EUROPEAN COMMISSION
EUROSTAT
UNIT G4 - Innovation and Digitalisation

Availability of units from both EU surveys on ICT usage (in enterprises, in households and by individuals) 2009 – 2023

The following table lists the available units per year.

Document available only in English.

In the following summary table, the sign "x" means that the relevant unit was included in the survey and published in the given year and the sign "." means that the unit was not included and published.

Enterprises

Unit	Description	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009
MIO_EUR	Million euro	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
PC_AWSVAL	Percentage of web sales	x	x	x	x	x	x	x	x	x	x	x	x	.	.	.
pc_axsval	% of the sales via EDI-type messages	x	x	x	x	x	x	x	x	x	x	x	.	.	.	.
PC_EMP	Percentage of total employment	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
pc_emp_ade	% of the employees working in enterprises which used ADE	.	.	.	.	.	.	.	.	.	.	.	x	x	x	x
pc_emp_aebuy	% of the employees working in enterprises which placed orders via computer networks	.	.	.	.	.	.	.	.	.	.	.	.	.	.	x
PC_EMP_AESELL	Percentage of persons employed working in enterprises which received orders via computer networks	x	x	x	x	x	x	x	x	x	x	x	x	.	x	x
PC_EMP_CUSE	Percentage of persons employed using a computer	.	.	.	.	x	x	x	x	x	x	x	x	x	x	x
PC_EMP_CUSE2	Percentage of persons employed working in enterprises which use computers	.	.	.	.	.	.	.	x	x	x	x	x	x	.	.
PC_EMP_IACC	Percentage of persons employed working in an enterprise with internet access	.	.	.	.	.	.	.	.	x	x	x	x	x	x	x
PC_EMP_IUSE	Percentage of persons employed using a computer with access to the www	.	.	.	.	.	.	.	.	.	.	.	x	x	x	.
PC_EMP_PMD	Percentage of persons employed working in enterprises which provide mobile devices	.	.	.	.	.	.	.	.	.	.	x	x	.	.	.
PC_EMP_PMD1	Percentage of persons employed working in enterprises which provide mobile devices (as of 2016)	.	.	.	.	.	.	.	x	x	.	.	.	.	.	.
pc_emp_rfid	% of the employees working in enterprises which used RFID	.	.	.	.	.	.	.	.	.	.	.	.	.	.	x
pc_emp_sisc	% of the enterprises which shared information electronically on the supply chain management	.	.	.	.	.	.	.	.	.	.	.	.	.	x	x
PC_ENT	Percentage of enterprises	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
PC_ENT_ADE	Percentage of enterprises using ADE	.	.	.	.	.	.	.	.	.	.	.	x	x	x	x
PC_ENT_ADS	Percentage of enterprises using internet ads	x	.	.	.	x	.	x	.	.	.	.	.	.	.	.
PC_ENT_AEBUY	Percentage of enterprises sending e-commerce orders over the last calendar year	.	.	.	.	x	x	x	x	x	x	x	x	x	x	x
PC_ENT_AESELL	Percentage of enterprises receiving e-commerce orders over the last calendar year	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
PC_ENT_AI_EC	Percentage of the enterprises which ever considered to use any of the AI technologies	x	.	x	.	.	.	.	.	.	.	.	.	.	.	.
PC_ENT_AI_TANY	Percentage of the enterprises using at least one AI technologies	x	.	x	.	.	.	.	.	.	.	.	.	.	.	.
PC_ENT_AI_TX	Percentage of the enterprises using no AI technologies	x	.	x	.	.	.	.	.	.	.	.	.	.	.	.
PC_ENT_AWS_CMP	Percentage of enterprises with web sales via e-commerce marketplaces	.	x	x	.	.	.	.	.	.	.	.	.	.	.	.
pc_ent_awscmp_ge2	% of the enterprises which sell via at least two marketplace websites or apps	.	.	x	x	.	.	.	.	.	.	.	.	.	.	.
