

Relative to EU in base year • Relative to EU in same year

**Structural differences** with the EU are shown in the table below including, compared to the EIS 2020, new information on different types of (innovating) enterprises (Innovation profiles) and environmental indicators.

	FR	EU
Performance and structure of the economy		
GDP per capita (PPS)	32,300	
Average annual GDP growth (%)	-3.7	-2.5
Employment share Manufacturing (NACE C) (%)	11.8	16.5
of which High and Medium high-tech (%)	35.7	37.9
Employment share Services (NACE G-N) (%)	41.2	41.2
of which Knowledge-intensive services (%)	38.4	35.1
Turnover share SMEs (%)	29.1	36.5
Turnover share large enterprises (%)	52.2	45.7
Foreign-controlled enterprises – share of value added (%)	7.1	11.8
Business and entrepreneurship		
Enterprise births (10+ employees) (%)	0.5	1.0
Total Entrepreneurial Activity (TEA) (%)	5.0	6.7
FDI net inflows (% GDP)	1.8	2.0
Top R&D spending enterprises per 10 million population	16.7	16.2
Buyer sophistication (1 to 7 best)	4.1	3.7
Innovation profiles		
In-house product innovators with market novelties	20.2	10.7
In-house product innovators without market novelties	6.2	12.3
In-house business process innovators	8.9	11.0
Innovators that do not develop innovations themselves	12.0	11.6
Innovation active non-innovators	3.8	3.3
Non-innovators with potential to innovate	12.9	19.9
Non-innovators without disposition to innovate	36.0	31.3
Governance and policy framework		
Ease of starting a business (0 to 100 best)	76.5	76.5
Basic school entrepreneurial education and training	1.7	2.0
Govt. procurement of advanced tech. products	3.8	3.5
Rule of law (-2.5 to 2.5 best)	1.4	1.1
Climate change indicators		
Circular material use rate	19.5	11.7
Greenhouse gas emissions intensity of energy consumption	81.4	86.6
Eco-Innovation Index	107.0	100.0
Demography		
Population size	67.2	446.7
Average annual population growth (%)	0.2	0.1
Population density	105.9	108.8

France's strengths are in *Human resources, Finance and support* and *Attractive research systems.* The top-3 indicators include Foreign doctorate students, Lifelong learning, and Government support for business R

The recent decline in innovation performance is due to reduced performance on Doctorate graduates, Enterprises providing ICT training, Business process innovators, Trademark and Design applications, Employment in innovative enterprises, Sales of innovative products, and Environment-related technologies.

France has an above average share of In-house product innovators with market novelties and is showing above average scores on the Climate change related indicators.

France         EU 2021 no         2014 no         2021           SUMMARY INNOVATION INDEX         108.7         117.2         122.3           Human resources         113.0         123.0         100.0           Population with tertiary education         155.8         169.4         2008           Lifelong learning         187.9         194.4         206.7           Attractive research systems         116.4         139.3         88.4           Foreign doctorate students         205.2         263.2         243.7           Digtalisation         85.1         97.2         117.6           Broadband penetration         75.2         949         110.0           Propie with above basic overall digital skills         100.0         122.2           Finance and support         150.0         158.2         178.7           R&D expenditures in the public sector         98.2         100.0         94.7           Venture capital expenditures         56.9         52.3         64.7           Innovation expenditures         90.0         97.0         108.7           R&D expenditure in the business sector         98.5         10.94         10.94           Non-R&D Innovation expenditures         56.9         52.3 <t< th=""><th></th><th><b>Relative to</b></th><th colspan="3">tive to Relative to EU</th></t<>		<b>Relative to</b>	tive to Relative to EU		
SUMMARY INNOVATION INDEX         108.7         117.2         122.3           Human resources         148.6         155.3         157.5           Doctorate graduates         113.0         123.0         100.0           Population with tertiary education         155.8         169.4         200.8           Lifelong learning         187.9         194.4         206.7           Attractive research systems         116.4         133.3         131.0           International scientific co-publications         85.9         96.7         112.6           Most cited publications         85.1         97.2         117.7           Broadband penetration         75.2         94.9         114.0           People with above basic overall digital skills         100.0         100.0         122.2           Finance and support         150.0         158.2         178.7           R&D expenditures in the public sector         98.2         100.0         94.7           Venture capital expenditures         56.9         52.3         64.7           Innovation expenditures         90.0         97.0         108.7           Non-R&D Innovation expenditures         56.9         52.3         64.7           Innovators         105.1	France	EU 2021 in	2014 in		
Human resources         148.6         155.3         157.5           Doctorate graduates         113.0         123.0         100.0           Population with tertiary education         155.8         169.4         200.8           Lifelong learning         187.9         194.4         206.7           Attractive research systems         116.4         139.3         88.4           International scientific co-publications         85.9         96.7         112.6           Most cited publications         89.9         103.3         88.4           Foreign doctorate students         205.2         269.3         243.7           Digitalisation         85.1         97.2         117.7           Broadband penetration         75.2         94.9         114.0           People with above basic overall digital skills         1000         1000         122.2           R&D expenditures in the public sector         98.2         100.0         94.7           Venture capital expenditures         56.9         52.3         64.7           Innovation expenditures per employee         104.4         120.3         137.8           Vse of information technologies         90.5         105.6         144.6           Innovation expenditures per employee		2021	2014	2021	
