

**Footnotes to results of the survey on ICT usage and e-commerce in enterprises (NACE Rev. 2) - v 20211216**

survey year	country	variable	Note
*	*	E_ESELL	E-commerce data refer to the calendar year preceding the survey year. e_esell has a threshold of 1%, i.e. only enterprises selling at least 1% of their total turnover online are included. It includes both sales via a website or apps and other networks (e.g. EDI).
*	*	E_ETURN	E-commerce data refer to the calendar year preceding the survey year.
*	*	E_EBUY2	E-commerce data refer to the calendar year preceding the survey year. e_ebuy respectively e_ebuy2 has a threshold of 1%, i.e. only enterprises purchasing at least 1% of their total purchases online are included. It includes both purchases via a website or apps and over other networks (e.g. EDI).
*	*	E_ITSP2	Data on enterprises providing training to ICT specialists refer to the calendar year preceding the survey year.
*	*	E_ITSPRCR2	Data on enterprises recruiting or trying to recruit ICT specialists refer to the calendar year preceding the survey year.
*	*	E_ITSPVAC2	Data on enterprises having hard-to-fill vacancies for ICT specialists refer to the calendar year preceding the survey year.
*	*	E_ITT2	Data on enterprises providing training to develop ICT related skills of the persons employed refer to the calendar year preceding the survey year.
*	*	E_ITUST2	Data on enterprises providing training to develop ICT related skills of other persons employed refer to the calendar year preceding the survey year.
*	*	E_BD*	Data on enterprises conducting Big data analysis refer to the calendar year preceding the survey year.
*	*	E_P3D*	Data on enterprises that use 3D printing refer to the calendar year preceding the survey year.
*	*	E_SISC	Limited comparability as some countries don't mention that sharing SCM information electronically excludes e-mails.
2021	AT	*	Rounding differences occur. Due to item non-response for nearly all questions, many variables do not sum up correctly.
2021	AT	e_ai_ec	Due to item non-response in ai_bcst, ai_ble, ai_binc, ai_bddt, ai_bcdp, ai_bleg, ai_bec, ai_bnu, this variable does not sum up correctly.
2021	AT	e_ai_tany	Due to item non-response in ai_ppp, ai_down, ai_aos, ai_ext, ai_ardy, this variable does not sum up correctly.
2021	AT	e_ai_tx	Due to item non-response in ai_ec, this variable does not sum up correctly in some breakdowns.
2021	AT	e_awscomp_ge2	Due to item non-response in aws_cmpdm, this variable does not sum up correctly in some breakdowns.
2021	AT	e_awseu	Due to item non-response in awseu_dapl, awseu_dbp, awseu_dfl, awseu_dhcd, awseu_drcd, this variable does not sum up correctly in some breakdowns.
2021	AT	e_cc	Due to item non-response in cc_pem, cc_psoft, cc_pfacc, cc_perp, cc_pcrm, cc_psec, cc_pdb, cc_pfil, cc_pcpu, cc_pdev, this variable does not sum up correctly in some breakdowns.
2021	AT	e_cc1_bi	Due to item non-response in cc_psec, cc_pdb, cc_pdev, this variable does not sum up correctly in some breakdowns.
2021	AT	e_fixbb	Due to item non-response in ispdf1, this variable does not sum up correctly in some breakdowns.
2021	AT	e_iuse	Due to item non-response in cvd_iem, cvd_ira, cvd_irm, cvd_iesi, this variable does not sum up correctly in some breakdowns.
2021	AT	e_web	Due to item non-response in webacc, webctm, webord, webot, webper, websm this variable does not sum up correctly in some breakdowns.
2021	AT	E_IOT1	Filter question was not added in the questionnaire
2021	CZ	E_CC	Due to the use of no filter question, data is less comparable with other countries and also difficult to compare year-on-year
2021	CZ	E_IOT1	Due to the use of filter question in 2021 and no filter question in 2020, the data are difficult to compare year-on-year
2021	DK	*	Use and non-use do not always sum up to total due to nonresponse
2021	FI	E_AI_EC	YES AND NO ANSWERS IN REASONS NOT TO USE AI DO NOT ALWAYS SUM UP TO CONSIDERATION TO USE DUE TO NONRESPONSE IN DIFFICULTIES
2021	FI	E_AI_TANY	YES AND NO ANSWERS IN USE AND SOURCE OF AI QUESTIONS DO NOT ALWAYS SUM UP TO USE OF AI DUE TO NONRESPONSE
2021	FI	E_AI_TX	YES AND NO ANSWERS IN CONSIDERING TO USE AI DOES NOT ALWAYS SUM UP TO NON-USE OF AI DUE TO NONRESPONSE IN CONSIDERING
2021	FI	E_AWSELL	DOES NOT ALWAYS SOME UP TO "NO" AND "YES" RESPONSES IN SALES VIA MARKETPLACE DUE TO NONRESPONSE
2021	FI	E_AWSEU	YES AND NO ANSWERS IN DIFFICULTIES TO SELL IN EU DO NOT ALWAYS SUM UP TO SELLING TO EU DUE TO NONRESPONSE IN DIFFICULTIES
2021	FI	E_AWSVAL	NONRESPONSE CAUSE THAT SUM OF WEBSALES VIA OWN WEBSITE AND MARKETPLACES IS SMALLER THAN TOTAL WEB SALES.
2021	FI	E_AWSVAL_B2BG	NONRESPONSE CAUSE THAT SUM OF WEB SALES B2C AND B2BG MAY BE SMALLER THAN TOTAL WEB SALES
2021	FI	E_AWSVAL_B2C	NONRESPONSE CAUSE THAT SUM OF WEB SALES B2C AND B2BG MAY BE SMALLER THAN TOTAL WEB SALES
2021	FI	E_CC	USE AND NON-USE OF DIFFERENT CLOUD SERVICES DO NOT ALWAYS SUM UP TO USE OF CLOUD DUE TO NONRESPONSE IN CLOUD SERVICES
2021	FI	E_EMPMD2_GT0	NUMBER OF "0<" RESPONSES DOES NOT ALWAYS SOME UP TO PROVIDED DEVICES DUE TO NONRESPONSE IN NUMBER OF PERSONS QUESTION
2021	FI	E_FIXBB	(E_FIXBB) IS NOT ALWAYS THE SAME AS SUM OF SPEEDS DUE TO NONRESPONSE IN SPEED QUESTION
2021	FI	E_IOT	USE AND NON-USE OF DIFFERENT IOT DO NOT ALWAYS SUM UP TO IOT DUE TO NON RESPONSE IN IOT USES
2021	FI	E_ISPDF1_30_100	(E_FIXBB) IS NOT ALWAYS THE SAME AS SUM OF SPEEDS DUE TO NONRESPONSE IN SPEED QUESTION
2021	FI	E_ISPDF_100_500	(E_FIXBB) IS NOT ALWAYS THE SAME AS SUM OF SPEEDS DUE TO NONRESPONSE IN SPEED QUESTION
2021	FI	E_ISPDF_500_1G	(E_FIXBB) IS NOT ALWAYS THE SAME AS SUM OF SPEEDS DUE TO NONRESPONSE IN SPEED QUESTION
2021	FI	E_ISPDF_GE1G	(E_FIXBB) IS NOT ALWAYS THE SAME AS SUM OF SPEEDS DUE TO NONRESPONSE IN SPEED QUESTION
2021	FI	E_ISPDF_LT30	(E_FIXBB) IS NOT ALWAYS THE SAME AS SUM OF SPEEDS DUE TO NONRESPONSE IN SPEED QUESTION
2021	FI	E_IUSE	USE AND NON-USE OF DIFFERENT TECHNOLOGIES DO NOT SUM UP ALWAYS TO INTERNET ACCESS DUE TO NON-RESPONSE IN TECHNOLOGY USE
2021	FI	E_PMD	(E_PMD) IS NOT ALWAYS THE SAME AS (E_EMPMD2_GT0) DUE TO NONRESPONSE IN QUESTION ON NUMBER DEVICES

