in cooperation with

POZNAŃ UNIVERSITY
OF ECONOMICS
AND BUSINESS

JOINT UNECE/EUROSTAT EXPERT MEETING ON STATISTICAL DATA CONFIDENTIALITY

1-3 December 2021

Auditorium C
3rd Floor, Centrum Edukacyjne Usług Elektronicznych (CEUE) building
ul. Towarowa 55, 61-896 Poznań, Poland

23 November 2021

Tentative timetable

DAY 1 – Wednesday 1 December

Local time	Item
08:45	*Registration of those arriving in Poznań & Connection for remote participants*
09:30	**Opening of the meeting by hosts:** - Maciej Żukowski, Rector of Poznań University of Economics and Business - Dominik Rozkrut, President of Statistics Poland **Introduction to HLG-MOS and Statistical Data Confidentiality (Taeke Gjaltema)** - Taeke Gjaltema (UNECE)
10:00	**Introducing the procedure for questions and answers**
10:05	**Topic: Access to microdata** Session Organizers: Aleksandra Bujnowska (Eurostat) and Eric Schulte Nordholt (Statistics Netherlands)
10:15	**Access to different kinds of Statistics Netherlands' microdata** Eric Schulte Nordholt (Statistics Netherlands)
10:30	**Creating ready-made research datasets from national administrative registers** Päivi Kankaanranta (Statistics Finland)
10:45	**Fingerprinting relational data** Tanja Šarčević (SBA Research)
11:00	**Questions to the authors**
11:15	*Break (20 minutes)*
11:35	**Shedding light on the legal approach to aggregate data under the GDPR & the FFDR** Emanuela Podda (Università di Bologna)
11:50	**Transnational access to confidential microdata: Progress and impact for research** Roxane Silberman (Centre d'accès sécurisé aux données / Secure Data Hub)
12:05	**Microdata access where we are and where we need to go** Elizabeth Green (University of the West of England)
12:20	**Questions to the authors**
12:35	*Lunch break*
13:50	**Topic: Access to microdata (contd)**
13:55	**Microdata access services coping with COVID-19 lockdown** Natalia Volkow (National Institute of Statistics and Geography)
14:10	**Questions to the author and general discussion**

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DAY 1 – *Continued*

14:30	**Topic: Risk assessment: Privacy, confidentiality, and disclosure** Session Organizers: Josep Domingo-Ferrer (Universitat Rovira i Virgili), Krish Muralidhar (University of Oklahoma)
14:40	**Statistical disclosure control for machine learning models** Felix Ritchie (University of the West of England)
14:55	**The trade-off between the risk of disclosure and data utility in SDC – a case of data from a survey of accidents at work** Andrzej Młodak (Statistical Office in Poznań)
15:10	**Using machine learning to assist output checking** Josep Domingo-Ferrer (Universitat Rovira i Virgili)
15:25	**Questions to the authors**
15:40	*Break (20 minutes)*
16:00	**Disclosure metrics born from statistical evaluations of data utility** Devyani Biswal (University of Ottawa)
16:15	**Risk assessment procedures for the 2020 U.S. census** Steven Ruggles (University of Minnesota)
16:30	**Questions to the authors**
16:45	**Proposal for a risk assessment scale for privacy risks in the disclosure of statistical information** Jesús González López (National Institute of Statistics and Geography)
17:00	**Database reconstruction is very difficult in practice** Krishnamurty Muralidhar (University of Oklahoma)
17:15	**Questions to the authors and general discussion**
17:40	**Topic: Other Emerging issues** Session Organizers: Peter-Paul de Wolf (Statistics Netherlands) and Janika Tarkoma (Statistics Finland)
17:45	**Some of entity resolution and the impacts on personal privacy** Rebecca Steorts (Duke University)
18:00	**Questions to the author**
18:05	**End of Day 1**

DAY 2 – Thursday 2 December

08:45	*Connection for remote participants*
09:00	**Reflections from day 1**
09:15	**Topic: Software tools for statistical data confidentiality** Session Organizers: Peter-Paul de Wolf (Statistics Netherlands) and Andrzej Młodak (Poznań Statistical Office)
09:25	**Suppression of directly-disclosive cells in frequency tables** Daniel Lupp (Statistics Norway)
09:40	**Introducing a graphical user interface for creating the metadata governing the secondary cell suppression process** Michel Reiffert (Destatis)
09:55	**Assessing, visualizing and improving the utility of synthetic data** Gillian Raab (Scottish Centre for Administrative Data Research)

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10:10	**Questions to the authors**
10:25	**Private linear regression: Can we scale up with Big Data?** Giuseppe Bruno (Bank of Italy)
10:40	**Automatic checking of research outputs** Aleksandra Bujnowska (Eurostat)
10:55	**Questions to the authors and general discussion**
11:15	*Break (20 minutes)*
11:35	**Topic: Microdata protection** Session Organizers: Josep Domingo-Ferrer (Universitat Rovira i Virgili), Krish Muralidhar (University of Oklahoma)
11:45	**Accounting for longitudinal data structures when disseminating synthetic data to the public** Joerg Drechsler (Institute for Employment Research)
12:00	**AI-based privacy preserving census(like) data publication** Alexander Kowarik (Statistics Austria)
12:15	**Generating tabular data using generative adversarial networks with differential privacy** Giacomo Astolfi (European Central Bank)
12:30	**Questions to the authors**
12:45	*Lunch break*
14:00	**Topic: Microdata protection (contd)**
14:05	**Generative adversarial networks for synthetic data generation: A comparative study** Mark Elliot (University of Manchester)
14:20	**Data access modernization in National Statistical Offices through synthetic data, the HLG-MOS guide** Kenza Sallier (Statistics Canada)
14:35	**Extreme value protection adjustment for different subpopulations in complex data sets** Anna Oganian (National Center for Health Statistics)
14:50	**Questions to the authors and general discussion**
15:25	*Break (20 minutes)*
15:35	**Topic: Tabular data** Session Organizers: Steven Thomas (Statistics Canada) and Sarah Giessing (Destatis)
15:45	**Differential privacy and noisy confidentiality concepts for European population statistics** Fabian Bach (Eurostat)
16:00	**Fair risk-utility comparison of tabular perturbation methods by post-processing to expected frequencies** Øyvind Langsrud (Statistics Norway)
16:15	**Suppression or perturbation?** Wim Kloek (Eurostat)
16:30	**Questions to the authors**
16:45	**Considerations to deal with the frozen cell problem in Tau-Argus Modular** Sarah Giessing (Destatis)
17:00	**Increasing utility of economic statistical information** Steven Thomas (Statistics Canada)
17:15	**Questions to the authors and general discussion**
17:35	**End of Day 2**

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DAY 3 – Friday 3 December

08:45	*Connection for remote participants*
09:00	**Reflections from day 2**
09:15	**Topic: Other Emerging issues (Contd)** Session Organizers: Peter-Paul de Wolf (Statistics Netherlands) and Janika Tarkoma (Statistics Finland)
09:25	**A proof-of-concept solution for secure processing of mobile network operator data for official statistics** Fabio Ricciato, (Eurostat)
09:40	**Modelling data environments within PROV to assist anonymisation decision-making** Mark Elliot (University of Manchester)
09:55	**Structural uniqueness in network data** Marieke de Vries (Statistics Netherlands)
10:10	**Questions to the authors and general discussion**
10:40	**Updates on the HLG project on input privacy preservation** Dennis Ramondt (Statistics Netherlands)
10:55	**Questions to the presenter**
11:00	**Results of the discussions on future work**
11:30	**Conclusion of the meeting**
11:45	**End of the meeting**