



KpVV: Transport Knowledge Resource Centre

Creating a sense of urgency for sustainable mobility by benchmarking cities in the Netherlands

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How sustainable is our municipality?

- interesting data unknown by policy makers
- compare own situation with that of others
- knowledge on the municipality level
- 'clean public buses poster'



Dashboard Sustainable and Smart Mobility

- An internet platform
- Benchmark figures on municipality level
- Information on all kind of aspects of sustainable mobility
- Free access to Excel sheets with source data
- Using social media
- web-blog > interaction











onderstaande figuur weergegeven. In het meest gunstige scenario halen we dit doel, maar dat scenario gaat uit van invoering van de kilometerheffing. Het kabinet heeft daar een streep door gezet, waarmee dit doel onbereikbaar lijkt. Volgens de berekeningen komt de emissie in 2020 uit op 35 Mton CO2, dat is een toename van 17% tov 1990.

De beleidsbrede doelstelling van het kabinet tot een reductie van 20% (1990-2020), wordt waarschijnlijk wel gehaald, al is deze niet voor de sector verkeer doorgerekend.

Tijdelijke daling uitstoot door crisis

De CO2-uitstoot daalt sinds 2008 licht. Dit komt grotendeels door de economische crisis. Als de economie aantrekt en het verkeer de verwachte groei gaat realiseren, zijn meer maatregelen nodig om de doelen te halen die Rijk en gemeenten in het klimaatakkoord stelden.

Planbureau voor de

track towards Kvoto

17 Oct 2012 - Climate Change Committee

approves national limits

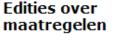
on non-ETS emissions.

emissions target

for 2013-2020

Regeerakkoord slaat

Leefomgeving



Gezondheid

Klimaat

😏 Schone lucht





































Current dashboards

Targets

- -External costs
- Health
- -Energy
- -Accessibility
- -Clean air
- -Climate

Measures

- -Cycling
- -Pedestrian
- -Car sharing
- -Filling points and charging stations
- -Clean car's
- -Teleworking
- -Smart office planning
- -Work place travel planning



Demo dashboard gezondheid??



Design Principles for the Dashboard

- "Popular" Headlines > punch line
- Short messages (like in newspapers)
 - Mix of Maps, figures, Tables and text
 - urbanization and regional level
 - List of best/worst municipalities
- Detailed data in .XLS(X)
 - Mainly based on existing data
- Links to relevant literature and websites
- Smart use RSS-feeds



"Popular" headlines

E-bike could lead to 20% more bicycle use

Driving a car: worse than smoking?

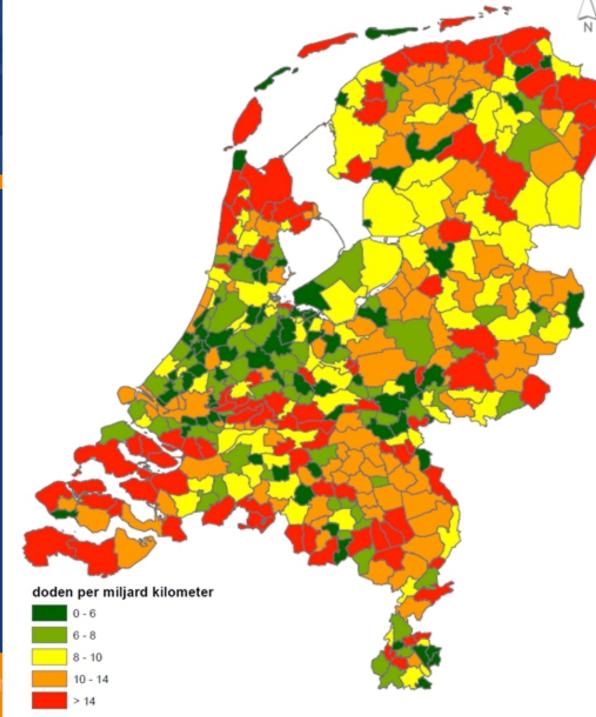
Transport is the major source of CO2 emissions within 40% municipalities

The number of tele workers tripled within 7 years

. . .



