

5G in Catalonia

5G definition: a leap in terms of connectivity

Connectivity is growing at a very high rate:

42%

increase in data traffic
between 2014 and 2019

X2

The number of connections
have doubled
between 2016 and 2020

IoT and *smart cities*

will increase device density and the need for
more bandwidth

5G technology improvements



X10

Decreased **latency**
< 1ms



X10

Connection density
Provides a more efficient signal
for IoT connectivity



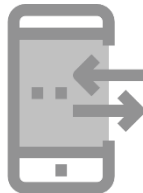
X10

Performance



X3

Efficiency
Gets more bits per Hz



X100

Traffic capacity.
Manage network
hypercensification



X100

Network efficiency.
Network **optimisation**
with more efficient
processing.

5G in Catalonia: main mapping conclusions




 38 companies

 +72.7% companies


 150 jobs



 €87.6 million






 55.26% of companies have a turnover of **more than one million euros**, whereas 44.74% have a turnover of **more than ten million euros**

Average degree of internationalisation:


 13.16% of companies have branches abroad.


 28.95% of companies are exporters.


 27.59% of the companies are less than ten years old

 55.26% of them are SMEs


 63.16% Solution developers

 15.79% Equipment manufacturers

 7.89% Integrators

 13.16% Network or infrastructure providers

The ecosystem is made up of a combination of large mature companies and start-ups, which account for **15.79%** of the sector.

Source: Acció according to Orbis, ACCIÓ and i2Cat Directories

Companies and players in the Catalan ecosystem

Partially illustrative



Catalonia's 5G strategy



5G Mediterranean Corridor



New Space Strategy



Intercontinental connection 2Africa



5G Barcelona initiative



Business cases in Catalonia

Remote Surgeon



5G Interactive City



Improving the quality of life of the elderly



Some Startups



Thank you

Moltes gràcies

dnunez@gencat.cat

ACCIÓ

Passeig de Gràcia, 129
08008 Barcelona
www.accio.gencat.cat
www.catalonia.com
[@accio_cat](https://twitter.com/accio_cat)
[@catalonia_ti](https://twitter.com/catalonia_ti)

See the full report here:

<http://www.accio.gencat.cat/ca/serveis/banc-coneixement/cercador/BancConeixement/5G-a-catalunya>

More information on the sector, news and opportunities:

<http://www.accio.gencat.cat/ca/sectors/mobile-gaming/>



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