



QUALITY REPORT FOR STATISTICAL SURVEY

Annual Survey on the Usage of Information and Communication Technologies in Households and by Individuals (IKT-DOM)

For 2017

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0. Basic information

• Purpose, goal, and subject of the survey

Information and communication technology (ICT) forms a significant part of the productivity and development of the European Union and fundamentally transform information societies and economies. Statistics measure the use of computers and ICT in households and by individuals, as well as in business processes, in order to continuously revise and improve productivity. The European Commission has designed an annual survey on information society, which measures the use of ICT in households and by individuals by selecting an appropriate set of variables.

The purpose of the survey is to collect data on the use of ICT in households and by individuals, to measure the level of information infrastructure in households and to monitor the habits of individuals when using the internet and computers.

• Reference period

Calendar year

• Legal acts and other agreements

Official Statistics Act (NN, Nos 103/03, 75/09, 59/12 and 12/13 - consolidated text)

Annual Implementation Plan of Statistical Activities of the Republic of Croatia for 2017

Regulation (EC) No 808/2004 of the European Parliament and of the Council of 21 April 2004 concerning Community statistics on the information society

Classification system

International Standard Classification of Occupations - ISCO-08

International Standard Classification of Education – ISCED

Degree of Urbanisation – DEGURBA

Nomenclature of Territorial Units for Statistics - NUTS

Concepts and definitions

Main statistical variables:

- access to a computer and the internet
- manner of access to the internet
- frequency of using a computer and the internet
- activities when using the internet
- electronic exchange of information and services with public administration institutions (e-Government)
- purchase of goods and services via the internet
- digital literacy (e-skills)
- internet safety

Statistical units

The observed statistical units are households and individuals.

Statistical population

Statistical population consists of all households with at least one individual aged 16 to 74.

1. Relevance

1.1. Data users

External users:

- ministries and state administration bodies on request
- scientists and researchers on request
- business entities on request

1.1.1. User needs

External users mostly require data more detailed than those that are already published.

1.1.2. User satisfaction

User satisfaction survey is not conducted. There is no feedback information.

1.2. Completeness

The data collected by the survey are fully harmonised with the Eurostat guidelines and Regulations.

1.2.1. Data completeness rate

Data completeness rate is 25%.

2. Accuracy and reliability

2.1. Sampling error

The standard error for key statistics is calculated using the SAS SURVEYMEANS procedure, which ensured that the following sample design was taken into account: 42 strata, PSU and final weights. Standard errors are calculated using the Taylor linearisation method in the SAS SURVEYMEANS procedure. The impact of unit non-response was taken into account by taking only the units that responded as the final sample size and re-weighting for non-response. The influence of calibration on variance was taken into account when calculating the final weights.

2.1.1. Sampling error indicators

Sampling error indicators for particular statistics

Statistics	Coverage	Value of coverage	Value
E-buyers	Croatia		1.382
Households with internet access	Croatia		1.079
Households with broadband internet access	Croatia		1.08
Individuals who downloaded e-forms	Croatia		1.15
Regular internet users	Age	16 – 24	1.574
Regular internet users	Age	25 - 34	2.834
Regular internet users	Age	35 - 44	4.091
Regular internet users	Age	45 - 54	2.619
Regular internet users	Age	55 - 64	2.871
Regular internet users	Age	65 - 74	1.891
Regular internet users	Education	Elementary school	5.4
Regular internet users	Education	Secondary school	1.987
Regular internet users	Education	University	0.953
Regular internet users	Sex	Croatia	1.511
Regular internet users	Sex	Male	2.06
Regular internet users	Sex	Female	1.947
Regular internet users	Employment	Unemployed	4.246
Regular internet users	Employment	Other	2.033
Regular internet users	Employment	Students	1.748
Regular internet users	Employment	Employed	1.673

2.1.2. Bias in sample selection process

The indicator for this survey is not applicable.

2.2. Non-sampling error

Non-sampling errors include coverage errors and non-response errors. Non-response errors are caused by unit non-response and item non-response. The non-response rate to variables is negligibly small.

