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

11.15 Welcome
Facilitator: TBC
Formal welcome. Importance of big data for measuring Official Statistics

11.30 Introduction
Facilitator: Michael Smedes
Overview of workshop; introduction of presenters

11.45 Session 1.1 Overview of Scanner Data – Data types, sources and country practices
Presenter: TBC
Introduction to key aspects of scanner data: data sources, international experiences and general applications
<table>
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<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>12:30</td>
<td>Lunch</td>
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| 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**

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| 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**