

Topic 6: Census 2021 – Confidentiality issues

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Introduction (1)

- All countries are expected to conduct at least one population and housing census every ten years, and most countries will conduct their next census in 2020 or 2021. (European Union countries will use 2021 as the reference year.)

Introduction (2)

- The next census round will result in the production of detailed publications and huge sets of detailed tables. Given the increased privacy concerns, it is important that they are properly protected against disclosure. In addition, it is foreseen that microdata for research purposes will be provided by a number of countries.

Introduction (3)

- As more and more information is available on internet, it is becoming increasingly difficult to guarantee the safety of the census tables and census microdata for researchers. In many countries and international organisations, projects to study these problems have been started.
- Contributions were invited addressing issues around tackling the privacy concerns of the output of the coming census round.

Papers (1)

- Testing CTA as Additivity Module for Perturbed Census 2021 EU Hypercube Data (presented by Sarah Giessing, Destatis, Germany)
- The European Census Hub 2011 Hypercubes – Norwegian SDC Experiences (presented by Johan Heldal, Statistics Norway)
- The modernisation of Statistical Disclosure Limitation at the U.S. Census Bureau (17 authors, presented by Aref Dajani, U.S. Census Bureau)

Papers (2)

- Statistical disclosure control considerations of publishing data on grid squares and territorial units in the application STAGE (presented by Junoš Lukan, Statistical Office of the Republic of Slovenia)
- Creation of synthetic microdata in 2021 Census transformation Programme (proof of concept) (presented by Robert Rendell, Office for National Statistics, the United Kingdom)

Papers (3)

- Secure statistical computation system on encrypted data: An empirical study of secure regression analysis for official statistics (7 authors, presented by Satoshi Takahashi, Nippon Telegraph and Telephone, Japan)
- Progress towards a table builder with in-built disclosure control for 2021 Census (presented by Keith Spicer, Office for National Statistics, the United Kingdom)
- General discussion and conclusions