

<u>GeoDesk,</u>

Our local implementation of SDI

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14 January 2010

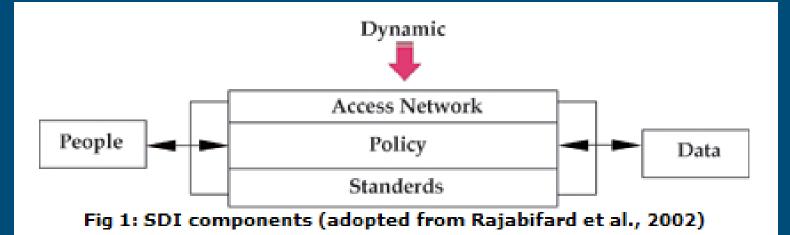






Spatial Data Infrastructure





Topics:

- What is GeoDesk
- Access via facilities: local SDI structure
- Local facilities
- Policy aspects







What is GeoDesk ?



Part of Centre for Geo-information (CGI), to provide :

- Geo-software (GIS, RS) to students & researchers / staff
- Alterra data collection management + access to researchers
- User support
 - help: Software questions, Spatial data consultancy
 - info: GeoDesk Newsletter, User Forum Website
- Sales of WUR data products: datasets, data services, dataprints
- Innovation: Open Data Strategy, Sensors,

Organisational: bi-polar unit within CGI:

Wageningen University, Stichting DLO - Alterra





Access via facilities

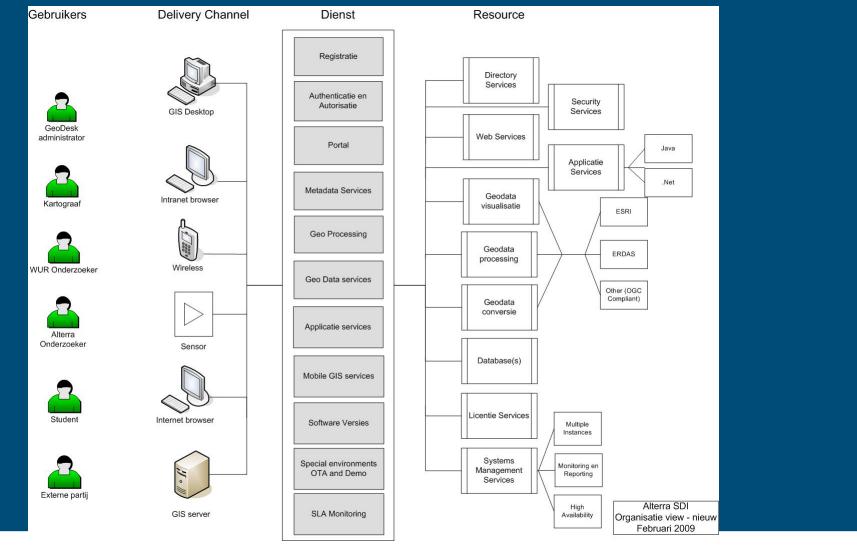


- Context: local network (WURnet)
- Facility: operational combination of SDI components
 - Front office: user contacts
 - helpdesk, newsletter, courses, websites, file directories, services (WMS)
 - Back office: management & maintenance
 - databases: data+metadata, catalog
 - licenses for software use, data access rights
 - servers for database, services, license management
 - storage for databases, files, images, documentation, procedures, ...
 - using standards + directives: ISO, OGC, W3C, Inspire (EU) , NORA (NL), ...





User requirements





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SDI Facilities



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- 1. User support
- 2. Repository for software & data
- **3**. Geodatabase
- 4. Metadata editor
- **5.** Data Catalogue
- 6. Web map services





SDI components of facilities



Order of component importance for handling <u>requests</u>:

- Data: theme-location-time? / software: which?
- People:
 - requester: organizational status?
 - GeoDesk staff: who can deal with request /question?
- Policy: conditions for access, availability, support
- Network:
 - technical: determines material solution (db-connection, download)
 - organizational / social: get specialist info or make referrals
- Standards: basis for construction & maintenance





facility 3 - Geodatabase



= management, back office activity

Geodatabase contents: about 450 Datasets (most regarding NL) 1600 Gb available storage space, 900 Gb used •National Topography (1:10k, 50k, 250k): 420 Gb •Aerial Photographs (2003, 2006): 365 Gb

Challenge: get metadata from the data makers





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facility 4 - Metadata



= management, back office activity

Metadata: description of datasets

- Contents Standard: ISO 19115 (NL profile: limited set)
- Technical Standard: ISO 19139
 - Format : .xml for contents , .xsl for presentation style
- sw: Metadata Editor (for ArcCatalog) for reading & describing
 - Geosticker editor
 - Geosticker stylesheet







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f.4: Metadata example

Identificatie	Contacten	Metametadata	Dekking	Kwaliteit	Inhoud	Distributie		^
Alternatieve Versie: 1	titel: BODEM.Pa		n opbouw	(Pawn), ve	rsie 1, 200	06		
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	ding r voor derden te	egen betaling (en g ighthouder: Alterra		enkomst)				





facility 5 – Data Catalog



- Open infrastructure for search & download of geodata via internet browser
- WUR only (=intranet), Bilingual (NL/EN) interface
- Contains metadata of datasets in Geodatabase (not yet all...)

3 Search modes:

- Thematic data categories: ISO-INSPIRE
- Keyword free text search (metadata is mostly in Dutch...)
- Space / time
- Metadata contain a link to layer files (downloadable), the layer files contain link to datasets in geodatabase







facility 6 - Map services



ArcGIS map services inTRAnet (WURnet only)

- Via web browser <u>http://www.geodata.alterra.nl</u>
- Via ArcGIS

ArcGIS map services inTERnet (part of national SDI)

• E.g. Nationaal Geo-register





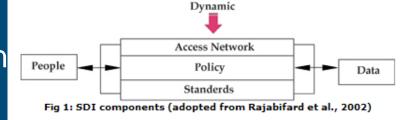


GeoDesk and Policy

GeoDesk

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Policy is the central componen



Decision subjects per service type:

- Software: Which tools, nr. of licenses, internal distribution
- Data: Which data, quality, access, storage
- Support: Organization, channels, conditions
- Sales: What to sell, pricing, customer types







Policy



- External influences on GeoDesk policy making
 - Financial: cost of tools, ict-matters and datasets
 - Legal: ownership of datasets
 - Standardization: ISO, Inspire, Windows, OGC, W3C,
 - Policies of other org.s: Software makers, govts
 - Local org. context: nr. of staff, budget, user types, ...
 - Involvement in major projects: data acquisition, software choice, development direction,







Thank you

Questions?

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