

Name of collection: *Encuesta del uso de Tecnologías de la Información y de las Comunicaciones y del Comercio Electrónico en las empresas 2005-2006 (Survey on ICT usage and e-commerce in enterprises in 2005-2006, Spain)*

<p>Nature of collection If possible, use the classification of collection types shown above e.g. <i>ICT use collection – business</i>. For “other” collections, provide details e.g. <i>Other ICT collection – ISPs</i>.</p>	<p>ICT use collection – Business</p>
<p>Collection agency</p>	<p>INE (Instituto Nacional de Estadística)</p>
<p>General references to collection material Metadata, questionnaires etc</p>	
<p>Survey basis or vehicle E.g. Labour Force supplement, standalone survey, administrative byproduct data</p>	<p>Standalone survey</p>
<p>Frequency of collection</p>	<p>Annual</p>
<p>Collection history Reference dates and/or periods from the first to the latest collection</p>	<p>From 2001 to 2005, currently working on the survey related to 2006 and January 2007</p>
<p>Whether collection is mandatory or voluntary</p>	<p>Mandatory</p>
<p>Scope and coverage of collection Target population in terms of size, industry, population groups etc</p>	<p>GENERAL QUESTIONNAIRE (NACE): 1)DA+DB+DC+DD+DE 2)DF+DG+DH 3)DI+DJ 4)DK+DL+DM+DN 5)E (40+41) 6)F (45) 7)G (50) 8)G (51) 9)G (52) 10)H (55.1+55.2) 11)I (60+61+62+63) 12)I (64) 13)K (72) 14)K (70+71+73+74) 15)O (92.1+92.2) FINANCIAL QUESTIONNAIRE (NACE): 1)J (65.12+65.22) 2)J (66.01+66.03) 3)J (67.12+67.13+67.2) The target population includes all enterprises (including those with fewer than 10 employees). All territory of the country was considered.</p>
<p>Main classifications used E.g. industry, size, commodity, occupation</p>	<p>Industry (by NACE classification), Size (by the number of employees) and region.</p>
<p>Collection methodology E.g. face-to-face, mail, Web, telephone</p>	<p>Firstly, questionnaires are sent by mail to the enterprises in the sample. Enterprises may phone to a free-charge</p>

interview	<p>telephone number to get clarification of the questions and to be helped with the completion of the questionnaire.</p> <p>In all cases, there is a system of reminders, including letters and phone calls. The survey is mandatory and enterprises can be penalized in case of non response.</p>
Reporting and Statistical units Enterprise, establishment, household, etc	Enterprise
Sample frame used	<p>The frame population of the ICT survey is the same as the one used for the SBS: DIRCE. The Central Businesses Directory (DIRCE) collects all Spanish businesses in a single directory. Its basic objective is to enable business-targeted sample surveys to be conducted and, consequently, it registers information such as identity data, location, main activity or number of employees. This information is obtained from administrative sources (Inland Revenue and Social Security) and complemented with data from common statistical operations. This directory is updated annually.</p>
Sampling method E.g. stratified random sampling, cluster sampling	<p>According to the frame population (extracted from the DIRCE), the statistical units are stratified by crossing the following variables: size, economic activity and location. In every stratum, a systematic selection randomly started is executed, sorting out the enterprises by size and location.</p> <p>The categories of the variables used to stratify are:</p> <p>size: 0 to 2, 3 to 9, 10 to 49, 50 to 199, 200 to 499 and 500 or more employees.</p> <p>main activity: following the aggregation of NACE classification as follow:</p> <p>GENERAL QUESTIONNAIRE:</p> <ol style="list-style-type: none"> 1)DA+DB+DC+DD+DE 2)DF+DG+DH 3)DI+DJ 4)DK+DL+DM+DN 5)E (40+41) 6)F (45) 7)G (50) 8)G (51) 9)G (52) 10)H (55.1+55.2) 11)I (60+61+62+63) 12)I (64) 13)K (72) 14)K (70+71+73+74) 15)O (92.1+92.2) <p>FINANCIAL QUESTIONNAIRE:</p> <ol style="list-style-type: none"> 1)J (65.12+65.22) 2)J (66.01+66.03) 3)J (67.12+67.13+67.2) <p>Region: all Spanish regions (18) are covered.</p> <p>The total number of initial strata is 1.944 (18*6*18),</p>