Doctorate graduates         113.0         123.0         100.0           Population with tertiary education         155.8         169.4         200.8           Lifelong learning         187.9         194.4         206.7           Attractive research systems         116.4         139.3         131.0           International scientific co-publications         89.9         103.3         88.4           Foreign doctorate students         205.2         269.3         243.7           Digitalisation         85.1         97.2         117.7           Broadband penetration         75.2         94.9         114.0           People with above basic overall digital skills         100.0         100.0         122.2           Finance and support         150.0         158.2         178.7           R&D expenditures in the public sector         98.2         100.0         94.7           Venture capital expenditures         56.9         52.3         64.7           Innovation expenditures per employee         104.4         120.3         137.8           Use of information technologies         90.3         103.6         104.4           Innovators         105.1         118.2         143.6           Product innovators (SMEs)         <	SUMMARY INNOVATION INDEX	108.7	117.2	122.3	
Population with tertiary education         155.8         169.4         200.8           Lifelong learning         187.9         194.4         206.7           Attractive research systems         116.4         139.3         131.0           International scientific co-publications         85.9         96.7         112.5           Most cited publications         85.9         96.7         112.5           Most cited publications         85.9         96.7         112.5           Digitalisation         85.1         97.2         117.7           Broadband penetration         75.2         94.9         114.0           People with above basic overall digital skills         100.0         100.0         122.2           Finance and support         150.0         158.2         178.7           R&D expenditures in the public sector         98.2         100.0         94.7           Venture capital expenditures         56.9         52.3         64.7           Innovation expenditures per employee         104.4         120.3         137.8           Non-R&D Innovation expenditures         96.7         106.7         66.7           Innovators         105.1         118.2         143.8           Product innovators (SMEs)         9	Human resources	148.6	155.3	157.5	
Lifelong learning       187.9       194.4       206.7         Attractive research systems       116.4       139.3       131.0         International scientific co-publications       85.9       96.7       112.6         Most cited publications       205.2       269.3       243.7         Foreign doctorate students       205.2       269.3       243.7         Digitalisation       85.1       97.2       114.0         People with above basic overall digital skills       100.0       100.0       122.2         Finance and support       150.0       158.2       178.7         R&D expenditures in the public sector       98.2       100.0       94.7         Venture capital expenditures       174.1       192.7       292.8         Government support for business R&D       184.4       120.3       137.8         Venture capital expenditures per employee       104.4       120.3       137.8         Innovation expenditures per employee       104.4       120.3       137.8         Use of information technologies       90.3       103.6       104.4         Innovators       105.1       118.2       143.8         Innovators       105.1       118.2       143.8         Innovators <td>Doctorate graduates</td> <td>113.0</td> <td>123.0</td> <td>100.0</td>	Doctorate graduates	113.0	123.0	100.0	
Attractive research systems         116.4         139.3         131.0           International scientific co-publications         85.9         96.7         112.6           Most cited publications         89.9         103.3         88.4           Foreign doctorate students         205.2         269.3         243.7           Digitalisation         85.1         97.2         117.7           Broadband penetration         75.2         94.9         114.0           People with above basic overall digital skills         100.0         102.2         278.7           R&D expenditures in the public sector         98.2         100.0         94.7           Venture capital expenditures         174.1         192.7         292.8           Government support for business R&D         184.4         213.4         213.4           Firm investments         90.0         97.0         108.7           R&D expenditure in the business sector         98.6         109.4         109.4           Non-R&D Innovation expenditures         56.9         52.3         64.7           Innovation expenditures per employee         104.4         120.3         137.8           Use of information technologies         90.3         103.6         104.4           I	Population with tertiary education	155.8	169.4	200.8	
