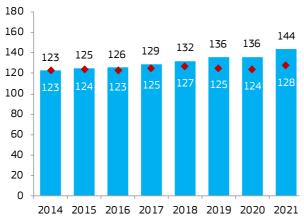


## Belgium is an Innovation Leader.

Over time, performance relative to the EU has increased.



■ 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.

|   | BE     | EU     |
|---|--------|--------|
| Performance and structure of the economy                  |        |        |
| GDP per capita (PPS)                                      | 36,400 | 30,800 |
| Average annual GDP growth (%)                             | -2.8   | -2.5   |
| Employment share Manufacturing (NACE C) (%)               | 12.5   | 16.5   |
| of which High and Medium high-tech (%)                    | 36.9   | 37.9   |
| Employment share Services (NACE G-N) (%)                  | 40.8   | 41.2   |
| of which Knowledge-intensive services (%)                 | 37.1   | 35.1   |
| Turnover share SMEs (%)                                   | 39.6   | 36.5   |
| Turnover share large enterprises (%)                      | 36.6   | 45.7   |
| Foreign-controlled enterprises – share of value added (%) | 12.6   | 11.8   |
| Business and entrepreneurship                             |        |        |
| Enterprise births (10+ employees) (%)                     | 0.6    | 1.0    |
| Total Entrepreneurial Activity (TEA) (%)                  | 6.2    | 6.7    |
| FDI net inflows (% GDP)                                   | -7.5   | 2.0    |
| Top R&D spending enterprises per 10 million population    | 28.8   | 16.2   |
| Buyer sophistication (1 to 7 best)                        | 4.4    | 3.7    |
| Innovation profiles                                       |        |        |
| In-house product innovators with market novelties         | n/a    | 10.7   |
| In-house product innovators without market novelties      | n/a    | 12.3   |
| In-house business process innovators                      | n/a    | 11.0   |
| Innovators that do not develop innovations themselves     | n/a    | 11.6   |
| Innovation active non-innovators                          | n/a    | 3.3    |
| Non-innovators with potential to innovate                 | n/a    | 19.9   |
| Non-innovators without disposition to innovate            | n/a    | 31.3   |
| Governance and policy framework                           |        |        |
| Ease of starting a business (0 to 100 best)               | 74.0   | 76.5   |
| Basic school entrepreneurial education and training       | 2.0    | 2.0    |
| Govt. procurement of advanced tech. products              | 3.5    | 3.5    |
| Rule of law (-2.5 to 2.5 best)                            | 1.4    | 1.1    |
| Climate change indicators                                 |        |        |
| Circular material use rate                                | 22.1   | 11.7   |
| Greenhouse gas emissions intensity of energy consumption  | 84.7   | 86.6   |
| Eco-Innovation Index                                      | 85.0   | 100.0  |
| Demography  | :      |        |
| Population size   | 11.5   |        |
| Average annual population growth (%)                      | 0.5    | 0.1    |
| Population density  | 375.4  | 108.8  |

Belgium's strengths are in *Attractive research systems*, *Use of information technologies*, and *Linkages*. The top-3 indicators include Foreign doctorate students, Innovative SMEs collaborating with others, and Enterprises providing ICT training.

The recent increase in innovation performance between 2020 and 2021 is due to strong performance increases in several indicators using innovation survey data, but also in Digital skills, Venture capital, and Resource productivity.

Belgium is showing above average scores on the Climate change related indicators.

