



Novelties and experiences of the 2016 Hungarian Microcensus

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Conference Towards 2021 Census, Belgrade, 22-23 May 2018



1 The history of censuses, microcensuses in Hungary

Hungarian census has a long history

• 1st census: 1870

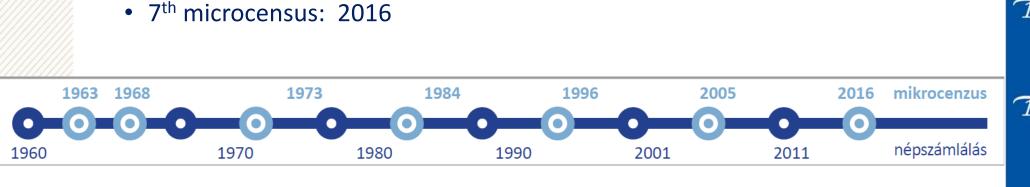
• 15th census: 2011

Traditional full-scope enumerations

The need for detailed socio-economic data between two censuses called into being the microcensus.

• 1st microcensus: 1963









2 The concept of microcensus

Microcensus is a "small census" that is carried out between two censuses – generally half-time – on a sample in order to update census information and to test new techniques.

Main features:

- Applies the same concepts as the census
- Compulsory and ordered by law
- Based on a sample
- Census topics
- Connecting surveys about relevant social issues
- Same organization phases as in census (preparatory works, data processing, execution and dissemination)
- Test function of new techniques.





3 Methodology of Census 2011

Or identified questionnaires?

Or separated periods?

Data collection period: 1 October – 8 November 2011.

Reference date: 0 o'clock 1 October 2011.

Respondent package delivered to addresses by the enumerators: Anonymous questionnaires + internet login code

Multi-mode data collection simultaneously in time:

- Self-administered responding (online): 1–16 October, 2011
- Self-administered respondig (paper): 1–16 October, 2011
- Interviews (paper): 1–31 October, 2011
- Supplementary data collection 1–8 November 2011

Paper and electronic questionnaires



Or only electronic questionnaires?





4 Methodology of Microcensus 2016

Data collection period: 1 October – 8 November 2016.

Reference date: 0 o'clock 1 October 2016.

Information letters delivered by the post: 26 –30 September

Two-step data collection:

- Self-administered responding (online): 1–9 October
- Interviews (electronic): 10 October 8 November

Technology:

- Using only electronic devices without any paper questionnaires
- The enumerators used laptops and tablets

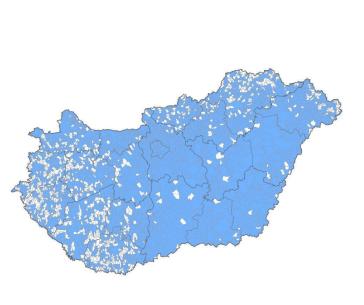






5 The sample of Microcensus 2016

- Microcensuses in the past used to apply a 2% sample.
- Microcensus 2016 however used a uniquely large 10% sample.
- The sample was chosen to be representative to a more detailed geographical level than before: to district level (close to LAU1 -There are 197 districts in Hungary).
- The sampling frame was based on the updated 2011 Census Address Register of HCSO.
- The sample covered 440 thousand dwellings and 500 institutions in 2148 settlements (out of the total 3176 settlements in Hungary).







6 Response rates by modes

Rate of responding households in Census 2011:

• Self-administered online: 19%

• Self-administered paper: 16% bad quality

• Interview (paper): 65%

Rate of responding households in Microcensus 2016:

• Self-administered online: 18%

Interview (electronic):
 82% best quality





7 Data processing of Microcensus 2016

- The electronic data collection enabled much faster data processing than in 2011.
- Continuous data processing system:

Questionnaire data arriving from data collecting system

Pre-processing phases:

- 1. Automatic coding of textual information
- 2. Manual coding of textual information
- 3. Expert coding of textual information Final data processing, editing
- Final database was ready at the end of March 2017, 6 months after reference date.







8 Data dissemination

Final results of the microcensus were published in May 2017,

8 months after reference date.



Final results of Census 2011 were published in March 2013

18 months after reference date





9 Tasks after the microcensus

- Quality assessment
 - The impact of new data collection technique on data quality, comparisons with 2011 census data quality
- Improvement in the use of administrative sources
 - Census 2011: addresses from HCSO's Address Register for the frame, information from Population Register for non-response imputation
 - Task: studying the usability of administrative data for census purposes
 - Plan: linking data sets from various registers.

Preparations of introducing personally identified questionnaires

 No names on the questionnaires of the last censuses and microcensuses.





10 Attitude survey 2018

To measure the attitude of respondents about a census executed with personal identification and taking over information from official registers. To examine the attitude of the respondents towards the statistical use of personal administrative data.





11 Plans for Census 2021

- No decision yet about the method of Census 2021
- Improving the use of registers New statistical law (2016) gives HCSO
 the authority to use identified data records from administrative sources
 but there are difficulties in cooperation
- Studying the advantages/risks of the introduction of personally identified questionnaires — Attitude survey
- Further analyses about linking administrative data with census/microcensus data.
- Possible census method: combined census, field enumeration supplemented with information from administrative registers.





Thank you for your attention!

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