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Most cited publications89.9103.388.4Foreign doctorate students205.2269.3243.7Digitalisation85.197.2117.7Broadband penetration75.294.9114.0People with above basic overall digital skills100.0100.0122.2Finance and support150.0158.2178.7R&D expenditures in the public sector98.2100.094.7Venture capital expenditures174.1192.7292.8Government support for business R&D184.4213.4213.4Firm investments90.097.0108.7R&D expenditure in the business sector98.6109.4109.4Non-R&D Innovation expenditures56.952.364.7Innovation expenditures per employee104.4120.3137.8Use of information technologies90.3100.6144.6Innovators110.7100.0147.6Innovators111.6101.4161.7Business process innovators (SMEs)96.2133.0128.0Innovative SMEs collaborating with others110.3135.4161.7Public-private co-publications113.0125.2126.7Job-to-job mobility of HRST116.1100.677.8PCT patent applications64.778.868.0Design applications70.277.848.1Employment in knowledge-intensive activities113.4110.7124.0Employment in knowledge-intensive	Attractive research systems	116.4	139.3	131.0	
Foreign doctorate students         205.2         269.3         243.7           Digitalisation         85.1         97.2         117.7           Broadband penetration         75.2         94.9         114.0           People with above basic overall digital skills         100.0         122.2           Finance and support         150.0         158.2         178.7           R&D expenditures in the public sector         98.2         100.0         94.7           Venture capital expenditures         174.1         192.7         292.8           Government support for business R&D         184.4         213.4         213.4           Firm investments         90.0         97.0         108.7           R&D expenditure in the business sector         98.6         109.4         109.4           Non-R&D Innovation expenditures         56.9         52.3         64.7           Innovation expenditures per employee         104.4         120.3         137.8           Use of information technologies         90.3         108.6         109.4           Innovators         SMEs)         116.5         106.7         66.7           Innovators         SMEs)         113.5         118.2         143.8           Product innovators (SMEs)<	International scientific co-publications	85.9	96.7	112.6	
Digitalisation         85.1         97.2         117.7           Broadband penetration         75.2         94.9         114.0           People with above basic overall digital skills         100.0         122.2           Finance and support         150.0         158.2         178.7           R&D expenditures in the public sector         98.2         100.0         94.7           Venture capital expenditures         174.1         192.7         292.8           Government support for business R&D         184.4         213.4         213.4           Firm investments         90.0         97.0         108.7           R&D expenditure in the business sector         98.6         109.4         109.4           Non-R&D Innovation expenditures         56.9         52.3         64.7           Innovation expenditures per employee         104.4         120.3         137.8           Use of information technologies         90.3         106.7         66.7           Employed ICT specialists         110.7         100.0         147.6           Innovators (SMEs)         114.6         101.4         161.7           Business process innovators (SMEs)         96.2         133.0         128.0           Innovative SMEs collaborating with others <td>Most cited publications</td> <td>89.9</td> <td>103.3</td> <td>88.4</td>	Most cited publications	89.9	103.3	88.4	
Braadband penetration         75.2         94.9         114.0           People with above basic overall digital skills         100.0         100.0         122.2           Finance and support         150.0         158.2         178.7           R&D expenditures in the public sector         98.2         100.0         94.7           Venture capital expenditures         174.1         192.7         292.8           Government support for business R&D         184.4         213.4         213.4           Firm investments         90.0         97.0         108.7           R&D expenditure in the business sector         98.6         109.4         109.4           Non-R&D Innovation expenditures         56.9         52.3         64.7           Innovation expenditures per employee         104.4         120.3         137.8           Use of information technologies         90.3         106.7         66.7           Innovators         100.0         147.6         100.0         147.6           Innovators         105.1         118.2         143.8           Noncettrinnovators (SMEs)         113.5         119.0         135.0           Innovative SMEs collaborating with others         110.3         125.2         126.7 <t< td=""><td>Foreign doctorate students</td><td>205.2</td><td>269.3</td><td>243.7</td></t<>	Foreign doctorate students	205.2	269.3	243.7	
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Finance and support         150.0         158.2         178.7           R&D expenditures in the public sector         98.2         100.0         94.7           Venture capital expenditures         174.1         192.7         292.8           Government support for business R&D         184.4         213.4         213.4           Firm investments         90.0         97.0         108.7           R&D expenditure in the business sector         98.6         109.4         109.4           Non-R&D Innovation expenditures         56.9         52.3         64.7           Innovation expenditures per employee         104.4         120.3         137.8           Use of information technologies         90.3         100.6         166.7           Employed ICT specialists         110.7         100.0         147.6           Innovators         196.2         133.0         128.0           Innovators (SMEs)         114.6         101.4         161.7           Business process innovators (SMEs)         96.2         133.0         128.0           Innovative SMEs collaborating with others         110.3         135.4         161.7           Public-private co-publications         113.0         125.2         126.7           Job-to-job mobil	Broadband penetration	75.2	94.9	114.0	