**Footnotes to results of the survey on ICT usage and e-commerce in enterprises (NACE Rev. 2) - v 20211216**

survey year	country	variable	Note
2021	FI	E_WEB	USE AND NON-USE OF WEBSITE FUNCTIONALITIES DO NOT SUM UP ALWAYS TO HAVING A WEB-SITE DUE TO NON-RESPONSE IN FUNCTIONALITIES
2021	HR	*	All aggregates where number of respondents was lower than 3 were flagged as confidential.
2021	IE	E_FIXBB	Changes in the online questionnaire layout. None of the above question asked for the first time in 2
2021	IE	E_FIXBBZ	Changes in the online questionnaire layout. None of the above question asked for the first time in 2
2021	IE	E_SM1_1	Changes in the online questionnaire layout. Yes or No answers replaced by Tick all that apply box
2021	IE	E_SM1_ANY	Changes in the online questionnaire layout. Yes or No answers replaced by Tick all that apply box
2021	IE	E_SM1_BLOG	Changes in the online questionnaire layout. Yes or No answers replaced by Tick all that apply box
2021	IE	E_SM1_CNTSHR	Changes in the online questionnaire layout. Yes or No answers replaced by Tick all that apply box
2021	IE	E_SM1_GE2	Changes in the online questionnaire layout. Yes or No answers replaced by Tick all that apply box
2021	IE	E_SM1_SNET	Changes in the online questionnaire layout. Yes or No answers replaced by Tick all that apply box
2021	IE	E_SM1_WIKI	Changes in the online questionnaire layout. Yes or No answers replaced by Tick all that apply box
2021	IE	E_WEB_SM1_ANY	Changes in the online questionnaire layout. Yes or No answers replaced by Tick all that apply box
2021	IE	E_AWSEU_DANY	Marked unreliable as VAT question accidentally not asked
2021	IE	E_AWSEU_DNONE	Marked unreliable as VAT question accidentally not asked
2021	IT	*	Since year 2021 IT adopts ENTERPRISE as statistical unit (and no longer LEGAL UNIT). This innovation could have an impact on time series.
2021	LU	EMPL	Preliminary data, based on SBS preliminary data 2020.
2021	LU	TOVT	Preliminary data, based on SBS preliminary data 2020.
2021	PT	*	Due to rounding, totals may not correspond exactly to the sum of the parts.
2021	SE	*	Not all questions asked from micro enterprises
2021	SE	E_AWSVAL_EU	$E\_AWSVAL = E\_AWSVAL\_HM + E\_AWSVAL\_EU + E\_AWSVAL\_WW$ , due to item non-response on E_AWSVAL_EU inconsistency in breakdowns 10_C19, 10_C19_23, 10_C26, 10_C27, 10_M72
2021	SE	E_AWSVAL_HM	$E\_AWSVAL = E\_AWSVAL\_HM + E\_AWSVAL\_EU + E\_AWSVAL\_WW$ , due to item non-response on E_AWSVAL_HM inconsistency in breakdowns 10_C19, 10_C19_23, 10_C26, 10_C27, 10_M72
2021	SE	E_AWSVAL_WW	$E\_AWSVAL = E\_AWSVAL\_HM + E\_AWSVAL\_EU + E\_AWSVAL\_WW$ , due to item non-response on E_AWSVAL_WW inconsistency in breakdowns 10_C19, 10_C19_23, 10_C26, 10_C27, 10_M72
2021	SE	E_IOT1	Variable derived for all breakdowns. Filter question was not added in the questionnaire.
2021	SI	E_DI3_HI	Break in time series.
2021	SI	E_DI3_LO	Break in time series.
2021	SI	E_DI3_VHI	Break in time series.
2021	SI	E_DI3_VLO	Break in time series.
2021	SI	E_IOT1	Filter question was not added in the questionnaire
2021	TR	E_DI3_HI	Not available due to some components of index not published at national level.
2021	TR	E_DI3_LO	Not available due to some components of index not published at national level.
2021	TR	E_DI3_VHI	Not available due to some components of index not published at national level.
2021	TR	E_DI3_VLO	Not available due to some components of index not published at national level.
2021	TR	E_AWSEU_DANY	It is not comparable. The question was asked as "Difficulties when selling to other countries via a website or apps - any" (not only EU countries) in survey.
2021	TR	E_AWSEU_DAPL	It is not comparable. The question was asked as "Difficulties when selling to other countries via a website or apps - adapting product labelling" (not only EU countries) in survey.
2021	TR	E_AWSEU_DAPLX	It is not comparable. The question was asked as "Difficulties when selling to other countries via a website or apps - not adapting product labelling" (not only EU countries) in survey.
2021	TR	E_AWSEU_DBP	It is not comparable. The question was asked as "Difficulties when selling to other countries via a website or apps - restrictions from business partners" (not only EU countries) in survey.
2021	TR	E_AWSEU_DBPX	It is not comparable. The question was asked as "Difficulties when selling to other countries via a website or apps - not the restrictions from business partners" (not only EU countries) in survey.
2021	TR	E_AWSEU_DFL	It is not comparable. The question was asked as "Difficulties when selling to other countries via a website or apps - lack of knowledge of foreign languages" (not only EU countries) in survey.
2021	TR	E_AWSEU_DFLX	It is not comparable. The question was asked as "Difficulties when selling to other countries via a website or apps - not the lack of knowledge of foreign languages" (not only EU countries) in survey.
2021	TR	E_AWSEU_DHCD	It is not comparable. The question was asked as "Difficulties when selling to other countries via a website or apps - high costs of delivering or returning products" (not only EU countries) in survey.
2021	TR	E_AWSEU_DHCDX	It is not comparable. The question was asked as "Difficulties when selling to other countries via a website or apps - not the high costs of delivering or returning products" (not only EU countries) in survey.
2021	TR	E_AWSEU_DNONE	It is not comparable. The question was asked as "Difficulties when selling to other countries via a website or apps - none" (not only EU countries) in survey.