| Belgium         EU 2021 in 2014         2021 2014         2021 2014         2021 2014         2021 2024         2021 2024         2021 2024         2021 2024         2021 2024         2021 2021         2024 2021         2024 2021         2024 2021         2024 2021         2024 2021         2024 2021         2024 2021         2025 2021         2026 2022         2026 2022         2026 2022         2026 2022 |  | Relative to | Relative to EU |       |
|---|--|-------------|----------------|-------|
| SUMMARY INNOVATION INDEX         127.5         122.8         143.5           Human resources         115.7         114.5         122.6           Doctorate graduates         113.0         88.5         100.0           Population with tertiary education         150.6         181.0         194.2           Lifelong learning         73.7         84.4         81.1           Attractive research systems         153.4         156.6         172.7           International scientific co-publications         134.8         147.6         176.8           Most cited publications         128.4         133.2         126.2           Foreign doctorate students         223.0         217.1         264.8           Digitalisation         115.1         126.7         159.2           Broadband penetration         116.1         130.4         176.1           People with above basic overall digital skills         113.6         122.2         138.9           Finance and support         126.9         113.1         151.2           R&D expenditures in the public sector         120.0         87.7         115.8           Venture capital expenditures         141.6         109.2         194.0           R&D expenditures in the public sector   | Belgium  | EU 2021 in  |                |       |
| Human resources   |  | 2021        | 2014           | 2021  |
| Doctorate graduates   | SUMMARY INNOVATION INDEX                       | 127.5       | 122.8          | 143.5 |
| Population with tertiary education   1506   181.0   194.2   | Human resources                                | 115.7       | 114.5          | 122.6 |
| Lifelong learning         73.7         84.4         8.1.1           Attractive research systems         153.4         156.6         172.7           International scientific co-publications         134.8         147.6         176.8           Most cited publications         128.4         133.2         126.2           Foreign doctorate students         223.0         217.1         264.8           Digitalisation         115.1         126.7         159.2           Broadband penetration         116.1         130.4         176.1           People with above basic overall digital skills         113.6         122.2         138.9           Finance and support         126.9         113.1         151.2           R&D expenditures in the public sector         120.0         87.7         115.8           Venture capital expenditures         115.4         109.2         194.0           Government support for business R&D         146.6         150.5         169.6           Firm investments         120.2         114.7         145.3           R&D expenditure in the business sector         141.1         121.3         156.7           R&D expenditures in the public sector         141.1         121.3         156.7           R&D innovati  | Doctorate graduates                            | 113.0       | 88.5           | 100.0 |
| Lifelong learning         73.7         84.4         8.1.1           Attractive research systems         153.4         156.6         172.7           International scientific co-publications         134.8         147.6         176.8           Most cited publications         128.4         133.2         126.2           Foreign doctorate students         223.0         217.1         264.8           Digitalisation         115.1         126.7         159.2           Broadband penetration         116.1         130.4         176.1           People with above basic overall digital skills         113.6         122.2         138.9           Finance and support         126.9         113.1         151.2           R&D expenditures in the public sector         120.0         87.7         115.8           Venture capital expenditures         115.4         109.2         194.0           Government support for business R&D         146.6         150.5         169.6           Firm investments         120.2         114.7         145.3           R&D expenditure in the business sector         141.1         121.3         156.7           R&D expenditures in the public sector         141.1         121.3         156.7           R&D innovati  | Population with tertiary education             | 150.6       | 181.0          | 194.2 |
| International scientific co-publications   1348   147.6   176.8   |  | 73.7        | 84.4           | 81.1  |
| Most cited publications   128.4   133.2   126.2   | Attractive research systems                    | 153.4       | 156.6          | 172.7 |
| Digitalisation  | International scientific co-publications       | 134.8       | 147.6          | 176.8 |
