

Insights for practice from the NFP75

Presentation

Author(s): Axhausen, Kay W. (b)

Publication date: 2023-02

Permanent link: https://doi.org/10.3929/ethz-b-000598618

Rights / license: In Copyright - Non-Commercial Use Permitted

Funding acknowledgement: 18613 - Weiterführung des MOBIS/COVID19 Panels - Verkehrsverhaltenspanel für die Schweiz (SNF)

Insights for practice from the NFP75

KW Axhausen

IVT ETH Zürich

February 2023





Eidgenössische Technische Hochschule Zürich Swiss Federal Institute of Technology Zurich A Loder for the mobility tool ownership and MFD work L Ambühl, ETH for the MFD work J Molloy, ETH for the MOBIS/COVID C Tchervenkow, ETH for the MOBIS/COVID T Schatzmann, ETH for the MOBIS/COVID

The NFP75 team and consortium

Transport is a

system of moving queues

and

their servers

with

elastic demand

Observation and measurement of

- Context land use and activity levels
- Demand aggregate (flows)
- Demand disaggregate (person, vehicles)
- Supply network
- Supply services
- Results speeds
- Results crowding

Where to strike the balance, but based on what?

A model of Singapore's travel demand and traffic

MFD data for one year (Wiedikon, Zürich)



NFP75 23/02



NFP75 23/02

Influence of network design: Betweenness-Centrality



Network design measured in average betweenness centrality. Higher value indicates more bottlenecks (e.g. bridges)

First results using the approximation approach



Zurich

London

NFP75 23/02

MOBIS COVID Sample



Share of mobiles since September 2019



Number of trips since September 2019



- Big data should be interpreted against theory
- ML results should be interpretable (Shapley)
- Check against standard approaches
- GSM data would be great, if you could access to it
- GPS data helps and corrects human sources

Questions ?