**Footnotes to results of the survey on ICT usage and e-commerce in enterprises (NACE Rev. 2) - v 20211216**

survey year	country	variable	Note
2021	TR	E_AWSEU_DRCD	It is not comparable. The question was asked as "Difficulties when selling to other countries via a website or apps - related to resolving complaints and disputes" (not only EU countries) in survey.
2021	TR	E_AWSEU_DRCDX	It is not comparable. The question was asked as "Difficulties when selling to other countries via a website or apps - not related to resolving complaints and disputes" (not only EU countries) in survey.
2021	TR	E_AWSEU_DVAT	It is not comparable. The question was asked as "Difficulties when selling to other countries via a website or apps - difficulties related to the VAT system in other countries" (not only EU countries) in survey.
2021	TR	E_AWSEU_DVATX	It is not comparable. The question was asked as "Difficulties when selling to other countries via a website or apps - not the difficulties related to the VAT system in other countries" (not only EU countries) in survey.
2020	CZ	E_IOT	Due to the use of no filter question and wider scope, data is less comparable with other countries.
2020	FI	E_AWSELL	DOES NOT ALWAYS SOME UP TO \NO\ AND \YES\ RESPONSES IN SALES VIA MARKETPLACE DUE TO NONRESPONSE"
2020	FI	E_AWSVAL	NONRESPONSE CAUSE THAT SUM OF WEBSALES VIA OWN WEBSITE AND MARKETPLACES IS SMALLER THAN TOTAL WEB SALES.
2020	FI	E_AWSVAL_B2BG	NONRESPONSE CAUSE THAT SUM OF WEB SALES B2C AND B2BG MAY BE SMALLER THAN TOTAL WEB SALES
2020	FI	E_AWSVAL_B2C	NONRESPONSE CAUSE THAT SUM OF WEB SALES B2C AND B2BG MAY BE SMALLER THAN TOTAL WEB SALES
2020	FI	E_BDAEC	SUM OF YES AND NO ANSWERS IN E4 ON \EVER CONSIDERED\ IS NOT ALWYAS THE SAME AS NOT ANALYSING (E_BDAX) DUE TO NONRESPOSNE IN E4"
2020	FI	E_BDAINT	SUM OF YES AND NO ANSWERS IN E2 ARE NOT ALWYAS THE SAME AS (E_BDAINT) DUE TO NONRESPOSNE IN E2
2020	FI	E_CC_PNONE	COUNTED AS: EACH COMPONENT VARIABLE (X) COUNTED AS (X=0 OR X=NULL) BECAUSE IT IS LESS RELEVANT TO COUNT ONLY 0-ANSWERS FROM OUR DATA DUE TO NONRESPONSE
2020	FI	E_EMPMD2_GTO	NUMBER OF \0<\ RESPONSES (A6) DOES NOT ALWAYS SOME UP TO PROVIDED DEVICES (A5) DUE TO NONRESPONSE IN NUMBER OF PERSONS QUESTION (A6)"
2020	FI	E_FIXBB	(E_FIXBB) IS NOT ALWAYS THE SAME AS SUM OF SPEEDS DUE TO NONRESPONSE IN SPEED QUESTION A3
2020	FI	E_INV4S_AP	(E_INV4S_AP) IN NOT ALWAYS THE SAME AS SUM OF CATEGORIES ON AMOUNTS IN QUESTION C2 DUE TO NONRESPONSE IN C2
2020	FI	E_ISPDFOK	(E_FIXBB) IS NOT ALWAYS THE SAME AS SUM OF SPEED BEING SUFFICIENT OR NOT (QUESTION A4) DUE TO NONRESPONSE IN A4 (E_ISPDFOK+E_ISPDFOKX)
2020	FI	E_ISPDFOKX_100_500	NOT AVAILABLE DUE TO ERROR IN DATA COLLECTION
2020	FI	E_ISPDFOKX_500_1G	NOT AVAILABLE DUE TO ERROR IN DATA COLLECTION
2020	FI	E_ISPDFOKX_GE1G	NOT AVAILABLE DUE TO ERROR IN DATA COLLECTION
2020	FI	E_ISPDF_100_500	NOT AVAILABLE DUE TO ERROR IN DATA COLLECTION
2020	FI	E_ISPDF_500_1G	NOT AVAILABLE DUE TO ERROR IN DATA COLLECTION
2020	FI	E_ISPDF_GE1G	NOT AVAILABLE DUE TO ERROR IN DATA COLLECTION
2020	FI	E_IT_EXT	SUM OF (E_IT_EXT + E_IT_EXTX) IS NOT ALWAYS THE SAME AS (POP) DUE TO NONRESPONSE IN QUESTION F6
2020	FI	E_IUSE	(E_IUSE) IS NOT ALWAYS THE SAME AS SUM OF (E_CHTB + E_CHTBX) DUE TO NONRESPOONSE IN QUESTION A9 ON CHAT
2020	FI	E_PMD	(E_PMD) IS NOT ALWAYS THE SAME AS (E_EMPMD2_GTO) DUE TO NONRESPONSE IN QUESTION A6 ON NUMBER DEVICES
2020	FI	E_WEB	USE AND NON-USE OF WEBSITE FUNCTIONALITIES DO NOT SUM UP ALWAYS TO HAVING A WEB-SITE DUE TO NON-RESPOSNE IN FUNCTIONALITIES
2020	HU	E_BDAOM	Most enterprise who ticked that they use BDA, said using other methods of BDA.
2020	LU	EMP	Preliminary data, based on SBS preliminary data 2019.
2020	LU	TURN	Preliminary data, based on SBS preliminary data 2019.
2020	NO	E_ITSPT2	Error on E_ITSPT2 <= E_ITSP2 for some groups, total 26 ent. Some interpreted the F1 and F2 referres to diff. years. Error occurred while the data is correct. This may not be considered as a real error
2020	PT	*	Due to rounding, totals may not correspond exactly to the sum of the parts.
2020	PT	E_ITSP2	New scope of question: all enterprises instead of enterprises with computers.
2020	PT	E_ITSPRCR2	New scope of question: all enterprises instead of enterprises with computers.
2020	PT	E_ITSPT2	New scope of question: all enterprises instead of enterprises with computers.
2020	PT	E_ITSPVAC2	New scope of question: all enterprises instead of enterprises with computers.
2020	PT	E_ITT2	New scope of question: all enterprises instead of enterprises with computers.
2020	PT	E_ITUST2	New scope of question: all enterprises instead of enterprises with computers.
2020	PT	E_IT_EXT	New scope of question: all enterprises instead of enterprises with computers.
2020	PT	E_IT_OWN	New scope of question: all enterprises instead of enterprises with computers.
2020	SE	E_RBTS_AW	E_RBTS = E_RBTS_AW + E_RBTS_AWX, due to item non-response on E_RBTS_AW/E_RBTS_AWX inconsistency in several breakdowns
2020	SE	E_RBTS_CDR	E_RBTS = E_RBTS_CDR + E_RBTS_CDRX, due to item non-response on E_RBTS_CDR/E_RBTS_CDRX inconsistency in several breakdowns
2020	SE	E_RBTS_SC	E_RBTS = E_RBTS_SC + E_RBTS_SCX, due to item non-response on E_RBTS_SC/E_RBTS_SCX inconsistency in several breakdowns for micro enterprises

