Tabular Data Protection in Business Statistics

Target Group	Staff dealing with statistical confidentiality in business statistics
Entry Qualifications	Sound command of English. Participants should be able to make short interventions and to actively participate in discussions
Objective(s)	The objective of this course is to provide the participants with an overview of Statistical Disclosure Control (SDC) theory and methods related to tabular data protection as well as the respective software. The course specifically aims at business statistics (like SBS, FATS, Balance of Payment) and will discuss the issue of non-standard, overlapping hierarchies.
Contents	▪ Main theoretical principles of Statistical Disclosure Control (SDC) concerning tabular data ▪ Methods of tabular data protection ▪ Software SDC tabular data ▪ Exercises
Expected Outcome	Better understanding of the theory, methods and software used in statistical disclosure control for tabular data in business statistics.
Training Methods	The course programme is a mix of theoretical background and practical application provided through: ▪ Lectures and presentations; ▪ Manual exercises; ▪ Practical exercises using software (Tau-Argus and R-packages); ▪ Group discussions.
Suggested Reading	▪ Statistical Disclosure Control (2012) by A. Hundepool, J. Domingo-Ferrer, L. Franconi, S. Giessing, E. Schulte Nordholt, K. Spicer and P.P. de Wolf, Wiley, ISBN 978-1-1199-7815-2 ▪ Manuals and software libraries are available on: https://github.com/sdcTools
Trainer(s)/ Lecturer(s)	Peter-Paul de Wolf (Statistics Netherlands) Reinhard Tent (Destatis, Germany) Bernhard Meindl (Statistics Austria)

Practical Information

When	Where	
6-8 October 2021	On-line	

TENTATIVE AGENDA

Day 1

Introduction of the course

Lectures: (2 hours)
- General introduction Statistical Disclosure Control (SDC)
- Introduction problems and criteria Tabular Data protection
    - Frequency count tables (shortly)
    - Magnitude tables

Exercises: (1 hour)
- Written exercises to get familiar with problems and criteria

Large break[1] for participants to contemplate on content of day 1

Questions and answers: (1 hour)
- Possibility to ask questions on content of day 1

Day 2

Lectures: (3 hours)
- Methods and tools to protect tabular data (redesign, suppression, rounding, CTA, CKM).
- Demonstration of software tools

Large break[1] for participants to contemplate on content of day 2

Questions and answers: (1 hour)
- Possibility to ask questions on content of day 2
- Possibility to raise specific issues to be discussed on day 3

Day 3

Discussion: (1 hour, depends on number of raised issues)
- Specific issues raised on day 1 or 2

Exercises: (2 hours)
- Working with software tools
    - Data provided by the course
    - Own data

Evaluation

[1] The participants will have a few hours to "digest" the information provided. At the end of the day the trainers would then be available for questions (either one-to-one or plenary).