

# 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

# Civil Engineering Infrastructural Development



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by courtesy of GCoortmijj



# 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://dinoloks01.nitg.tno.nl/dinoloks/lks\_map/index.html?mapMode=FULL&mapName=BasicData

Geografische selectie

TNO Kennis voor zaken

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DINOloket

Interactieve kaart (Snellere kaart)

Zoom naar : Zuid Holland

Rijswijk

Delft

Den Hoorn

Delfgauw

Schipluiden

Abtswoude

0 0km

(C) 2000-2007 TNO-NITG, Topografie: Topografische Dienst Kadaster, Emmen

DINOloket

Kies een gegevenstype uit de onderstaande lijst

Gegevenstypen

- Boringen
- Sonderingen
- Grondwaterstanden
- Oppervlaktewater
- Boorgatmetingen
- VES-metingen

Kwaliteit

- Analyses
- Meetwaarden

Done

Internet 100%

# Geoportals in the Netherlands



	<i>Content</i>	<i>Information</i>	<i>Selection</i>	<i>Pricing</i>	<i>Data Format</i>	<i>Quality &amp; Uncertainty</i>
Het rode loket	Building information	Location, construction, use	Location, type of information	0,10-0,30 €	ASCII	None
Het groene loket	Biodiversity Environment	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
Rijkswaterstaat	Road- & waterways	Topographic height map, aerial photo	Location, type of information	depending on data type	ASCII, .shp, .dxf	None



# Geoportals in the Netherlands

	<i>Content</i>	<i>Information</i>	<i>Selection</i>	<i>Pricing</i>	<i>Data Format</i>	<i>Quality &amp; Uncertainty</i>
Het bruine loket	Geotechnical information	Location, standards, data types	Location, time, data type	free of charge	ArcGIS map, MS Access, .jpg, .pdf	Quality element in metadata
Geodatabank	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, construction, 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



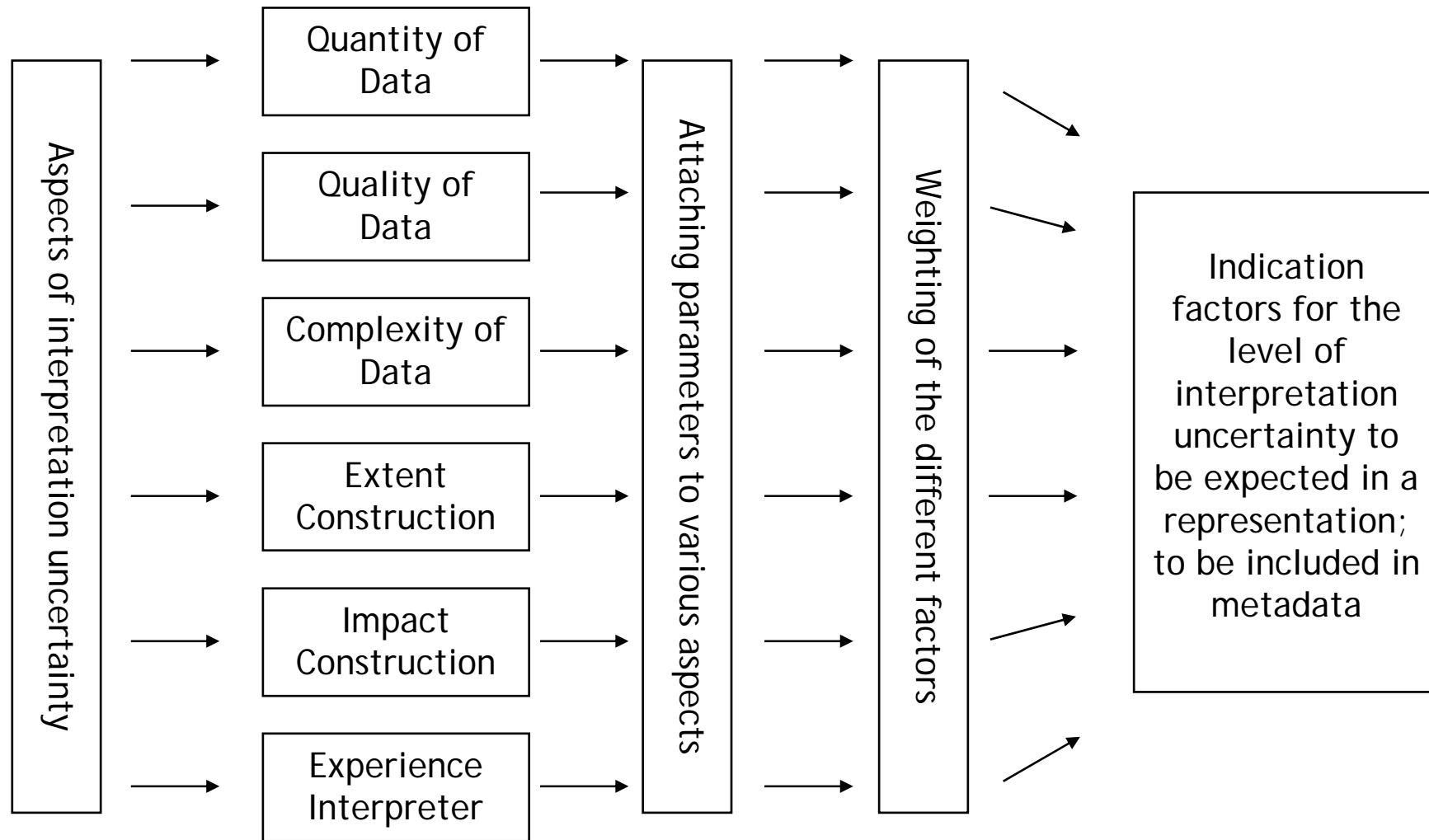
- GIMCIW = 'Geo-Information Management for Civil Engineering Infrastructure'
- AIM:  
Development of a geo-information management system for
  - 1) proper organization of different types of geo-information
  - 2) proper organization of additional information and metadata
  - 3) proper organization of quality & uncertainty information