**Footnotes to results of the survey on ICT usage and e-commerce in enterprises (NACE Rev. 2) - v 20211216**

survey year	country	variable	Note
2020	SE	E_WEBCTM	Changed from Possibility for visitors to customise or design online goods or services to Functions for defining a search on the site
2020	SE	E_IUSE_GT50	It was added that employees that share a computer with access to internet and count with employees that do not use the computer but they still have access to internet should be included
2020	SE	*	Regarding microenterprises: 242 enterprises were imputed in the cloud module due to a technical error in the survey that caused enterprises jump over the module when answering "No" to E_PMD"
2020	SE	E_BDAEC	E_BDAX = E_BDAEC + E_BDAECX, due to item non-response on E_BDAEC/E_BDAECX inconsistency in breakdowns 10_C19_23, 10_G47 and 10_M69_74
2020	SE	E_BDAML	E_BDAINT = E_BDAML + E_BDAMLX, due to item non-response on E_BDAML/E_BDAMLX inconsistency in breakdowns 10_C31_33, 10_G45_47, 10_G47, 10_ICT_T, 10_J62_63 and M_G45_S951_XK
2020	SE	E_BDANL	E_BDAINT = E_BDANL + E_BDANLX, due to item non-response on E_BDANL/E_BDANLX inconsistency in several breakdowns
2020	SE	E_BDAOM	E_BDAINT = E_BDAOM + E_BDAOMX, due to item non-response on E_BDAOM/E_BDAOMX inconsistency in several breakdowns
2020	SE	E_CC_PANY	E_CC = E_CC_PANY + E_CC_PNONE, due to item non-response on E_CC_PANY/E_CC_PNONE inconsistency in several breakdowns for micro enterprises, Regarding microenterprises: 242 enterprises were imputed
2020	SE	E_CC_PCPU	E_CC = E_CC_PCPU + E_CC_PCPUX, due to item non-response on E_CC_PCPU/E_CC_PCPUX inconsistency in several breakdowns for micro enterprises, Regarding microenterprises: 242 enterprises were imputed
2020	SE	E_CC_PCRM	E_CC = E_CC_PCRM + E_CC_PCRMX, due to item non-response on E_CC_PCRM/E_CC_PCRMX inconsistency in several breakdowns for micro enterprises, Regarding microenterprises: 242 enterprises were imputed
2020	SE	E_CC_PDB	E_CC = E_CC_PDB + E_CC_PDBX, due to item non-response on E_CC_PDB/E_CC_PDBX inconsistency in several breakdowns for micro enterprises, Regarding microenterprises: 242 enterprises were imputed
2020	SE	E_CC_PEM	E_CC = E_CC_PEM + E_CC_PEMX, due to item non-response on E_CC_PEM/E_CC_PEMX inconsistency in several breakdowns for micro enterprises, Regarding microenterprises: 242 enterprises were imputed
2020	SE	E_CC_PFACC	E_CC = E_CC_PFACC + E_CC_PFACCX, due to item non-response on E_CC_PFACC/E_CC_PFACCX inconsistency in several breakdowns for micro enterprises, Regarding microenterprises: 242 enterprises were imputed
2020	SE	E_CC_PFIL	E_CC = E_CC_PFIL + E_CC_PFILX, due to item non-response on E_CC_PFIL/E_CC_PFILX inconsistency in breakdowns M09_G47, M09_I55 and M09_I55_56, Regarding microenterprises: 242 enterprises were imputed
2020	SE	E_CC_PSOF	E_CC = E_CC_PSOF + E_CC_PSOFX, due to item non-response on E_CC_PSOF/E_CC_PSOFX inconsistency in several breakdowns for micro enterprises, Regarding microenterprises: 242 enterprises were imputed
2020	SE	E_DI2_VHI	Missing for micro enterprises in all breakdowns because many variables in the index are not included in the micro survey
2020	SE	E_IOTDCUS	E_IOT = E_IOTDCUS + E_IOTDCUSX, due to item non-response on E_IOTDCUS/E_IOTDCUSX inconsistency in several breakdowns
2020	SE	E_IOTDEC	E_IOT = E_IOTDEC + E_IOTDECX, due to item non-response on E_IOTDEC/E_IOTDECX inconsistency in breakdowns 10_G47, M_C10_S951_XK and M_G45_S951_XK
2020	SE	E_IOTDMTN	E_IOT = E_IOTDMTN + E_IOTDMTNX, due to item non-response on E_IOTDMTN/E_IOTDMTNX inconsistency in several breakdowns
2020	SE	E_IOTDOTH	E_IOT = E_IOTDOTH + E_IOTDOTHX, due to item non-response on E_IOTDOTH/E_IOTDOTHX inconsistency in breakdowns 10_G47, M_G45_S951_XK
2019	*	E_SECPREV_*	For some countries reduced comparability to 2015 due to changed question: 'ICT security policy' replaced by 'document(s) on measures, practices or procedures on ICT security'.
2019	*	E_DI_*	Digital intensity index is naturally affected by change in composition of variables over the years (see details per year in Digital Intensity Index description on <a href="http://ec.europa.eu/eurostat/cache/metadata/en/isoc_e_esms.htm">http://ec.europa.eu/eurostat/cache/metadata/en/isoc_e_esms.htm</a> )
2019	PL	E_CRM	High increase due to national examples added to questionnaire;
2019	PL	E_ITSP2	High increase due to additional validation with item E3a
2019	SE	E_ITSP2X_ITT2	Examples on type of professions were added. E.g. Software, web or system developer, IT manager, network technician, computer technician
2019	SE	E_WEBORD	Changed question from Possibility to place orders, make reservations or booking to Possibility to order or book directly on the website via e.g. shopping cart or a booking system
2019	SE	E_WEBACC	Changed question from Product catalog or price list to Description of goods or services, price lists; improved comparability.
2019	SE	E_WEBCTM	Changed question from Possibility for visitors to customise or design online goods or services to Functions for defining a search on the site; reduced comparability.
2019	SE	E_ITUST2	Added example: E.g. training in standard programs for word processing or calculation, use of company applications or systems, use of programs or systems to control machinery.
2019	SE	E_ITSP2	Examples on type of professions were added. E.g. Software, web or system developer, IT manager, network technician, computer technician
2019	SE	E_IUSE_GT10	It was added that employees that share a computer with access to internet and count with employees that do not use the computer but they still have access to internet should be included
2019	SE	E_IUSE_GT50	It was added that employees that share a computer with access to internet and count with employees that do not use the computer but they still have access to internet should be included
2019	SE	E_IUSE_GE10A	It was added that employees that share a computer with access to internet and count with employees that do not use the computer but they still have access to internet should be included
2019	SE	E_ITT2	Added example: E.g. training in standard programs for word processing or calculation, use of company applications or systems, use of programs or systems to control machinery.
2019	SE	E_SM1_WIKI	Added explanation on Wiki: Refers to internal or external knowledge exchange sites where content is created (and subject to change) directly by anyone using the site without prior review.
2019	SE	E_SM1_CNTSHR	Added examples on poddradio, poddtv

