

## Overview packages

- sdcTable
  - cell suppression, primary and secondary
  - protect / attack cross tables
  - fast heuristic against exact disclosure
  - allows to prepare inputs for Argus and call it
  - on CRAN install.packages("sdcTable")

## Overview packages

- sdcMicro
  - Methods to protect categorical and numerical key variables using
    - suppression, perturbation, swapping, recoding, ...
  - provides risk and utility measures for micro data
  - interactive GUI (`sdcMicro::sdcApp()) for R novices
  - on CRAN install.packages("sdcMicro")
  - Targeted Record Swapping

# Overview packages (2)

- cellKey
  - applies the cellkey-method on frequency- and magnitude tables

- ptable
  - creates required lookup-tables for perturbation

- sdcHierarchies
  - allows to define (nested) hierarchies for cross tables
  - can also be used in sdcTable
  - on CRAN install.packages("sdcHierarchies")

# Overview packages (3)

- synthetic micro data
  - create micro data using ML models
  - $-\rightarrow$  packages simPop, synthpop

- disclosure control for spatial (raster-based) data
  - sdcSpatial
  - on CRAN install.packages("sdcSpatial")

## sdcMicro

### https://github.com/sdcTools/sdcMicro

- Currently not on CRAN due to stricter CRAN-Checks (C++ related);
- Version 5.7.8 is on github;

- Many updates for recordSwap() (only R-related not C++-related)
  - better documentation, improved tests and updated vignette
  - custom risk tested

Bugfix in sdcApp()

## sdcTable

https://github.com/sdcTools/sdcTable

- new version on CRAN (0.32.6)
- Improvements in SIMPLEHEURISTIC when adding additional suppressions

## pTable, cellKey

https://github.com/sdcTools/ptable, https://github.com/sdcTools/cellKey

• pTable: on CRAN since 2023-03-01 in version 1.0.0 (https://cran.r-project.org/web/packages/ptable/index.html)

- cellKey: on CRAN since 2023-03-17 in version 1.0.2 (https://cran.r-project.org/web/packages/cellKey/index.html)
  - Performance Fix: Do not compute contributing indices (relevant only for the perturbation of numerical variables) if no such variables were specified in ck\_setup()

## sdcHierarchies, sdcSpatial

https://github.com/bernhard-da/sdcHierarchies, https://github.com/edwindj/sdcSpatial/tree/master

sdcHierarchies and sdcSpatial on CRAN

#### sdcHierarchies:

- massive performance improvement in hier\_convert()
- allow to keep original-order of nodes in hier\_import() via argument keep\_order

#### sdcSpatial:

protect\_quadtree: stopping criterion + max\_zoom bug-fixed