Using maps and figures



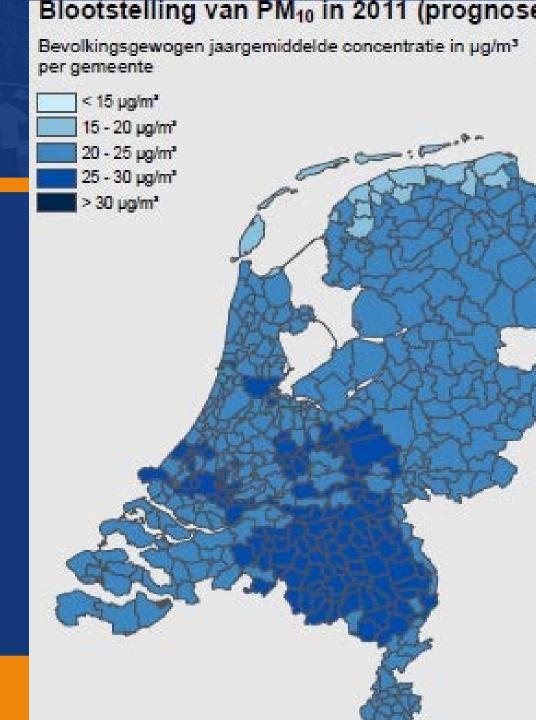


Samen weten we n

Categorizing based on urbanization level

Stedelijk-heidsgraad	Aandeel verkeer en vervoer in de totale emissie van CO ₂	Verkeer- en vervoeremissie in ton CO ₂ per persoon
(sterk stedelijk)		
1	30%	1,52
2	34%	1,74
3	40%	2,32
4	48%	3,17
5	50%	3,45
(landelijk gebied)		
Gemiddeld		2,35

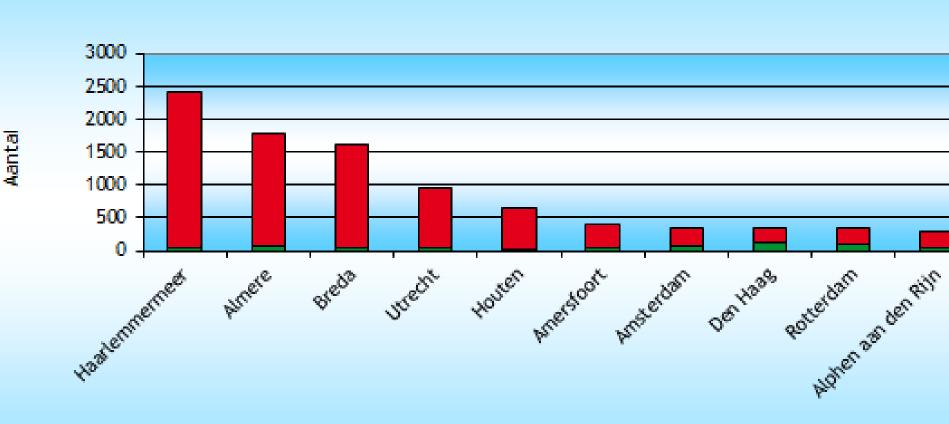
Comparing with Surrouding municipalities





