

Expenditure on internal R&D by execution sector. 2021

Execution sector	Millions of euros	%	Expenditure on internal R&D (% GDP).	Inter-annual variation ¹ %
Total	17,249.2	100.0	1.43	
Companies and NPPI*	9,752.2	56.5	0.81	
Higher education	4,587.0	26.6	0.38	9.2
Public administration	2,910.0	16.9	0.24	5.7

¹ Due to the change in methodology caused by the new statistics concept involving Enterprises, the sector indicators are not comparable with those of previous years.
* Private non-profit institutions.

R&D constitutes 1.43% of the GDP

According to the Statistic on scientific research and technological development (R&D) activities, the internal expenditure in research and development was estimated at 17,249.2 million euros in 2021. In relative terms, this expenditure represented 1.43% of the Gross Domestic Product (GDP), or 363.7 euros per average inhabitant.

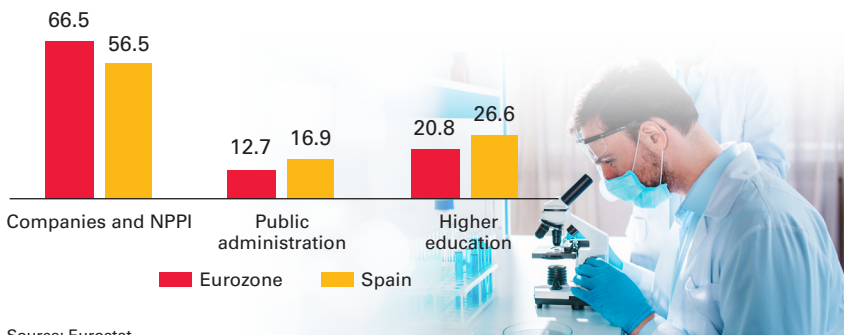
In 2021, a total of 56.5% of the research and development expenditure was done by the Companies and NPPI sector, while the Eurozone averaged at 66.5%.

22.6% of companies in the industry are innovative

The Business Innovation Survey estimates total expenditure on innovative activities in 2020 at 17,074 million euros; 11.9% more than the previous year. The largest portion of the expenses corresponds to Services (53.1%), although the Industry sector has the highest number of innovative companies (32.9%).

In the 2018-2020 period, 22.6% of Spanish companies were innovative.

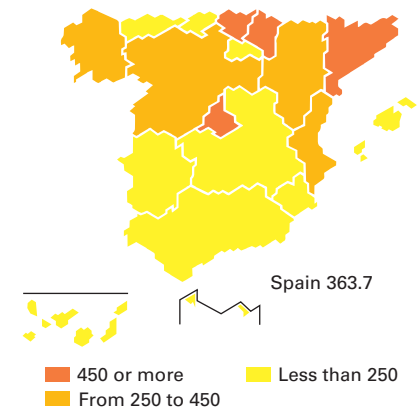
Distribution of internal R&D expenditure by execution sector. 2021



Source: Eurostat

R&D expenses per inhabitant. 2021

Euros



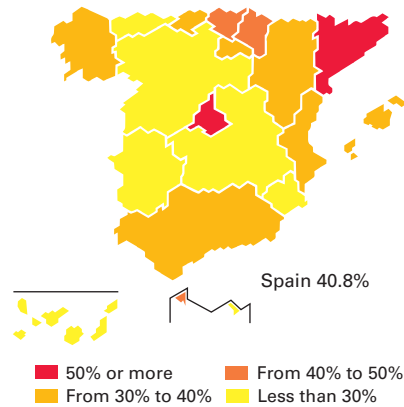
R&D spending. 2021

	% of GDP
European Union	2.3
Sweden	3.4
Austria	3.2
Belgium	3.2
Germany	3.1
Finland	3.0
Denmark	2.8
Netherlands	2.3
France	2.2
Slovenia	2.2
Czechia	2.0
Estonia	1.8
Portugal	1.7
Hungary	1.6
Italy	1.5
Greece	1.4
Poland	1.4
Spain	1.4
Croatia	1.3
Lithuania	1.1
Ireland	1.1
Luxembourg	1.0
Slovakia	1.0
Cyprus	0.9
Bulgaria	0.8
Latvia	0.7
Malta	0.7
Romania	0.5

Source: Eurostat

Teleworking in companies of 10 employees or more

First quarter of 2022.
% companies



Companies with a very low index of Digital Maturity*. 2021

	%
European Union	44
Sweden	14
Finland	18
Denmark	20
Netherlands	24
Malta	27
Cyprus	33
Belgium	34
Ireland	35
Austria	35
Italy	39
Germany	40
Spain	40
Lithuania	42
Slovenia	44
Estonia	45
Luxembourg	45
Czechia	46
Portugal	47
Croatia	49
France	52
Slovakia	56
Poland	58
Greece	61
Latvia	61
Hungary	64
Bulgaria	74
Romania	77

* All companies, except the finance sector (10 or more payroll employees and self-employed workers). Version 3 of the Eurostat index.

Source: Eurostat

Use of ICT in companies with 10 or more employees¹

% companies. First quarter of 2022

	Total	Industry	Construction	Services
Personnel using computers for business purposes	66.1	57.7	54.9	70.8
Personnel using computers connected to the internet for business purposes	61.1	50.7	51.3	66.5
Companies employing ICT specialists	17.2	13.7	6.0	22.0
Companies with internet connection of which:	98.3	98.4	98.2	98.3
Internet connection and website/page*	78.5	80.1	67.3	80.7
Use digital signature*	67.3	64.3	56.3	71.7

1. This year, the new company concept is being applied in the Survey, which means the data from 2021-2022 is not strictly comparable to that of other years.

* Percentage over total companies with an Internet connection.

17.2% of companies employ ICT specialists

66.1% of employees at companies with 10 or more workers use computers for business purposes, and 61.1% use computers that have an Internet connection. A total of 17.2% of companies have Information and Communications Technology (ICT) specialists.

Those companies located in Cataluña, the Comunidad de Madrid and the País Vasco display the highest degree of ICT use in the first quarter of 2022.

E-commerce sales account for 20% of invoicing

A total of 31.6% of companies with 10 or more employees made sales via e-commerce in 2021. Turnover generated by these sales reached 313,512.9 million euros, accounting for 20.0% of overall sales.

Companies which sell via e-commerce. 2021 (%)

