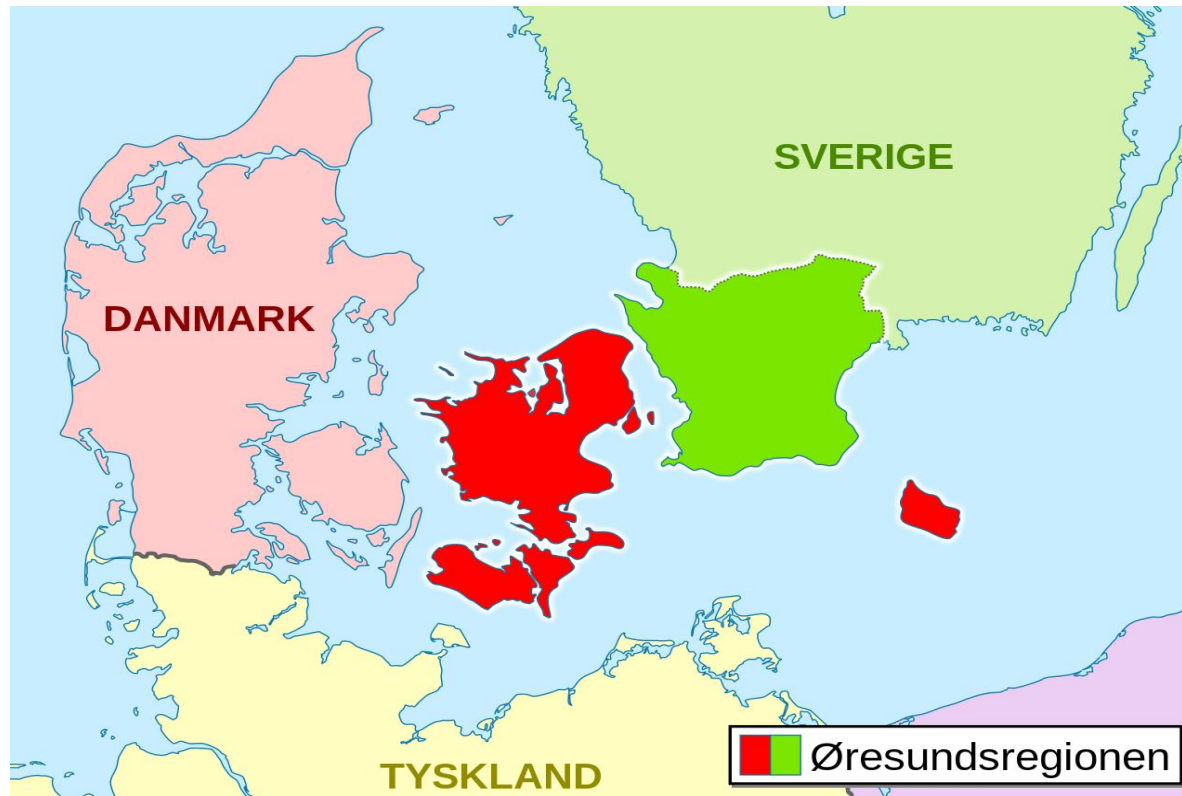


Re-developing cross-border commuting statistics for the Øresund Region



Presenting the previous cross-border commuting statistics

- Published for the years 1997-2015
- Based on exchange of micro-data between SCB and DST
- Exchange of data has not been possible since statistics for 2015 were released

Production of the previous statistics

- Commuters from Sweden to Denmark
- Step 1
 - DST identified employees working in the Danish part of the region and living abroad
 - Data was sent to SCB
- Step 2:
 - SCB determined if they were resident in the Swedish part of the region
 - Linking on date, month and year of birth and name
 - Background variables were added
 - Data was sent to DST

Production of the previous statistics

- Step 3
 - DST determined whether the employees were cross-border commuters in their main job
 - DST added further background variables
 - Copy of data was sent to SCB
- Final result
 - DST and SCB had micro-data on cross-border commuters in both directions
 - Data was available through research services in both bureaus

