



EasyWay



DATEX II for NDW

**Gerben Hoogeboom
NDW**

**DATEX II Forum Berlin
March 16/17 2010**

Agenda

- Introduction NDW
- NDW data delivery
- Product examples
- Datex II for NDW
- Lessons learned during development
- Pro's and Cons
- Conclusion
- Questions ?

National Data Warehouse for traffic information

- NDW mission statement
 - *NDW contributes to mobility in the Netherlands as a network organization by providing a reliable, future-proof and cost-efficient national data system for collecting, storing, controlling and publishing all data relevant to traffic and stimulating its use*
- Project initiated by Dutch DoT in 2005
- Commitment from 14 local governments
- Agreement signed in December 2007
- Start of system development in February 2009

Network NDW
5500 km

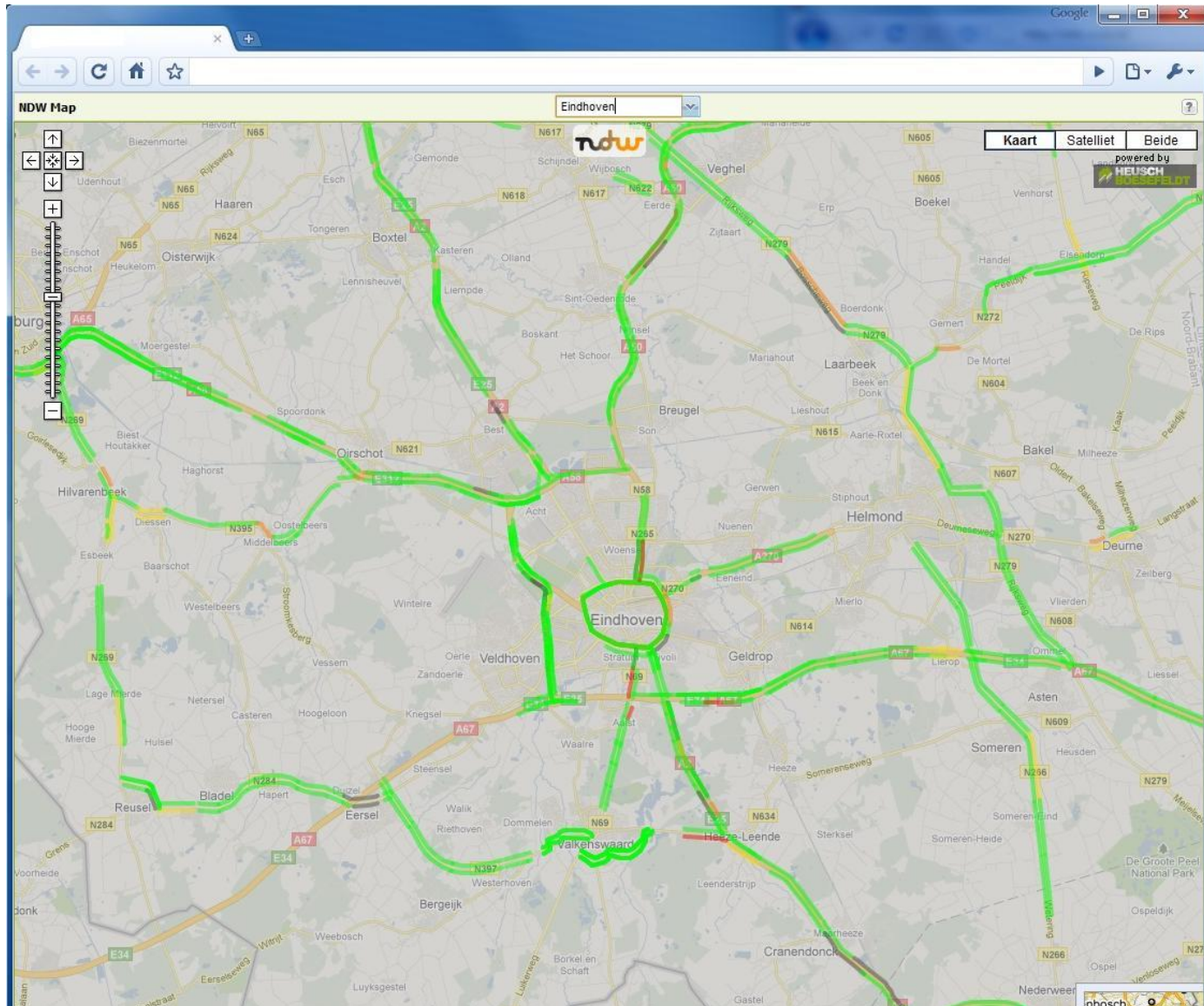


- Rijkswaterstaat (all highways)
- Amsterdam
- Rotterdam
- Den Haag
- Utrecht
- Province Noord-Brabant
- Province Noord-Holland
- Province Utrecht
- Province Zuid-Holland
- Region Utrecht
- City Region Amsterdam
- City Region Arnhem-Nijmegen
- City Region Eindhoven
- City Region Haaglanden
- City Region Rotterdam

National Data Warehouse for traffic information

- Traffic Information & Traffic Management
- Actual traffic data: Travel Flow, Travel times, Local speeds
 - Actual traffic data is Real-time and delivers one-minute-data within 75 seconds!
 - Approximately 27.000 measurements
- Status data: Actual and planned roadworks, actual and planned availability of infrastructure, actual traffic situation
 - Approximately 3500 roadworks and 10.000 objectstatuses
- History of the above
- Product development based on NDW data is done by commercial parties (customers of NDW)
- More to come....