**Footnotes to results of the survey on ICT usage and e-commerce in enterprises (NACE Rev. 2) - v 20211216**

survey year	country	variable	Note
2019	SE	E_SM1_BLOG	Added that both internal or external blogs / micro blogs should be included in the answer
2019	SE	E_PMD	It was added that employees that share a computer with access to internet and count with employees that do not use the computer but they still have access to internet should be included
2019	SE	E_AXSELL	From the experience we have seen that the respondents think of invoicing. Changed the wording order in question to enhance that EDI sales is meant
2019	SE	E_SECMANY	May be reduced comparability for micro enterprises as the result is based on SECMSPSW SECMKSUD SECMOSBU replies only
2019	FI	E_AWS_CMP	Does not always sum up to AWSELL due to item non-response
2019	FI	E_AWS_COWN	Does not always sum up to AWSELL due to item non-response
2019	FI	E_EMPMD2_GTO	NUMBER OF \"0<\" RESPONSES (C6) DOES NOT ALWAYS SOME UP TO PROVIDED DEVICES (C5) DUE TO NONRESPONSE IN NUMBER OF PERSONS QUESTION (C6)
2019	DK	*	Differences due to non response in several variables.
2019	LU	E_AWS_CMP	Web sales via own website and via marketplaces do not sum up to web sales due to item non response.
2019	LU	E_AWS_COWN	Web sales via own website and via marketplaces do not sum up to web sales due to item non response.
2019	DE	*	Sum of subitems do not sum up to filter due to non response in several variables.
2019	RS	E_AWSELL	Interviewers misunderstood that web sales should not include orders by email, results overestimated
2019	RS	E_AWS_COWN	Interviewers misunderstood that web sales should not include orders by email, results overestimated
2019	PT	E_WEB	In 2019 the note referring to the presence in social networks was removed (ex. facebook), hence decrease.
2019	DE	E_AWSHM	Question was changed in 2018. Before 2018 respondents were asked for orders and bookings. Since 2018 respondents are asked for sales.
2019	EL	E_IT_EXT	Removed this and related variables as not comparable due to filter problem
2019	EL	E_IT_OWN	Removed this and related variables as not comparable due to filter problem
2019	TR	E_WEB	Enterprises having an account on specific social media was not considered enterprises having a website in 2019.
2019	FR	E_ERP1	Break in series: Definition of ERP is more visible from 2019 on (now under the question while before it was available in a speech bubble in the web questionnaire or in a glossary in the paper questionnaire)
2019	FR	E_ERP1_SM1_ANY	Break in series: Definition of ERP is more visible from 2019 on (now under the question while before it was available in a speech bubble in the web questionnaire or in a glossary in the paper questionnaire)
2019	CZ	E_ERP1	Break in series due to improved explanatory notes for ERP and moved to the beginning of national questionnaire.
2019	CZ	E_ERP1_SM1_ANY	Break in series for ERP due to improved explanatory notes for ERP and moved to the beginning of national questionnaire.
2019	SE	E_ERP1	Question changed to: Does the company use a so-called ERP, ie a business system for sharing information betw different functions within enterprise, eg accounting, planning, production or marketing?
2019	DE	E_ERP1	The question about ERP was slightly changed in 2019. The low result has been verified and confirmed.
2018	*	E_DI_*	Digital intensity index is naturally affected by change in composition of variables over the years (see details per year in Digital Intensity Index description on <a href="http://ec.europa.eu/eurostat/cache/metadata/en/isoc_e_esms.htm">http://ec.europa.eu/eurostat/cache/metadata/en/isoc_e_esms.htm</a> )
2018	DE	*SELL*/SVAL*/ E_ETUR	Break in series due to improved formulation of e-commerce questions in national questionnaire in 2018. Fluctuations in time series due to changes in sample structure.
2018	IE	E_WEBACC	Question changed in national questionnaire from Product catalogues or price lists to Description of goods or services
2018	DK	E_BD*	Item non-response for who performs BD analysis (own employees / external service providers)
2018	FI	E_BD*	Item non-response for who performs BD analysis (own employees / external service providers)
2018	SE	E_BD*	Item non-response for who performs BD analysis (own employees / external service providers)
2018	SE	E_P3D*	Item non-response for use of 3D printers by purposes
2018	IE	E_WEBF2	Question changed in national questionnaire from Product catalogues or price lists to Description of goods or services
2018	IE	E_WEBF3	Question changed in national questionnaire from Product catalogues or price lists to Description of goods or services
2018	SE	P_IUSE	Logical corrections made on EMPMD2PCT when empmd2pct>empisept, so that empmd2pct can never be greater than empisept.
2017	DK	E_ERP1	Underestimated due to: unclear definition; some enterprises might have had the perception to transition to ERP only when actually upgrading to MS Dynamics AX12 in late 2017.
2017	DE	E_ERP1	2015 results were higher than 2014 and 2017 due to the recommended plausibility checks between questions on ICT functions for business management software (B5c and d) and on the usage of an erp software (E1) in 2015. As B5 was optional it was not asked in 2017 and plausibility checks could not be implemented.
2017	*	E_DI_*	Digital intensity index is naturally affected by change in composition of variables over the years (see details per year in Digital Intensity Index description on <a href="http://ec.europa.eu/eurostat/cache/metadata/en/isoc_e_esms.htm">http://ec.europa.eu/eurostat/cache/metadata/en/isoc_e_esms.htm</a> )
2016	*	E_INV3*	Results may not be comparable between 2016 and previous years because of change of module title ("Electronic invoicing" to "Invoicing") and different filter question
2016	*	E_DI_*	Digital intensity index is naturally affected by change in composition of variables over the years (see details per year in Digital Intensity Index description on <a href="http://ec.europa.eu/eurostat/cache/metadata/en/isoc_e_esms.htm">http://ec.europa.eu/eurostat/cache/metadata/en/isoc_e_esms.htm</a> )
2016	CZ	E_AEBUY	Results of limited comparability due to different questions in national questionnaire and capital goods not explicitly excluded.
2016	CZ	E_AWBUY	Results of limited comparability due to different questions in national questionnaire and capital goods not explicitly excluded.
2016	CZ	E_AXBUY	Results of limited comparability due to different questions in national questionnaire and capital goods not explicitly excluded.

