalan economy

- Industry represents 19.8% of Catalan GDP
- Manufacturing and industry related services represent 50% of the GDP.



Food and drinks

Largest industrial sector in Catalonia with 16.28% of Catalan GDP.



Chemicals and plastics

Largest chemical hub in Southern Europe.

48.7% of **Spanish** chemical exports (2009-2018).



**Automotive** and moto

19.6% **vehicles** in Spain are produced in Catalonia, an automotive industry hub.



Life sciences

World's top 7 life sciences companies have **presence** in Catalonia and 5 top pharma companies in Spain are Catalan.



The Catalan ICT sector is growing continuously. Catalonia has 16,339 ICT companies. (22.2% of Spanish ICT companies).











Source: ACCIÓ







### **EU's top startup hub**

More than 1,700 startups are located in Catalonia



### 4 unicorns in Catalonia





1.400 M€

Valuation: 1.000 M€



Adevinta

Valuation: 883 M€

Valuation: 5,600 M€

### Main rounds of investment (2016-2020)



795 M€ 2016-2018 4 rounds



122 M€ 2016-2019 5 rounds



Oct. 2019

1 round

58 M€ 2016-2019 4 rounds

POINTS



1 round



450 M€ 2016-2019 5 rounds



67 M€ 2016-2019 8 rounds

corneriob

60 M€ 2016-2017 6 rounds

paack

54 M€ 2016-2020 4 rounds

ONA 31 M€

2019-2020 2 rounds

- O More than 66.5% of start-ups work with technologies linked to Industry 4.0.
- 26% of workers and 20% of founders of the start-ups are foreign.
- 17,517 jobs related to Catalan startups.
- O In the last **5 years**, start-ups in the Catalan ecosystem have attracted € 2,800 million in private investment.

Source: ACCIÓ based on Barcelona & Catalonia Startup Hub 2020 and Dealroom. Note: Future unicorns are tech companies valued between 200,000€ and 800.000€. Unicorns are tech companies valued at more than 800.000€.







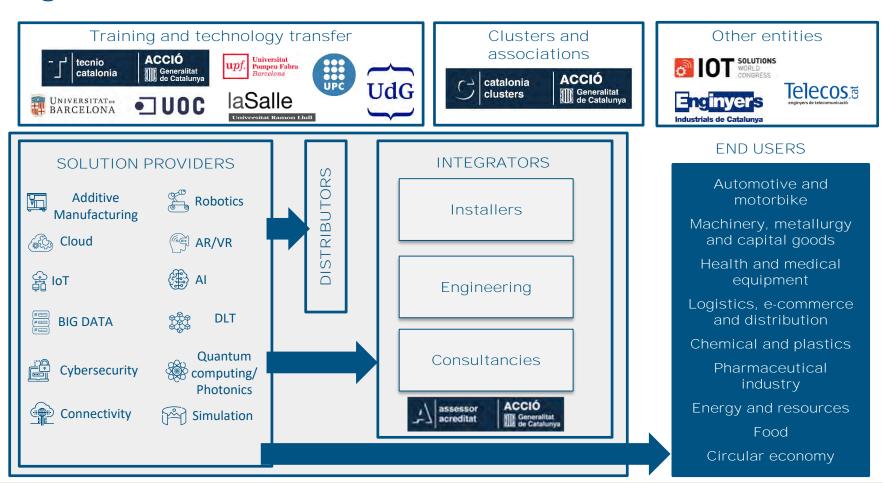
# 2. Industry 4.0 in Catalonia







# Value chain, ecosystem and map of Industry 4.0 agents in Catalonia









# Industry 4.0 in Catalonia: main mapping conclusions





1,111 companies

The companies

represent a

compared to 2017

growth

**26,394** jobs

90.1% of the total are **SMEs** 





45.5% of the companies are less than ten years old



28.5% of companies are startups

### **Degree of internationalisation:**



31.3% of the companies are exporters

### Location



55.1% of companies are located in Barcelona



**42.6%** of the companies have a turnover of more than one million euros and 15.6% have a turnover of more than ten million euros

