The Use of Mobile Phone Data for Official Tourism Statistics
[INDONESIA'S EXPERIENCES]

UNWTO Workshop on Tourism Statistics

Titi Kanti Lestari

Using MPD since 2016

- BPS Statistics Indonesia use Mobile Positioning Data (MPD) for Official Inbound Tourism Statistics since 2016
- Increase timeliness, better coverage, reducing work burden and respondent burden
- Before using MPD, Cross Border Survey, Household Survey are used
USES CASES IN TOURISM

✓ Inbound Tourists
✓ Outbound Tourists
✓ Domestic Tourists
✓ Event Analysis (Economic Impact of Asian Games 2018)

Inbound Tourists

• IMMIGRATION RECORD AT INTERNATIONAL GATES
  • NATIONALITY
  • LENGTH OF STAY
  • SEX
  • AGE

• MOBILE PHONE DATA (MPD) RECORD THE BORDER CROSSER THAT NOT RECORDED BY IMMIGRATION
  • LENGTH OF STAY
  • COUNTRY OF RESIDENCES
OUTBOUND TOURISTS

- IMMIGRATION RECORD AT INTERNATIONAL GATES
  - UNKNOWN DESTINATION COUNTRY
  - LENGTH OF TRAVEL
  - SEX
  - AGE

- MOBILE PHONE DATA RECORD OF DESTINATION COUNTRIES OF INDONESIAN TRAVELLER:
  - 2019: 174 DESTINATION COUNTRIES
  - 2020: 173 DESTINATION COUNTRIES
  - LENGTH OF STAY

DOMESTIC TOURISTS

- HOUSEHOLD SURVEY
  - PROVINCE LEVEL (34 PROVINCE)
  - QUARTERLY DATA

- MOBILE PHONE DATA RECORD OF DESTINATION COUNTRIES OF INDONESIAN TRAVELLER:
  - MUNICIPALITY/CITY LEVEL (514 MUNICIPALITY)
  - MONTHLY DATA
DOMESTIC MPD

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ROAMING MPD

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1. Quality Assurance
2. Sound Methodology
3. Privacy-Preserving Processing
MPD for Official Tourism Statistics

Press Release

https://www.bps.go.id/pressrelease.html

Publications
Contribution of Tourism in Indonesia, 2016 - 2019

Gross Value Added Tourism Industries (GVATI)
Tourism Direct Gross Value Added (TDGVA)
Tourism Direct Gross Domestic Product (TDGDP)

MPD for Tourism Satellite Account
THANK YOU

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