

## Geoinformation Dissemination for the General Public through Multiple Clients

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## Agenda

- Mission
- Spatial Data Infrastructure
- Dissemination for the public
- Concluding remarks
- Movie

## Mission

The core tasks of V&W are:



- to offer protection against floods
- to guarantee safe and reliable connections over land, water and through the air
- to ensure clean and sufficient water
- Rijkswaterstaat (RWS) is the executive branche of the Ministry of Transport

## Organisation: Dept. of Geo-Information & ICT (AGI)

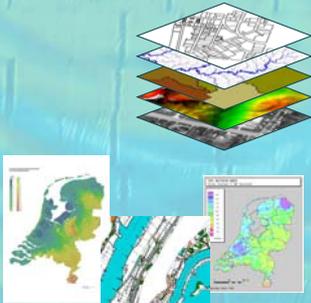


to service RWS with accurate geo-information



to deliver the generic ICT infrastructural needs and systems

## Geographic data at RWS



Purchased from third parties:

- Topographic maps
- Cadastral maps
- Aerial photography
- Soil maps
- Landuse
- Address-coordinates

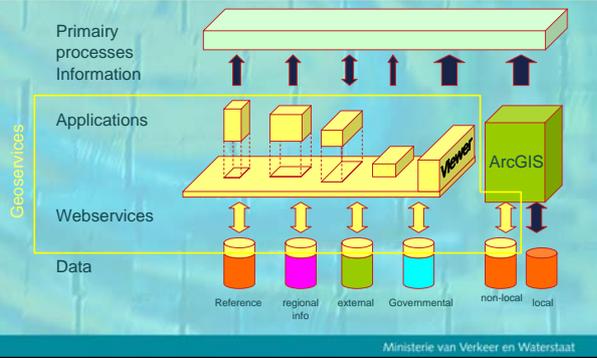
Rijkswaterstaat:

- Height benchmarks
- Digital Topographic Database
- Height database (AHN, partnership)

## Geoservices

- The development, implementation and organisation of a web based GI infrastructure at RWS:
  - Intranet
  - Internet
- Principles:
  - Data at one source, multiple use
  - Standardised (ISO/OGC)
  - Central infrastructure
  - Discovery, access and visualisation

## Geoservices



## Advantages

- Interoperability: use of geoinformation, independent of client, data format, data storage location, coordinate reference system,...
  - Data management: one source, multiple access
  - No vendor lock in
- Ministerie van Verkeer en Waterstaat

## Geo-information on Internet

- General Public
  - Technical possibilities
  - Examples: Ring Road Eindhoven ([www.randwegeindhoven.nl](http://www.randwegeindhoven.nl))
- Ministerie van Verkeer en Waterstaat

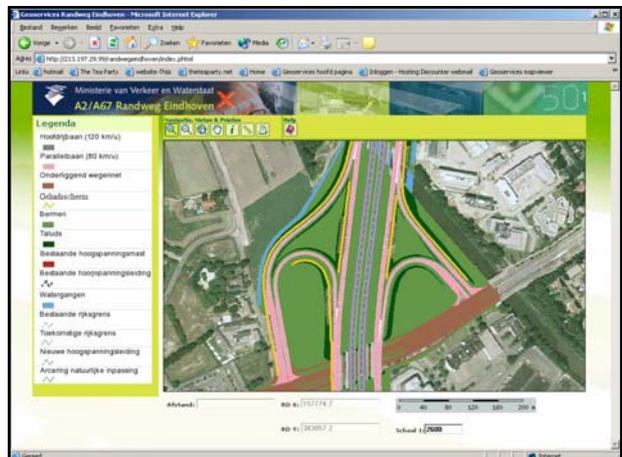
## General Public



## Internet access to geo-information

Possibilities	Characteristics	Examples
Web: standard	Text+images Pdf Flash	
Web: services	OGC 'Closed' solutions	Ring Road Eindhoven
Client	Google Earth GIS	Movie

Ministerie van Verkeer en Waterstaat



## Google Earth

*"My dream is having a Google Earth RWS, or a Google Earth Government, with cadastral boundaries, water pipes, sewerage networks, etc. We own the data, there is no problem. Additionally, I would like to have more data, and more up to date. Besides that, I want it faster."*

Luc Kohsiek (Dep. Dir.-Gen. RWS), GIN-conference 23/11/05

## GI literacy amongst managers

- 12 managers
- Hands on experience?
  - Route-planning: 12
  - Google Earth: 9
  - In car navigation: 8
  - Geoservices: 3

## Google Earth: options for RWS

- Google Earth: channel of publication:
  - RWS-data published by Google Earth
  - Connected with Geoservices
  - Through publishing KML

## Final remarks

- RWS:
  - Continuing improvement of Geoservices using OGC, OSS and commercial software
  - Extending Internet-services (standard infrastructure)
- Google Earth:
  - GI-literacy amongst managers and public
  - a channel for dissemination of geographic information

## Google Earth: movie!!



- Content:
- AGI Office building
  - 3D City Model – Rotterdam
  - DTB – Rotterdam
  - WMS – Eindhoven
  - Heightmodel
    - DEM
    - Contour lines

Producer: Shuman Kibria  
Music: Thijs van Menen

**Thank you for your attention!!**