

Big Data in Official Statistics

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Statistics
Netherlands

Content

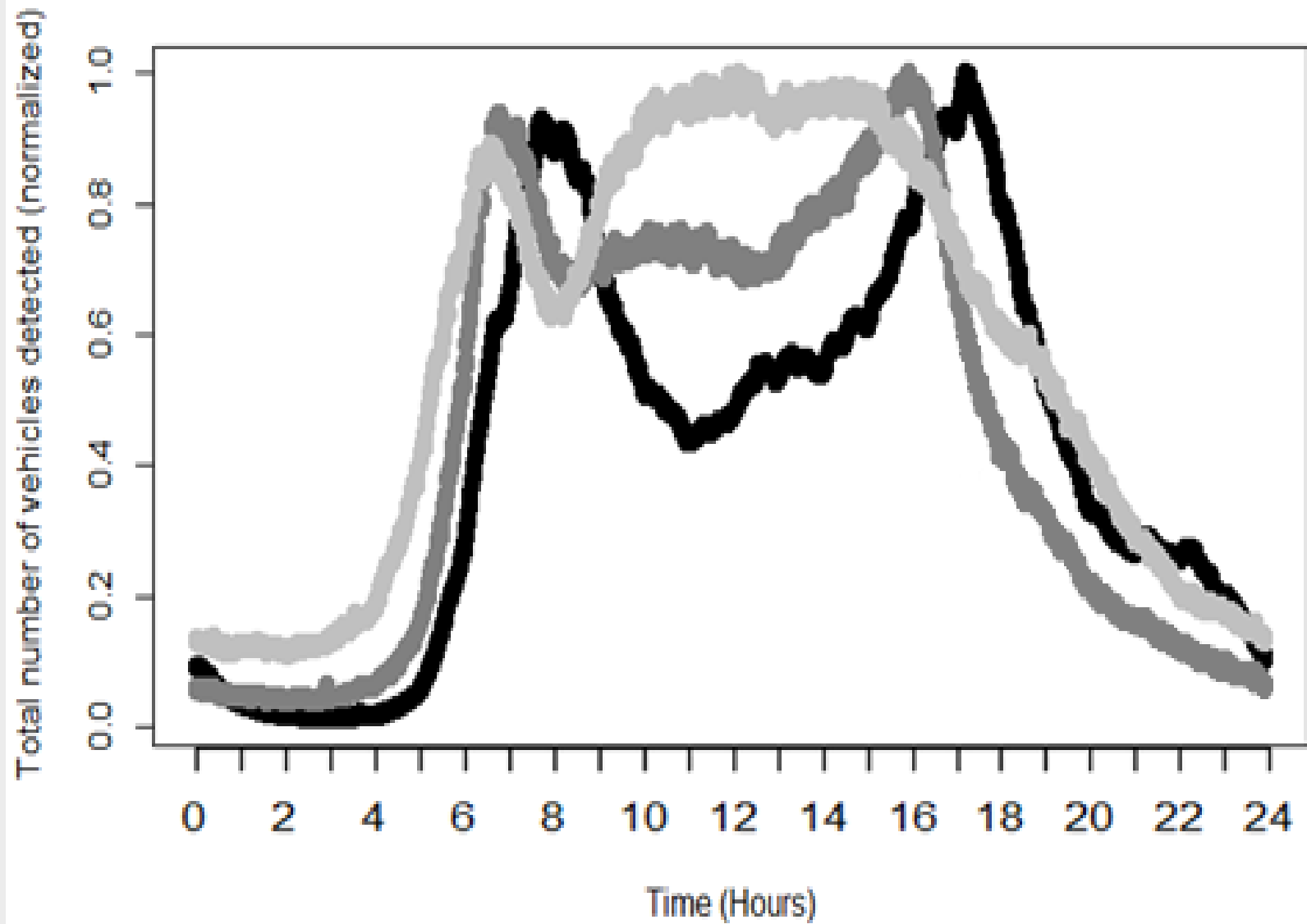
- Big Data characteristics
- Examples:
 - The use of traffic loop data
 - The use of mobile phone location data
- Big Data issues
- From ideas to statistics



