UNECE
Working Party on Transport Statistics
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Mobile phone data for Transport Statistics
UN-CEBD Task Team on Mobile Phone Data (MPD)

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Lead, UN-CEBD Mobile Phone Data Task Team
Established since the inception of the UN Committee of Experts on Big Data and Data Science for Official Statistics (UN-CEBD)

Explore the use of mobile phone big data for the different areas of statistics and develop methodologies

Composed of around 50 individual members/30 entities - international and regional agencies, countries, academia, private agencies/companies

Meets (virtually) once a month to discuss issues related to the deliverables, events, and other activities

**Lead: ITU**

**Members:**

- Brazil
- Colombia
- Gambia
- Georgia
- India
- Indonesia
- Italy
- Japan
- Korea
- Malaysia
- Mexico
- Netherlands
- Oman
- Philippines
- Qatar
- Romania
- Saudi Arabia
- United Arab Emirates
- EU JRC
- Eurostat
- IMF
- IOM
- UNFPA
- UNGP Jakarta
- UNSD
- World Bank
- OECD-ITF
- UN-ECE
- Flowminder
- GSMA
- Positium
- Telenor
Areas of focus

1) Tourism statistics
   (lead: BPS Indonesia)

2) Migration statistics
   (Lead: GeoStat, Georgia)

3) Census and dynamic population
   (lead: Positium)

4) Displacement in disaster context
   (lead: University of Tokyo)

5) Information society indicators
   (lead: ITU)

6) Transport and commuting statistics
Activities of UN-CEBD MPD Task Team (2022)

- Nov 2022 - Organized a thematic session during the International conference on big data in Indonesia
- Nov 2022 - Organized a workshop on mobile phone data

- Launched the five Methodological Guides on the use of mobile phone data
  - Displacement and Disaster Statistics
  - Dynamic Population Mapping
  - Measuring the Information Society
  - Migration Statistics
  - Tourism Statistics

- Launched the MPD awareness raising course
  UN Global Platform - Learning Management System
Sub-group on MPD for transport statistics
Preparation of the Guide

Members:
- World Bank
- The University of Tokyo
- Statistics Italy
- UC Berkley
- Indonesia Statistics
- UNSD
- Positium
- Eurostat
- UNECE
- OECD-ITF

- Introduction (Purpose and advantages of using MPD, Target audience, link with SDG indicators)
- Applications/Use cases of Mobile Phone Data (country examples needed)
  - Transport and mobility
  - Transport and urban planning
  - Commuting statistics
- Data Sources/reference data (country examples needed)
  - Mobile phone data (data access, etc)
  - Traditional transport data
  - Sensor Data
- Methods (country examples needed)
  - Data processing
  - Integration with other data sources
  - Trips generation
  - Origin and destination generation
  - Transport mode detection
  - Routing
  - Evaluation and validation
- Quality assurance (country examples needed)
  - Raw data
  - Indicators based on MPD
  - Limitations of MPD
Way forward/activities in 2023

- Dissemination of the Guides and awareness raising course
- Conduct of trainings and events in collaboration with the UN-CEBD regional hubs

- Synthetic MPD data - to be used for capacity building
  - Sub-group was formed
  - Mandate to review the simulator done in the context of the EU project
  - Adapt the simulator to reflect data needed to apply methodologies covering the 6 areas of statistics
  - Inviting countries who to join the sub-group
  - Inviting countries to share experiences
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Thank you!