The use of Geoportals in the Netherlands
- the example of infrastructural development

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The new Engineering Geology sources of information
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Overview

- Introduction
- Geoportals
  - Geoportals – The Characteristics
  - Geoportals - In the Netherlands
- The Dutch GIMCIW project
- The research part in the GIMCIW project

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Civil Engineering Infrastructural Development

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Civil Engineering Infrastructural Development

- GOAL:
  - facilitate geo-information exchange
  - improve communication between project partners
  - increase (re-)use of available geo-information

- desirable to have possibility to
  - derive data from one combined source
  - derive data in comparable type & format
  - derive data described according to common standard

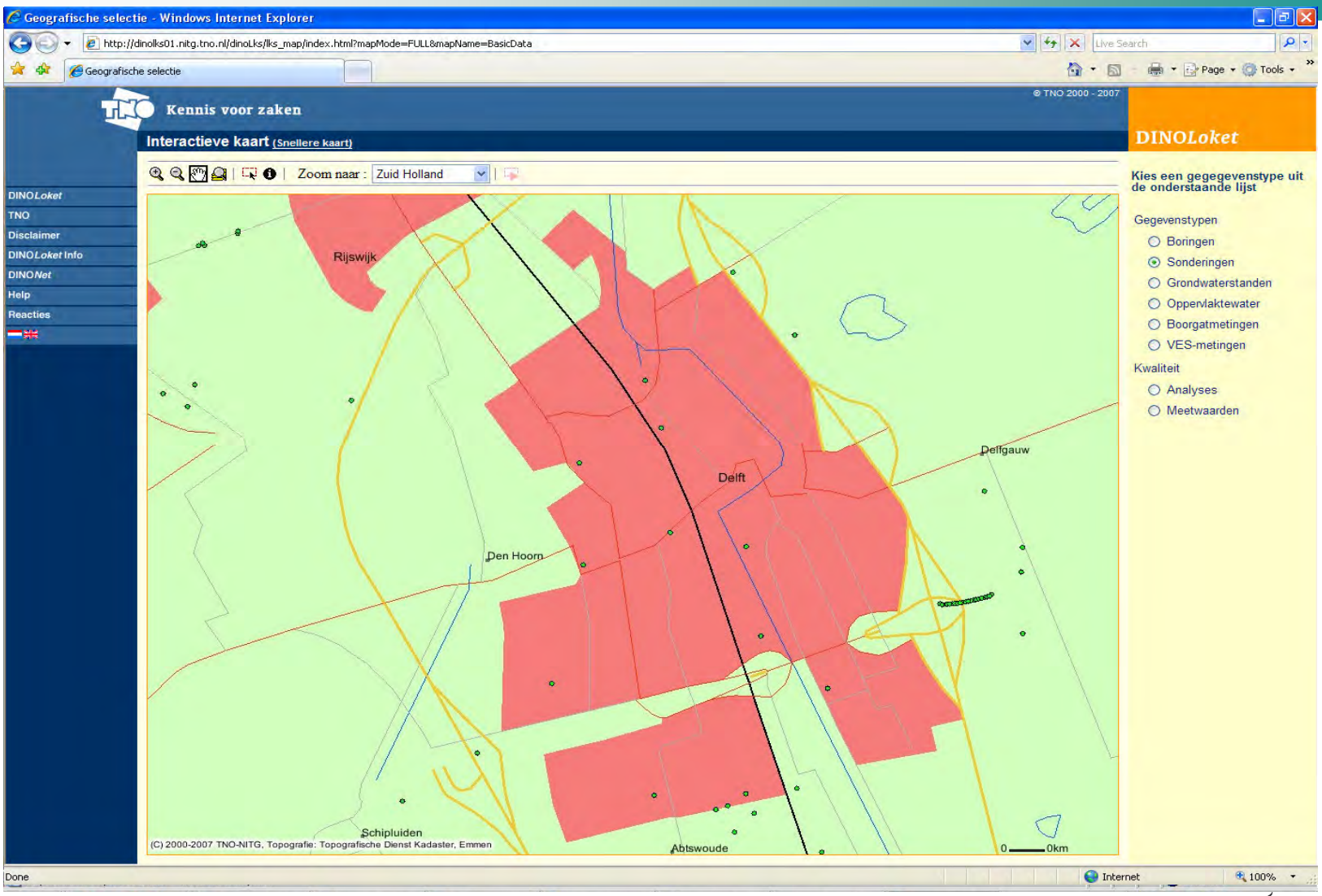
- Possibility:

  Use of Geoportals

Geoportals

- Geoportal:
  "…a web site considered to be an entry point to geographic content on the web or, more simply, a web site where geographic content can be discovered…"

Geoportals


Geografische selectie - Windows Internet Explorer
http://dinolks01.nitg.tno.nl/dinoLks/lks_map/index.html?mapMode=FULL&mapName=BasicData
Geografische selectie
Kennis voor zaken
© TNO 2000 - 2007
Interactieve kaart (Snellere kaart)
DINOLoket
Zoom naar : Zuid Holland
DINOLoket
TNO
Disclaimer
DINOLoket Info
DINONet
Help
Reacties
Kies een gegegevenstype uit de onderstaande lijst
Gegevenstypen
Boringen
Sonderingen
Grondwaterstanden
Oppervlaktewater
Boorgatmetingen
VES-metingen
Kwaliteit
Analyses
Meetwaarden
Rijswijk
Delft
Delfgauw
Den Hoorn
Schipluiden
Abtswoude
(C) 2000-2007 TNO-NITG, Topografie: Topografische Dienst Kadaster, Emmen
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Internet
100%

Geoportals in the Netherlands

	Content	*Infor-mation*	*Selection*	*Pricing*	*Data Format*	*Quality& Uncertainty*
Het rode loket	Building information	Location, construc-tion, use	Location, type of information	0,10-0,30 €	ASCII	None
Het groene loket	Biodiversity Environ-ment	Location, standards, data types	Location, time, data type	free of charge	ArcGIS map, MS Access, .jpg, .pdf	Quality element in metadata
Het witte loket	Biology, forestry, hydrology	Time, status, constraints	Location, content, data type	depending on data type	Data sets, satellite image, map	None
Kadaster	Cadastral information	Ownership, constraints, price, size	Location, type of information	depending on data type	ASCII, .pdf, .shp, .dxf, hardcopy	None
Rijkswater-staat	Road- & waterways	Topographic height map, aerial photo	Location, type of information	depending on data type	ASCII, .shp, .dxf	None

Geoportals in the Netherlands

	Content	*Infor-mation*	*Selection*	*Pricing*	*Data Format*	*Quality& Uncertainty*
Het bruine loket	Geotechni-cal infor-mation	Location, standards, data types	Location, time, data type	free of charge	ArcGIS map, MS Access, .jpg, .pdf	Quality element in metadata
Geodata-bank	CPTs, borehole data	Location, method, depth, results	Location, method, depth, time period	basic: 50 €, +15 to 90 € depending on data	.tiff	None
GeoBrain	Boring and foundation techniques	Location, construc-tion, geology	Location, method, ground structure	free of charge	insert as .pdf, view online	None
DinoLoket	Subsurface information	Location, method, geology, results	Location, method, ID	free of charge for private use	ASCII, .xml, .pdf	Quality codes in result table

Leading to…

GIMCIW

- GIMCIW = ‘Geo-Information Management for Civil Engineering Infrastructure’

- AIM:

  Development of a geo-information management system for
  - 1) proper organization of different types of geo-information
  - 2) proper organization of additional information and metadata
  - 3) proper organization of quality & uncertainty information