R&D expenditures in the public sector       98.2       100.0       94.7         Venture capital expenditures       174.1       192.7       292.8         Government support for business R&D       184.4       213.4       213.4         Firm investments       90.0       97.0       108.7         R&D expenditure in the business sector       98.6       109.4       109.4         Non-R&D Innovation expenditures       56.9       52.3       64.7         Innovation expenditures per employee       104.4       120.3       137.8         Use of information technologies       90.3       105.6       104.4         Enterprises providing ICT training       66.7       106.7       66.7         Innovators       100.1       110.0       147.6         Innovators       105.1       118.2       143.8         Product innovators (SMEs)       114.6       101.4       161.7         Business process innovators (SMEs)       96.2       133.0       128.0         Innovative SMEs collaborating with others       110.3       135.4       161.7         Public-private co-publications       113.0       125.2       126.7         Job-rojon mobility of HRST       116.1       102.6       166.7         <	People with above basic overall digital skills	100.0	100.0	122.2	
Venture capital expenditures       174.1       192.7       292.8         Government support for business R&D       184.4       213.4       213.4         Firm investments       90.0       97.0       108.7         R&D expenditure in the business sector       98.6       109.4       109.4         Non-R&D Innovation expenditures       56.9       52.3       64.7         Innovation expenditures per employee       104.4       120.3       137.8         Use of information technologies       90.3       106.7       66.7         Employed ICT specialists       110.7       100.0       147.6         Innovators       105.1       118.2       143.8         Product innovators (SMEs)       114.6       101.4       161.7         Business process innovators (SMEs)       96.2       133.0       128.0         Innovative SMEs collaborating with others       110.3       135.4       161.7         Public-private co-publications       113.0       125.2       126.7         Job-to-job mobility of HRST       116.1       102.6       166.7         Intellectual assets       83.2       90.6       72.1         PCT patent applications       119.6       118.4       103.8         Trademark a	Finance and support	150.0	158.2	178.7	
Government support for business R&D         184.4         213.4         213.4           Firm investments         90.0         97.0         108.7           R&D expenditure in the business sector         98.6         109.4         109.4           Non-R&D Innovation expenditures         56.9         52.3         64.7           Innovation expenditures per employee         104.4         120.3         137.8           Use of information technologies         90.3         103.6         104.4           Enterprises providing ICT training         66.7         106.7         66.7           Innovators         105.1         118.2         143.8           Product innovators (SMEs)         111.6         101.4         161.7           Business process innovators (SMEs)         96.2         133.0         128.0           Innovative SMEs collaborating with others         110.3         135.4         161.7           Public-private co-publications         113.0         125.2         126.7           Intellectual assets         83.2         90.6         72.1           PCT patent applications         119.6         118.4         103.8           Trademark applications         70.2         77.8         48.1           Employment in knowledge-	R&D expenditures in the public sector	98.2	100.0	94.7	
Firm investments       90.0       97.0       108.7         R&D expenditure in the business sector       98.6       109.4       109.4         Non-R&D Innovation expenditures       56.9       52.3       64.7         Innovation expenditures per employee       104.4       120.3       137.8         Use of information technologies       90.3       103.6       104.4         Enterprises providing ICT training       66.7       106.7       66.7         Innovators       110.7       100.0       147.6         Innovators       110.7       100.0       147.6         Innovators       110.7       100.0       147.6         Innovators (SMES)       114.6       101.4       161.7         Business process innovators (SMES)       96.2       133.0       128.0         Innovative SMEs collaborating with others       110.3       135.4       161.7         Public-private co-publications       113.0       125.2       126.7         Job-to-job mobility of HRST       116.1       102.6       166.7         Intellectual assets       83.2       90.6       72.1         PCT patent applications       70.2       77.8       48.1         Employment in knowledge-intensive activities	Venture capital expenditures	174.1	192.7	292.8	
R&D expenditure in the business sector         98.6         109.4         109.4           Non-R&D Innovation expenditures         56.9         52.3         64.7           Innovation expenditures per employee         104.4         120.3         137.8           Use of information technologies         90.3         100.6         104.4           Enterprises providing ICT training         66.7         106.7         66.7           Employed ICT specialists         110.7         100.0         147.6           Innovators         105.1         118.2         143.8           Product innovators (SMEs)         96.2         133.0         128.0           Linkages         113.5         119.0         153.0           Innovative SMEs collaborating with others         110.3         125.2         126.7           Job-to-job mobility of HRST         116.1         102.6         166.7           Intellectual assets         83.2         90.6         72.1           PCT patent applications         119.6         118.4         103.8           Trademark applications         70.2         77.8         48.1           Employment in knowledge-intensive activities         113.4         10.7         124.0           Employment in innovative enterprise	Government support for business R&D	184.4	213.4	213.4	
