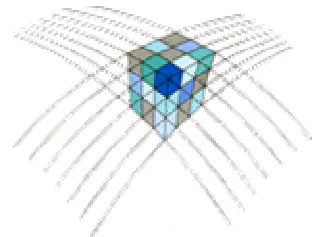




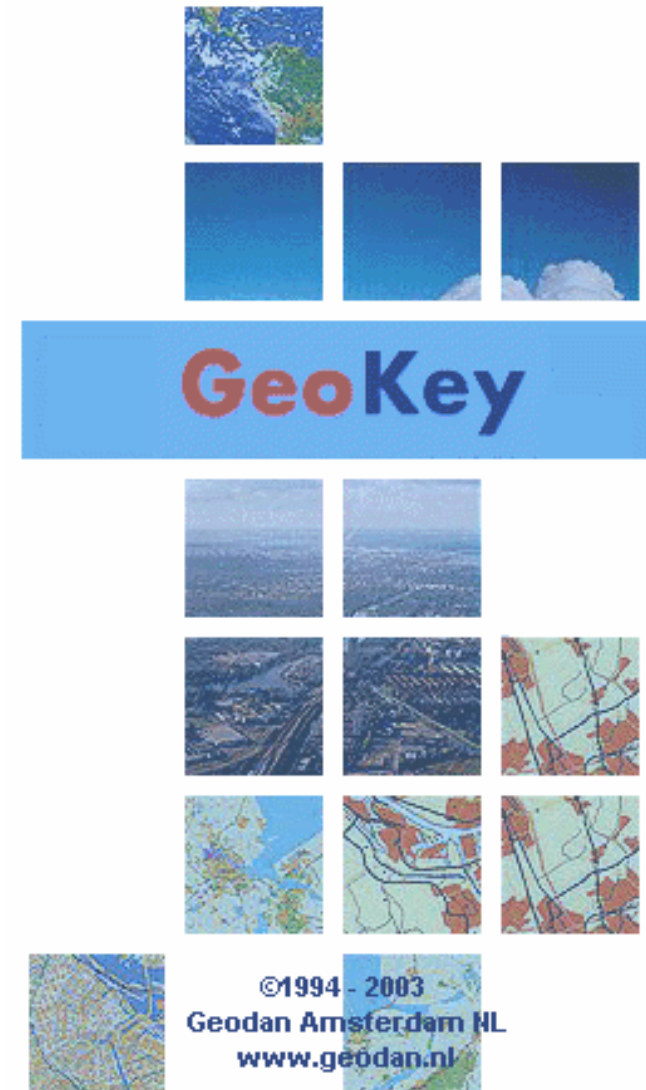
# GeoKey en Catalog Services

de sleutel tot geo-informatie

Studiedag NCG  
18 mei 2004



[ronald.bottelier@geodan.nl](mailto:ronald.bottelier@geodan.nl)





# Programma

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- > Begrippen
- > Actualiteiten in meta-informatie
- > Visie op doorontwikkeling
- > GeoKey 5.0
- > Conclusies

