| **Indicator** | **Information** |
| --- | --- |
| **Digital skills** | **Export:**[**data**](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/indicator-groups/desi2023-1/facts/)**, [indicators](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/indicators/?indicator_group=desi2023-1&format=csv" \t "_blank),**[**data sources**](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/data-sources/?indicator_group=desi2023-1&format=csv)**, [countries](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/countries/?indicator_group=desi2023-1&format=csv" \t "_blank),**[**breakdowns**](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/breakdowns/?indicator_group=desi2023-1&format=csv)**, [units](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/units/?indicator_group=desi2023-1&format=csv" \t "_blank)** |
| RIS3 – C03  [Enterprises providing ICT training](https://digital-decade-desi.digital-strategy.ec.europa.eu/datasets/desi/charts/desi-indicators?indicator=desi_1a5&indicatorGroup=desi2023-1) | **Notation:**desi\_1a5  **Definition:**Enterprises who provided training in ICT to their personnel  **Time coverage:**2017-2022  **Source:**[Eurostat, table isoc\_ske\_itts: Enterprises that provided training to develop/upgrade ICT skills of their personnel by size class of enterprise](https://ec.europa.eu/eurostat/web/products-datasets/-/isoc_ske_itts" \t "_blank)  **Export:**[data](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/indicators/desi_1a5/facts/), [countries](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/countries/?indicator=desi_1a5&format=csv" \t "_blank), [breakdowns](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/breakdowns/?indicator=desi_1a5&format=csv" \t "_blank), [units](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/units/?indicator=desi_1a5&format=csv" \t "_blank) |
| RIS3 – C03  [ICT specialists](https://digital-decade-desi.digital-strategy.ec.europa.eu/datasets/desi/charts/desi-indicators?indicator=desi_1b1&indicatorGroup=desi2023-1) | **Notation:**desi\_1b1  **Definition:**Employed ICT specialists. Broad definition based on the ISCO-08 classification and including jobs like ICT service managers, ICT professionals, ICT technicians, ICT installers and servicers.  **Time coverage:**2017-2022  **Source:**[Eurostat, Table isoc\_sks\_itspt: ICT specialists - total](http://ec.europa.eu/eurostat/web/products-datasets/-/isoc_sks_itspt" \t "_blank)  **Export:**[data](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/indicators/desi_1b1/facts/), [countries](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/countries/?indicator=desi_1b1&format=csv" \t "_blank), [breakdowns](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/breakdowns/?indicator=desi_1b1&format=csv" \t "_blank), [units](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/units/?indicator=desi_1b1&format=csv" \t "_blank) |
| **Digital infrastructure** | **Export:**[**data**](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/indicator-groups/desi2023-2/facts/)**, [indicators](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/indicators/?indicator_group=desi2023-2&format=csv" \t "_blank),**[**data sources**](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/data-sources/?indicator_group=desi2023-2&format=csv)**, [countries](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/countries/?indicator_group=desi2023-2&format=csv" \t "_blank), [breakdowns](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/breakdowns/?indicator_group=desi2023-2&format=csv" \t "_blank), [units](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/units/?indicator_group=desi2023-2&format=csv" \t "_blank)** |
| RIS3 – D01  [At least 100 Mbps fixed broadband take-up](https://digital-decade-desi.digital-strategy.ec.europa.eu/datasets/desi/charts/desi-indicators?indicator=desi_2a1&indicatorGroup=desi2023-2) | **Notation:**desi\_2a1  **Definition:**Percentage of households subscribing to fixed broadband of at least 100 Mbps, calculated as overall broadband take-up multiplied with the percentage of fixed broadband lines of at least 100 Mbps  **Time coverage:**2017-2022  **Source:**European Commission, through the Communications Committee (COCOM) and Eurostat - European Union survey on ICT usage in Households and by Individuals  **Export:**[data](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/indicators/desi_2a1/facts/), [countries](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/countries/?indicator=desi_2a1&format=csv" \t "_blank), [breakdowns](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/breakdowns/?indicator=desi_2a1&format=csv" \t "_blank), [units](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/units/?indicator=desi_2a1&format=csv" \t "_blank) |
