



# The German GDI a public-private cooperation project

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## Change of significance of public tasks

⇒ Definition of Grimm

Public tasks are

***all action lines ..., which are handled by public actors, by using public resources or by public guidance.***

⇒ reduction of public influence

⇒ public-private cooperation (partnership)





## Cadastral as a public task

- Cadastral surveying
- Cadastral monuments
- The Cadastre, a public register
- Connection to the land register and to other public registers
- Licensed Surveyors
- Land valuation



## State Surveying and Geoinformation as public tasks

- **Provision of spatial reference (Reference points, Reference stations, satellite positioning service, coordinate systems)**
- **Survey of geotopographical base data (TIM)**
- **Management of the geobasis information system (AFIS, ALKIS, ATKIS)**
- **Publication of the state map series**
- **Management of the state archives for aerial photos and maps**
  - ⇒ connection to the cadastre
  - ⇒ public-private cooperation
  - ⇒ State surveying and geoinformation as public tasks
  - ⇒ public enterprise



## Official Geobasis Data

- Terms „official“ and „Geobasis Data“
- Geobasis data of the States
- Geobasis data of the Federation
- Geobasis data of the Municipalities
- „official“ business processes



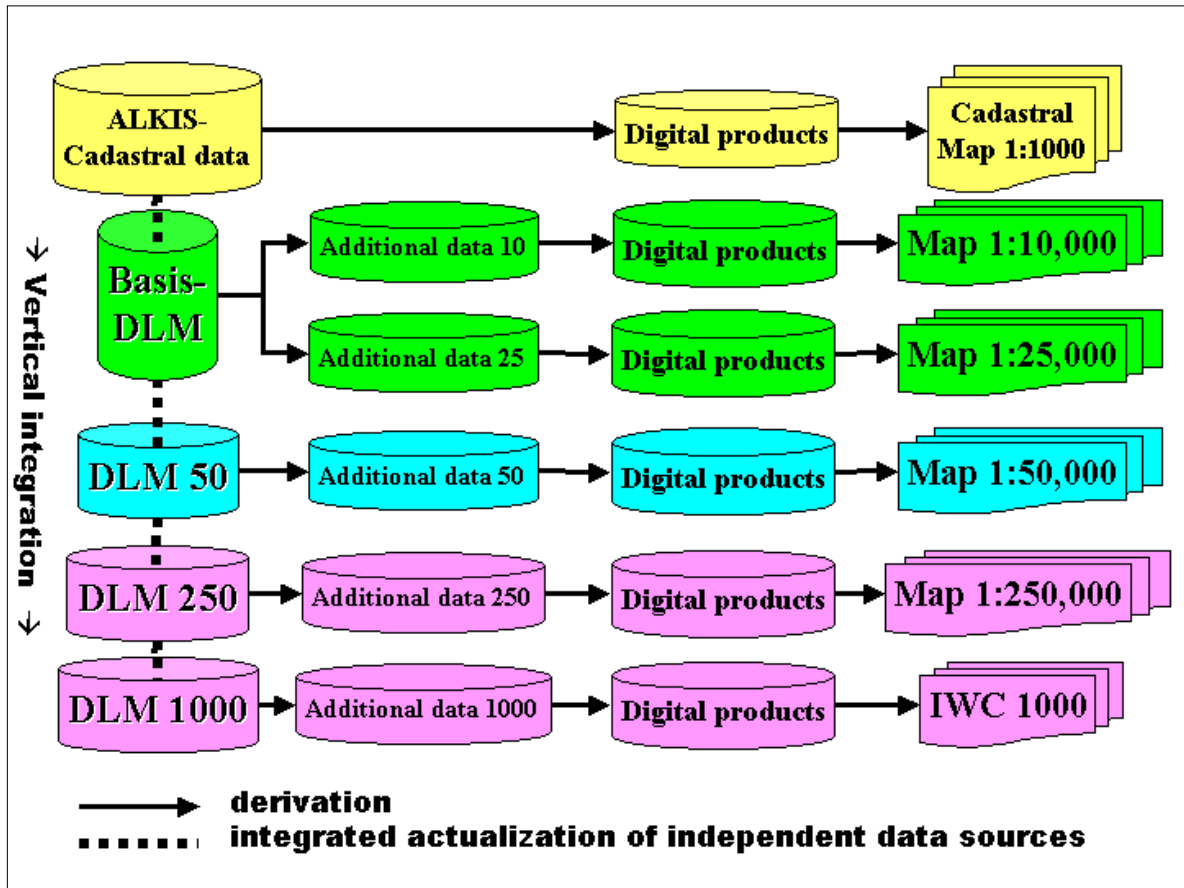
## Basic Geoinformation in Germany

- Satellite Positioning System (**SAPOS**)
- Official Reference Point Information System (**AFIS**)
- Authoritative Topographic-Kartographic Information System (**ATKIS**)
- Official Cadastre Information System (**ALKIS**)