| Digitalisation         115.1         126.7         159.2           Broadband penetration         116.1         130.4         176.1           People with above basic overall digital skills         113.6         122.2         138.9           Finance and support         126.9         113.1         151.2           R&D expenditures in the public sector         120.0         87.7         115.8           Venture capital expenditures         115.4         109.2         194.0           Government support for business R&D         146.6         150.5         169.6           Firm investments         120.2         114.7         145.3           R&D expenditure in the business sector         141.1         121.3         156.7           Non-R&D Innovation expenditures         94.1         82.7         106.9           Innovation expenditures per employee         141.3         133.8         186.5           Use of information technologies         161.2         184.0         186.7           Enterprises providing ICT training         186.7         186.7         186.7           Employed ICT specialists         139.3         181.0         185.7           Innovators         129.8         142.0         177.5           Product innovato  | Most cited publications                        | 128.4       | 133.2          | 126.2 |
| Broadband penetration         116.1         130.4         176.1           People with above basic overall digital skills         113.6         122.2         138.9           Finance and support         126.9         113.1         151.2           R&D expenditures in the public sector         120.0         87.7         115.8           Venture capital expenditures         115.4         109.2         194.0           Government support for business R&D         146.6         150.5         169.6           Firm investments         120.2         114.7         145.3           R&D expenditure in the business sector         141.1         121.3         156.7           Non-R&D Innovation expenditures         94.1         82.7         106.9           Innovation expenditures per employee         141.3         133.8         186.5           Use of information technologies         161.2         184.0         186.7           Enterprises providing ICT training         186.7         186.7         186.7           Innovators         129.8         142.0         185.7           Product innovators (SMEs)         99.4         154.2         140.2           Business process innovators (SMEs)         158.1         131.3         210.4   | Foreign doctorate students                     | 223.0       | 217.1          | 264.8 |
| People with above basic overall digital skills         113.6         122.2         138.9           Finance and support         126.9         113.1         151.2           R&D expenditures in the public sector         120.0         87.7         115.8           Venture capital expenditures         115.4         109.2         194.0           Government support for business R&D         146.6         150.5         169.6           Firm investments         120.2         114.7         145.3           R&D expenditure in the business sector         141.1         121.3         156.7           Non-R&D Innovation expenditures         94.1         82.7         106.9           Innovation expenditures per employee         141.3         133.8         186.5           Use of information technologies         161.2         184.0         186.7           Enterprises providing ICT training         186.7         186.7         186.7           Employed ICT specialists         139.3         181.0         185.7           Innovators         129.8         142.0         185.7           Product innovators (SMEs)         99.4         154.2         140.2           Business process innovators (SMEs)         158.1         131.3         210.4  | Digitalisation                                 | 115.1       | 126.7          | 159.2 |
| Finance and support         126.9         113.1         151.2           R&D expenditures in the public sector         1200         87.7         115.8           Venture capital expenditures         115.4         109.2         194.0           Government support for business R&D         146.6         150.5         169.6           Firm investments         120.2         114.7         145.3           R&D expenditure in the business sector         141.1         121.3         156.7           Non-R&D Innovation expenditures         94.1         82.7         106.9           Innovation expenditures per employee         141.3         133.8         186.5           Use of information technologies         161.2         184.0         186.7           Employed ICT specialists         139.3         181.0         185.7           Innovators         129.8         142.0         177.5           Product innovators (SMEs)         99.4         154.2         140.2           Business process innovators (SMEs)         158.1         131.3         210.4           Linkages         157.5         194.1         212.4           Innovative SMEs collaborating with others         226.6         304.4         332.1           Public-private co-publica  | Broadband penetration                          | 116.1       | 130.4          | 176.1 |
| R&D expenditures in the public sector       1200       87.7       115.8         Venture capital expenditures       115.4       109.2       194.0         Government support for business R&D       146.6       150.5       169.6         Firm investments       120.2       114.7       145.3         R&D expenditure in the business sector       141.1       121.3       156.7         Non-R&D Innovation expenditures       94.1       82.7       106.9         Innovation expenditures per employee       141.3       133.8       186.5         Use of information technologies       161.2       184.0       186.2         Enterprises providing ICT training       186.7       186.7       186.7         Employed ICT specialists       139.3       181.0       185.7         Innovators       129.8       142.0       177.5         Product innovators (SMEs)       99.4       154.2       140.2         Business process innovators (SMEs)       158.1       131.3       210.4         Linkages       157.5       194.1       212.4         Innovative SMEs collaborating with others       226.6       304.4       332.1         Public-private co-publications       184.7       180.5       207.2  | People with above basic overall digital skills | 113.6       | 122.2          | 138.9 |
