Workshop on use of Mobile Phone Data for Tourism statistics

Organized by Positium, Flowminder, Eurostat and BPS Indonesia

Purpose

This workshop aims to demystify mobile phone data by way of practical work with datasets themselves. The course is structured around the chain of processing mobile phone data, from big data to results. During this course you will be able to learn and experience (a) Domain knowledge of mobile phone data; (b) Mobile phone data extraction; (c) Processing mobile phone data; and (d) Assess quality of statistics based on mobile phone data.

Presenters

Date: 29 April -1 May 2019
Venue : Data Science Campus, Kigali, Rwanda
Presenters: Mr. Siim Esko, Positium
Ms. Tracey Li, Flowminder
Ms. Alfatihah Reno, BPS Indonesia
Mr. Karoly Kovacs, UNSD
Mr. Fabio Ricciato, Eurostat (remotely)

Programme

Day 1 Mobile Phone Data and Official Statistics

11.15 Introduction
Presenter: Karoly Kovacs
Introduction and applications of mobile phone data in tourism, mobility and population statistics

Session 1.1 Overview – Data types, sources and country practices
Presenter: Siim Esko
What are mobile phone data? Overview of data generated by mobile communication technologies and choices.
Practical exercise 1 to compare different data types. The participants will understand the trade-offs between size, complexity and usefulness

Session 1.2 Mobile Phone Data Task Team
Presenter: Karoly Kovacs
Overview of the objectives, deliverables and current work of the task team and its ongoing projects
Session 1.3  **Mobile Phone Data hands-on**  
Presenter: Tracey Li  
Participants will have access to and inspect two common types of mobile phone data – Call Detail Records and signaling data – in the raw data form.

Session 1.4 **Access MPD**  
Presenter: Fabio Ricciato  
How to get access to mobile data for NSIs? Understanding stakeholders and partnership models for mobile data projects.

Exercise **Mobile Phone Data survey**  
Participants will fill a brief survey on the necessary conditions currently available in their organization for accessing and using mobile phone data.

17.00 Close

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Day 2  **Mobile Phone Data and Official Statistics**

9.00 Session 2.1 **Pre-process MPD**  
Presenter: Siim Esko  
How to clean and pre-process the data? Understanding the general model for cleaning and processing mobile data.

Exercise **Using UN Global Platform**  
Pre-processing mobile phone data.

Session 2.2 **How to calculate Tourism Statistics: Case Study Indonesia**  
Presenter: Alfatihah Reno  
How to calculate tourism statistics? Identification of tourism indicators, calibration and inference.

Exercise **Using UN Global Platform**  
Practical exercise – demonstrations of tourism calculations.

Session 2.3 **How to use MPD for population census: Case Study Estonia**  
Presenter: Siim Esko  
Registry-based census pilot in Estonia.

17.00 Close
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| 9.00  | **Roadmap for accessing and using mobile phone data**  
       | Presenter: Karoly Kovacs  
       | Review of considerations for starting mobile phone data projects. Review of survey responses and analysing the missing pieces in each organisation. |
|       | **Discussion: Next steps. How to initiate mobile phone data projects**  
       | Facilitator: Tracey Li  
       | Facilitated discussion with workshop participants |
|       | **Final comments and Feedback on Workshop**  
       | Facilitator: Siim Esko  
       | Facilitated discussion with workshop participants |
| 12.00 | **Close of Workshop** |                                      |                                  |