The research in GIMCIW

- Research covers 2 major topics

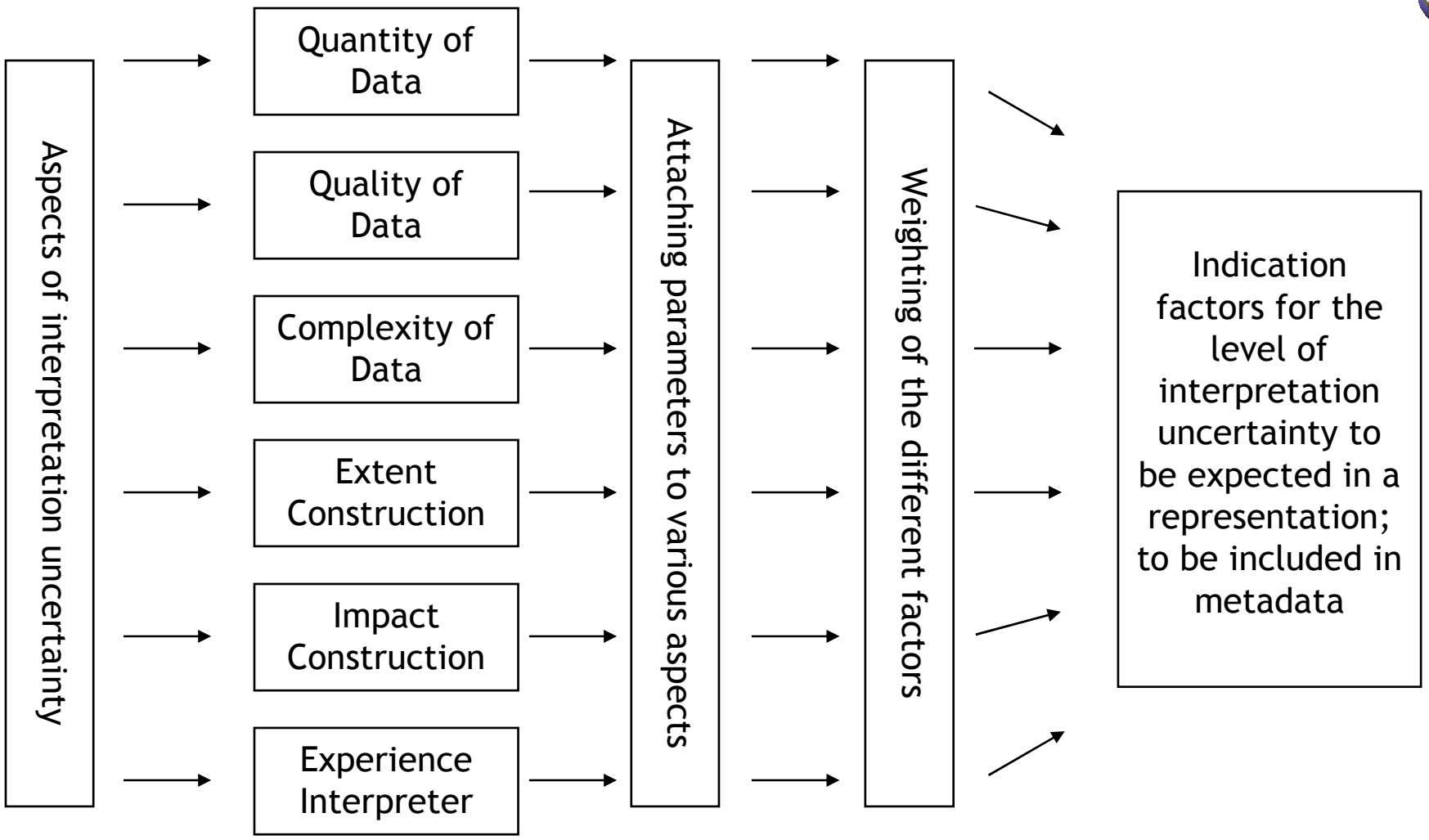
- Part 1:

  Quantification of quality & uncertainty – with focus on ‘interpretation uncertainties’ in subsurface representations