PC_ENT_AWSELL	Percentage of enterprises with web sales	x	x	x	x	x	x	x	x	x	x	x	x	.	.	.
PC_ENT_AWSELLX	Percentage of enterprises without web sales	.	.	.	.	.	.	.	x	x	.	.	.	.	.	.
PC_ENT_AWSEU	Percentage of enterprises with web sales to other EU countries	.	x	x	.	x	.	x	.	.	.	x	.	.	.	.
pc_ent_axsell	% of the enterprises which received orders via EDI type messages	x	x	x	x	x	x	x	x	x	x	x	x	x	.	.
PC_ENT_BD	Percentage of enterprises analysing big data	.	.	.	.	.	x	x	x	.	.	.	.	.	.	.
PC_ENT_BDA	Percentage of enterprises analysing big data internally or externally	.	.	.	x	.	.	.	.	.	.	.	.	.	.	.
pc_ent_bda_dd	% of the enterprises which analyse big data (Digital Decade)	.	x	.	.	.	.	.	.	.	.	.	.	.	.	.
PC_ENT_BDAAM	Percentage of enterprises analysing big data internally using any method	.	.	.	x	.	.	.	.	.	.	.	.	.	.	.
pc_ent_bdaec	% of the enterprises which don't analyse big data but considered to do it	.	.	.	x	.	.	.	.	.	.	.	.	.	.	.
pc_ent_bdax	% of the enterprises which don't analyse big data	.	.	.	x	.	.	.	.	.	.	.	.	.	.	.
PC_ENT_CC	Percentage of enterprises buying CC services	x	.	x	x	.	x	x	x	x	.	.	.	.	.	.
pc_ent_cc_dd	% of the enterprises which bought CC services used over the Internet (Digital Decade)	.	x	.	.	.	.	.	.	.	.	.	.	.	.	.
PC_ENT_CCX	Percentage of enterprises not buying CC services	.	.	.	.	.	.	.	.	.	x	.	.	.	.	.
PC_ENT_CUSE	Percentage of the enterprises which use a computer	.	.	.	.	x	x	x	x	x	x	x	x	x	x	x
PC_ENT_CVD_IEM	Percentage of the enterprises which increased the percentage of persons employed having remote access to their e-mail system	.	.	x	.	.	.	.	.	.	.	.	.	.	.	.
PC_ENT_CVD_IRA	Percentage of the enterprises which increased the percentage of persons employed having remote access their ICT systems other than e-mail	.	.	x	.	.	.	.	.	.	.	.	.	.	.	.
PC_ENT_CVD_IRM	Percentage of enterprises which increased the number of their remote meetings	.	.	x	.	.	.	.	.	.	.	.	.	.	.	.
PC_ENT_DAOWN	Percentage of enterprises which performed Data Analytics by the enterprise's own employees	x	.	.	.	.	.	.	.	.	.	.	.	.	.	.
PC_ENT_ECOM	Percentage of enterprises which sent/received orders via any computer networks	.	.	.	.	.	.	.	.	x	.	x	.	x	.	.
PC_ENT_FIXBB	Percentage of enterprises using a fixed broadband connection	x	x	x	x	x	x	x	x	x	.	.	.	.	.	.
PC_ENT_IACC	Percentage of the enterprises with internet access	.	.	.	.	x	x	x	x	x	x	x	x	x	x	x
pc_ent_igov2prhmx	% of the enterprises not using Internet for offering goods or services in their own country's public authorities' electronic procurement systems	.	.	.	.	.	.	.	.	.	.	.	x	.	.	.
pc_ent_igov2rt	% of the enterprises which use Internet to return filled in forms electronically, e.g. forms for customs or VAT declaration	.	.	.	.	.	.	.	.	.	.	.	x	.	.	.
