

Paris Region, an Innovation Powerhouse

Paris Region is Europe's leading R&D destination with an overall R&D spending equivalent to that of Silicon Valley. Research and Development accounts for the employment of more than 165,500 people in global R&D centers across a variety of businesses.

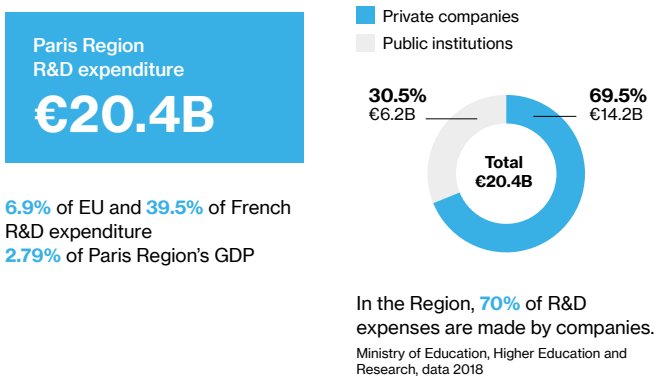
Its diversified economy is buzzing with top-ranked high-tech clusters and research centers, which generate exciting opportunities for cross-sector collaboration. Research and development in Paris Region is mainly carried out by private companies which account for two thirds of total expenditure and represent more than 85% of design-research jobs.



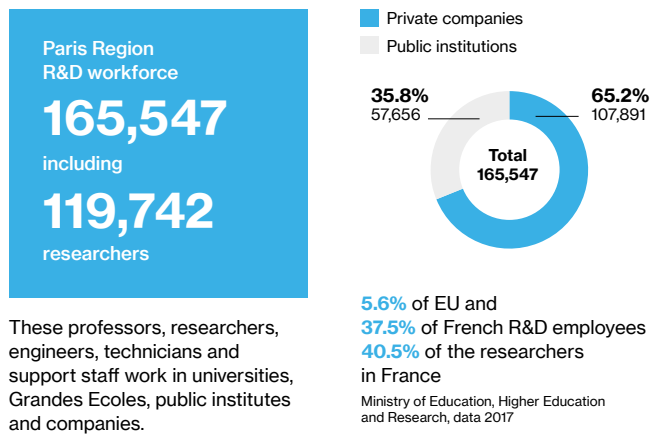
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#1 in Europe for R&D (2017/18)

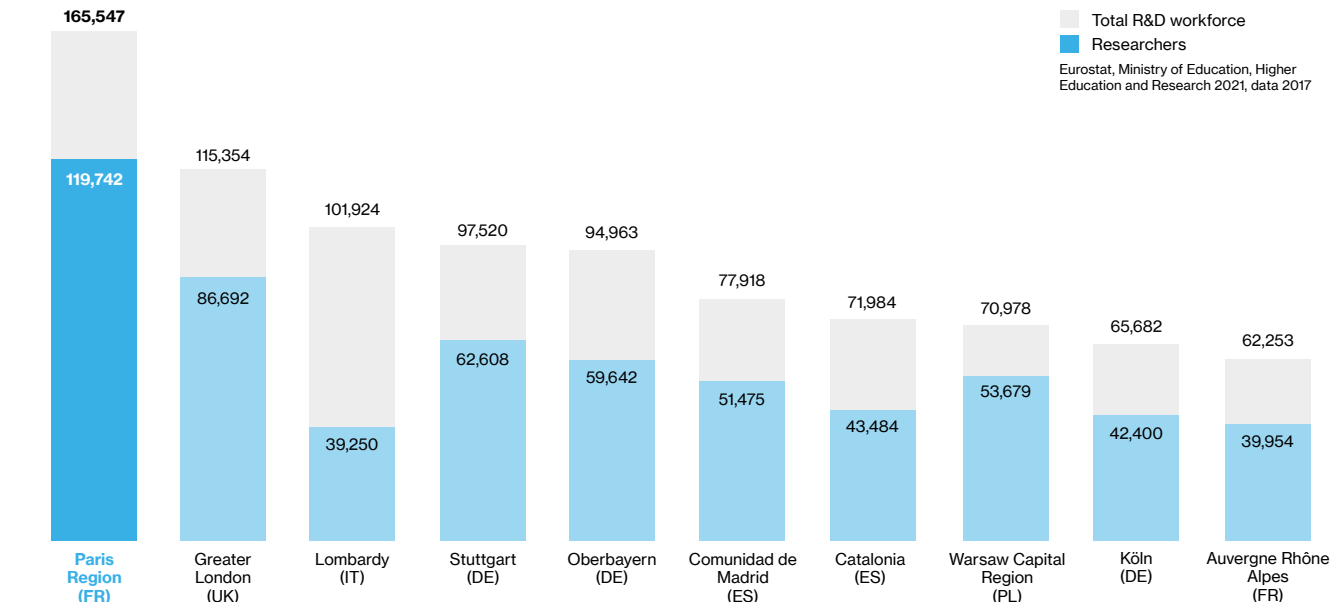
The highest amount of R&D expenditure in Europe