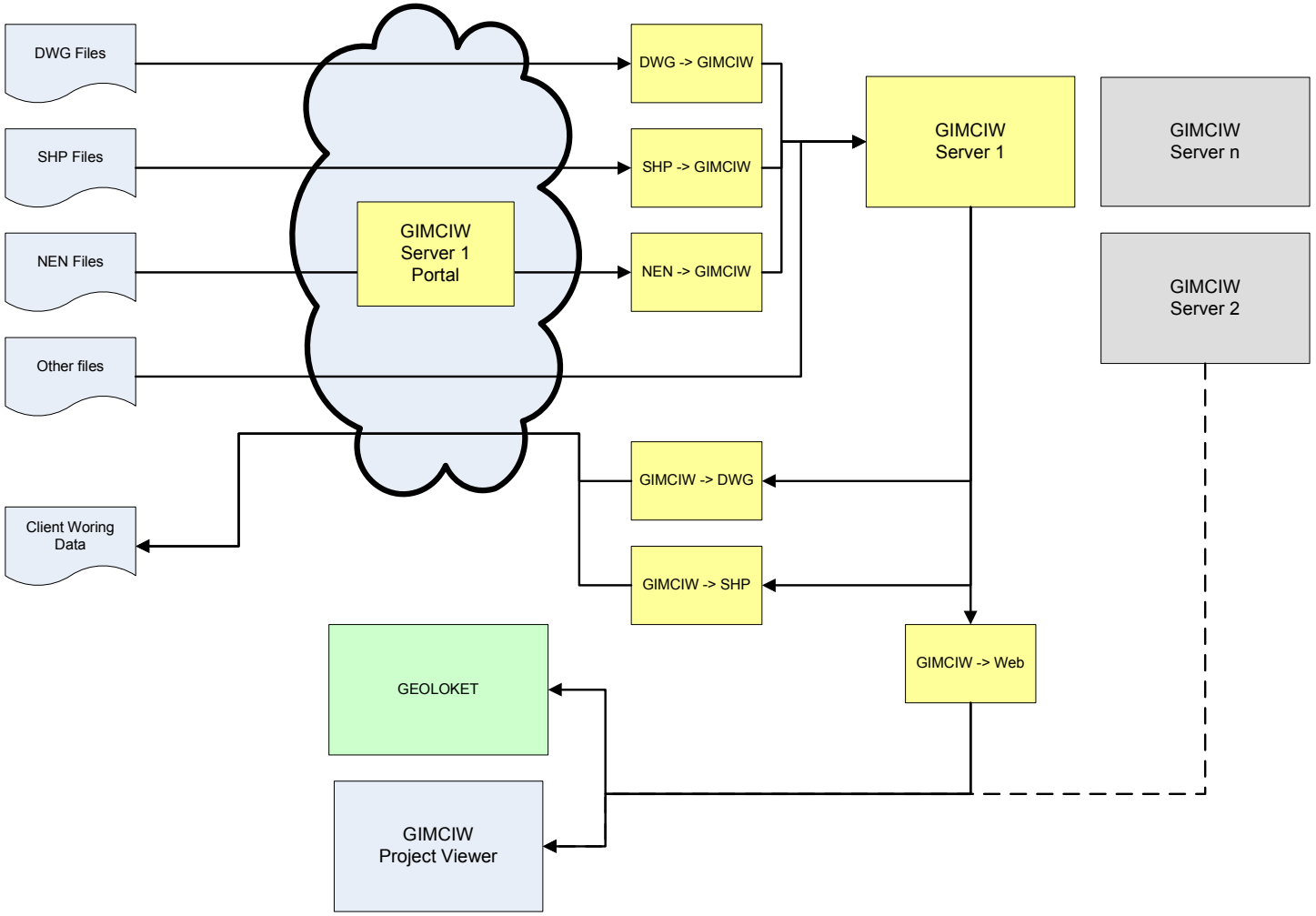
- Part 2:

  Harmonization of geo-information – with focus on the metadata & semantics as used by different parties

The research in GIMCIW - Part I



The research in GIMCIW - Part II



THANK YOU

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