PC_ENT_INV3SBG	Percentage of enterprises sending invoices B2BG	.	.	.	.	.	x	x	x	.	.	.	.	.	.	.
pc_ent_inv4r_ap	% of the enterprises which received eInvoices, suitable for automated processing	.	.	.	.	.	x	.	.	.	.	.	.	.	.	.
pc_ent_inv4s_ap	% of enterprises which sent eInvoices, suitable for automated processing	x	.	.	.	.	x	.	.	.	.	.	.	.	.	.
PC_ENT_IOT	Percentage of enterprises using Internet of Things	.	.	x	x	.	.	.	.	.	.	.	.	.	.	.
PC_ENT_IOT1	Percentage of enterprises using Internet of Things (as of 2021)	.	.	x	.	.	.	.	.	.	.	.	.	.	.	.
PC_ENT_ITSPRCR2	Percentage of enterprises which recruited / tried to recruit personnel for jobs requiring ICT specialist skills (reduced comparability with 2007)	.	x	.	x	x	x	x	x	x	.	.	.	.	.	.
PC_ENT_ITSPVAC2	Percentage of enterprises with hard-to-fill vacancies for jobs requiring ICT specialist skills (as of 2020)	.	x	.	x	.	.	.	.	.	.	.	.	.	.	.
PC_ENT_IUSE	Percentage of enterprises where persons employed have access to the internet	x	x	x	x	.	.	.	.	.	.	.	.	.	.	.
pc_ent_lan	% of the enterprises which use a lan	.	.	.	.	.	.	.	.	.	.	.	.	.	x	x
PC_ENT_P3D	Percentage of enterprises with 3D printing	.	.	.	x	.	x	.	.	.	.	.	.	.	.	.
PC_ENT_PMD	Percentage of enterprises providing to persons employed portable devices that allow a mobile connection to the internet	.	x	x	x	x	x	.	.	.	.	x	x	.	.	.

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Unit	Description	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009
PC_ENT_PMD1	Percentage of enterprises providing to persons employed portable devices that allow a mobile connection to the internet (as of 2016)	.	.	.	.	.	.	.	x	.	.	.	.	.	.	.
PC_ENT_PURCH	Percentage of total purchases	.	.	.	.	.	.	.	.	.	.	x	x	x	x	x
PC_ENT_RA	Percentage of enterprises with persons employed having remote access	.	x	.	.	.	.	.	.	.	.	.	.	.	.	.
PC_ENT_RBT	Percentage of enterprises using industrial or service robots	.	x	.	.	.	.	.	.	.	.	.	.	.	.	.
PC_ENT_RBTS	Percentage of enterprises using service robots	.	.	.	x	.	x	.	.	.	.	.	.	.	.	.
PC_ENT_RFID	Percentage of the enterprises using RFID	.	.	.	.	.	.	.	.	.	.	.	.	x	.	x
PC_ENT_RFID1	Percentage of enterprises using RFID (as of 2014)	.	.	.	.	.	.	x	.	.	x	.	.	.	.	.
PC_ENT_RM	Percentage of enterprises conducting remote meetings	.	x	.	.	.	.	.	.	.	.	.	.	.	.	.
PC_ENT_SECPOL	Percentage of enterprises with an ICT security policy	.	.	.	.	.	.	.	.	.	.	.	.	.	x	.
PC_ENT_SECPOL1	Percentage of enterprises with an ICT security policy (as of 2015)	.	.	.	.	.	.	.	.	x	.	.	.	.	.	.
PC_ENT_SECPOL2	Percentage of enterprises with document(s) on measures, practices or procedures on ICT security (as of 2019)	.	x	.	.	x	.	.	.	.	.	.	.	.	.	.
PC_ENT_SISC	Percentage of enterprises sharing information electronically on the supply chain management	.	.	.	.	.	.	x	.	x	x	.	x	.	.	x
PC_ENT_SM	Percentage of enterprises using social media	x	.	.	.	x	.	x	.	x	.	x	.	.	.	.