| Venture capital expenditures         115.4         109.2         194.0           Government support for business R&D         146.6         150.5         169.6           Firm investments         120.2         114.7         145.3           R&D expenditure in the business sector         141.1         121.3         156.7           Non-R&D Innovation expenditures         94.1         82.7         106.9           Innovation expenditures per employee         141.3         133.8         186.5           Use of information technologies         161.2         184.0         186.2           Enterprises providing ICT training         186.7         186.7         186.7           Employed ICT specialists         139.3         181.0         185.7           Innovators         129.8         142.0         177.5           Product innovators (SMEs)         99.4         154.2         140.2           Business process innovators (SMEs)         158.1         131.3         210.4           Linkages         157.5         194.1         212.4           Innovative SMEs collaborating with others         226.6         304.4         332.1           Public-private co-publications         184.7         180.5         207.2           Job-to-job mobi  | Finance and support                            | 126.9       | 113.1          | 151.2 |
| Government support for business R&D         1466         150.5         169.6           Firm investments         120.2         114.7         145.3           R&D expenditure in the business sector         141.1         121.3         156.7           Non-R&D Innovation expenditures         94.1         82.7         106.9           Innovation expenditures per employee         141.3         133.8         186.5           Use of information technologies         161.2         184.0         186.2           Enterprises providing ICT training         186.7         186.7         186.7           Employed ICT specialists         139.3         181.0         185.7           Innovators         129.8         142.0         177.5           Product innovators (SMEs)         99.4         154.2         140.2           Business process innovators (SMEs)         158.1         131.3         210.4           Linkages         157.5         194.1         212.4           Innovative SMEs collaborating with others         226.6         304.4         332.1           Public-private co-publications         184.7         180.5         207.2           Job-to-job mobility of HRST         91.1         125.6         130.8           Intellectual asset  | R&D expenditures in the public sector          | 120.0       | 87.7           | 115.8 |
| Firm investments         120.2         114.7         145.3           R&D expenditure in the business sector         141.1         121.3         156.7           Non-R&D Innovation expenditures         94.1         82.7         106.9           Innovation expenditures per employee         141.3         133.8         186.5           Use of information technologies         161.2         184.0         186.7           Enterprises providing ICT training         186.7         186.7         186.7           Employed ICT specialists         139.3         181.0         185.7           Innovators         129.8         142.0         177.5           Product innovators (SMEs)         99.4         154.2         140.2           Business process innovators (SMEs)         158.1         131.3         210.4           Linkages         157.5         194.1         212.4           Innovative SMEs collaborating with others         226.6         304.4         332.1           Public-private co-publications         184.7         180.5         207.2           Job-to-job mobility of HRST         91.1         125.6         130.8           Intellectual assets         94.6         90.6         82.0           PCT patent applications   | Venture capital expenditures                   | 115.4       | 109.2          | 194.0 |
| R&D expenditure in the business sector       141.1       121.3       156.7         Non-R&D Innovation expenditures       94.1       82.7       106.9         Innovation expenditures per employee       141.3       133.8       186.5         Use of information technologies       161.2       184.0       186.7         Enterprises providing ICT training       186.7       186.7       186.7         Employed ICT specialists       139.3       181.0       185.7         Innovators       129.8       142.0       177.5         Product innovators (SMEs)       99.4       154.2       140.2         Business process innovators (SMEs)       99.4       154.2       140.2         Business process innovators (SMEs)       158.1       131.3       210.4         Linkages       157.5       194.1       212.4         Innovative SMEs collaborating with others       226.6       304.4       332.1         Public-private co-publications       184.7       180.5       207.2         Job-to-job mobility of HRST       91.1       125.6       130.8         Intellectual assets       94.6       90.6       82.0         PCT patent applications       102.1       110.7       88.6         Trademark a   | Government support for business R&D            | 146.6       | 150.5          | 169.6 |
