



# Big Data Matters

## Towards smart statistics

27.09.2017

| Time        | Programme  |
|-------------|--|
| 9.30-10.15  | Registration   |
| 10.15-10.20 | Welcome by chairman of the day Maurice Olivers (Brightlands)   |
| 10.20-10.30 | Opening by Statistics Netherlands (CBS) director general Tjark Tjin-A-Tsoi   |
| 10.30-11.15 | <b>Big Data -The day after tomorrow:</b> keynote by Peter Hinssen (nexxworks, London Business School en MIT Sloan School of Management)  |
| 11.15-11.45 | Network coffee   |
| 11.45-12.30 | <b>Center for Big Data Statistics – The value of big data for policy:</b> presentation by Twan Beurskens (Limburg Province), Magchiel van Meeteren (CBS) and Sofie De Broe (CBS) |

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| 12.30–13.30 | Network lunch  |  |   |
| 13.30–14.30 | Parallel session 1: Big data applications  |  |   |
| Title       | <b>Mapping mobility: painting a more detailed picture of traffic and transport with big data</b>   | <b>Sensors going smart: collecting big data for energy transition policy and statistics on agriculture</b>   | <b>Sharing is caring: combining access-restricted data across multiple sites in a privacy-preserving manner</b>   |
| Speakers    | Piyushimita Thakuria, Urban Big Data Centre (UK)<br>Ioannis Tsalamanis, Office for National Statistics (UK)<br>Marco Puts, CBS (NL)  | Matthijs Vonder ,TNO (NL)<br>Maiki Ilves, Statistics Estonia (EST)<br>Ralph Meijers, CBS (NL)  | Michel Dumontier, Institute of Datascience @Maastricht University (NL)<br>Johan van Soest, MAASTRO Clinic @Maastricht University (NL)<br>Bob van den Berg, CBS (NL)   |
| Summary     | Societies have become very mobile. These patterns are being observed for all types of transport: air, sea, road and rail. Mobility is interesting in itself to know how people are leading their lives, whether commuting patterns have become longer or shorter. We aim to map the regional and local level the intensity of traffic and transport in order to get a more detailed and different picture of mobility and its impact on society. | CBS proposes to explore the usage of sensor data as a source for statistics. Here we look at applications of sensors as smart meters to collect data in order to inform energy transition policy. We also look at sensors in the agro-business as a way to reduce response burden but also to explore the potential for making new statistical products. Examples of data-intensive sensor-based innovation projects show the great potential of this new ways of observing and collecting data. | What if it would be possible for different organisations to really work together on combined sensitive data sets? This would open a wealth of new opportunities. The question the University of Maastricht and CBS asked themselves was: How can we combine our health data in such a way that only results can be read and used, that combined data cannot be traced to individuals and privacy is secured? In this session, we demonstrate our efforts to create a new way of sharing data. |

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| 14.30–15.00 | Network coffee   |   |   |
| 15.00–16.00 | Parallel session 2: Challenges posed by big data   |   |   |
| Title       | <b>Useful.Beautiful.Data: methodological and IT challenges in the analysis and visualisation of big data</b>   | <b>Panel discussion: Right or wrong? Rules, regulations and ethics in a data driven world</b>   | <b>What happens online, stays online: measuring the internet economy with big data</b>  |
| Speakers    | Piet Daas, CBS (NL)  | Tom Smith, Data Science Campus@Office for National Statistics (UK)<br>Andrej Zwitter, Groningen University (NL)<br>Liesbet van Zoonen, Erasmus University Rotterdam (NL)<br>Michail Skaliotis, Eurostat (LU)<br>Peter Struijs, CBS (NL)   | Bastiaan Zijlema, Dataprovider (NL)<br>Oscar Delnooz, Ministry of Economic Affairs (NL)<br>Bastiaan Rooijakkers, CBS (NL)   |
| Summary     | Big data sources provide new and deeper insights in societal questions. To fully understand the information extracted, new methods are required. Two methods are explored; representativity in the usage of social media, and new ways of visualizing large amounts of data.<br>In this session, examples are given why these methods bring challenges with them and how they can be solved. | All organisations dealing with big data are confronted with ethical questions and dilemmas. This is not a matter of readiness to follow laws, regulations and guidelines. Rather, in a rapidly changing context the regulatory framework reflects yesterday's world, forcing organisations to make their own ethical choices. They are compelled to interpret the rules for situations for which they were not designed. This panel discussion will highlight how organisations respond to the challenges, including the ethical dimension of operating in an increasingly competitive environment and their efforts to bring the regulatory framework in line with current concerns, as experienced by the organisations working with data as well as by society at large. | More and more, companies exist online; either exclusively or as an addition to their commercial spaces in the high street. Online activity can also be observed cross-border. At the same time, the intensity of bank transactions and financials flows could be good indicators of economic activity itself. Under this topic, the activity of online companies and the intensity of online flows as indicators of economic activity are being measured. |

## Time

## Programme

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| 16.15-16.45 | <b>Presentation</b> by Andy Tatem, University of Southampton (UK) (a.o. Flowfinder) |
| 16.45-17.00 | Wrap up & closing led by chairman of the day Maurice Olivers                        |
| 17.00-20.00 | Network drinks and walking dinner   |