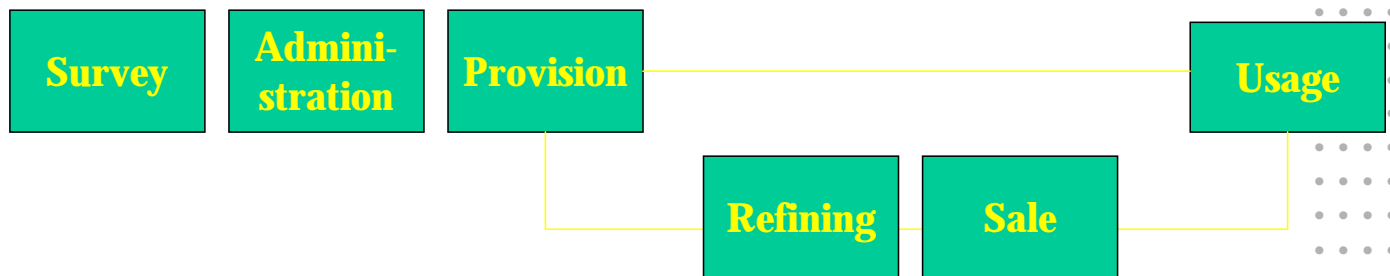




# AdV concept



# The Value Adding Chain of Geoinformation





## **Provision of Official Geobasis Data and Products**

- Supply paths from dispatch to the Internet
- Geodata centers
- Value adding chains of authorities and companies