| Non-R&D Innovation expenditures         94.1         82.7         106.9           Innovation expenditures per employee         141.3         133.8         186.5           Use of information technologies         161.2         184.0         186.7           Enterprises providing ICT training         186.7         186.7         186.7           Employed ICT specialists         139.3         181.0         185.7           Innovators         129.8         142.0         177.5           Product innovators (SMEs)         99.4         154.2         140.2           Business process innovators (SMEs)         158.1         131.3         210.4           Linkages         157.5         194.1         212.4           Innovative SMEs collaborating with others         226.6         304.4         332.1           Public-private co-publications         184.7         180.5         207.2           Job-to-job mobility of HRST         91.1         125.6         130.8           Intellectual assets         94.6         90.6         82.0           PCT patent applications         102.1         110.7         88.6           Trademark applications         102.1         110.7         88.6           Employment impacts         142.8   | Firm investments                               | 120.2       | 114.7          | 145.3 |
| Innovation expenditures per employee  | R&D expenditure in the business sector         | 141.1       | 121.3          | 156.7 |
| Use of information technologies         161.2         184.0         186.2           Enterprises providing ICT training         186.7         186.7         186.7           Employed ICT specialists         139.3         181.0         185.7           Innovators         129.8         142.0         177.5           Product innovators (SMEs)         99.4         154.2         140.2           Business process innovators (SMEs)         158.1         131.3         210.4           Linkages         157.5         194.1         212.4           Innovative SMEs collaborating with others         226.6         304.4         332.1           Public-private co-publications         184.7         180.5         207.2           Job-to-job mobility of HRST         91.1         125.6         130.8           Intellectual assets         94.6         90.6         82.0           PCT patent applications         102.1         110.7         88.6           Trademark applications         101.0         93.7         106.0           Design applications         76.6         69.8         52.5           Employment impacts         142.8         123.8         145.5           Employment in knowledge-intensive activities         125.6  | Non-R&D Innovation expenditures                | 94.1        | 82.7           | 106.9 |
| Enterprises providing ICT training         186.7         186.7         186.7           Employed ICT specialists         139.3         181.0         185.7           Innovators         129.8         142.0         177.5           Product innovators (SMEs)         99.4         154.2         140.2           Business process innovators (SMEs)         158.1         131.3         210.4           Linkages         157.5         194.1         212.4           Innovative SMEs collaborating with others         226.6         304.4         332.1           Public-private co-publications         184.7         180.5         207.2           Job-to-job mobility of HRST         91.1         125.6         130.8           Intellectual assets         94.6         90.6         82.0           PCT patent applications         102.1         110.7         88.6           Trademark applications         101.0         93.7         106.0           Design applications         76.6         69.8         52.5           Employment impacts         142.8         123.8         145.5           Employment in knowledge-intensive activities         125.6         132.0         137.3           Employment in innovative enterprises         156.7   | Innovation expenditures per employee           | 141.3       | 133.8          | 186.5 |
| Employed ICT specialists         1393         181.0         185.7           Innovators         1298         142.0         177.5           Product innovators (SMEs)         994         154.2         140.2           Business process innovators (SMEs)         158.1         131.3         210.4           Linkages         157.5         194.1         212.4           Innovative SMEs collaborating with others         226.6         304.4         332.1           Public-private co-publications         184.7         180.5         207.2           Job-to-job mobility of HRST         91.1         125.6         130.8           Intellectual assets         94.6         90.6         82.0           PCT patent applications         102.1         110.7         88.6           Trademark applications         101.0         93.7         106.0           Design applications         76.6         69.8         52.5           Employment impacts         142.8         123.8         145.5           Employment in knowledge-intensive activities         125.6         132.0         137.3           Sales impacts         106.3         89.0         108.3           Medium and high tech goods exports         84.0         78.9  | Use of information technologies                | 161.2       | 184.0          | 186.2 |