2.2.1. Coverage error

The sample frame is based on data from the Census of Population in 2011. The rate of valid units is 97.3%. Coverage errors include non-existent households and households whose all members are older than 74.

2.2.2. Over-coverage rate

Over-coverage rate is 2.8%.

2.2.3. Measurement errors

Logical errors are avoided by designing questionnaires to prevent incorrect entries and by additional explanations provided by the interviewer to the user in case the user is not technically competent enough to give an accurate answer. Interviewers attend a training before the data collection. Interviewers are specifically warned of and trained in asking sensitive questions. After the data collection, random checks of the accuracy of the coding of variables in the set of microdata are performed.

2.2.4. Non-response errors

The non-response error shows the number of statistical units that did not respond to the questionnaire. The non-response rate is 39.4%.

2.2.5. Unit non-response rate

Unweighted non-response rate is 39.4%.

Weighted non-response rate is 41.08%.

2.2.6. Item non-response rate

Unweighted non-response rate for certain variables

Variable	Coverage	Value %
Household income	Croatia	35.68

Weighted non-response rate for certain variables

Variable	Coverage	Value %
Household income	Croatia	37.2

2.2.7. Processing errors

No errors were observed after the data collection that would require further processing.

2.2.8. Imputation rate

The indicator for this survey is not applicable.

2.2.9. Editing rate

Unweighted editing rate for certain variables is 0%.

Weighted editing rate for certain variables is 0%.

2.2.10. Hit rate

Hit rate is 0%.

2.2.11. Model assumption error

Not applicable.

2.3. Data revision

2.3.1. Data revision - policy

The users of statistical data are informed about revisions (provisional, final data) on the website of the Croatian Bureau of Statistics.

2.3.2. Data revision - practice

Provisional data are not published; therefore, there are no data revisions.

2.3.3. Data revision – average size

The indicator for this survey is not applicable.

2.4. Seasonal adjustment

Not applicable.

3. Timeliness and punctuality

3.1. Timeliness

3.1.1. Time lag – first results

Time lag – first results is T + 3 months.

3.1.2. Time lag – final results

Time lag – final results is T + 5 months.

3.2. Punctuality

3.2.1. Punctuality - delivery and publication

Delivery and publication is 0.

4. Accessibility and clarity

Printed publications - First Releases, Statistical Yearbook

Website of the Croatian Bureau of Statistics – electronic version of First Releases and the Statistical Yearbook

User requests by order

4.1. News release

2.3.2. Usage of Information and Communication Technologies (ICT) in Households and by Individuals

4.2. Other publications

Statistical Yearbook

4.3. Online database

Not applicable.

4.4. Micro-data access

The conditions under which certain users can access microdata are regulated by the Ordinance on the Conditions and Manner of Using Confidential Statistical Data for Scientific Purposes (NN, 137/13). Microdata are available at the level of variables defined in the EU methodology.

4.5. Documentation on methodology

Printed publications of the Croatian Bureau of Statistics

Website of the Croatian Bureau of Statistics

5. Comparability

5.1. Asymmetry for mirror flows statistics

Not applicable.

5.2. Comparability over time

5.2.1. Length of comparable time series

Length of comparable time series is 11.

5.2.2. Reasons for break in time series

Not applicable.

6. Coherence

6.1. Coherence – short-term and structural data

The indicator for this survey is not applicable.

6.2. Coherence – national accounts

The indicator for this survey is not applicable.

6.3. Coherence – administrative sources

The indicator for this survey is not applicable.

7. Cost and burden

7.1. Cost

Total costs of conducting the survey: 54 500 euros

Personnel costs: 25 500 euros

Interviewers costs: 11 900 euros

Sub-contracting costs: 14 600 euros

Other costs: 2 500 euros

7.2. Burden

The design of the questionnaire and the compilation of special instructions for the interviewers is aimed at reducing the burden on statistical units so that the interviewers can get the requested answer as easily as possible. The time needed to complete the questionnaire is 7 to 15 minutes.