The largest R&D talent pool in Europe



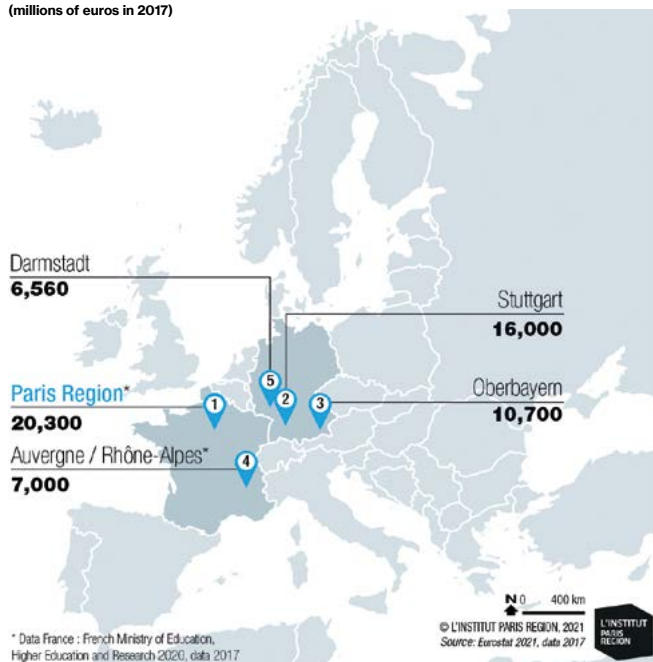
Paris Region, the best place in Europe to source R&D talent



#1

European Region for
Research & Development
Expenditure

EU28 Top 5 regions by R&D expenditure (millions of euros in 2017)



Internationally Recognized Technological and Scientific Knowledge

In terms of research, the Region's reputation is internationally recognized, and its researchers have been awarded numerous prizes and distinctions.

Paris Region is home to the highest concentration of mathematicians in the world, including many Abel Prize and Fields Medal winners.

33

Nobel Prizes

The two most prestigious
awards in mathematics

4

Abel Prizes

11

Fields Medals

At the Forefront of Innovation

Paris, European leader and **#10** largest science and technology clusters in the world according to the Global Innovation Index 2020 OMPI, 2020

Paris:

- **#2** most innovative city in Europe
- **#7** in the world, behind London (#5), and ahead of New York (#8), Seoul (#10) and Munich (#13)

Paris stands out for its:

- High number of international projects
- High volume of start-ups
- Slightly above-average R&D spending as a percentage of GDP
- Large number of international patents filed
- High level of patenting activity, particularly in the private sector
- Areas of excellence, which include transportation equipment, pharmaceuticals and biotechnology

JLL 01/2020

Patents

7,500 patents filed, i.e. **57.5%** of the patents filed in France
INPI, data 2019

Paris Region is the European leader, and accounts for **4.4%** of all European patent applications in EU 28.