The technology with most companies detected is cybersecurity, but the companies with the highest turnover are those focused on artificial intelligence and the Internet of Things (IoT)









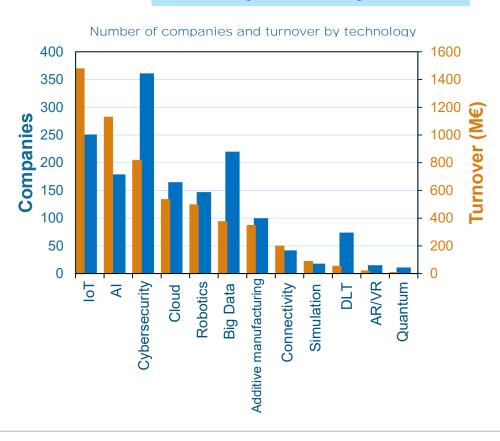
# Impact of Industry 4.0 technologies in Catalonia

Number of companies, workers and turnover of 14.0 by technology

Number of companies offering

Cybersecurity is the technology that provides the largest number of companies, but those focused on the Internet of Things (IoT) and artificial intelligence have the highest turnover.

	technology-related products/services
Cybersecurity	361
ІоТ	251
Big Data	220
Al	179
Cloud	165
Robotics	147
Additive Manufacturing	100
DLT	74
Connectivity	42
Simulation	18
AR/VR	15
Quantum computing	11
	IoT  Big Data  AI  Cloud  Robotics  Additive Manufacturing  DLT  Connectivity  Simulation  AR/VR









## Companies providing Industry 4.0 solutions in Catalonia

























Note: Partial illustrative image







## Industry 4.0 support ecosystem in Catalonia

CLUSTERS OF THE CATALONIA CLUSTER **PROGRAMME** 



### **BUSINESS ASSOCIATIONS**



### PROFESSIONAL ASSOCIATIONS



### TRADE FAIRS AND EVENTS



Note: Partial illustrative image







### TECNIO centres specialising in Industry 4.0 in Catalonia















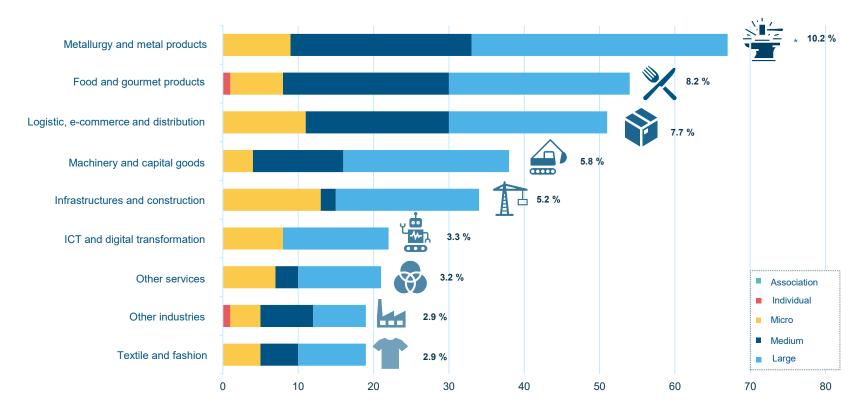
laSalle







# Sectors mostly demanding Industry 4.0 solutions in Catalonia



The **metallurgy and metal products** sector is the most demanding in the Business Competitiveness Coupons aid programme (Industry 4.0 Coupons), followed by the **food and gourmet products** and the **logistics**, **e-commerce and distribution** sectors.





Source: Own compilation based on data relating to the 660 applications for Business Competitiveness Coupons – Industry 4.0 Coupons, granted by ACCIÓ, received during 2019 and 2020





### **ACCIÓ**

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