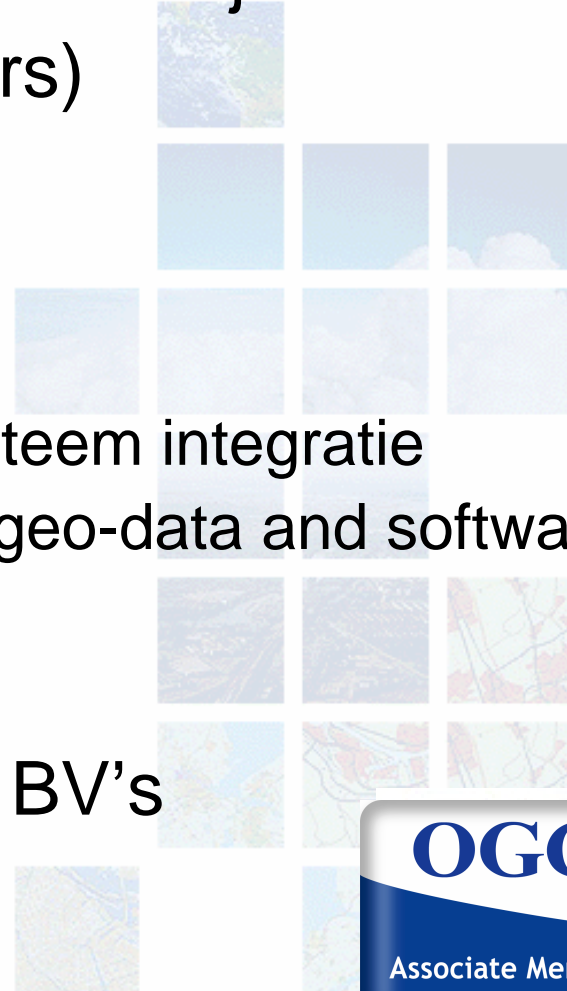




## Geodan

GeoKey

- > Specialisten in GIS voor ruim 18 jaar
- > Onafhankelijk (met partners)
- > Innovatief
- > One-Stop-Shop in GIS!
  - Advies
  - Systeem ontwikkeling / Systeem integratie
  - Reseller en producent van geo-data and software
  - Opleidingen
  - Hosting
- > > 70 GIS specialisten in 3 BV's
- > [www.geodan.nl](http://www.geodan.nl)





# Begrippen





## Begrippen

---

### GeoKey Select versie 4.0

- > metadata search & retrieval
- > geodata preview
- > geodata download
- > internet applicatie



### GeoKey Edit versie 4.0

- > metadata invoer en beheer
- > stand-alone applicatie



# GeoKey Select





# GeoKey Edit



The screenshot shows the GeoKey Edit software interface. The main window is titled "GeoKey Edit voor CEN 4.0 - (Invoeren datasets)". On the left, there is a "Datasettree" (dataset tree) listing various datasets such as "admin dataset", "EU Reference Dataset 1998", "Europe 2-digit postcode map 2002", "European Union NUTS2", and "World countries 2000". The "European Union NUTS2" dataset is expanded, showing fields like "COUNTRY", "NUTS0CODE", "NUTS1CODE", "NUTS1NAME", "NUTS2CODE", "NUTS2NAME", "ORG", and "POP\_DENS".

In the center, a map of the Netherlands is displayed, showing the provinces of Zuid-Holland, Noord-Brabant, and Limburg. A red box highlights the Limburg province. A dialog box titled "Horizontale dekking dataset" is open over the map, showing a "Keuzelijst horizontale dekking" (dropdown menu) set to "1" and a "Verwijderen" (Remove) button. Below the map, there are input fields for "Coördinaten" (Coordinates) and "Status".

Coördinaten	Status
Ymax / Noord: 362575,11	Status: [dropdown]
Ymin / Zuid: 303245,5	Standdatum: [input]
Xmax / Oost: 214962,45	Einddatum: [input]
Xmin / West: 160815,71	

Below the coordinates, there are "Bedieningsknoppen" (Control buttons) including a red location pin, a magnifying glass, a hand cursor, and a red arrow. A "Projectie" (Projection) dropdown menu is set to "RD (Netherlands)". At the bottom of the dialog are "OK" and "Annuleren" (Cancel) buttons.

The status bar at the bottom of the window shows: "22 titels. Code van geselecteerde titel: 'RAD160'". The taskbar at the bottom of the screen shows the file path: "E:\Projecten\GeoKey\Communicatie\Presentaties\20040406 - GIS-Zet\datschap\datschap.mdb", the user: "User: invoerder", and the window title: "Wijzigbaar".