	including empty strata.
Sample size For the most recent collection	Gross sample: 26.467 (15.438 enterprises with 10 or more employees and 11.029 enterprises with fewer than 10 employees) Net Sample: 18.509
Response rate The responding proportion of the live in-scope population, most recent collection	82,23%
Methods for dealing with non-response (item and unit) Indicate whether imputations are made for non-response and a short description of methods used.	<p>Methods used for minimizing unit non-response: If the enterprise does not send the questionnaire within the legal period of time, and due to the compulsory nature of the survey, the sanction process starts. Two reminders should be sent before the enterprise is fined.</p> <p>Methods used for unit non-response treatment: Once the fieldwork is ended, several enterprises might have changed stratification characteristics. Strata modifications and unit non-response treatment make it necessary to recalculate the weighting factors.</p> <p>Methods used for item non-response treatment: We impute the following items when missing (in a respondent unit):</p> <p>Total turnover, imputed by the mean of the stratum</p> <p>Total orders of goods and services, we consider this variable: $x = \text{orders of goods and services as a percentage of the total turnover}$. We calculate the mean of x in the stratum and we use it to get an estimated value for unit j. $\hat{x}_j = \bar{x}$</p> <p>then we estimate the variable "total orders of goods and services" applying the percentage \hat{x}_j to the total turnover for unit j</p> <p>Volume of Internet orders (in monetary units). We consider this variable: $y = \text{value of internet orders as a percentage of the value of total orders}$. We calculate the mean of y in the stratum and we use it to get an estimated value for unit k.</p> <p>then we estimate the variable "total orders of goods and services over the internet" applying the percentage \hat{y}_k to the total orders for unit k. $\hat{y}_j = \bar{y}$</p> <p>Volume of Internet sales (in monetary units). We consider this variable: $v = \text{value of internet sales as a percentage of total sales}$. We calculate the mean of v in the stratum and we use it to get an estimated value for unit k.</p> <p>then we estimate the variable "total sales of goods and services over the internet" applying the percentage \hat{v}_k to the total sales for unit k.</p>

<p>Weighting of results Weighting method e.g. by employment, number of enterprises, revenue</p>	<p>Number of enterprises for qualitative variables, number of persons employed</p>
<p>Relative standard errors (or coefficients of variation) on main aggregates For the most recent collection. These can be expressed as a range of values. For a given variable, the RSE or CV is equal to the ratio of the square root of the estimate of the sampling variance to the estimated value. It can be expressed as a fraction or a percentage.</p>	
<p>Known data quality issues with this collection E.g. non-response bias, comparability problems over time, definitional issues, coverage deficiencies, timeliness of frame, high item non-response (identify topics which are particularly problematic).</p>	<p>The methodology is nearly the same. The main difference with last year's survey is the reference period for the variables related to ICT infrastructures. In the last edition, this variables were referred to the whole previous year, in this edition these variables are referred to January of the current year.</p> <p>NACE J was surveyed separately from the rest of NACE classes.</p> <p>A pilot survey has been carried out for enterprises with fewer than 10 employees.</p> <p>Remarks:</p> <ul style="list-style-type: none"> -NACE 22 is included as part of the first strata (NACE DA-DE). -NACE 40+41 is included as part of the optional NACE codes. -Stratification by size is broken down as follows: 0 to 2, 3 to 9, 10 to 49, 50 to 199, 200 to 499 and 500 or more employees. <p>These remarks are also applicable to the next section</p>
<p>Output details Please list (or link to) relevant publications for this collection. You can also email relevant files to the OECD.</p>	<p>Results are currently available on-line on the INE website (www.ine.es), see:</p> <p>Survey on ICT usage and e-Commerce in Enterprises</p> <p>Paper and CD publications were also released. These can be bought on-line and at the INE's bookshop.</p> <p>More specific requirements of information made by national and international institutions as well as individual users can be fulfilled under request, subject to confidentiality constraints.</p>
<p>Other comments</p>	
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