**Footnotes to results of the survey on ICT usage and e-commerce in enterprises (NACE Rev. 2) - v 20211216**

survey year	country	variable	Note
2016	CZ	E_EBUY2	Results of limited comparability due to different questions in national questionnaire and capital goods not explicitly excluded.
2016	CZ	E_MOBBB	Results are much higher than in previous years because question C5 was in 2016 in different part of the questionnaire than in previous years and in the same time this question was differently formulated
2016	CZ	E_MOBBBH	Results are much higher than in previous years because in 2016 optional subquestions included and different location of questions compared to previous years in national questionnaire
2016	CZ	E_MOBBBM	Results are much higher than in previous years because in 2016 optional subquestions included and different location of questions compared to previous years in national questionnaire
2016	CZ	E_EBUY2	Variable is not comparable to other countries. Reason is differently formulated question and a different type of response from the Model Questionnaire
2016	CZ	E_EMPMD1_GT0	Results are much higher than in previous years because in 2016 optional subquestions included and different location of questions compared to previous years in national questionnaire
2016	CZ	E_EMPMD1_GT10	Results are much higher than in previous years because in 2016 optional subquestions included and different location of questions compared to previous years in national questionnaire
2016	CZ	E_EMPMD1_GT20	Results are much higher than in previous years because in 2016 optional subquestions included and different location of questions compared to previous years in national questionnaire
2016	CZ	E_EMPMD1_GT50	Results are much higher than in previous years because in 2016 optional subquestions included and different location of questions compared to previous years in national questionnaire
2016	CZ	P_EMPMD1	Results are much higher than in previous years because in 2016 optional subquestions included and different location of questions compared to previous years in national questionnaire
2016	ES	E_INV3SBG	Since 2015 every enterprise which send some invoice to Public Administration must send it in electronic format.
2016	IT	E_CC*	Data not comparable between 2014 and 2016 (main reasons: usage of different electronic warning in filling the electronic questionnaire, wording of the questions was changed in national questionnaire)
2016	NO	E_INV3*	In 2012, the government introduced a digitization program. A part of this digitization program was to impose the state to require e-invoices from their suppliers.
2016	SI	E_INV3*	Since 1 January 2015 public authorities accept only invoices in electronic form, in a standard structure suitable for automated processing.
2016	*	E_PMD_APP	Reduced comparability of results in % ent pmd (2012) and % ent pmd1 (2016) due to change of question used as denominator.
2016	*	E_PMD_DOC	Reduced comparability of results in % ent pmd (2012) and % ent pmd1 (2016) due to change of question used as denominator.
2016	*	E_PMD_EM	Reduced comparability of results in % ent pmd (2012) and % ent pmd1 (2016) due to change of question used as denominator.
2016	*	E_PMD_SL*	Reduced comparability of results in % ent pmd (2012) and % ent pmd1 (2016) due to change of question used as denominator.
2015	DE	E_ERP1	Increase partially caused by methodological changes
2015	NL	*	Break in series in e-commerce results (probably) caused by addition of term "apps" in filter question
2015	NL	E_AEBUY	Break in series (probably) caused by addition of term "apps" in filter question
2015	FR	E_AEBUY	Changed question in national questionnaire caused break in series
2015	NL	E_EBUY2	Break in series (probably) caused by addition of term "apps" in filter question
2015	NL	E_AEBUY	Break in series (probably) caused by addition of term "apps" in filter question
2015	FR	E_AEBUY	Changed question in national questionnaire caused break in series
2015	SI	E_IT*	The data could be unreliable due to misunderstanding of the questions by the responding enterprises
2015	FI	E_IT_*	there seems to be tendency to respond easily to have external suppliers for IT when do not have own, even when have it only little
2014	*	E_INV3*	change of codes to e_inv3* because of major changes in the model questionnaire (break in series).
2014	SI	E_INV3S*	Data refer to invoices "issued" (instead of "sent").
2014	FI	E_INV3*	Results of the module on electronic invoices cannot be used
2014	FR	E_INV3*	Results of the module on electronic invoices cannot be used
2014	PL	E_INV3*	Results of the module on electronic invoices cannot be used
2014	HU	E_INV3*	Results of the module on electronic invoices (filter question and question on sending electronic invoices) cannot be used
2014	NO	E_INV3*	Results of the module on electronic invoices (filter question and question on sending paper invoices) cannot be used because of the impact of "electronic" in the title of the module
2014	LU	E_ESELL	Break in series: Only absolute values collected in 2014; in previous years, priority was given to integer percentage values. This leads to a shift in the 0%-1%
2014	FR	E_ESELL	2014 results probably underestimated
2014	EL	E_AEBUY	decrease in electronic purchases may also be due to required direct payment
2014	*	E_WEBACC	Question of MQ changed from previously "Product catalogues or price lists" to "Description of goods or services, price lists"
2014	PT	E_WEBACC	national questionnaire still asks for "Product catalogues or price lists"
2014	HU	E_WEBACC	national question asks for "Catalogue of goods and services, price list".
2014	*	E_BROAD	The underlying question in the model questionnaire has changed. This may have an impact on the comparability.
2014	*	E_INV3*	The general definition and the way of asking the questions on Electronic invoicing have changed: a filter question not mentioning "electronic" was added, the sending of invoices was restricted to other enterprises or public authorities, percentages adding up to 100% were asked instead of Y/N question. This has had an impact on the comparability of the results of the variables e_inv* with previous years.
2014	*	E_EBUY2	Change of question in Model questionnaire in 2014 may have an impact on comparability over time (until 2013: value of orders asked; as of 2014: Y/N question).
2014	EL	E_AEBUY	Decrease in electronic purchases may also be due to required direct payment
2014	LU	E_ESELL	Break in series: Only absolute values collected in 2014; in previous years, priority was given to integer percentage values. This leads to a shift in the 0%-1%