## **Use of official geobasis data and products**

- Public use
- Private use
- Use conditions



# Development

GI-Committee

Setup of a geodata network

GI market activation strategies

Setup of a centre of competence

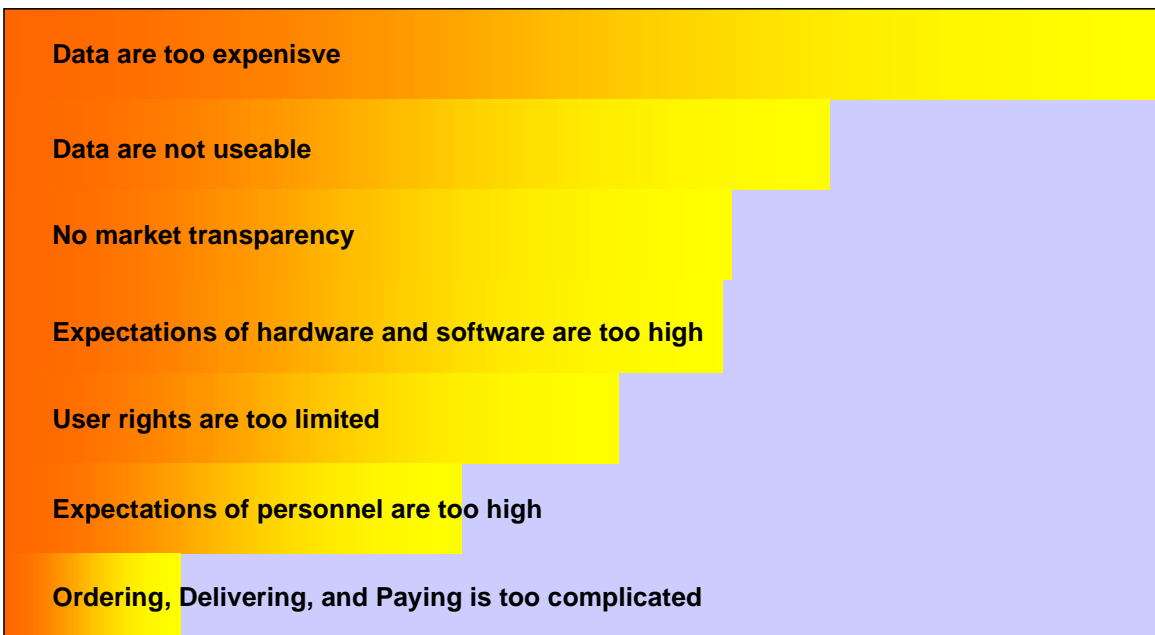
Start of a qualification campaign

Sponsored projects

Study

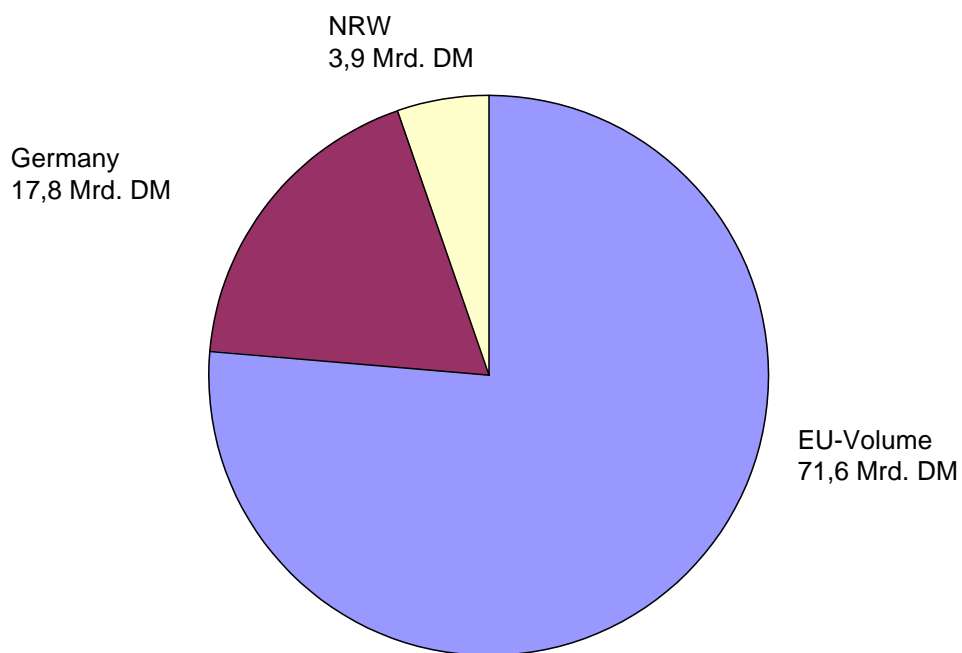
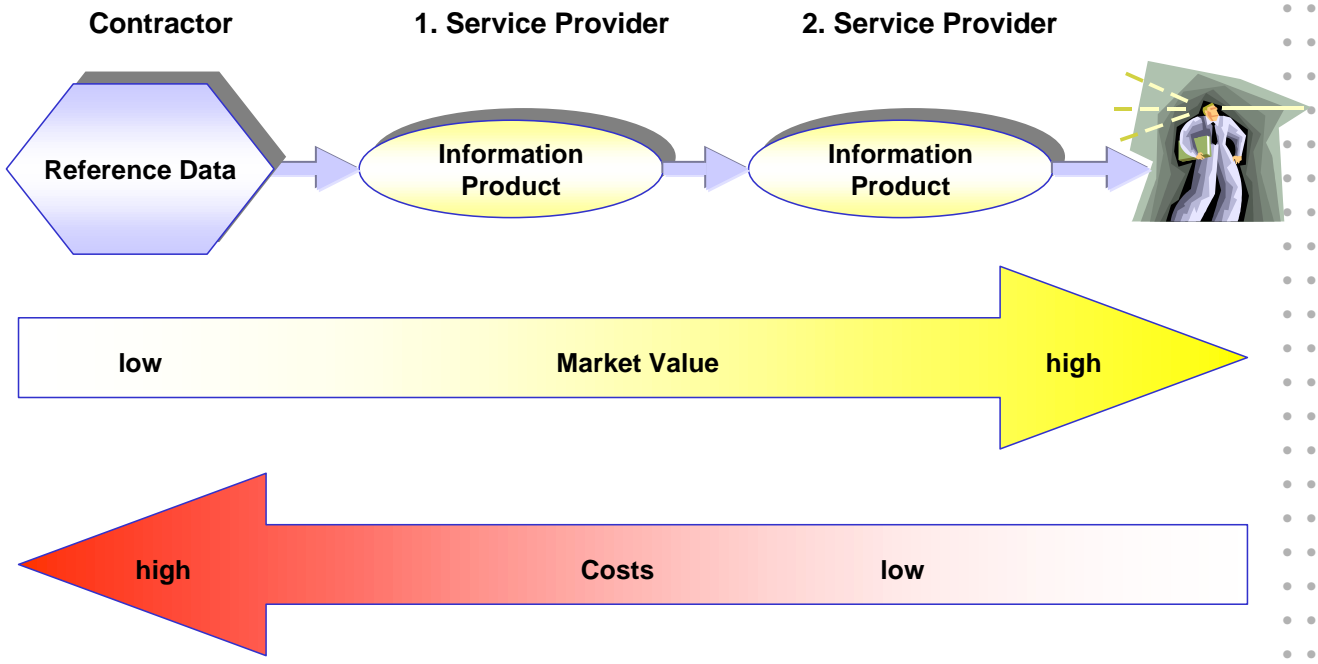
Initiative

