

Urban Data Centers in The Netherlands

Barteld Braaksma - CBS Innovation Manager



- 1. Why CBS Urban Data Centers ?
- 2. Results
- 3. Towards smart statistics
- 4. The challenging journey



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Cities have many data related ambitions:

Data driven, fact and evidence based, open data, big data, standardising data, (inter-) national benchmarking, smart cities

But cities lack access to national data and often lack data - expertise with regards to:

data science
data analytics
data integration
data visualisation
data management



So...why did CBS create Urban Data Centers ?

To connect CBS data and CBS data-expertise to cities leading to:

- a better understanding of a city
- better (facts based & data driven) informed city decisions
- better city finances (smarter use of data can lead to substantial savings on city budgets)
- optimized, harmonized, standardized data local regional national international







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Data may lead to better insights and better spending of city finances: combining and integrating data may help to *fight city poverty* and realise savings on city social welfare budget

Data Camp The Hague

innovative collaboration model before launch of UDC The Hague (March 2017)

- 30 researchers, four organisations
- 8 research questions related to poverty
- Working in secure closed environment
 - CBS microdata
 - The Hague microdata
 - Social media, online election programs
- Very successful, but
- Far too little time and data... 😕





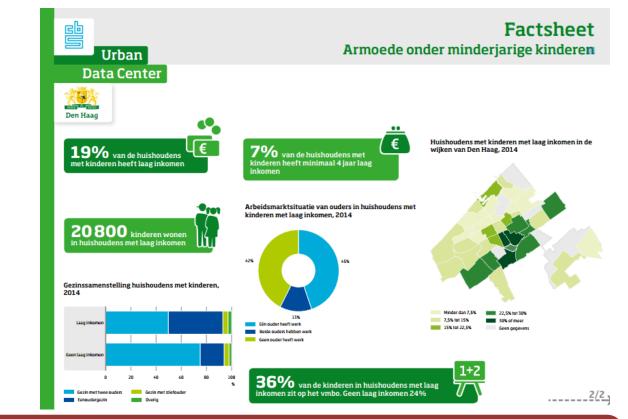
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Poverty among children in The Hague

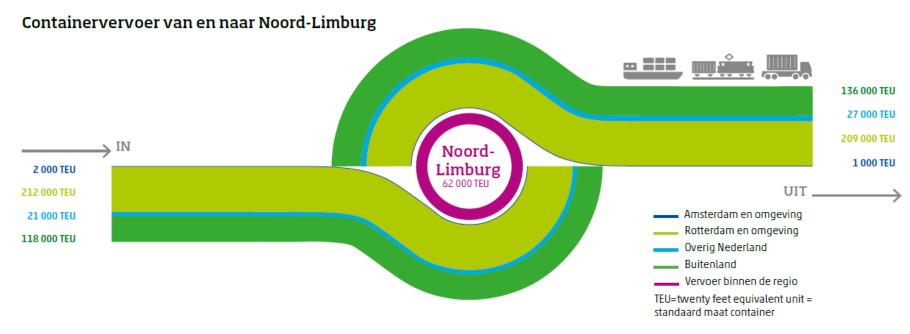
Information on

- ✓ Children affected
- ✓ Parents' work
- ✓ Family situation
- ✓ Education level
- ✓ Living environment
- ✓ Duration

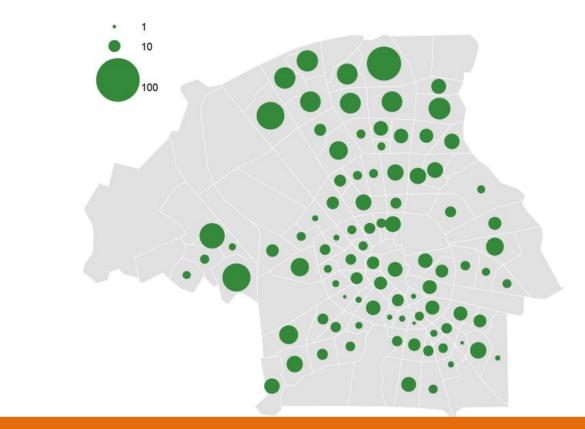
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Information presented at the opening of UDC The Hague, September 2017 as part of a Fact Sheet inspired by results from the data camp Better understanding cross national border transportation of goods (used for citymarketing)









Data driven (investment) decision making in UDC Eindhoven Where are the electric cars? Information used to install charging stations for electric cars in the right places



Through collaboration with the World Council on City Data (since 2016) city and national data are increasingly *standardized and harmonized with global data*



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Is the time of statistics over?