Non-R&D Innovation expenditures         56.9         52.3         64.7           Innovation expenditures per employee         104.4         120.3         137.8           Use of information technologies         90.3         103.6         104.4           Enterprises providing ICT training         66.7         106.7         66.7           Employed ICT specialists         110.7         100.0         147.6           Innovators         105.1         118.2         143.8           Product innovators (SMEs)         114.6         101.4         161.7           Business process innovators (SMEs)         96.2         133.0         128.0           Linkages         113.5         119.0         153.0           Innovative SMEs collaborating with others         110.3         135.4         161.7           Public-private co-publications         113.0         125.2         126.7           Job-to-job mobility of HRST         116.1         102.6         166.7           Intellectual assets         83.2         90.6         72.1           PCT patent applications         119.6         118.4         103.8           Trademark applications         70.2         77.8         48.1           Employment in knowledge-intensive activities	Firm investments	90.0	97.0	108.7	
Innovation expenditures per employee104.4120.3137.8Use of information technologies90.3103.6104.4Enterprises providing ICT training66.7106.766.7Employed ICT specialists110.7100.0147.6Innovators105.1118.2143.8Product innovators (SMEs)96.2133.0128.0Linkages113.5119.0153.0Innovative SMEs collaborating with others110.3135.4161.7Public-private co-publications113.0125.2126.7Job-to-job mobility of HRST116.1102.6166.7Intellectual assets83.290.672.1PCT patent applications119.6118.4103.8Trademark applications64.778.868.0Design applications70.277.848.1Employment in innovative enterprises106.4107.0102.7Sales impacts100.3109.7109.7Knowledge-intensive activities113.410.7109.7Knowledge-intensive services exports90.998.396.3Sales of innovative products72.9103.063.4Environmental sustainability114.9113.5119.6Resource productivity143.8153.8213.1Air emissions by fine particulate matter104.5110.6111.2	R&D expenditure in the business sector	98.6	109.4	109.4	
Use of information technologies90.3103.6104.4Enterprises providing ICT training66.7106.766.7Employed ICT specialists110.7100.0147.6Innovators105.1118.2143.8Product innovators (SMEs)96.2133.0128.0Linkages113.5119.0153.0Innovative SMEs collaborating with others110.3135.4161.7Public-private co-publications113.0125.2126.7Job-to-job mobility of HRST116.1102.6165.7Intellectual assets83.290.672.1PCT patent applications119.6118.4103.8Trademark applications64.778.868.0Design applications70.277.848.1Employment in knowledge-intensive activities113.4110.7124.0Employment in knowledge-intensive activities113.4100.7102.7Sales impacts90.2103.991.991.9Medium and high tech goods exports100.010.7109.7Knowledge-intensive services exports90.998.396.3Sales of innovative products72.9103.063.4Environmental sustainability114.9113.5119.6Resource productivity143.8153.8213.1Air emissions by fine particulate matter104.5110.6111.2	Non-R&D Innovation expenditures	56.9	52.3	64.7	
Enterprises providing ICT training         66.7         106.7         66.7           Employed ICT specialists         110.7         100.0         147.6           Innovators         105.1         118.2         143.8           Product innovators (SMEs)         114.6         101.4         161.7           Business process innovators (SMEs)         96.2         133.0         128.0           Linkages         113.5         119.0         153.0           Innovative SMEs collaborating with others         110.3         135.4         161.7           Public-private co-publications         113.0         125.2         126.7           Job-to-job mobility of HRST         116.1         102.6         166.7           Intellectual assets         83.2         90.6         72.1           PCT patent applications         119.6         118.4         103.8           Trademark applications         64.7         78.8         68.0           Design applications         70.2         77.8         48.1           Employment in knowledge-intensive activities         113.4         110.7         124.0           Employment in innovative enterprises         106.4         107.0         102.7              Sales inpacts         90.2         <	Innovation expenditures per employee	104.4	120.3	137.8	
Imployed ICT specialists       110.7       100.0       147.6         Innovators       105.1       118.2       143.8         Product innovators (SMEs)       114.6       101.4       161.7         Business process innovators (SMEs)       96.2       133.0       128.0         Linkages       113.5       119.0       153.0         Innovative SMEs collaborating with others       110.3       135.4       161.7         Public-private co-publications       113.0       125.2       126.7         Job-to-job mobility of HRST       116.1       102.6       165.7         Intellectual assets       83.2       90.6       72.1         PCT patent applications       119.6       118.4       103.8         Trademark applications       64.7       78.8       68.0         Design applications       70.2       77.8       48.1         Employment in knowledge-intensive activities       113.4       110.7       124.0         Employment in knowledge-intensive activities       113.4       100.7       34.0         Medium and high tech goods exports       100.0       109.7       36.3         Sales of innovative products       72.9       103.0       63.4         Environmental sustainability<	Use of information technologies	90.3	103.6	104.4	