PC_ENT_WEB	Percentage of the enterprises having a website	x	.	x	x	x	x	x	x	x	x	x	x	x	x	x
PC_ETURN	Percentage of turnover from e-commerce	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
PC_TURN	Percentage of turnover	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x

Households and individuals

Unit	Description	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009
PC_HH	Percentage of households	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
PC_HH_BROADX	Percentage of households without broadband access	.	.	.	.	.	.	.	.	.	.	.	.	.	.	x
PC_HH_IACC	Percentage of households with internet access at home	.	.	x	x	x	x	x	x	x	x	x	x	x	x	x
PC_HH_IACCX	Percentage of households without internet access at home	.	.	.	.	x	.	x	x	x	x	x	x	x	x	x
PC_IGRTX	Percentage of individuals who have used internet but not for sending filled forms to public authorities	.	.	x	x	x	x	x	x	x	x	x	x	.	.	.
PC_IGRTX_NAPX	Percentage of individuals who have used internet but not for sending filled forms to public authorities although they had to	.	.	.	.	x	x	x	x	x	x	.	.	.	.	.
PC_IND	Percentage of individuals	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
pc_ind_avpayx	% of individuals who didn't pay for online audiovisual contents in the last 3 months	.	.	.	.	.	.	.	.	.	.	.	.	.	.	x
pc_ind_barry	% of individuals who encountered problems while ordering goods or services over the Internet	.	.	.	.	.	.	.	.	.	.	.	.	.	.	x
PC_IND_BFFOR	Percentage of individuals who purchased online from sellers from other countries (EU or non-EU)	.	.	.	.	.	.	.	x	.	.	.	.	.	.	.
PC_IND_BGT3_IU3	Percentage of individuals who used internet and did not purchase online in the last 3 months	.	.	x	.	.	.	.	.	.	.	.	.	.	.	.
PC_IND_BHHS	Percentage of individuals who purchased online household services	.	x	x	.	.	.	.	.	.	.	.	.	.	.	.
PC_IND_BLT12	Percentage of individuals who ordered goods or services, over the internet, for private use, in the last year	.	.	.	.	x	x	x	x	x	x	x	x	x	x	x
PC_IND_BMT12X	Percentage of individuals who ordered goods or services, over the internet, for private use, more than a year ago or who never did	.	.	.	.	x	.	x	.	x	.	.	.	.	.	x
PC_IND_BPG_ANY	Percentage of individuals who purchased online physical goods	x	x	x	x	.	.	.	.	.	.	.	.	.	.	.
PC_IND_BRA	Percentage of individuals who rented accommodation online from an enterprise or a private person	x	x	x	x	.	.	.	.	.	.	.	.	.	.	.
PC_IND_BTPS	Percentage of individuals who purchased online transport service from a transport enterprise or a private person	x	x	x	x	.	.	.	.	.	.	.	.	.	.	.
PC_IND_BUY3	Percentage of individuals who purchased online in the last 3 months	x	x	x	x	x	x	x	x	x	.	.	.	.	.	x
pc_ind_buyevr	% of individuals who ever ordered goods or services, over the Internet, for private use	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
pc_ind_buyx	% of individuals who never ordered goods or services, over the Internet, for private use	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
PC_IND_C3	Percentage of individuals who used a computer within the last 3 months	.	.	.	.	.	.	.	x	.	x	x	x	x	x	x
pc_ind_cc	% of individuals who use cloud services for file storage	.	.	.	.	.	.	.	.	.	x	.	.	.	.	.
PC_IND_CC_AW	Percentage of individuals who used internet, were aware of cloud services but did not use them	.	.	.	.	.	.	.	.	.	x	.	.	.	.	.
PC_IND_CC_CCS	Percentage of individuals who used internet and cloud services for file saving or sharing	.	.	.	.	.	.	.	.	.	x	.	.	.	.	.
PC_IND_CC_CCSX	Percentage of individuals who used internet but not cloud services	.	.	.	.	.	.	.	.	.	x	.	.	.	.	.
