Paris Region, an Innovation Powerhouse

Paris Region is a land of innovation recognized on a European and global scale, with an overall R&D spending equivalent to that of Silicon Valley. R&D accounts for the employment of more than 165,500 people in global R&D centers across a variety of businesses. Its diversified economy buzzes with top-ranked high-tech clusters and research centers, which generate exciting opportunities for cross-sector collaborations. Mainly carried out by private companies, R&D in Paris Region accounts for two-thirds of total expenditure and represents more than 85% of design-research jobs.

#1 in Europe for R&D

The highest amount of R&D expenditure in Europe

- Paris Region R&D expenditure: €21.3 Bn
  - 5.3% of EU27 and 40.2% of French R&D expenditure
  - 2.87% of Paris Region’s GDP

- 42.3% of R&D expenses made by private companies in France
- 36.1% of R&D expenses made by public institutions in France

The largest R&D talent pool in Europe

- Paris Region R&D workforce: 165,547 including 119,742 researchers
  - R&D talent such as professors, researchers, engineers, technicians and support staff work in universities, Grandes Écoles, public institutes and companies.
  - 5.6% of EU and 37.5% of French R&D employees

Paris Region, Greater London, and the best place in Europe to source Scientists and Engineers

- Paris Region: 632,100
- Greater London: 619,500
- Comunidad de Madrid: 341,300
- Catalonia: 292,200
- Auvergne-Rhône-Alpes: 290,400
- Oberbayern: 282,600
- Lomardia: 240,800
- Stuttgart: 200,000
- Zuid-Holland: 190,000
- Berlin: 176,000

Eurostat, Scientists and engineers, 09/2021, data 2020, NUTS 2 (Greater London = Inner + Outer London)
EU28 Top 5 regions by R&D expenditure
(millions of euros in 2019)

At the Forefront of Innovation
Paris is ranked at Europe’s #1 and
the world’s #10 largest science
and technology clusters according
to the Global Innovation Index
2021
Cornell University, INSEAD, WIPO, 2021

Paris:
• #1 most innovative city in
Europe
• #7 in the world, ahead of
London (#9), Berlin (#18),
Munich (#21) and Helsinki
(#24) in Europe

Paris stands out for its:
• High number of international
projects
• High volume of start-ups
• 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, Innovation Geographies, 2020, 2022

Internationally Recognized Technological
and Scientific Knowledge
In terms of research, the Region’s
reputation is internationally
renowned, with researchers
having been recognized with
numerous prizes and distinctions.

33 Nobel Prizes
4 Abel Prizes
11 Fields Medals

A Concentration of National Scientific Power
102 doctoral schools
20,264 students enrolled in
doctoral programs, i.e. 31.5% in
France

7,431 foreign PhD students
Ministry of Education, Higher Education and
Research 2019-2020

5,789 foreign researchers
40.2% of foreign researchers
in France
INPI, data 2020

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

Presence of Major Research Infrastructures
2 out of 3 of European most
innovative research institutions
#1 CNRS National Center for Scientific Research
#3 CEA Alternative Energies and
Atomic Energy Commission
#12 INSERM National Institute of
Health and Medical Research
European Research Ranking, 2020

The CNRS National Center for
Scientific Research holds top
international rankings
• #2 in Scimago Institutions
Rankings
• #4 in the Nature Index
• #3 most visible research
institutions on the Web
• #6 largest patent filer in France
• #8 most innovative public
research institution
• 33,000 people dedicated to
research in France
• 1,144 research laboratories in
France and abroad

H2020, OST, 2021

Patents
7,614 patents filed, i.e
61.6% of the patents
filed in France
INPI, data 2020

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
34.5% of the national
publications.

The highest number of scientists
and engineers, of people
employed in Technology and
Knowledge-intensive sectors, in
science and technology
Eurostat, 2021, data 2020

The Region specializes in
mathematics, physics, human and
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A Multidisciplinary Technological Hub in 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.

### ASTech
Aeronautics, space and defence
- 306 members, incl.
  - 109 major groups
  - 117 SMEs
  - 48 labs and teaching institutions
- 73 projects funded since the cluster was founded
Total funding: €313 M

### Cap Digital
Digital and ecological transformation
- 904 members, incl.
  - 71 major groups
  - 752 SMEs
  - 63 labs and teaching institutions
  - 12 investments funds
  - 7 urban communities
- 828 projects funded since the cluster was founded
Total funding: €1.75 Bn

### Cosmetic Valley
Perfumery and cosmetics
- 510 members, incl.
  - 42 major groups
  - 427 SME’s and startups
  - 200 labs and teaching institutions
  - 47 projects accelerated by the cluster
- 350 projects funded since the cluster was founded
Total funding: €450 M

### Finance Innovation
Financial services
- 600 members, incl.
  - 180 major groups
  - 400 SMEs
  - 20 labs and teaching institutions
- 28 projects funded since the cluster was founded
Total funding: €1 Bn (publicly and privately raised funds)

### Medicen
High-tech healthcare and new therapies
- 510 members, incl.
  - 42 major groups
  - 427 SME’s and startups
  - 34 labs and teaching institutions
- 470 projects accelerated by the cluster
Total funding: €2.30 M

### Next Move
Automotive and mobility industry
- 570 members, incl.
  - 106 major groups
  - 332 SME’s
  - 88 labs and teaching institutions
  - 17 partners or private institutions
- 306 projects funded since the cluster was founded
Total funding: €1.6 Bn

### Polymeris
Rubber, plastics and composites industry
- 546 members, incl.
  - 43 major groups
  - 191 SME’s
  - 25 mid-caps
  - 73 micro-enterprises, start-ups
  - 101 research centers, universities or training organizations
  - 13 regional governments or institutional bodies
  - 99 others
- 350 projects funded since the cluster was founded
Total funding: Over €3.18 Bn

### 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 Bn

ASTech, Cap Digital, Cosmetic Valley, Finance Innovation, Medicen, NextMove, Polymeris, Systematic (data 2021)