In a post-truth world, statistics could provide an essential public service John Pullinger

The long read

theguardian

How statistics lost their power - and why we should fear what comes next

The ability of statistics to accurately represent the world is declining. In its wake, a new age of big data controlled by private companies is taking over - and putting democracy in peril by William Davies CBS answer: Center for Big Data Statistics (connected to UDCs)

https://www.theguardian.com/polit ics/2017/jan/19/crisis-of-statisticsbig-data-democracy



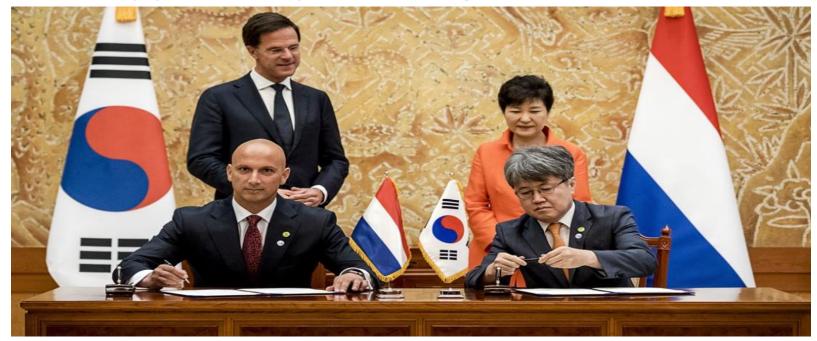
Center for Big Data Statistics

Data, data everywhere

Information has gone from scarce to superabundant.



CBDS approach: partnering!

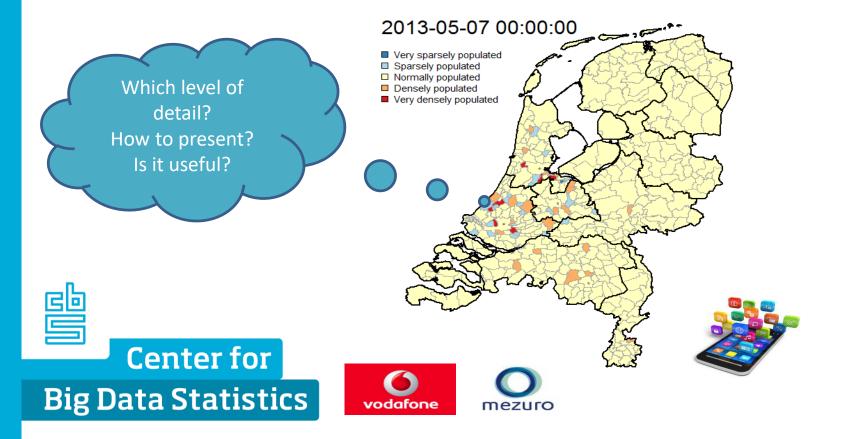




Center for Big Data Statistics

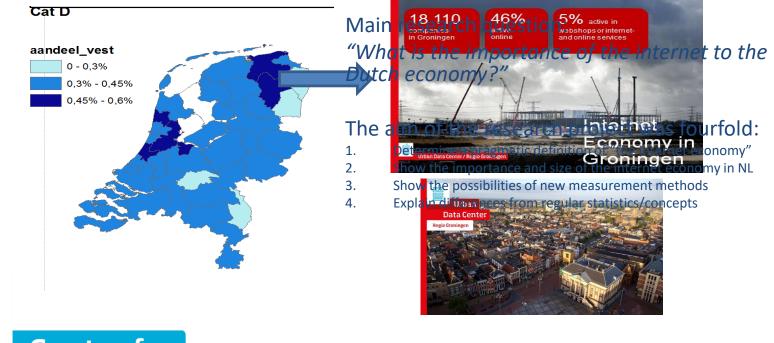
- Academic, public, private partners
- Both national and international
- Various relationships

Daytime population based on mobile phone data



Measuring the internet economy in The Netherlands- and Groningen





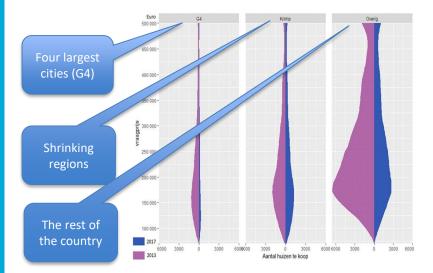
Center for Big Data Statistics

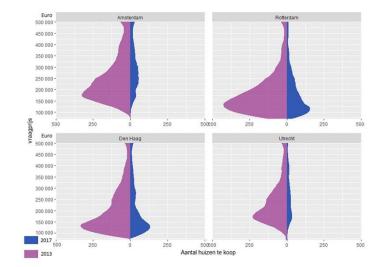
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Google

园 dataprovider 2.5 million Dutch websites linked to business register

The online housing market in The Netherlands







Number of houses for sale online, 2013+2017



National Bicycle Counting Week 18-24 September 2017



Center for Big Data Statistics

Can we turn this into statistics?

National Bicycle Counting Week 18-24 September 2017







Center for Big Data Statistics

Yes we can! See also the website



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change is

difficult.

not changing

is

fatal.

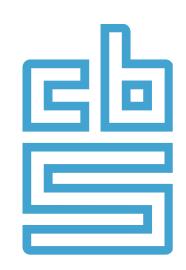




Creating and implementing CBS Urban Data Centers is a **challenging journey**, not "a walk in the park"







Facts that matter