Innovators         105.1         118.2         143.8           Product innovators (SMEs)         114.6         101.4         161.7           Business process innovators (SMEs)         96.2         133.0         128.0           Linkages         113.5         119.0         153.0           Innovative SMEs collaborating with others         110.3         135.4         161.7           Public-private co-publications         113.0         125.2         126.7           Job-to-job mobility of HRST         116.1         102.6         166.7           Intellectual assets         83.2         90.6         72.1           PCT patent applications         119.6         118.4         103.8           Trademark applications         64.7         77.8         48.1           Employment inpacts         109.5         108.5         111.6           Employment in knowledge-intensive activities         113.4         10.7         124.0           Employment in innovative enterprises         106.4         107.0         102.7           Sales impacts         90.2         103.9         91.9           Medium and high tech goods exports         100.0         109.7         109.7           Knowledge-intensive services exports         90.9<	Enterprises providing ICT training	66.7	106.7	66.7	
Product innovators (SMEs)       114.6       101.4       161.7         Business process innovators (SMEs)       96.2       133.0       128.0         Linkages       113.5       119.0       153.0         Innovative SMEs collaborating with others       110.3       135.4       161.7         Public-private co-publications       113.0       125.2       126.7         Job-to-job mobility of HRST       116.1       102.6       166.7         Intellectual assets       83.2       90.6       72.1         PCT patent applications       119.6       118.4       103.8         Trademark applications       64.7       78.8       68.0         Design applications       70.2       77.8       48.1         Employment inpacts       109.5       108.5       111.6         Employment in knowledge-intensive activities       113.4       110.7       124.0         Employment in innovative enterprises       106.4       107.0       102.7         Sales impacts       90.2       103.9       91.9         Medium and high tech goods exports       100.0       109.7       109.7         Knowledge-intensive services exports       90.9       98.3       96.3       Sales of innovative products <td< td=""><td>Employed ICT specialists</td><td>110.7</td><td>100.0</td><td>147.6</td></td<>	Employed ICT specialists	110.7	100.0	147.6	
Business process innovators (SMEs)         96.2         133.0         128.0           Linkages         111.5         119.0         153.0           Innovative SMEs collaborating with others         110.3         135.4         161.7           Public-private co-publications         113.0         125.2         126.7           Job-to-job mobility of HRST         116.1         102.6         166.7           Intellectual assets         83.2         90.6         72.1           PCT patent applications         119.6         118.4         103.8           Trademark applications         64.7         77.8         48.1           Employment impacts         109.5         108.5         111.6           Employment in knowledge-intensive activities         113.4         10.7         124.0           Employment in innovative enterprises         106.4         107.0         102.7           Sales impacts         90.2         103.9         91.9           Medium and high tech goods exports         100.0         109.7         109.7           Knowledge-intensive services exports         90.9         98.3         96.3           Sales of innovative products         72.9         103.0         63.4           Environmental sustainability	Innovators	105.1	118.2	143.8	
Linkages113.5119.0153.0Innovative SMEs collaborating with others110.3135.4161.7Public-private co-publications113.0125.2126.7Job-to-job mobility of HRST116.1102.6166.7Intellectual assets83.290.672.1PCT patent applications119.6118.4103.8Trademark applications64.778.868.0Design applications70.277.848.1Employment inpacts109.5108.5111.6Employment in innovative enterprises106.4107.0102.7Sales impacts90.2103.991.9Medium and high tech goods exports100.0109.7109.7Knowledge-intensive services exports90.998.396.3Sales of innovative products72.9103.063.4Environmental sustainability114.38153.8213.1Air emissions by fine particulate matter104.5110.6111.2	Product innovators (SMEs)	114.6	101.4	161.7	
Innovative SMEs collaborating with others       110.3       135.4       161.7         Public-private co-publications       113.0       125.2       126.7         Job-to-job mobility of HRST       116.1       102.6       166.7         Intellectual assets       83.2       90.6       72.1         PCT patent applications       119.6       118.4       103.8         Trademark applications       64.7       77.8       68.0         Design applications       70.2       77.8       48.1         Employment impacts       109.5       108.5       111.6         Employment in knowledge-intensive activities       113.4       10.7       124.0         Employment in knowledge-intensive activities       106.4       107.0       102.7         Sales impacts       90.2       103.9       91.9         Medium and high tech goods exports       100.0       109.7       109.7         Knowledge-intensive services exports       90.9       98.3       96.3         Sales of innovative products       72.9       103.0       63.4         Environmental sustainability       114.9       113.5       119.6         Resource productivity       143.8       153.8       213.1         Air emissions by	Business process innovators (SMEs)	96.2	133.0	128.0	