Initiative



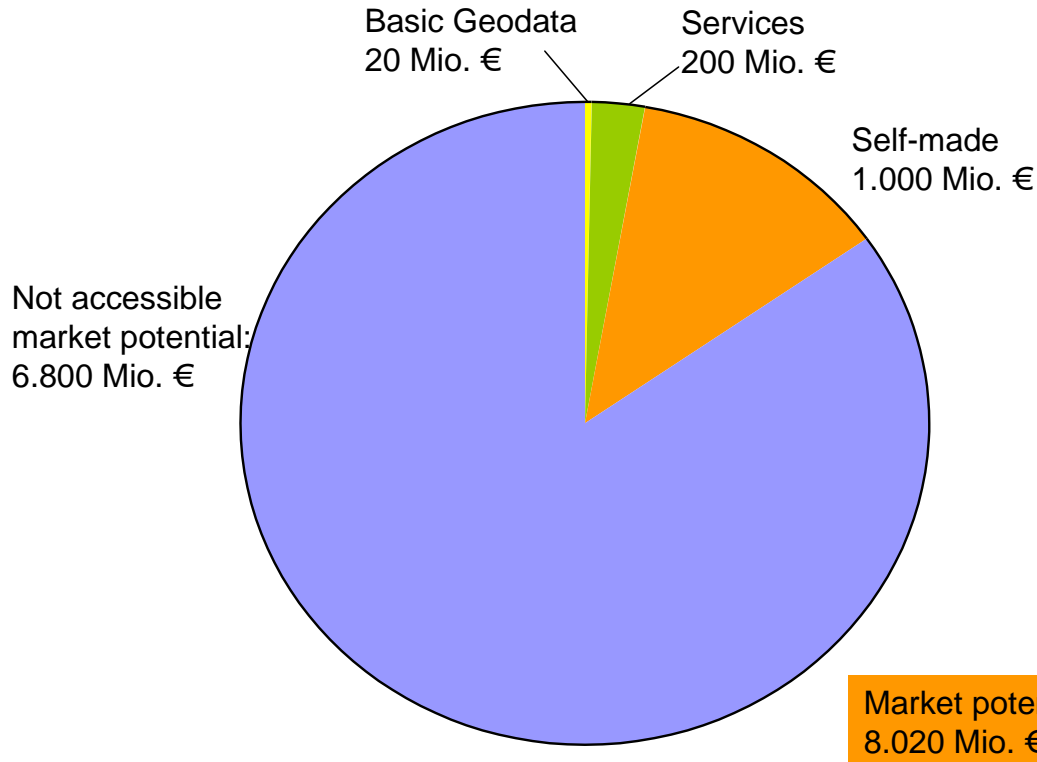
Source: Internal Research, Provider Questionnaire