In 2017, the Region's scientific output accounted for **3.7%** of European publications.

Publications

19,917 scientific publications in 2017
36,3% of the national publications.

The Region's scientific specialization is strong in mathematics, physics, human sciences and social sciences.

Paris Region: **26%** of international copublications, especially with the USA, the UK, Italy and Japan.

Hceres, OST, 2021

A Concentration of National Scientific Power

91 doctoral schools

25,012 students enrolled in doctoral programs, i.e. **37.4%** in France

Eurostat, data 2018

7,500 foreign PhD students

Ministry of Research, 2019-20

5,789 foreign researchers
40.2% of foreign researchers in France

FNAK, data 2018

The highest number of people employed in the fields of science and technology - High-Tech sectors (High-Tech manufacturing sector and high-tech and knowledge-based service sector in Europe).

Eurostat, data 2019

Presence of Major Research Infrastructures

3 out of 10 of the world's most innovative research institutions

#3 CEA Alternative Energies and Atomic Energy Commission

#8 CNRS National Center for Scientific Research

#9 INSERM National Institute of Health and Medical Research

The world's most innovative Research Institutions, Reuters, 2019

A Multidisciplinary Technological Hub at the Heart of Europe

Paris Region is renowned for its competitiveness clusters, especially in tech. From artificial intelligence to biotechnology, nanotechnology, telecommunications, AR/VR, 3D Animation, and Aerospace, businesses can plug into a fast-growing ecosystem in no time. By bringing together large corporations, SMEs, start-ups, academics and researchers, Paris Region spurs remarkable collaborations and open innovation partnerships.

8 regional competitiveness clusters make up this dynamic ecosystem.

4,904 members including:
4,023 companies
620 labs and teaching institutions

Over
2,940
including
€8B
of total funding



ASTech

Aeronautics, space and defence

299 members, incl.
• 110 major groups
• 109 SMEs
• 48 labs and teaching institutions

73 projects funded since the cluster was founded

Total funding: €313 million



Cap Digital

Digital and ecological transformation

1,032 members, incl.
• 86 major groups
• 850 SME's
• 75 labs and teaching institutions
• 12 investments funds
• 9 urban communities

810 projects funded since the cluster was founded

Total funding: €1,700 million



Cosmetic Valley

Perfumery and cosmetics

600 members, incl.
• 80 major groups
• 520 SME's
• 200 labs and teaching institutions

350 projects funded since the cluster was founded

Total funding: €450 million



Finance Innovation

Financial services

600 members, incl.
• 180 major groups
• 400 SME's
• 20 labs and teaching institutions

28 projects funded since the cluster was founded

Total funding: €1 billion (publicly and privately raised funds)



Medicen

High-tech healthcare and new therapies

493 members, incl.
• 36 major groups
• 418 SME's and startups
• 37 labs and teaching institutions

429 projects accelerated by the cluster

Total funding: €2.25 million



Next Move

Automotive and mobility industry

600 members, incl.
• 47 major groups
• 310 SME's
• 35 labs and teaching institutions
• 15 local authorities and institutional bodies

275 projects funded since the cluster was founded

Total funding: €1.2 billion



Polymeris

Rubber, plastics and composites industry

380 members, incl.
• 30 major groups
• 183 SME's
• 15 mid-caps
• 55 micro-enterprises, start-ups
• 65 labs and teaching institutions
• 32 others

350 projects funded since the cluster was founded



Systematic

European innovation and technology cluster in digital and Deep Tech

900 members, incl.
• 150 major groups
• 600 start-ups / SME's / mid-cap companies
• 140 labs and teaching institutions
• 20 investors
• 20 local authorities and institutional bodies

625 projects funded since the cluster was founded

Total funding: Over €3.18 billion

ASTech, Cap Digital, Cosmetic Valley, Finance Innovation, Medicen, NextMove, Polymeris, Systematic (data 2020)