

Agenda of Hands on Workshop on MPD for Asia Pacific, 11-14 June 2019

Agenda
<p>Objective:</p> <p>Hands-on training of National Statistical Office staff about the use of Mobile Positioning Data in Official Statistics</p>
<p>Key Outcomes:</p> <ul style="list-style-type: none">• Understand mobile phone data• Know basic methods for mobile phone data analysis for various statistics• Know how to plan for an MPD project
<p>Trainers</p> <ul style="list-style-type: none">- Siim Esko, Positium- Alfatihah Reno Maulani, BPS Statistics Indonesia- Karoly Kovacs, UNSD- Tanja Sejersen, UNESCAP
<p><i>Session 1 – Introduction to Mobile Phone Data</i></p> <p>Why Mobile Phone Data use in Official Statistics?</p> <ul style="list-style-type: none">- How does big data (and MPD in particular) fit into the larger international official statistics context?- How does big data fit from the perspective of the fundamental principles of official statistics- What are the applications of MPD in official statistics <p>Mobile Phone Data overview</p> <ul style="list-style-type: none">- Forms of mobile phone data- Technical specificities of the origins of mobile phone data- The usual MPD format <p>Activity</p> <ul style="list-style-type: none">- Describe the metadata of the mobile phone data sample given

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Session 2 – Accessing Mobile Phone Data

Mobile Phone Data Access

- Stakeholders to include, their roles and motivations
- Legal access
- Cooperation with Mobile Network Operators (MNOs)

Activity

- Read and analyse the Memorandum of Understanding for cooperation between BPS Statistics Indonesia and MNO

Session 3 – Frameworks for Processing Mobile Phone Data

Preparing to work with MPD for Official Statistics

- How to set up the core methodological framework for MPD
- How to set up the Quality Assurance framework for MPD
- Cleaning and pre-processing the data

Session 4 – Data pre-processing and usual environment calculation

How to calculate home locations and usual environment?

- First steps after cleaning the data
- Definition of home and usual environment in data
- From simple to complex home location detection

Activity

- With the given sample data, calculate home location and usual environment

Session 5 – Tourism calculation

How to calculate tourism statistics?

- Definition of tourism in data
- How to calculate trips
- How to calculate trips outside usual environment

Activity

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- With the given sample data, calculate outbound and domestic tourism trips

Session 6 – Data science

How to use data science with mobile phone data

- Methodological issues in data science by Wayne Wobcke, School of Computer Science and Engineering University of New South Wales
- Examples of data science with mobile phone data by UN Global Pulse Lab Jakarta (field trip)

Session 7 - Planning a Mobile Phone Data Project

Creating a concept note for a mobile phone data project

- Specifying the need – problem in statistics to overcome, the MPD solution, potential benefit from MPD
- Overview of data access principles – defining the scope of access and legal conditions surrounding it
- Overview of existing and needed hardware, software and skills
- Coming up with a cost estimate and funding sources
- Creating a roadmap

Activities

- Develop a description of the most urgent need in statistics in the corresponding country
- Develop a concept note for tackling that need with mobile phone data
- Present the concept note

Discussion and wrap up (closing)

- Revisiting the fundamental principles of official statistics and big data
- Work of the UN Global Working Group on Big Data in Official Statistics and the UN Global Platform