Some product examples



Optimaliseer uw langzame PC
Verlengt de levensduur van uw PC

www.spamfighter.com/SLOW-PCfighter

Microsoft
GOLD CERTIFIED
Partner

Gratis scan

Ads door Google

verkeer

- snelheden actueel
- snelheden uur
- filemeldingen
- routeplanner
- filedruk
- filetrend
- snelheden mobiel**

gadgets

- op uw website?
- op uw PC?
- mobiele website

direct naar

- Nederland
- in vogelvlucht
- Amersfoort
- Amsterdam
- Den Haag
- Rotterdam
- Utrecht
- Breda
- Arnhem
- Nijmegen
- Maastricht
- Zwolle
- Leeuwarden
- Westen
- Oosten
- Noorden
- Zuiden

uitleg

- weblinks
- uitleg
- contact
- disclaimer

250 Visitekaartjes €4.99

Topkwaliteit en full color drukwerk Binnen 3 werkdagen in huis!

www.VistaPrint.nl

Afschaffen strippenkaart?

Wilt u weten waar u alleen nog kunt reizen met de OV-chipkaart?

www.ov-chipkaart.nl

Nooit meer Files

Begin met een filevrij bestaan. Wonen en werken wordt leuker.

www.ZuidLimburg.nl

Alternatief Strooizout

Per direct voorradig alternatief voor strooizout

www.denoudenbv.nl

Bepaal uw eigen verkeersinformatie!

Fileindex is vernieuwd. Vanaf nu kunt u de snelheid in 1 oogopslag zien op de A en N wegen. **Rood** is stilstaand verkeer, hoe witter de rijstrook is ingetekend hoe harder het verkeer rijdt. Zo kunt u direct zien of uw weg doorstroomt of niet! De komende maanden wordt het aantal meetpunten verder uitgebreid.

De gegevens worden iedere minuut bijgewerkt en zijn zo gedetailleerd dat u per rijbaan de snelheden kunt zien (gebruik hiervoor de inzoomoptie op de kaart). Indien u de specifieke filemeldingen wilt zien vink dan rechtsbovenin "filemeldingen" aan.

[Meer uitleg...](#)

Ads door Google

	< 10
	< 25
	< 50
	< 75
	> 75
km/per uur	

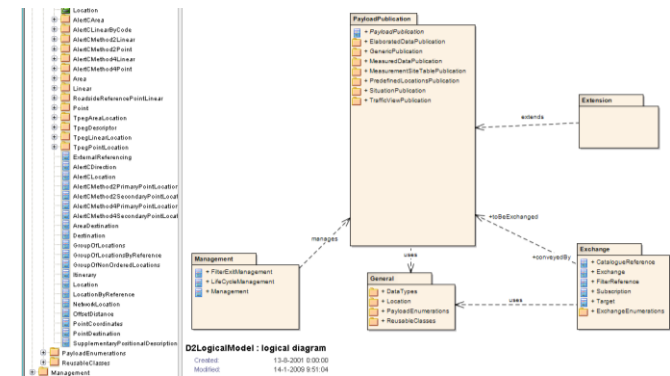
A2: 's-Hertogenbosch naar Utrecht
Langzaam rijdend verkeer tussen knooppunt Waardenburg en knooppunt Deil
Lengte: 2 km
Hectometerpaal start: 94
Hectometerpaal eind: 92
Melding sinds: 2-3-2010 11:30

Datex II benefits for NDW

- Datex II standardization and governance
- Datex II structure enables rapid development
 - First products developed in matter of weeks
- XML structure allows for easy interpretation
- Separation of Payload and Exchange mechanism

Lessons learned during development

- Due to broad deployment, country specific choices have to be made
- Organize a governance structure for Dutch profile equal to Datex II governance
- Translation to functional design needed
 - How to interpret Datex 2 technical specs for traffic management?
- Datex II model allows for interpretation
 - What rules apply (order and use)?
- Learning curve logical model
 - Connection between elements
- Ability to extend model if needed (example)



Pro's

- European guidelines applied
- A generic model that can be applied to country specific situations
- Once the baseline is established it's easy to develop products
- Separation of payload and exchange
- Work in progress

Cons

- Different interpretations of the Datex II model
- Large volumes of data due to use of xml
- Limited description of datex II elements
- Work in progress

Conclusion

- Datex II offers a baseline for deploying data on traffic management and traffic information
- It is important to apply the model to your local situation and add further specifications for use of the model
- Organize sessions with your stakeholders to ensure correct interpretation

Questions

