SDI’s as basic components of e-Government and e-Business – The German approach –

The German States

Northrhine-Westfalia - basic information -

18 Mio inhabitants
34,000 qkm area
530 inhabitants / qkm
9 Mio parcels
7 Mio buildings
10 % updates / year

NRW Budget 1997: 90 billions
BIP(nom)1995: 700 billions

Regional Organisation
5 administrative regional units
31 Counties
23 (independent) Cities
373 (dependent) Towns

= 54 cadastral offices
+ 440 licensed surveyors,

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)

Permanent GPS-Reference stations of Survey Administration

realize the spatial reference system of the survey administration by providing satellite data and correcting information for differential measuring methods.

Products of Surveying & Mapping Agency NRW

- Elevation Models
  - Analog Landscape Models
  - Image Models
  - Digital Landscape Models

Services of Surveying & Mapping Agency NRW

- Geodetic Reference
- Cartography & Reproduction
- Know How Transfer

Geodata centre of Surveying & Mapping Agency NRW

- Cadastre Data
  - Address Reference
  - Standard Values of Real Estate
  - Landscape Models
Think global - Act local

- Regional GDI only reasonable in connection to national and international initiatives
- GDI NRW must be compatible to more extensive GDIs
  - National (GDI.DE)
  - European (INSPIRE)
  - Global (OGC)
- Harmonisation of the basic concepts
  - Only one technical basis

„From local to global, from global to local“

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.

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The Infrastructure for Spatial Data in Europe (INSPIRE) shall be built upon a network of National Spatial Data Infrastructures. The installation and operation of which shall be the responsibility of Member States. Reference Data, the scope and composition of which shall be specified by INSPIRE, will provide the underpinning framework to which INSPIRE thematic data will be referenced. Reference data are collected at the local and regional level.
NCGI (NL)  CeGI (NRW)

distributed search or replication

GSDI - Global Spatial Data Infrastructure