| Innovators         129.8         142.0         177.5           Product innovators (SMEs)         99.4         154.2         140.2           Business process innovators (SMEs)         158.1         131.3         210.4           Linkages         157.5         194.1         212.4           Innovative SMEs collaborating with others         226.6         304.4         332.1           Public-private co-publications         184.7         180.5         207.2           Job-to-job mobility of HRST         91.1         125.6         130.8           Intellectual assets         94.6         90.6         82.0           PCT patent applications         102.1         110.7         88.6           Trademark applications         101.0         93.7         106.0           Design applications         76.6         69.8         52.5           Employment impacts         142.8         123.8         145.5           Employment in innovaledge-intensive activities         125.6         132.0         137.3           Employment in innovative enterprises         156.7         118.0         151.3           Sales impacts         106.3         89.0         108.3           Medium and high tech goods exports         84.0 <td< td=""><td>Enterprises providing ICT training</td><td>186.7</td><td>186.7</td><td>186.7</td></td<>   | Enterprises providing ICT training             | 186.7       | 186.7          | 186.7 |
| Product innovators (SMEs)         994         1542         1402           Business process innovators (SMEs)         158.1         131.3         210.4           Linkages         157.5         194.1         212.4           Innovative SMEs collaborating with others         226.6         304.4         332.1           Public-private co-publications         184.7         180.5         207.2           Job-to-job mobility of HRST         91.1         125.6         130.8           Intellectual assets         94.6         90.6         82.0           PCT patent applications         102.1         110.7         88.6           Trademark applications         101.0         93.7         106.0           Design applications         76.6         69.8         52.5           Employment impacts         142.8         123.8         145.5           Employment in knowledge-intensive activities         125.6         1320.0         137.3           Sales impacts         106.3         89.0         151.3           Sales impacts         106.3         89.0         108.3           Knowledge-intensive services exports         108.7         103.3         115.1           Sales of innovative products         139.9         85.4 </td <td>Employed ICT specialists</td> <td>139.3</td> <td>181.0</td> <td>185.7</td>  | Employed ICT specialists                       | 139.3       | 181.0          | 185.7 |
| Business process innovators (SMEs)         158.1         131.3         210.4           Linkages         157.5         194.1         212.4           Innovative SMEs collaborating with others         2266         304.4         332.1           Public-private co-publications         184.7         180.5         207.2           Job-to-job mobility of HRST         91.1         125.6         130.8           Intellectual assets         94.6         90.6         82.0           PCT patent applications         102.1         110.7         88.6           Trademark applications         101.0         93.7         106.0           Design applications         76.6         69.8         52.5           Employment impacts         142.8         123.8         145.5           Employment in knowledge-intensive activities         125.6         132.0         137.3           Employment in innovative enterprises         156.7         118.0         151.3           Sales impacts         106.3         89.0         108.3           Medium and high tech goods exports         84.0         78.9         92.0           Knowledge-intensive services exports         108.7         103.3         115.1           Sales of innovative products         <   | Innovators                                     | 129.8       | 142.0          | 177.5 |
| Linkages         157.5         194.1         212.4           Innovative SMEs collaborating with others         226.6         304.4         332.1           Public-private co-publications         184.7         180.5         207.2           Job-to-job mobility of HRST         91.1         125.6         130.8           Intellectual assets         94.6         90.6         82.0           PCT patent applications         102.1         110.7         88.6           Trademark applications         101.0         93.7         106.0           Design applications         76.6         69.8         52.5           Employment impacts         142.8         123.8         145.5           Employment in knowledge-intensive activities         125.6         1320.0         137.3           Sales impacts         106.3         89.0         108.3           Medium and high tech goods exports         84.0         78.9         92.0           Knowledge-intensive services exports         108.7         103.3         115.1           Sales of innovative products         139.9         85.4         121.6           Environmental sustainability         118.5         98.0         123.4           Resource productivity         178.8  | Product innovators (SMEs)                      | 99.4        | 154.2          | 140.2 |
