

# Workshop on calculating CPI using Scanner data

Organized by UNSD, Statistics Denmark and Statistics Canada

## Purpose

This workshop provides an opportunity for statistical organisations to participate in discussion and training in the use of scanner (transaction) data for Consumer Price Indexes. The workshop will commence with an overview of scanner data and the ways in which it can be used in the production of a CPI. This will include presentations on different country practices and discussions among participants. The workshop will continue with a practical course on the use of scanner data. This will include presentations, practical demonstrations and hands-on tutorials focusing on index compilations and analysis. The workshop will conclude with a wrap-up including discussion about moving forward, priorities for participants and ongoing training opportunities.

## Presenters

Date: 29 April -1 May 2019

Venue : Data Science Campus, Kigali, Rwanda

Presenters: Mr. Michael Smedes, UNSD, New York  
Mr. Clément Yélou, Statistics Canada  
Mr. Thomas Jacobsen, Statistics Denmark

## Programme

### Day 1 Scanner Data and Official Statistics

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| 11.15 | <b>Welcome</b><br>Facilitator: TBC<br>Formal welcome. Importance of big data for measuring Official Statistics   |
| 11.30 | <b>Introduction</b><br>Facilitator: Michael Smedes<br>Overview of workshop; introduction of presenters   |
| 11.45 | Session 1.1 <b>Overview of Scanner Data – Data types, sources and country practices</b><br><br>Presenter: TBC<br>Introduction to key aspects of scanner data: data sources, international experiences and general applications |

12.30 Lunch

13.30 Session 1.2 **Scanner Data Task Team**

Presenter: TBC

Overview of the work of the task team and of resources available on the Global Platform

14:15 Session 1.3 **Scanner Data Methods**

Presenter: TBC

Presentation on index methods, characteristics of scanner data, multilateral index methods, extension methods, monitoring methods

15.15 Break

15.45 Session 1.4 **Scanner Data Methods Continued**

Presenter: TBC

Presentation on index methods, characteristics of scanner data, multilateral index methods, extension methods, monitoring methods

17.00 Close

Day 2 Scanner Data and Official Statistics

9.00 Session 2.1 **Country A Use of Scanner Data**

Presenter: TBC

Description of implementation of scanner data (practical case study)

9.45 Session 2.2 **Country B Use of Scanner Data**

Presenter: TBC

Description of implementation of scanner data (practical case study)

10.30 Break

11.00 Session 2.3 **Practical session using Global Platform**

Presenter: TBC

Participants use Global Platform to complete a range of set exercises using scanner data

12.30 Lunch

13.30 Session 2.4      **Practical session using Global Platform continued**  
Presenter: TBC  
Participants use Global Platform to complete a range of set exercises using scanner data

14.45 Break

15.15 Session 2.5      **Overview of Data Sources**  
Presenter: TBC  
Potential sources of data overview, including issues of access and institutional settings

16.00 Session 2.6      **Nielsen Data And Services**  
Presenter: TBC  
Overview of Nielsen Data and Services

17.00                      Close

Day 3 Scanner Data and Official Statistics

9.00 Session 3.1      **Web Scraping**  
Presenter: TBC  
Use of web scraping methods for CPI compilation

10.15 Break

10.45 Session 3.2      **Roundtable Discussion:  
Where to from here? Opportunities and challenges of using scanner data in practice**  
  
Facilitator: Michael Smedes  
Facilitated discussion with workshop participants

11.45 Session 3.3      **Final comments and Feedback on Workshop**  
Facilitator: Michael Smedes

12.00                      **Close of Workshop**