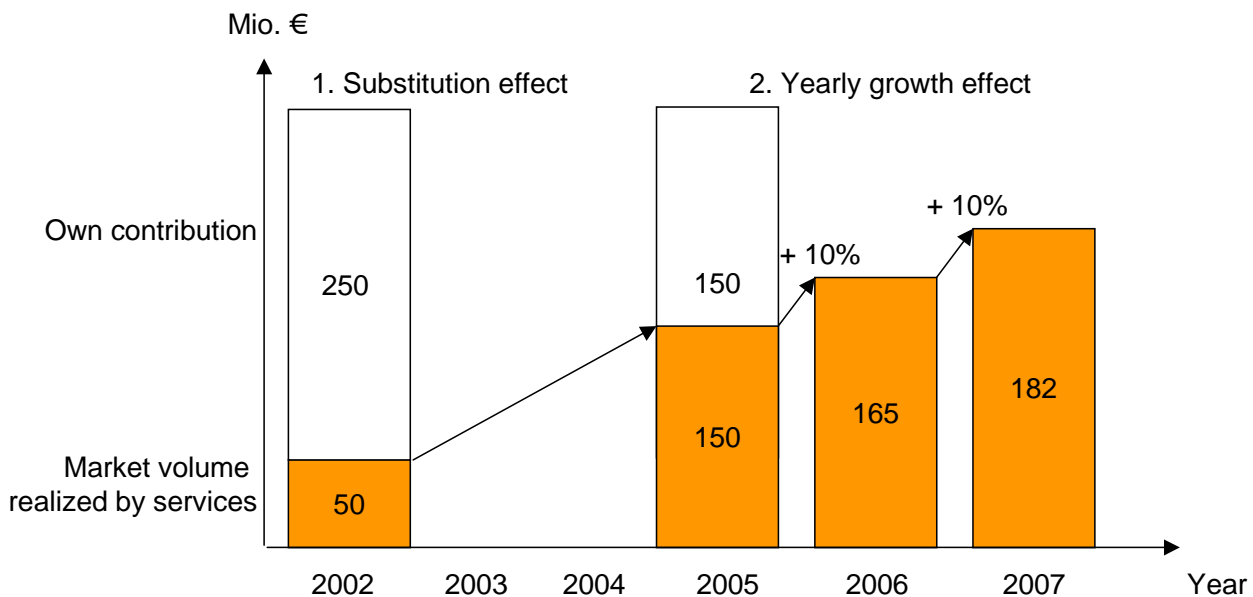




## Market volume realized in Germany until today is about 15% (1.220 Mio. €)



## The two effects of providing public content







# Development of GDI NRW

- Vision
- Organisation model
- Reference model
- Instruction book
- Glossary (tbd.)



# GDI NRW specifications

## GDI NRW <--> OGC

*"Basis for the initiative GDI NRW are the specifications of the OpenGIS Consortium"*

### **Vision**

*"The initiative ... creates ... own specifications and proposals on the future development of the OGC specifications"*

### **Organisational model**



*"... OGC membership is precondition for Testbed participation."*

### **Testbed II CFP**



### **GDI NRW-Website**



*"GDI services are (specialised) service manifestations as described by the service classification of OGC."*

### **Reference Model 3.1**





# Co-operation rules

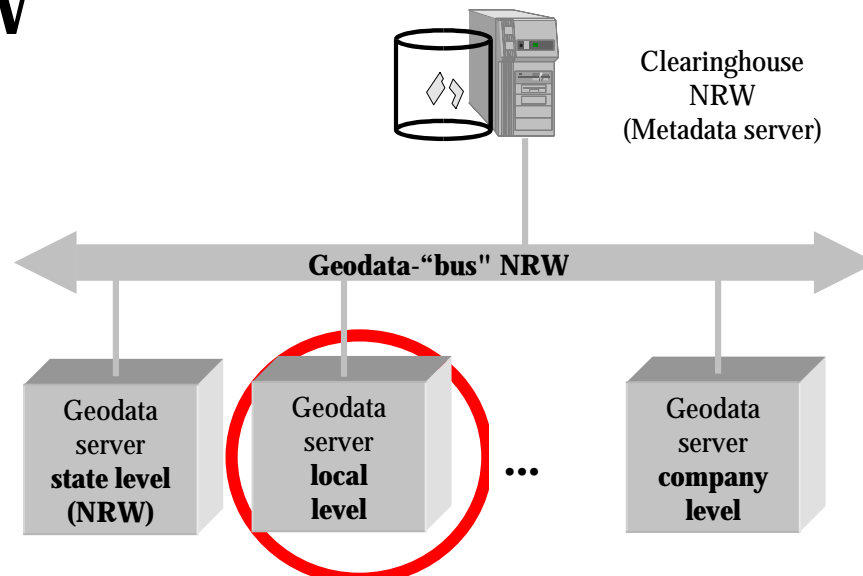
- **Supervision of the projects by**
  - **supporting scientific research (Prof. Kuhn)**
  - **project management (media NRW, MC)**
- **Guarantee of confidentiality by supporting scientific research and project management**
- **regular report to the GI-Committee every 6 months**
- **meeting the deadlines**
- **co-operation of all involved parties from science, administration and economy in a spirit of partnership**



## Step by step towards a

# Structure of the geodata network

## NRW





GI Committee NRW

GDI NRW document decisions

GDI NRW document proposals



Strategic agreements

GDI NRW steering committee  
Speakers of SIG's and Testbed, Vertreter

Information

GDI NRW document decisions

GDI NRW document proposals

operatiional support

other activities    Testbeds    SIG    Task Forces

Cooperati

GDI NRW plenary  
(GDI NRW participants who signed the MOU)