Public-private co-publications         113.0         125.2         126.7           Job-to-job mobility of HRST         116.1         102.6         166.7           Intellectual assets         83.2         90.6         72.1           PCT patent applications         119.6         118.4         103.8           Trademark applications         64.7         78.8         68.0           Design applications         70.2         77.8         48.1           Employment impacts         109.5         108.5         111.6           Employment in knowledge-intensive activities         113.4         10.7         124.0           Employment in innovative enterprises         106.4         107.0         102.7           Sales impacts         90.2         103.9         91.9           Medium and high tech goods exports         100.0         109.7         109.7           Knowledge-intensive services exports         90.9         98.3         96.3           Sales of innovative products         72.9         103.0         63.4           Environmental sustainability         114.9         113.5         119.6           Resource productivity         143.8         153.8         21.31.1           104.5	Linkages	113.5	119.0	153.0	
Job-to-job mobility of HRST         116.1         102.6         166.7           Intellectual assets         83.2         90.6         72.1           PCT patent applications         119.6         118.4         103.8           Trademark applications         64.7         78.8         68.0           Design applications         70.2         77.8         48.1           Employment impacts         109.5         108.5         111.6           Employment in knowledge-intensive activities         113.4         10.7         124.0           Employment in knowledge-intensive activities         106.4         0.70.1         102.7           Sales impacts         90.2         103.9         91.9           Medium and high tech goods exports         100.0         109.7         109.7           Knowledge-intensive services exports         90.9         98.3         96.3           Sales of innovative products         72.9         103.0         63.4           Environmental sustainability         114.9         113.5         119.6           Resource productivity         143.8         153.8         213.1           Air emissions by fine particulate matter         104.5         110.6         111.2	Innovative SMEs collaborating with others	110.3	135.4	161.7	
Intellectual assets         83.2         90.6         72.1           PCT patent applications         119.6         118.4         103.8           Trademark applications         64.7         78.8         68.0           Design applications         70.2         77.8         48.1           Employment impacts         109.5         108.5         111.6           Employment in knowledge-intensive activities         113.4         10.7         124.0           Employment in innovative enterprises         106.4         107.0         102.7           Sales impacts         90.2         103.9         91.9           Medium and high tech goods exports         100.0         109.7         109.7           Knowledge-intensive services exports         90.9         98.3         96.3           Sales of innovative products         72.9         103.0         63.4           Environmental sustainability         114.9         113.5         119.6           Resource productivity         143.8         153.8         213.1           Air emissions by fine particulate matter         104.5         110.6         111.2	Public-private co-publications	113.0	125.2	126.7	
PCT patent applications       119.6       118.4       103.8         Trademark applications       64.7       78.8       68.0         Design applications       70.2       77.8       48.1         Employment impacts       109.5       108.5       111.6         Employment in knowledge-intensive activities       113.4       10.7       124.0         Employment in innovative enterprises       106.4       107.0       102.7         Sales impacts       90.2       103.9       91.9         Medium and high tech goods exports       100.0       109.7       109.7         Knowledge-intensive services exports       90.9       98.3       96.3         Sales of innovative products       72.9       103.0       63.4         Environmental sustainability       114.9       113.5       119.6         Resource productivity       143.8       153.8       213.1         Air emissions by fine particulate matter       104.5       110.6       111.2	Job-to-job mobility of HRST	116.1	102.6	166.7	
Trademark applications       64.7       78.8       68.0         Design applications       70.2       77.8       48.1         Employment impacts       109.5       108.5       111.6         Employment in knowledge-intensive activities       113.4       110.7       124.0         Employment in innovative enterprises       106.4       107.0       102.7         Sales impacts       90.2       103.9       91.9         Medium and high tech goods exports       100.0       109.7       109.7         Knowledge-intensive services exports       90.9       98.3       96.3         Sales of innovative products       72.9       103.0       63.4         Environmental sustainability       114.9       113.5       119.6         Resource productivity       143.8       153.8       213.1         Air emissions by fine particulate matter       104.5       110.6       111.2	Intellectual assets	83.2	90.6	72.1	