| Innovative SMEs collaborating with others   2266   304.4   332.1  | Business process innovators (SMEs)             | 158.1       | 131.3          | 210.4 |
| Public-private co-publications         1847         180.5         207.2           Job-to-job mobility of HRST         91.1         125.6         130.8           Intellectual assets         94.6         90.6         82.0           PCT patent applications         102.1         110.7         88.6           Trademark applications         101.0         93.7         106.0           Design applications         76.6         69.8         52.5           Employment impacts         142.8         123.8         145.5           Employment in knowledge-intensive activities         125.6         132.0         137.3           Employment in innovative enterprises         156.7         118.0         151.3           Sales impacts         106.3         89.0         108.3           Medium and high tech goods exports         84.0         78.9         92.0           Knowledge-intensive services exports         108.7         103.3         115.1           Sales of innovative products         139.9         85.4         121.6           Environmental sustainability         118.5         98.0         123.4           Resource productivity         178.8         130.9         264.9           Air emissions by fine particulate matter   | Linkages                                       | 157.5       | 194.1          | 212.4 |
| Dob-to-job mobility of HRST   | Innovative SMEs collaborating with others      | 226.6       | 304.4          | 332.1 |
| Intellectual assets         94.6         90.6         82.0           PCT patent applications         102.1         110.7         88.6           Trademark applications         101.0         93.7         106.0           Design applications         76.6         69.8         52.5           Employment impacts         142.8         123.8         145.5           Employment in knowledge-intensive activities         125.6         132.0         137.3           Employment in innovative enterprises         156.7         118.0         151.3           Sales impacts         106.3         89.0         108.3           Medium and high tech goods exports         84.0         78.9         92.0           Knowledge-intensive services exports         108.7         103.3         115.1           Sales of innovative products         139.9         85.4         121.6           Environmental sustainability         118.5         98.0         123.4           Resource productivity         178.8         130.9         264.9           Air emissions by fine particulate matter         102.7         100.5         109.3  | Public-private co-publications                 | 184.7       | 180.5          | 207.2 |
| PCT patent applications       102.1       110.7       88.6         Trademark applications       101.0       93.7       106.0         Design applications       76.6       69.8       52.5         Employment impacts       142.8       123.8       145.5         Employment in knowledge-intensive activities       125.6       132.0       137.3         Employment in innovative enterprises       156.7       118.0       151.3         Sales impacts       106.3       89.0       108.3         Medium and high tech goods exports       84.0       78.9       92.0         Knowledge-intensive services exports       108.7       103.3       115.1         Sales of innovative products       139.9       85.4       121.6         Environmental sustainability       118.5       98.0       123.4         Resource productivity       178.8       130.9       264.9         Air emissions by fine particulate matter       102.7       100.5       109.3   | Job-to-job mobility of HRST                    | 91.1        | 125.6          | 130.8 |
| Trademark applications         101.0         93.7         106.0           Design applications         76.6         69.8         52.5           Employment impacts         142.8         123.8         145.5           Employment in knowledge-intensive activities         125.6         132.0         137.3           Employment in innovative enterprises         156.7         118.0         151.3           Sales impacts         106.3         89.0         108.3           Medium and high tech goods exports         84.0         78.9         92.0           Knowledge-intensive services exports         108.7         103.3         115.1           Sales of innovative products         139.9         85.4         121.6           Environmental sustainability         118.5         98.0         123.4           Resource productivity         178.8         130.9         264.9           Air emissions by fine particulate matter         102.7         100.5         109.3  | Intellectual assets                            | 94.6        | 90.6           | 82.0  |
| Design applications         766         698         52.5           Employment impacts         142.8         123.8         145.5           Employment in knowledge-intensive activities         125.6         132.0         137.3           Employment in innovative enterprises         156.7         118.0         151.3           Sales impacts         106.3         89.0         108.3           Medium and high tech goods exports         84.0         78.9         92.0           Knowledge-intensive services exports         108.7         103.3         115.1           Sales of innovative products         139.9         85.4         121.6           Environmental sustainability         118.5         98.0         123.4           Resource productivity         178.8         130.9         264.9           Air emissions by fine particulate matter         102.7         100.5         109.3  | PCT patent applications                        | 102.1       | 110.7          | 88.6  |