**Footnotes to results of the survey on ICT usage and e-commerce in enterprises (NACE Rev. 2) - v 20211216**

survey year	country	variable	Note
2014	FR	E_ESELL	2014 results probably underestimated
2014	SI	E_CCX_OSCL	includes enterprises that have no knowledge of cloud computing services
2014	SI	E_INV3SBG	Data could be over- or underestimated due to misunderstanding of the question.
2013	NL	E_ESELL	Break in series due to changed e-commerce questions: (1) separate question for EDI and web for both sales and purchases (2) ask for amounts instead of %
2013	EU	E_EBUY	The underlying question in the model questionnaire is optional in 2011, 2012 and 2013: EU aggregates are not comparable.
2013	HU	E_EBUY	Results for purchases removed due to lack of comparability
2013	NL	*	Break in series due to changed e-commerce questions: (1) separate question for EDI and web for both sales and purchases (2) ask for amounts instead of %
2013	DK	E_BROAD	Omission of question on ISDN/dial-up access caused increase of fixed broadband connections (likely underestimated in previous years)
2013	EU28	E_EBUY	The underlying question in the model questionnaire is optional in 2011, 2012 and 2013: EU aggregate (for total based on BG, CZ, IE, EL, ES, FR, IT, CY, LV, LT, LU, HU, NL, PL, PT, RO, SI, SK, FI) are not comparable.
2013	HR	E_EBUY	Results for purchases removed due to lack of comparability
2013	NL	E_EBUY	Break in series due to changed e-commerce questions: (1) separate question for EDI and web for both sales and purchases (2) ask for amounts instead of %
2013	NL	E_ESELL	Break in series due to changed e-commerce questions: (1) separate question for EDI and web for both sales and purchases (2) ask for amounts instead of %
2013	DK	E_BBOTH	Omission of question on ISDN/dial-up access caused increase of responses to e_bboth (as part of fixed broadband connections which were likely underestimated in previous years)
2013	UK	*	Reference period unit survey 2013 was December of the year preceding the survey (instead of January or current situation)
2012	*	E_SISC	Data on enterprises sharing Supply Chain Management information electronically show reduced comparability in some countries due to changed questions in the MQ.
2012	NL	E_ADE	break in series / not comparable to previous years: use of a filter question and improved definition that only fully automated processes are included.
2012	EU	E_EBUY	The underlying question in the model questionnaire is optional in 2011, 2012 and 2013: EU aggregates are not comparable.
2012	HU	E_EBUY	Results for purchases removed due to lack of comparability
2012	FI	E_BROAD	Data on speed not totally coherent with technology
2012	EU28	E_EBUY	The underlying question in the model questionnaire is optional in 2011, 2012 and 2013: EU aggregates (for total based on BG, CZ, IE, EL, ES, FR, IT, CY, LV, LT, LU, HU, NL, PL, PT, RO, SI, SK, FI) are not comparable.
2012	HR	E_EBUY	Results for purchases removed due to lack of comparability
2012	*	E_PMD_ONEED	question on 'no or limited need' created confusion for some respondents, hence results of variables which include this question must be used with caution.
2012	*	E_PMD_O*	AT, DE, PT, DK, MK – results may be impacted by sometimes high item non-responses
2012	*	E_PMD_EM/*DOC/*APP	Results may be impacted by sometimes high item non-responses
2011	FR	*	Reference period for surveys 2008-2011: month before the survey
2011	IT	E_IACC3G	The inclusion in the survey 2011 of this new question on the provision by enterprises of portable devices with 3G technology may have had an impact on the replies to the questions about the technology used to access the Internet (question B2).
2011	LU	E_IACC3G	Question seems to have been misinterpreted, as enterprises did not make connection with question on technology (mobile broadband).
2011	FI	E_IACC3G	Respondents may have replied yes to this question (B5) because of the possibility to access Internet via mobile device of 3G, but may not have replied yes to the question on technology (mobile broadband in B2). Data on B5 (iacc3g) to be used cautiously, don't use e_iacc3g but rather % bands only. B2 results are more reliable than use variable.
2011	UK	E_ADE	the inclusion of e_adegov in 2011 in the national questionnaire caused a large increase in all e_ade* results; 2009 and 2010 results may have been too low.
2011	EU*	E_EBUY	The underlying question in the model questionnaire is optional in 2011, 2012 and 2013: EU aggregates are not comparable.
2011	FI	E_BROAD	Data on speed not totally coherent with technology