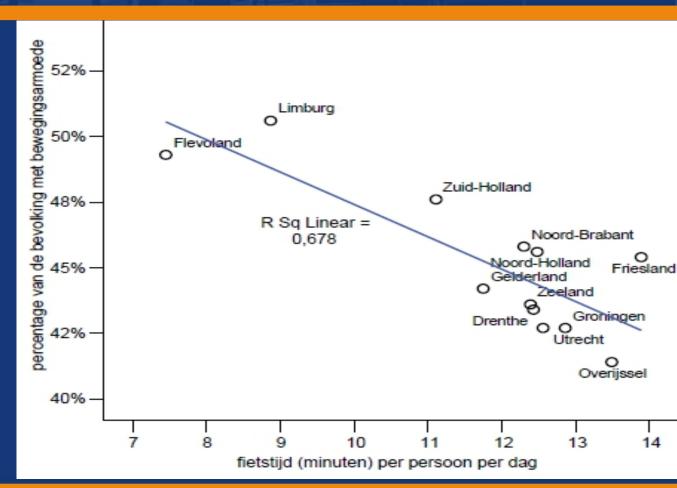
Samen weten we meer

Top 10 gemeenten nieuw verkochte alternatieve voertuigen in 2009



Explanatory factors

Higher bicycle use leads to less lack of exercise





Communication

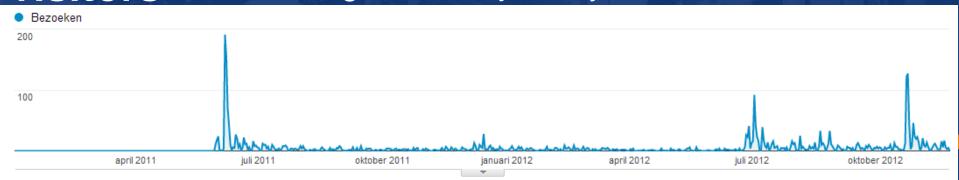
- Communication plan
 - Target group: professionals concerned with sustainable and smart mobility;
 - Especially governors and policy makers
 - Every month a new edition
 - News on the KpVV homepage
 - In the digital KpVV-newsletter
 - E-mail alert to 2000 people interested in sustainable or smart mobility
 - Question in about 4 social media groups like LinkedIn

Evaluation

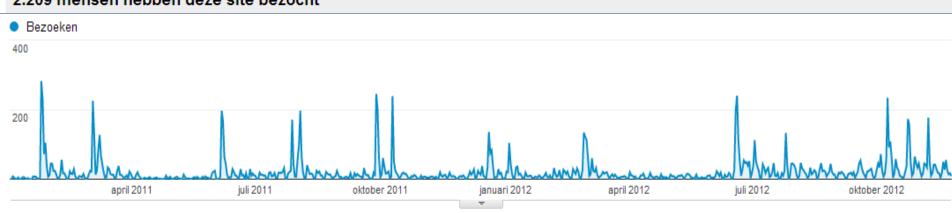
- 83 % (N=98) knows the dashboard
- Response from the traffic department (2/3) but also in de environmental (1/5) and the spatial planning (1/6) department
- 44% say due to the dashboard they are more working on sustainable mobility
- 88% thinks it's a good product; 77% would recommend it to their colleagues
- 13% would like a better design



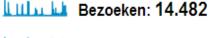
visitors Car sharing and total january 2011-november 2012



2.209 mensen hebben deze site bezocht



10.383 mensen hebben deze site bezocht

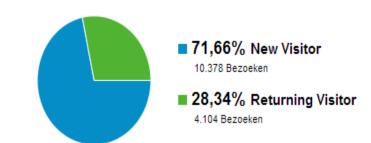


Unieke bezoekers: 10.383

Paginaweergaves: 25.413

Pagina's/bezoek: 1,75

Gem. bezoekduur: 00:02:08



Added value of offering benchmarking sustainable mobility data

- Ranking cities on their sustainability performance helps to create a higher sense of urgency
- Comparing cities is one thing, but a higher added value has a time series approach
- A good benchmark takes into account structural factors and compares only similar cities
- The coming years more and more data (big data) will come available. The possibilities to benchmark cities will increase rapidly



Plans for coming year(s):

- More dashboards (accessibility, public transport, ..)
- more time-series information (monitoring and linking information to policy actions)
- on-line statistics (use of big data)
- aggregate all results in one comparable unit and make a sustainability score of municipalities
- Adding information from other European countries?