Design applications         70.2         77.8         48.1           Employment impacts         109.5         108.5         111.6           Employment in knowledge-intensive activities         113.4         10.7         124.0           Employment in knowledge-intensive activities         113.4         100.7         102.7           Sales impacts         90.2         103.9         91.9           Medium and high tech goods exports         100.0         109.7         109.7           Knowledge-intensive services exports         90.9         98.3         96.3           Sales of innovative products         72.9         103.0         63.4           Environmental sustainability         114.9         113.5         119.6           Resource productivity         143.8         153.8         213.1           Air emissions by fine particulate matter         104.5         110.6         111.2	PCT patent applications	119.6	118.4	103.8	
Employment impacts         109.5         108.5         111.6           Employment in knowledge-intensive activities         113.4         110.7         124.0           Employment in innovative enterprises         106.4         107.0         102.7           Sales impacts         90.2         103.9         91.9           Medium and high tech goods exports         100.0         109.7         109.7           Sales of innovative products         72.9         90.3         96.3           Sales of innovative products         72.9         103.0         63.4           Environmental sustainability         114.9         113.5         119.6           Resource productivity         143.8         153.8         213.1           Air emissions by fine particulate matter         104.5         110.6         111.2	Trademark applications	64.7	78.8	68.0	
Employment in knowledge-intensive activities         113.4         110.7         124.0           Employment in innovative enterprises         106.4         107.0         102.7           Sales impacts         90.2         103.9         91.9           Medium and high tech goods exports         100.0         109.7         109.7           Knowledge-intensive services exports         90.9         98.3         96.3           Sales of innovative products         72.9         103.0         63.4           Environmental sustainability         114.9         113.5         119.6           Resource productivity         143.8         153.8         213.1           Air emissions by fine particulate matter         104.5         110.6         111.2	Design applications	70.2	77.8	48.1	
Employment in innovative enterprises         106.4         107.0         102.7           Sales impacts         90.2         103.9         91.9           Medium and high tech goods exports         100.0         109.7         109.7           Knowledge-intensive services exports         90.9         98.3         96.3           Sales of innovative products         72.9         103.0         63.4           Environmental sustainability         114.9         113.5         119.6           Resource productivity         143.8         153.8         213.1           Air emissions by fine particulate matter         104.5         110.6         111.2	Employment impacts	109.5	108.5	111.6	
Sales impacts         90.2         103.9         91.9           Medium and high tech goods exports         100.0         109.7         109.7           Knowledge-intensive services exports         90.9         98.3         96.3           Sales of innovative products         72.9         103.0         63.4           Environmental sustainability         114.9         113.5         119.6           Resource productivity         143.8         153.8         213.1           Air emissions by fine particulate matter         104.5         110.6         111.2	Employment in knowledge-intensive activities	113.4	110.7	124.0	
Medium and high tech goods exports         100.0         109.7         109.7           Knowledge-intensive services exports         90.9         98.3         96.3           Sales of innovative products         72.9         103.0         63.4           Environmental sustainability         114.9         113.5         119.6           Resource productivity         143.8         153.8         213.1           Air emissions by fine particulate matter         104.5         110.6         111.2	Employment in innovative enterprises	106.4	107.0	102.7	
Knowledge-intensive services exports         90.9         98.3         96.3           Sales of innovative products         72.9         103.0         63.4           Environmental sustainability         114.9         113.5         119.6           Resource productivity         143.8         153.8         213.1           Air emissions by fine particulate matter         104.5         110.6         111.2	Sales impacts	90.2	103.9	91.9	
Sales of innovative products72.9103.063.4Environmental sustainability114.9113.5119.6Resource productivity143.8153.8213.1Air emissions by fine particulate matter104.5110.6111.2	Medium and high tech goods exports	100.0	109.7	109.7	
Environmental sustainability         114.9         113.5         119.6           Resource productivity         143.8         153.8         213.1           Air emissions by fine particulate matter         104.5         110.6         111.2	Knowledge-intensive services exports	90.9	98.3	96.3	
Resource productivity143.8153.8213.1Air emissions by fine particulate matter104.5110.6111.2	Sales of innovative products	72.9	103.0	63.4	
Air emissions by fine particulate matter 104.5 110.6 111.2	Environmental sustainability	114.9	113.5	119.6	
	Resource productivity	143.8	153.8	213.1	
Environment-related technologies 99.8 93.1 75.0	Air emissions by fine particulate matter	104.5	110.6	111.2	
	Environment-related technologies	99.8	93.1	75.0	

The colours show normalised performance in 2021 relative to that of the EU in 2021: dark green: above 125%; light green: between 100% and 125%; yellow: between 70% and 100%; orange: below 70%. Normalised performance uses the data after a possible imputation of missing data and transformation of the data.