Landesvermessungsamt  
Nordrhein-Westfalen

# Development of GDI NRW

Reference Model 3.0

CeGi

Reference Model 3.1



Market study



Testbed I    Testbed II

11 basic projects

common project 2004

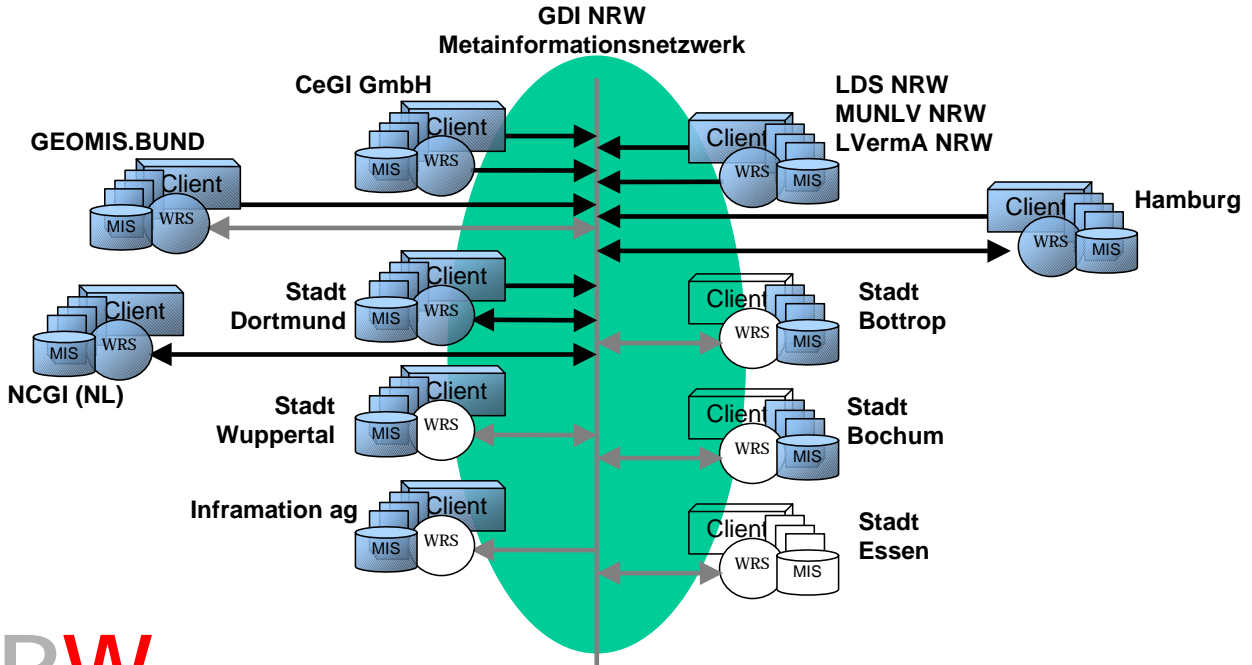


SIG Metadaten    SIG Marketing    SIG Land&Forst    SIG Kommunal  
SIG Architecture    SIG eCommerce    SIG Verkehr    SIG 3D

1999    2000    2001    2002    2003    2004



# GDI NRW Metainformation Network Implementation at INTERGEO 2003



## **OGC Web Services: NWSIB, DTK10 & traffic information**



**Ebenenauswahl**

- Autobahnen
- Bundesstraßen
- Landesstraßen
- Kreisstraßen
- Straßennamen
- Netzplankennungen
- 7-stellig
- BAB-ANWAD-AS-Namen
- Maßpunkte
- Zählstellenbereiche
- Zählstellenorte
- Zählstellennummer

**XtraServer Applikation V1.00**  
XtraServer OGC Client

**interactive instruments**

Stichtag:

**Kartenausschnitt**

Links/Rechts:

Rechts/Oben:

**Raumbezugssystem**

**Interaktionen**

- Vergrößern
- Verkleinern
- Neue Maßstäbe
- Objektinformation

**Verkehrsstärkeninfo 1.00**

Ortliche Zuordnung

Adresse: 5208018A0200062 Straße: A560  
Zit: 5208018F6 Straße: A560

DTM-Werte (Mo-Se)

Zählstelle: 52082113 Lage: A560 (Abschnitt: 5208018A0200062)

