

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

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

- 9.00 Session 3.1 **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.
- Session 3.2 **Discussion: Next steps. How to initiate mobile phone data projects**
Facilitator: Tracey Li
Facilitated discussion with workshop participants
- Session 3.3 **Final comments and Feedback on Workshop**
Facilitator: Siim Esko
Facilitated discussion with workshop participants
- 12.00 **Close of Workshop**