Mobility data: A balancing act of representation

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Mobility data: Representation?

Correlation of traffic load (AADTwd)

- \( y = 512.8x + 510.8 \)
- \( r = 0.935 \)

Representation: 1.9 %
Mobility data: boundary conditions

- Very diverse data landscape
- “Everybody is an expert”
- Trend: centralized data collection → (passive) citizen science
- Trend: cross section counts → household surveys → self tracking
- Trend: high repres. of small area → low repres. in large area
- OA/OG data:
  - Geometry, physical world (infrastr.)
  - Social flows on infrastructure

- ~ 1/3 contract research (municipal & regional govt., agencies, operators):
  → Extra effort to publish results
  → Double extra effort for data preservation
- Contractors: data preservation and OA are no priority (sometimes: unwished)
- Data preservation not yet issue with
  → Research grants
  → Thesis research
Mobility data: Needs, challenges ... reservations?

• “Freedom of information“ notion vs. data privacy ("Amtsgeheimnis")

• Contract research:
  → Data often considered as proprietary (who paid for collection, on whose premises did it happen)
  → Even though ≤ 100 % takes place on publicly (co-)financed infrastructure

• Data management plans → big shrugs

• Traffic counts of today = forecasting base of tomorrow

• Long-time accessible historic data highly valuable

• Big data ... “data graveyards“ of the future?