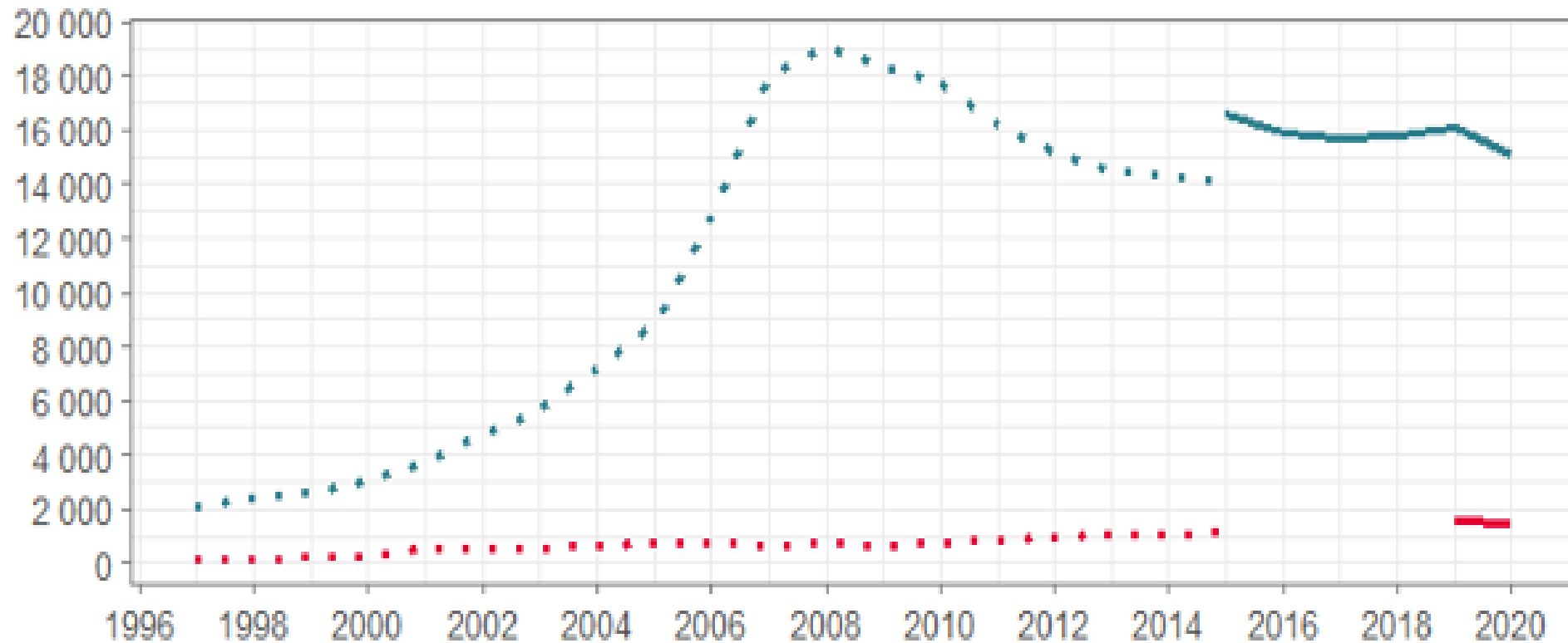
Production of the previous statistics

- The method was generally considered to be solid
- **A weakness:** the match in the second step was based on names
 - Changes in surnames
 - Different spelling

The new cross-border commuting statistics

- No exchange of data
- DST identifies commuters from Sweden to Denmark and vice versa
- Slightly different methods have been developed by the two bureaus