Jahr	Gesamt	Persönverkehr	Güterverkehr	Schwerlastverkehr
2000	43537	42034 (97%)	1533 (4%)	790 (2%)
1999	40982	39960	1922	922
Veränderung	6%	3%	-20%	-2%

Entwickelt von: **Strassen.N.W.** / **interactive instruments**



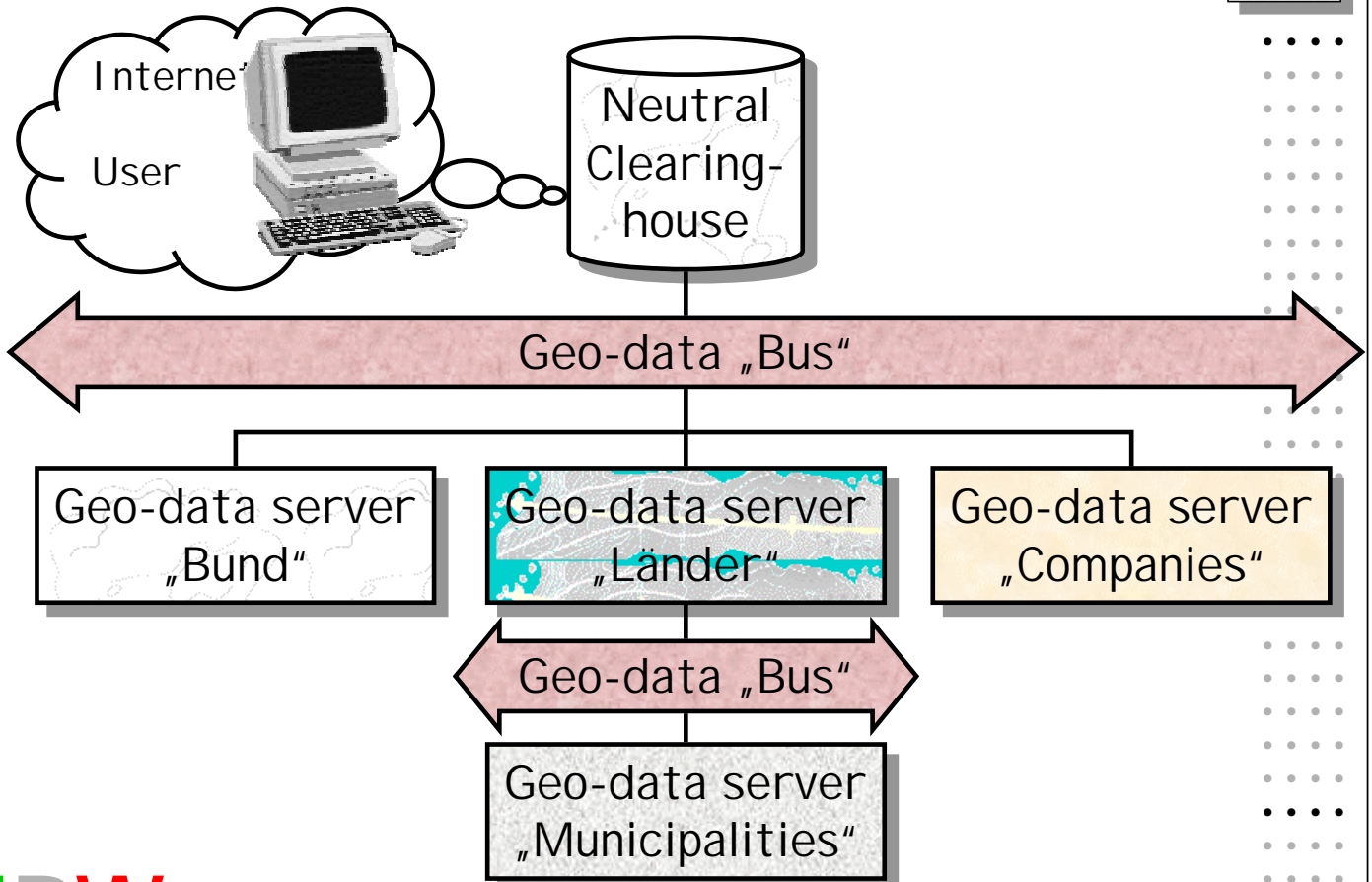


# GDI-Germany (GDI-DE)

- GDI-DE goals:
  - Generate preconditions for:
    - collection,
    - evaluation,
    - application,
    - of geo-information.
  - Open access for:
    - Users and providers in
      - government,
      - economy,
      - research and
    - for the citizen.
- GDI-DE components:
  - National geo-data basis (NGDB):
    - basic geo-data,
    - application geo-data,
    - metadata,
  - Geoinformation network,
  - Services and standards.
- GDI-DE next steps:
  - Metainformation service GeoMIS.Bund,
  - Harmonisation of feature catalogs,
  - Internet based GeoPortal.