Big Data Characteristics

- Trends
- Qualitative changes
- “Big Data are data sources”
- Volume, velocity and variety
- Big Data may have no design

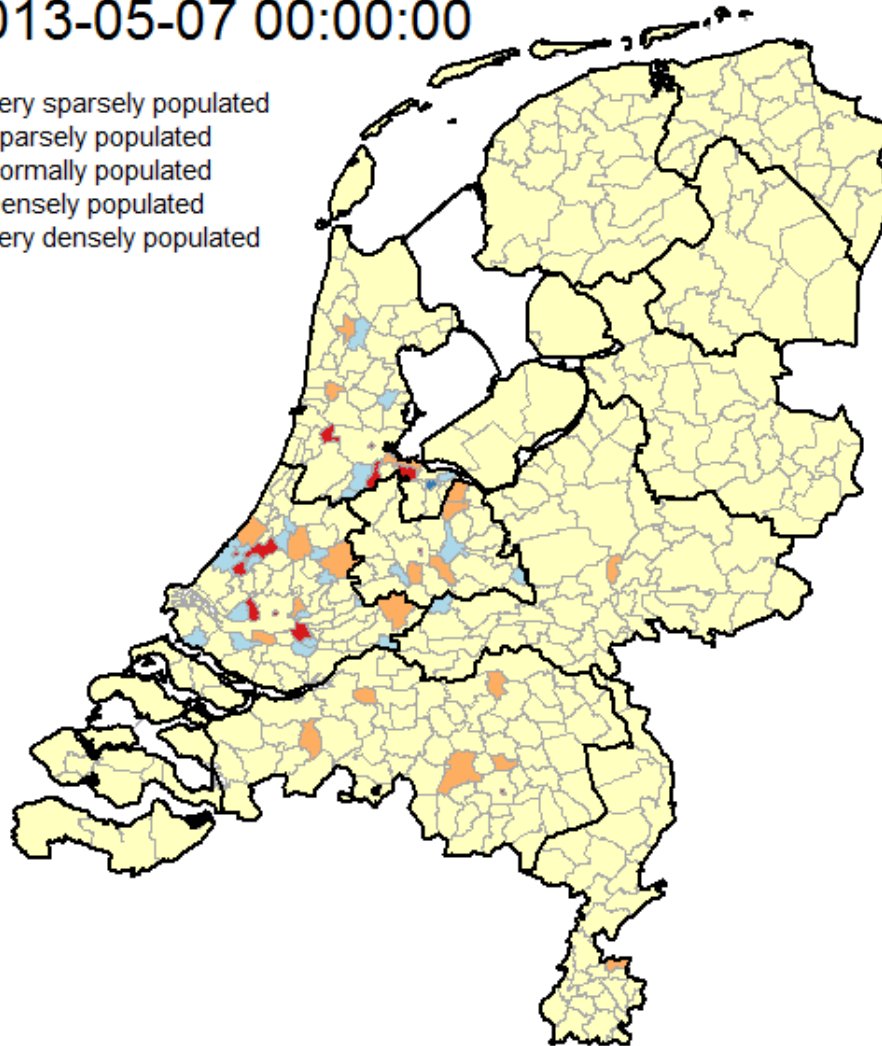




Daytime Population based on Mobile Phone Data

2013-05-07 00:00:00

- Very sparsely populated
- Sparsely populated
- Normally populated
- Densely populated
- Very densely populated



Issues

- Positioning of the NSI
- Statistical output
- Statistical methodology
- Statistical process
- Privacy and security
- Organisation

The Road to Statistics Based on Big Data

- From source orientation to output orientation
- Do not let Big Data issues block progress
- Roadmap approach:
 - *Identify a programme of outputs based on Big Data*
 - *For each output, define time target and ownership*
 - *Let owner identify conditions to be fulfilled*
 - *Commit supporting services to fulfilling the conditions*

Conclusion

- What is the role of NSIs in the future?
- How to make progress in making statistics based on Big Data?
- What does this mean for the national and international statistical community?