The results



.. old definition, — new definition, — Sweden to Öresund, — Denmark to Öresund

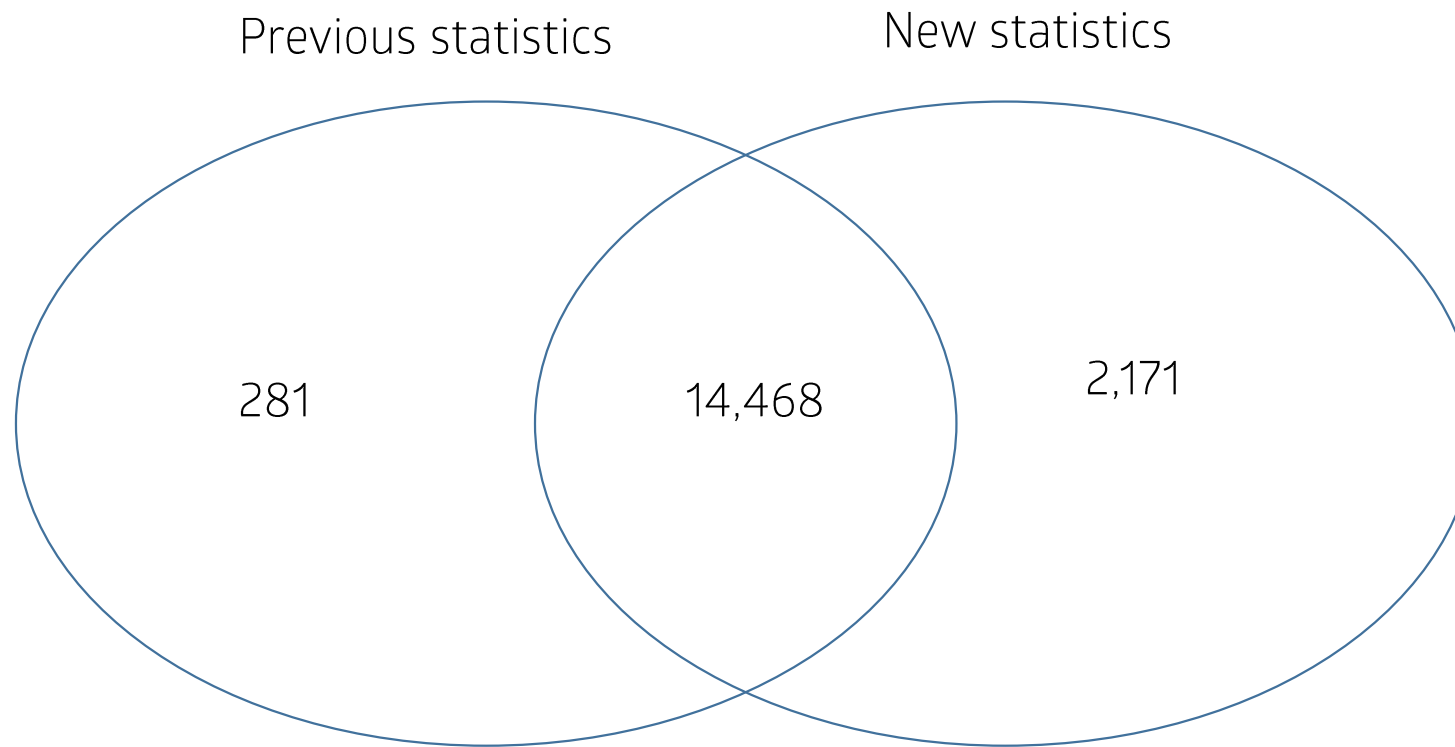
The Swedish method

- Source: Monthly income declarations since 2019
- Commuters: Not resident, but persons working in Sweden with country of birth or citizenship Denmark
 - Add non-resident persons who are partly taxpayers in a foreign country with country code DK
- The method works for any country
- No name matching = increase the number of commuters

The Danish method

- Gross stock of cross-border commuters
 - Employees working in Denmark and living abroad
 - Source: Register-based labour force statistics
- Identification of commuters living in Sweden
 - Variables: country code SE (82 per cent), citizenship DK (9 per cent), emigration to Sweden from Denmark (9 per cent)
 - Sources: e-Income register and population register

From Sweden to the Danish part of the region November 2015



Background variables in the new statistics

- Equally complete background variables for:
 - Industry, sector, municipality of work, salary, age, sex, citizenship
- Less complete or missing background variables for:
 - Municipality of residence
 - Educational level
- Furthermore:
 - Main job cannot be identified

Perspectives for the future

- Cross-border commuting statistics will be published end 2022
 - More timely and quarterly statistics
- Gross-border commuting statistics for other commuting flows
 - Commuting from Norway/Finland to Sweden
 - Commuting from Germany to Denmark
- Data exchange – again - in the future?
 - Better background variables
 - Combination of the new and previous method = better quality