| RIS3 – D01  [Overall 5G coverage](https://digital-decade-desi.digital-strategy.ec.europa.eu/datasets/desi/charts/desi-indicators?indicator=desi_2b2&indicatorGroup=desi2023-2) | **Notation:**desi\_2b2  **Definition:**Percentage of populated areas with coverage by at least one 5G mobile network  **Time coverage:**2020-2022  **Source:**[Broadband coverage in Europe studies for the European Commission by IHS Markit, Omdia and Point Topic](https://digital-strategy.ec.europa.eu/en/policies/desi-connectivity" \t "_blank)  **Export:**[data](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/indicators/desi_2b2/facts/), [countries](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/countries/?indicator=desi_2b2&format=csv" \t "_blank), [breakdowns](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/breakdowns/?indicator=desi_2b2&format=csv" \t "_blank), [units](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/units/?indicator=desi_2b2&format=csv" \t "_blank) |
| **Digital transformation of businesses** | **Export:**[**data**](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/indicator-groups/desi2023-3/facts/)**, [indicators](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/indicators/?indicator_group=desi2023-3&format=csv" \t "_blank),**[**data sources**](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/data-sources/?indicator_group=desi2023-3&format=csv)**, [countries](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/countries/?indicator_group=desi2023-3&format=csv" \t "_blank), [breakdowns](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/breakdowns/?indicator_group=desi2023-3&format=csv" \t "_blank), [units](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/units/?indicator_group=desi2023-3&format=csv" \t "_blank)** |
| RIS3 – V07  [SMEs with at least a basic level of digital intensity](https://digital-decade-desi.digital-strategy.ec.europa.eu/datasets/desi/charts/desi-indicators?indicator=desi_3a1&indicatorGroup=desi2023-3) | **Notation:**desi\_3a1  **Definition:**The digital intensity score is based on counting how many out of 12 selected technologies are used by enterprises. A basic level requires usage of at least 4 technologies.  **Time coverage:**2022  **Source:**[Eurostat, Table isoc\_e\_dii: Digital Intensity by size class of enterprise](https://ec.europa.eu/eurostat/web/products-datasets/-/isoc_e_dii" \t "_blank)  **Export:**[data](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/indicators/desi_3a1/facts/), [countries](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/countries/?indicator=desi_3a1&format=csv" \t "_blank), [breakdowns](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/breakdowns/?indicator=desi_3a1&format=csv" \t "_blank), [units](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/units/?indicator=desi_3a1&format=csv" \t "_blank) |
| RIS3 – D06d  [Big data](https://digital-decade-desi.digital-strategy.ec.europa.eu/datasets/desi/charts/desi-indicators?indicator=desi_3b3&indicatorGroup=desi2023-3) | **Notation:**desi\_3b3  **Definition:**Enterprises analysing big data from any data source  **Time coverage:**2016, 2018, 2020  **Source:**[Eurostat - European Union survey on ICT usage and eCommerce in Enterprises (E\_BDA)](https://ec.europa.eu/eurostat/web/products-datasets/-/isoc_eb_bd" \t "_blank)  **Export:**[data](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/indicators/desi_3b3/facts/), [countries](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/countries/?indicator=desi_3b3&format=csv" \t "_blank), [breakdowns](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/breakdowns/?indicator=desi_3b3&format=csv" \t "_blank), [units](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/units/?indicator=desi_3b3&format=csv" \t "_blank) |
| RIS3 – D06c  [Cloud](https://digital-decade-desi.digital-strategy.ec.europa.eu/datasets/desi/charts/desi-indicators?indicator=desi_3b4&indicatorGroup=desi2023-3) | **Notation:**desi\_3b4  **Definition:**Enterprises purchasing at least one of the following cloud computing services: hosting of the enterprise's database, accounting software applications, CRM software, computing power  **Time coverage:**2021  **Source:**[Eurostat - European Union survey on ICT usage and eCommerce in Enterprises (E\_CC1\_SI)](http://ec.europa.eu/eurostat/web/products-datasets/-/isoc_cicce_use" \t "_blank)  **Export:**[data](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/indicators/desi_3b4/facts/), [countries](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/countries/?indicator=desi_3b4&format=csv" \t "_blank), [breakdowns](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/breakdowns/?indicator=desi_3b4&format=csv" \t "_blank), [units](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/units/?indicator=desi_3b4&format=csv" \t "_blank) |
