



HLG-MOS Workshop on the Modernization of Official Statistics

Summary of the [UNECE Expert Meeting on Statistical Data Editing
2022](#)

Geneva, 22-25.11.2022

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SDE2022 – expert meeting

- **What remained (nearly) constant w.r.t. SDE2020?**
 - Theme: **Statistical Data Editing**.
 - Support (and OC): UNECE – Christopher Jones, Taeke Gjaltema, Wai Kit Si Tou, InKyung Choi, etc...
 - OC: Darren Gray (Canada), Ágnes Andics (Hungary), Simona Rosati (Italy), Sander Scholtus (Netherlands), Pedro Revilla (Spain)
 - 3 co-chairperson (and OC): Alexander Kowarik (Austria), David Salgado (Spain), Daniel Kilchmann (Switzerland)
- **Who was the keynote speaker?**

Prof. David Haziza (University of Ottawa)
- **What was different?**
 - Lightning talks / software demonstrations.

SDE2022 – General purpose and figures

- Identify new methods that can improve quality and efficiency of E&I;
 - Investigate statistical quality risks arising from using new methods/data sources and how to address them;
 - Develop approaches to standardizing and implementing statistical editing functionalities;
 - Facilitate the sharing of experiences, ideas and tools for modernizing statistical data E&I process’.
- 157 participants, 27 countries + UNECE, UNECLAC + 3 academic institutions.
 - 62% of the respondents voted for very useful meeting.
 - General quality of the meeting: 100% very good / good.

SDE2022 – key discussion items

- Modernization of data editing and statistical production
 - Sharing of standardization initiatives.
 - Implementation of GSDEM [GSDEM - UNECE Statswiki](#)
- ML/AI for editing and imputation
 - Use of ML algorithms throughout the production process.
- Use of administrative data for E&I
 - Property floor area stats, economic census.
- Quality
 - Experimental STS, variance estimation, selective editing.
- New and emerging methods
 - ML, calibrated imputation, anomaly detection, validation.

SDE2022 – Future work priorities

- **Methods** for new data sources: admin, web-scraped, smart...
- **Synthetic data**: assessment of data editing methods.
- **Software tools**, incl. ML: awesome list, standardized methodology.
- **New frameworks**/common approaches for dealing with ML and New Data Sources: GSDEM for new data sources, input quality.
- **Production**: identification of efficiency improvements, implementation of new approaches (ML/AI).
- **Organizational Aspects**: organizational culture / training to embrace new tools and methods.
- **Miscellaneous**: E.g., Data editing in the context of falling survey response rates, etc.

SDE – Link to HLG-MOS work program

- SDE meetings foster the sharing of experiences of operational outcomes from different HLG-MOS initiatives: GSBPM, ML, GSDEM, etc.
- Link to ADSaMM group?
- *... we promote efficiencies and innovative ways to tackle persistent and emerging challenges in official statistics.:* Unique occasion for NSO practitioners to exchange about (in-)efficiency and innovation w.r.t. statistical data editing.

SDE2024

Subject to approval from UNECE HLG-MOS and CES:

- Statistics Austria volunteered to host the SDE 2024.

Thank you vor your attention!