PC_IND_CEVR	Percentage of individuals who used a computer, ever	.	.	.	.	.	.	.	.	.	x	.	x	x	x	x
PC_IND_CIANY	Percentage of individuals who have done at least one of the listed computer or internet activities	.	.	.	.	.	.	.	.	.	.	.	.	x	.	.
pc_ind_clt12	% of individuals who used a computer within the last year	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
PC_IND_CTMT3YX	Percentage of individuals who have taken a computer course more than 3 years ago or never	.	.	.	.	.	.	.	.	.	.	.	.	x	.	x
pc_ind_hm	% of individuals who encountered messages online that were considered to be hostile or degrading towards groups of people	x	.	.	.	.	.	.	.	.	.	.	.	.	.	.
pc_ind_iday	% of individuals who, in the last 3 months, accessed the Internet, on average, every day or almost every day	.	.	x	x	x	x	.	.	.	.	.	.	.	.	.
pc_ind_ieid	% of individuals who have used electronic identification (eID)(s) to access online services for private purpose	x	.	.	.	.	.	.	.	.	.	.	.	.	.	.
pc_ind_ieidx	% of individuals who have not used electronic identification (eID)(s) to access online services for private purpose	x	.	.	.	.	.	.	.	.	.	.	.	.	.	.
pc_ind_igov12nrt	% of individuals who need to submit official forms to administrative authorities	.	.	x	x	x	x	x	x	x	x	x	x	.	.	.
pc_ind_igovanys	% of individuals who have used, in the last 12 months, a website or app of public authorities	x	x	.	.	.	.	.	.	.	.	.	.	.	.	.
pc_ind_igovpx	% of individuals who don't use Internet for dealing with public services or administrations	.	.	.	.	.	.	.	.	.	.	.	.	.	.	x
pc_ind_igovrx	% of individuals who have not requested, in the last 12 months, official documents or certificates, benefits or entitlements, or made other requests, claims or complaints	x	x	.	.	.	.	.	.	.	.	.	.	.	.	.
pc_ind_igovyp	% of individuals who use or are interested to use Internet for dealing with public services or administrations	.	.	.	.	.	.	.	.	.	.	.	.	.	.	x
pc_ind_ihm	% of individuals who used Internet, at home, in the last 3 months	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
PC_IND_ILT12	Percentage of individuals who used internet within the last year	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
PC_IND_ILT12_SSF	Percentage of employees and self-employed who used internet within the last year	.	.	.	.	x	.	.	.	.	.	.	.	.	.	.
PC_IND_IOT_BDKX	Percentage of individuals who have not used any internet-connected device or systems although they knew about them	.	x	.	x	.	.	.	.	.	.	.	.	.	.	.
PC_IND_IOT_DX	Percentage of individuals who have not used any internet-connected devices or systems	.	x	.	x	.	.	.	.	.	.	.	.	.	.	.
pc_ind_iot_use	% of individuals who have used internet connected devices for private purposes	.	x	.	.	.	.	.	.	.	.	.	.	.	.	.
PC_IND_IU3	Percentage of individuals who used internet in the last 3 months	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
PC_IND_IUEVR	Percentage of individuals who used internet, ever	.	.	.	.	.	.	.	x	.	x	.	x	x	x	x
PC_IND_IUG_TV	Percentage of individuals who used the internet on a smart TV (directly connected to the internet)	.	.	.	.	.	.	.	x	.	.	.	.	.	.	.
PC_IND_IUGOV12	Percentage of e-government users	.	.	.	.	.	.	.	.	.	.	x	.	.	.	.

Unit	Description	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009
PC_IND_IUHD	Percentage of individuals who used a handheld device to access internet	.	.	.	.	.	.	.	.	.	.	.	x	.	.	.
pc_ind_iuhd_mph	% of individuals who have used a handheld device to access the internet via the mobile phone network away from home or work in the last 3 months	.	.	.	.	.	.	.	.	.	.	.	x	.	.	.
PC_IND_IUMC	Percentage of individuals who have used a portable computer to access internet	.	.	.	.	.	.	x	x	x	x	x	.	.	.	.