## AdV position paper GDI Germany





## Geographical Data Infrastructure Germany

- political level -

WG of the State Secretaries for  
eGovernment and Deutschland-Online  
(State and federal level)

- conceptual level -

**GIW-commission („Taskforce“)**  
Managed by: **BMWA**  
(D 21, associations like: DDGI, DIHK,  
DMMV, Bitkom, eco, Bundesverband  
mittelständischer Unternehmen)

**GDI-DE Board**

Proposals

Decisions

Proposals

Decisions

- technical level -

**GIW office**

**GDI-DE office**

Data and service providers  
User groups, research institutes, industry, OGC, ...  
Special Interest Groups (SIGs)

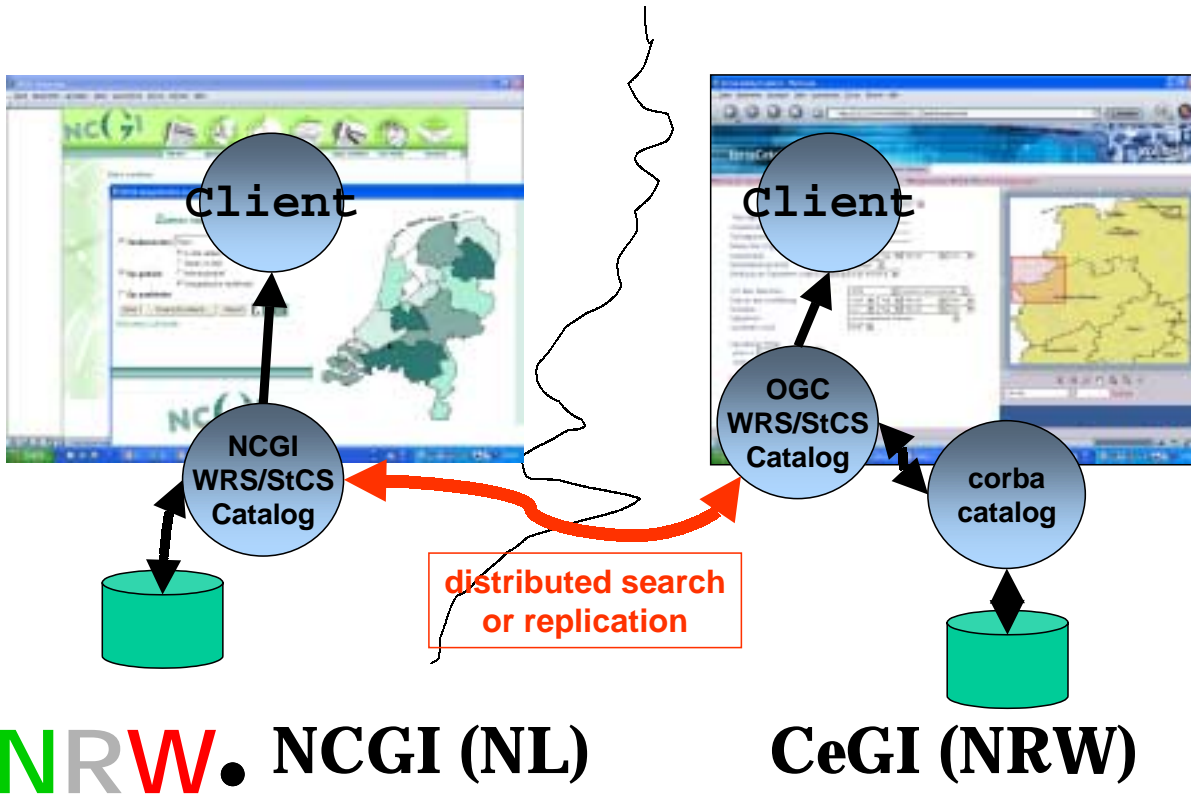


# ESDI - European Spatial Data Infrastructure The INSPIRE initiative





# X-Border SDI – NRW / NL



# GSDI - Global Spatial Data Infrastructure

Physical Map of the World, August 1999

