

# Global Innovation Index 2023



## Madrid, Spain

Madrid is the top-ranked cluster, out of 2 Spanish clusters, that falls within the top 100 S&T clusters in 2023. It filed **246 PCT applications** and published **6,042 scientific articles**, both per 1 million inhabitants over the last five years, making it the:

**48<sup>th</sup>** largest science and technology cluster in 2023 (down two spots from 2022)

**82<sup>nd</sup>** S&T cluster by intensity (relative to population density) in 2023 (up two spots from 2022)

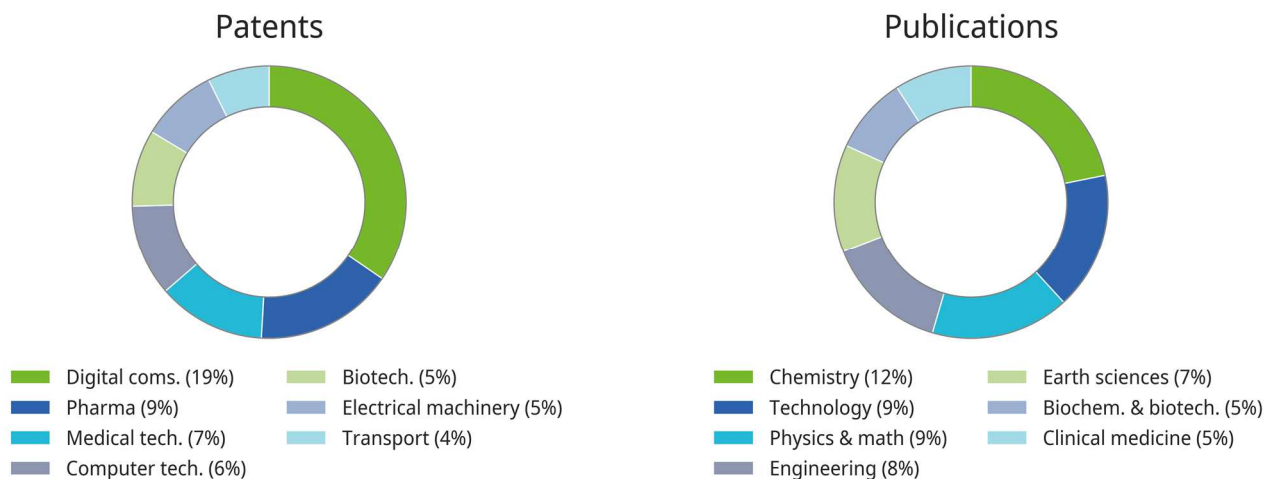
### Top PCT applicants

		Patents	Share
1	Lm Ericsson	264	17%
2	Consejo Superior de Investigaciones Cientificas (Csic)	143	9%
3	Universidad Carlos Iii de Madrid	28	2%

### Top publishing organizations

		Articles	Share
1	Complutense University of Madrid	4,786	12%
2	Autonomous University of Madrid	3,436	9%
3	Universidad Politecnica de Madrid	2,119	5%

### Top technology fields in Madrid



**28%** of Madrid's PCT patent applications are filed in collaboration with other inventors, with **Barcelona**, **Shanghai-Suzhou** and **Stockholm** emerging as the top collaborative locations.

**56%** of Madrid's scientific articles are published in collaboration with other organizations, with the top three collaborating locations being **Barcelona**, **Valencia** and **London**.