PC_IND_IUMD	Percentage of individuals who used a handheld device or portable computer to access internet	.	.	.	.	.	.	.	.	.	.	.	x	.	.	.
PC_IND_IUMDX	Percentage of individuals who didn't use a handheld device or portable computer to access internet	.	.	.	.	.	.	.	.	.	.	.	x	.	.	.
pc_ind_iumf	% of individuals who dowloaded/listened to/watched music or films in the last 3 months	.	.	.	.	.	.	.	.	.	.	.	.	.	.	x
pc_ind_iumfxp	% of individuals who dowloaded/listened to/watched/exchanged/podcatsed music or films in the last 3 months	.	.	.	.	.	.	.	.	.	.	.	.	.	.	x
pc_ind_iump	% of individuals who use a mobile phone, a portable computer or another mobile device to access the internet away from home or work	.	.	.	.	.	.	x	x	x	x	x	.	.	.	.
pc_ind_iuoany	% of individuals who have used internet, in the last 3 months, for any of the learning activities i_iuolc, i_iulm, i_iuocis	.	x	.	.	.	.	.	.	.	.	.	.	.	.	.
PC_IND_IUP2P_WRK	Percentage of individuals who have obtained paid work by using an intermediary website or apps	.	.	.	.	x	x	.	.	.	.	.	.	.	.	.
pc_ind_iuph1	% of individuals who used Internet for telephoning or video calls in the last 3 months	.	.	.	.	.	.	.	.	.	.	.	.	.	.	x
PC_IND_MDW	Percentage of individuals who, at work, use any type of computers, portable devices or computerised equipment or machinery	.	.	.	.	.	x	.	.	.	.	.	.	.	.	.
PC_IND_MPP	Percentage of individuals who use a smartphone for private purposes	.	.	.	.	.	x	.	.	.	.	.	.	.	.	.
PC_IND_MPP1	Percentage of individuals who use a smartphone for private purposes (3 months)	.	.	.	x	.	.	.	.	.	.	.	.	.	.	.
PC_IND_SCSOFT	Percentage of individuals who used security software or tool	.	.	.	.	.	.	.	.	.	.	.	.	.	x	.
PC_IND_SCUAVX	Percentage of individuals who don't update their security products	.	.	.	.	.	.	.	.	.	.	.	.	.	x	.
PC_IND_SECOITPP	Percentage of individuals who have experienced online identity theft, phishing or pharming	.	.	.	.	x	.	.	.	.	.	.	.	.	.	.
pc_ind_sktp	% of individuals who have, in the last 12 months, carried out at least one learning activity to improve their skills relating to the use of computers	.	.	.	.	.	x	.	.	.	.	.	.	.	.	.
pc_ind_tc3	% of individuals who took any training course in the last 3 months	.	.	.	.	.	.	.	.	.	.	.	.	.	.	x
pc_ind_tele	% of individuals who have used the Internet, for work related activities, outside the premises of their employer, in the last 3 months	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
PC_IND_TIC	Percentage of individuals who checked the truthfulness of the information or content found on the internet news sites or social media	x	.	x	.	.	.	.	.	.	.	.	.	.	.	.
PC_IND_TICX	Percentage of individuals who did not check the truthfulness of the information or content found on the internet news sites or social media	x	.	x	.	.	.	.	.	.	.	.	.	.	.	.
PC_IND_UDI	Percentage of individuals who saw untrue or doubtful information or content on the internet news sites or social media	x	.	x	.	.	.	.	.	.	.	.	.	.	.	.
pc_ind_umph	% of individuals who use a mobile phone	.	.	.	.	.	.	.	.	.	.	.	.	.	.	x
PC_IND_WH	Percentage of individuals working from home	.	.	.	.	.	x	.	.	.	.	.	.	.	.	.
PC_IND_WM	Percentage of individuals working at an external site or on the move	.	.	.	.	.	x	.	.	.	.	.	.	.	.	.