# The research in GIMCIW

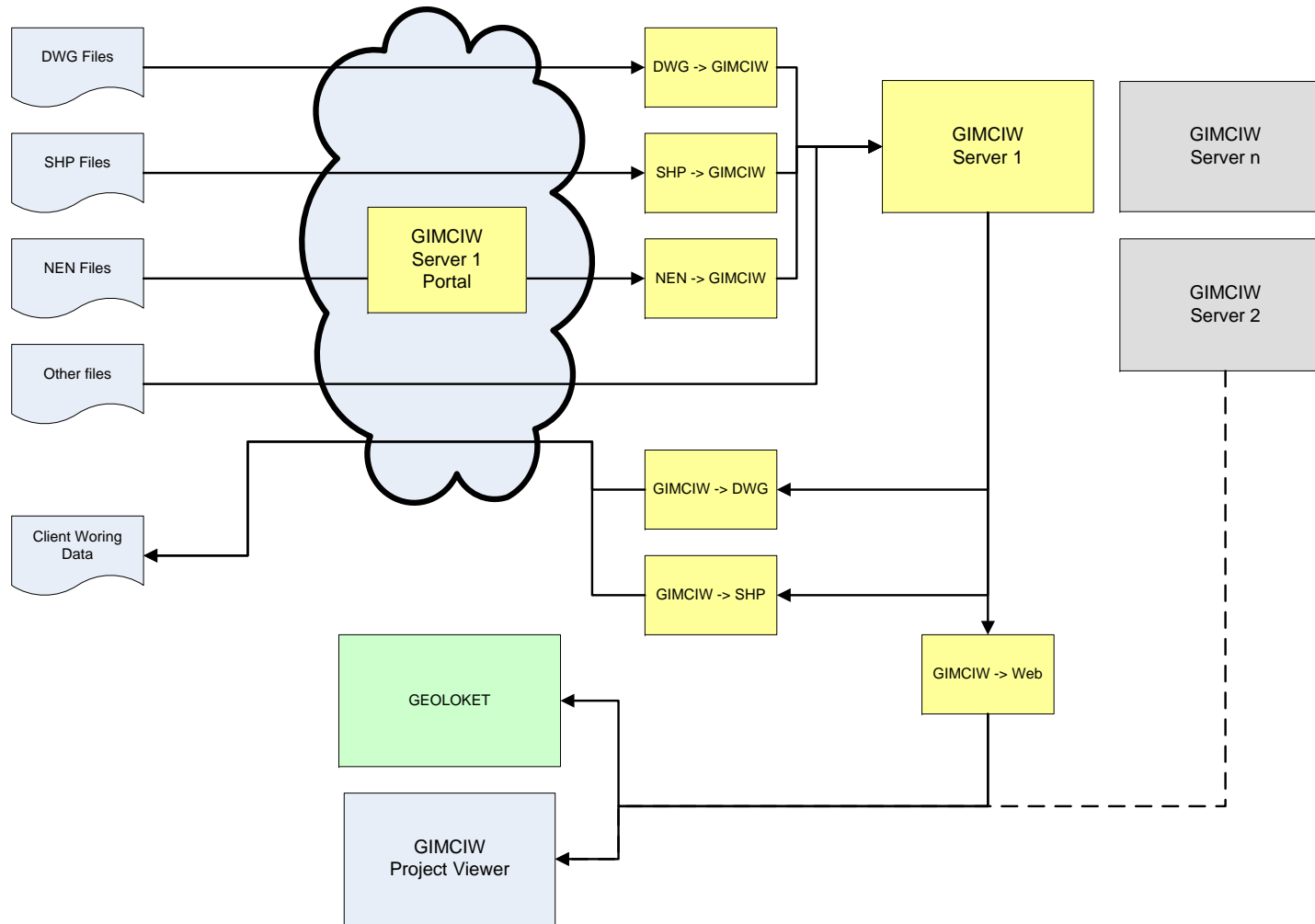


- Research covers 2 major topics
- Part 1:  
Quantification of quality & uncertainty - with focus on 'interpretation uncertainties' in subsurface representations
- Part 2:  
Harmonization of geo-information - with focus on the metadata & semantics as used by different parties

# The research in GIMCIW - Part I



# The research in GIMCIW - Part II



THANK  
YOU