



Handbook on Using Mobile Phone Data for Transport Statistics



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MPD: Background

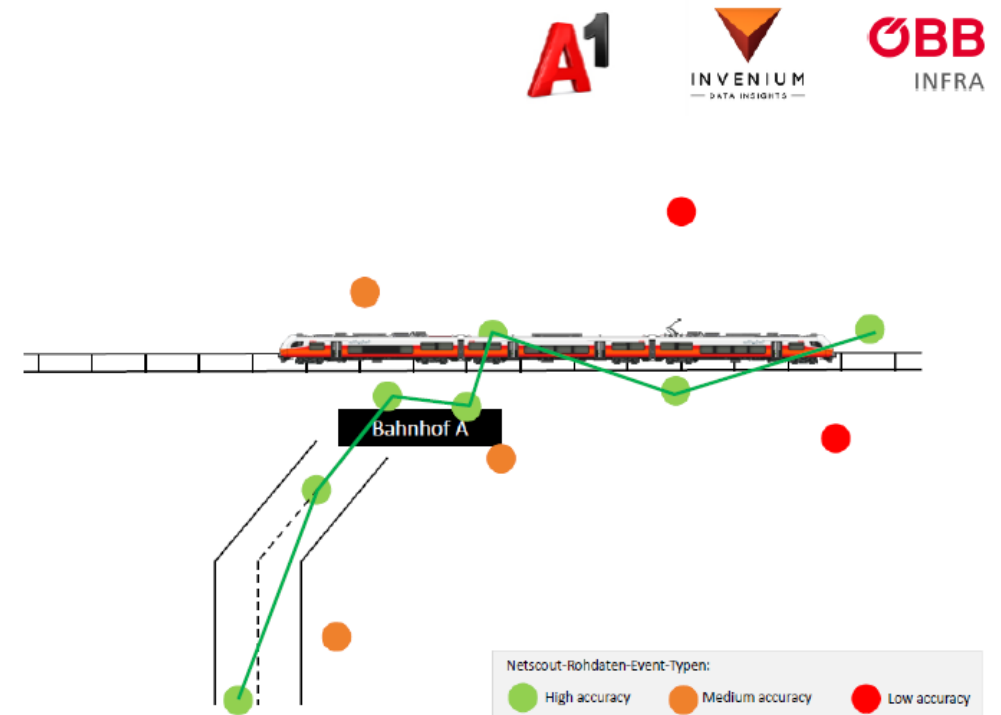


- Mobile Phone Data is being explored by many governments as a source for transport planning and/or statistics production
- Most examples show MPD used for transport planning, rather than official statistics
- Why? Promising data source but questions remain about:
 - Cost
 - Sustainability
 - Lack of common methodology
 - Accuracy and completeness

MPD: Uses



- Road traffic: difficult to produce real number of vehicles (and counters already give good information)
- Public transport passengers (sometimes available at high degree of detail from cameras or turnstiles)
- Walking and cycling (lack of empirical data to benchmark)
- **Main potential** seems to be Origin-Destination matrices (travel surveys often not detailed enough to have these for small areas)



Handbook Draft



- Handbook goal is to help countries **get started**
- As much practical info as possible
- Aim was not to repeat other sources, but still give some technical details on processing data. Other manuals are linked to where relevant.
- Multiple models available (processing done by MNO and passed to NSO aggregated; NSO processing data directly)

unece.org/sites/default/files/2023-05/ECE-TRANS-WP6-2023-Inf-1%20%28MPD%20Handbook%29.pdf

Handbook: Chapters



- Sources of transport data: existing and emerging
- MPD Landscape
- Use cases of MPD in Transport
 - Replacing/complementing household travel surveys (Indonesia)
 - Understanding modal use and user demographics (UK)
 - Tracking rail passengers (Austria)
 - Planning Bus services (Seoul)
 - Traffic counting (Poland)
 - Traffic planning for big events (UAE)

Handbook: Use Cases



- Approach: include as many examples as possible.
- More statistics-focussed examples would be welcome
- Does your country have anything to add (even if incomplete)?
- How about academic work?

You are invited to:



- Provide comments on the draft by mid-June.
- Share you own experiences on successes (or not!) in using MPD.
- Want to stay in contact with other countries working with MPD in transport? Join the subgroup.
- Got plans for other big data use in transport statistics?



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Thank you!

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