2011	LV	E_BROAD	Additional questions in the model questionnaire about speed of connection to the Internet have allowed additional control opportunities and improved results in 2011.
2011	*	E_ADE	The title, general definition and the contents (electronic invoices not included anymore) of the module on "Automated data exchange" have changed. This may have had an impact on the results of the variables e_ade*.
2011	EU28	E_EBUY	The underlying question in the model questionnaire is optional in 2011, 2012 and 2013: EU aggregates (for total based on BG, CZ, IE, EL, ES, FR, IT, CY, LV, LT, LU, HU, MT, NL, AT, PL, PT, RO, SI, SK, FI, SE) not comparable.
2011	IT	E_IACC3G	The inclusion in the survey 2011 of this new question on the provision by enterprises of portable devices with 3G technology may have had an impact on the replies to the questions about the technology used to access the Internet (question B2).
2011	LU	E_IACC3G	Question seems to have been misinterpreted, as enterprises did not make connection with question on technology (mobile broadband).
2011	FI	E_IACC3G	Respondents may have replied yes to this question (B5) because of the possibility to access Internet via mobile device of 3G, but may not have replied yes to the question on technology (mobile broadband in B2). Data on B5 (iacc3g) to be used cautiously, don't use e_iacc3g but rather % bands only. B2 results are more reliable than use variable.
2010	NL	*	Reference period for surveys prior 2011: December of the year preceding the survey
2010	NL	E_ADEPAY	results are not comparable to 2009 due to the explicit exclusion of homebanking in the national questionnaire 2010 which has caused a considerable decrease. E_ade has been impacted by the decrease from e_adePAY.

**Footnotes to results of the survey on ICT usage and e-commerce in enterprises (NACE Rev. 2) - v 20211216**

survey year	country	variable	Note
2010	FI	E_ADEGOVAL	The question B6d in the EU survey, making part of this composite variable, is too open for respondent to interpret and therefore does not produce nationally good information or internationally well comparable results.
2010	FI	E_INV	2008-2010: The question in the EU survey does not represent correct interpretation on use of e-invoices.
2010	NL	E_SISCADE	Questions are at a different location in the national questionnaire, therefore results are not comparable.
2010	NL	E_SISCWEB	Questions are at a different location in the national questionnaire, therefore results are not comparable.
2010	LT	E_BROAD	Break in series 2009-2010: In Lithuania, traditional modem is known as DSL modem. For the years up to and incl. 2009, e_dialup and e_broadx included part DSL connections and were over-estimated while e_dsl and e_broad excluded them so were under-estimated
2010	LT	E_DSL	Break in series 2009-2010: In Lithuania, traditional modem is known as DSL modem. For the years up to and incl. 2009, e_dialup and e_broadx included part DSL connections and were over-estimated while e_dsl and e_broad excluded them so were under-estimated
2009	UK	E_ESELL	Transactions over manually typed e-mail, were included in previous years, they have been excluded for the first time this year.
2009	UK	E_EBUY	Transactions over manually typed e-mail, were included in previous years, they have been excluded for the first time this year.
2009	UK	E_AESELL	Transactions over manually typed e-mail, were included in previous years, they have been excluded for the first time this year.
2009	UK	E_AEBUY	Transactions over manually typed e-mail, were included in previous years, they have been excluded for the first time this year.
2009	NL	E_RFID	Filter question not included in national questionnaire, hence reduced comparability with data from other countries.
2009	*	*	In 2009, ICT usage data on enterprises have been reported twice, in NACE classifications Rev. 1.1 and Rev 2. As the coverage in terms of NACE activities is different in the two NACE versions (see Methodological manual for details), the dissemination tables have been duplicated. Some countries also agreed to provide back-casted data until 2003. Different approaches (micro, proportional or macro approach) have been used for the calculation of back-casted data. This may in some cases have an impact on the quality of the results.
2009	UK	E_AEBUY	Transactions over manually typed e-mail, were included in previous years, they have been excluded for the first time this year.
2009	UK	E_ESELL	Transactions over manually typed e-mail, were included in previous years, they have been excluded for the first time this year.
2009	UK	E_ETURN	Transactions over manually typed e-mail, were included in previous years, they have been excluded for the first time this year.