| RIS3 – D07  [Artificial intelligence](https://digital-decade-desi.digital-strategy.ec.europa.eu/datasets/desi/charts/desi-indicators?indicator=desi_3b5&indicatorGroup=desi2023-3) | **Notation:**desi\_3b5  **Definition:**Enterprises using any AI technology  **Time coverage:**2021  **Source:**[Eurostat - European Union survey on ICT usage and e-commerce in enterprises (E\_AI\_TANY)](https://ec.europa.eu/eurostat/web/products-datasets/-/isoc_eb_ai" \t "_blank)  **Export:**[data](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/indicators/desi_3b5/facts/), [countries](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/countries/?indicator=desi_3b5&format=csv" \t "_blank), [breakdowns](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/breakdowns/?indicator=desi_3b5&format=csv" \t "_blank), [units](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/units/?indicator=desi_3b5&format=csv" \t "_blank) |
| RIS3 – V07  [e-Commerce turnover](https://digital-decade-desi.digital-strategy.ec.europa.eu/datasets/desi/charts/desi-indicators?indicator=desi_3c2&indicatorGroup=desi2023-3) | **Notation:**desi\_3c2  **Definition:**SMEs total turnover from e-commerce  **Time coverage:**2017-2022  **Source:**[Eurostat - European Union survey on ICT usage and eCommerce in Enterprises (E\_ETURN)](https://ec.europa.eu/eurostat/web/products-datasets/-/isoc_ec_evals" \t "_blank)  **Export:**[data](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/indicators/desi_3c2/facts/), [countries](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/countries/?indicator=desi_3c2&format=csv" \t "_blank), [breakdowns](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/breakdowns/?indicator=desi_3c2&format=csv" \t "_blank), [units](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/units/?indicator=desi_3c2&format=csv" \t "_blank) |
| RIS3 – V07  [Selling online cross-border](https://digital-decade-desi.digital-strategy.ec.europa.eu/datasets/desi/charts/desi-indicators?indicator=desi_3c3&indicatorGroup=desi2023-3) | **Notation:**desi\_3c3  **Definition:**SMEs that carried out electronic sales to other EU countries  **Time coverage:**2017, 2019, 2021  **Source:**[Eurostat - European Union survey on ICT usage and eCommerce in Enterprises (E\_AESEU)](https://ec.europa.eu/eurostat/web/products-datasets/-/isoc_ec_esels" \t "_blank)  **Export:**[data](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/indicators/desi_3c3/facts/), [countries](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/countries/?indicator=desi_3c3&format=csv" \t "_blank), [breakdowns](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/breakdowns/?indicator=desi_3c3&format=csv" \t "_blank), [units](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/units/?indicator=desi_3c3&format=csv" \t "_blank) |
| **Digitalisation of public services** | **Export:**[**data**](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/indicator-groups/desi2023-4/facts/)**, [indicators](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/indicators/?indicator_group=desi2023-4&format=csv" \t "_blank),**[**data sources**](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/data-sources/?indicator_group=desi2023-4&format=csv)**, [countries](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/countries/?indicator_group=desi2023-4&format=csv" \t "_blank), [breakdowns](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/breakdowns/?indicator_group=desi2023-4&format=csv" \t "_blank), [units](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/units/?indicator_group=desi2023-4&format=csv" \t "_blank)** |
| RIS3 – V07  [e-Government users](https://digital-decade-desi.digital-strategy.ec.europa.eu/datasets/desi/charts/desi-indicators?indicator=desi_4a1&indicatorGroup=desi2023-4) | **Notation:**desi\_4a1  **Definition:**Individuals who used the Internet, in the last 12 months, for interaction with public authorities on websites or on mobile applications  **Time coverage:**2022  **Source:**[Eurostat – European Union survey on the use of ICT in households and by individuals (ISOC\_CIEGI\_AC [I\_IGOVANYS])](https://ec.europa.eu/eurostat/web/products-datasets/-/isoc_ciegi_ac" \t "_blank)  **Export:**[data](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/indicators/desi_4a1/facts/), [countries](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/countries/?indicator=desi_4a1&format=csv" \t "_blank), [breakdowns](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/breakdowns/?indicator=desi_4a1&format=csv" \t "_blank), [units](https://digital-decade-desi.digital-strategy.ec.europa.eu/api/v1/units/?indicator=desi_4a1&format=csv" \t "_blank) |