| Employment impacts         142.8         123.8         145.5           Employment in knowledge-intensive activities         125.6         132.0         137.3           Employment in innovative enterprises         156.7         118.0         151.3           Sales impacts         106.3         89.0         108.3           Medium and high tech goods exports         84.0         78.9         92.0           Knowledge-intensive services exports         108.7         103.3         115.1           Sales of innovative products         139.9         85.4         121.6           Environmental sustainability         118.5         98.0         123.4           Resource productivity         178.8         130.9         264.9           Air emissions by fine particulate matter         102.7         100.5         109.3   | Trademark applications                         | 101.0       | 93.7           | 106.0 |
| Employment in knowledge-intensive activities       1256       1320       1373         Employment in innovative enterprises       1567       1180       1513         Sales impacts       106.3       89.0       108.3         Medium and high tech goods exports       84.0       78.9       92.0         Knowledge-intensive services exports       108.7       103.3       115.1         Sales of innovative products       139.9       85.4       121.6         Environmental sustainability       118.5       98.0       123.4         Resource productivity       178.8       130.9       264.9         Air emissions by fine particulate matter       102.7       100.5       109.3  | Design applications                            | 76.6        | 69.8           | 52.5  |
| Employment in innovative enterprises       156.7       118.0       151.3         Sales impacts       106.3       89.0       108.3         Medium and high tech goods exports       84.0       78.9       92.0         Knowledge-intensive services exports       108.7       103.3       115.1         Sales of innovative products       139.9       85.4       121.6         Environmental sustainability       118.5       98.0       123.4         Resource productivity       178.8       130.9       264.9         Air emissions by fine particulate matter       102.7       100.5       109.3   | Employment impacts                             | 142.8       | 123.8          | 145.5 |
| Sales impacts         106.3         89.0         108.3           Medium and high tech goods exports         84.0         78.9         92.0           Knowledge-intensive services exports         108.7         103.3         115.1           Sales of innovative products         139.9         85.4         121.6           Environmental sustainability         118.5         98.0         123.4           Resource productivity         178.8         130.9         264.9           Air emissions by fine particulate matter         102.7         100.5         109.3  | Employment in knowledge-intensive activities   | 125.6       | 132.0          | 137.3 |
| Medium and high tech goods exports       84.0       78.9       92.0         Knowledge-intensive services exports       108.7       103.3       115.1         Sales of innovative products       139.9       85.4       121.6         Environmental sustainability       118.5       98.0       123.4         Resource productivity       178.8       130.9       264.9         Air emissions by fine particulate matter       102.7       100.5       109.3   | Employment in innovative enterprises           | 156.7       | 118.0          | 151.3 |
| Knowledge-intensive services exports       108.7       103.3       115.1         Sales of innovative products       139.9       85.4       121.6         Environmental sustainability       118.5       98.0       123.4         Resource productivity       178.8       130.9       264.9         Air emissions by fine particulate matter       102.7       100.5       109.3   | Sales impacts                                  | 106.3       | 89.0           | 108.3 |
| Sales of innovative products       1399       854       1216         Environmental sustainability       118.5       98.0       123.4         Resource productivity       178.8       130.9       264.9         Air emissions by fine particulate matter       102.7       100.5       109.3   | Medium and high tech goods exports             | 84.0        | 78.9           | 92.0  |
| Environmental sustainability118.598.0123.4Resource productivity178.8130.9264.9Air emissions by fine particulate matter102.7100.5109.3   | Knowledge-intensive services exports           | 108.7       | 103.3          | 115.1 |
| Resource productivity 178.8 130.9 264.9 Air emissions by fine particulate matter 102.7 100.5 109.3  | Sales of innovative products                   | 139.9       | 85.4           | 121.6 |
| Air emissions by fine particulate matter 102.7 100.5 109.3  | Environmental sustainability                   | 118.5       | 98.0           | 123.4 |
|   | Resource productivity                          | 178.8       | 130.9          | 264.9 |
| Environment-related technologies 76.4 75.3 57.4   | Air emissions by fine particulate matter       | 102.7       | 100.5          | 109.3 |
|   | Environment-related technologies               | 76.4        | 75.3           | 57.4  |

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.