## Begrippen

### > GeoKey 4.0

- GeoKey Edit >> Invoer/mutatie van meta-informatie
- GeoKey Select >> Opvragen via de browser

### >> Meta-data standaarden

- CEN98
- ISO19115







## > Web Services Architectuur

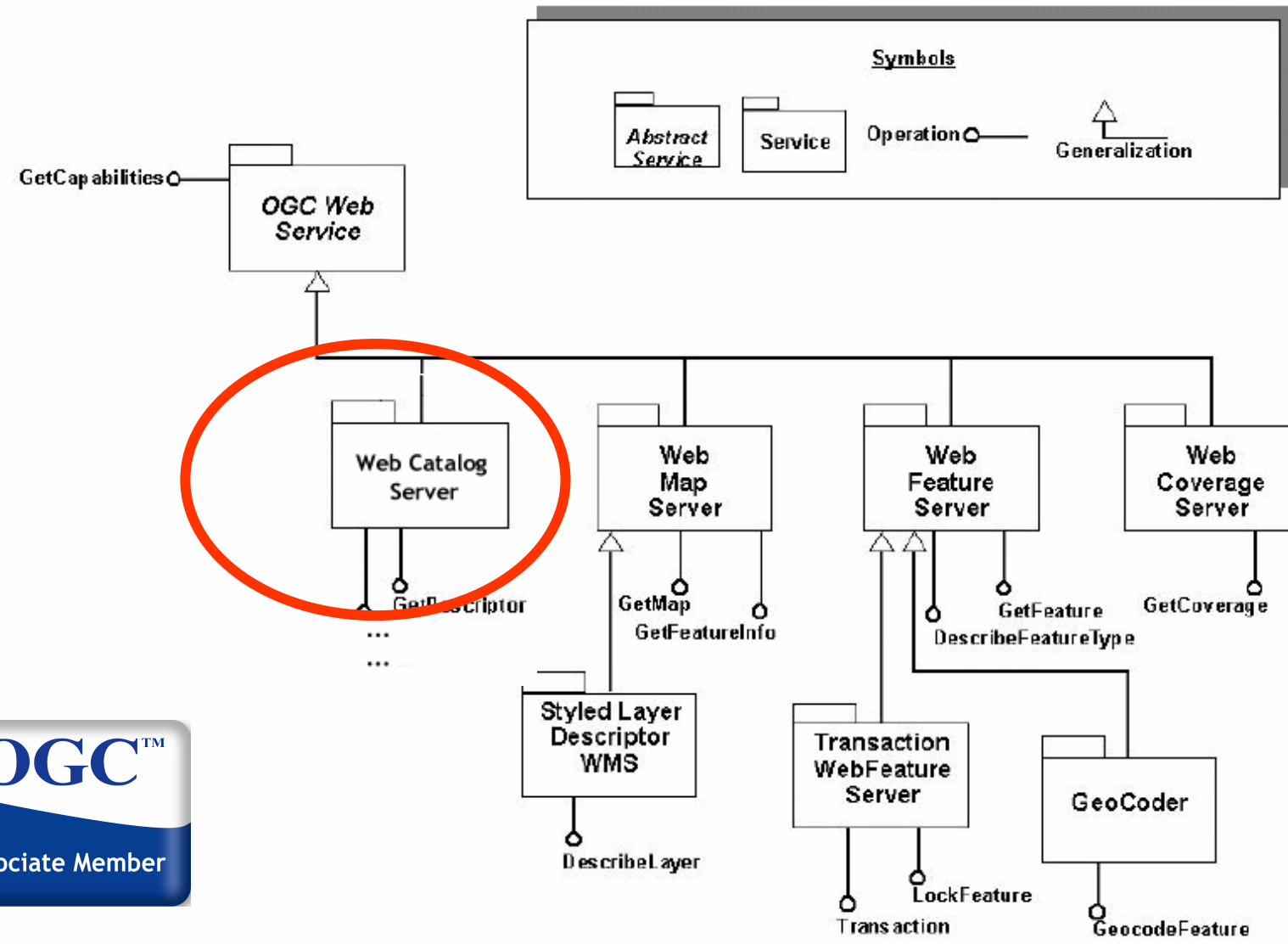
- Web Service is een gebundelde verzameling functies
- Meerdere web applicaties kunnen gebruik maken van dezelfde Web Services
- Door Web Services aan elkaar te koppelen kunnen flexibel applicaties samengesteld worden

## > OpenGIS Consortium (OGC)

- Web Catalog Services (WCAS/CS-W)
- Web Mapping Services (WMS)
- Web Feature Services (WFS)
- OGC Basic Services Model



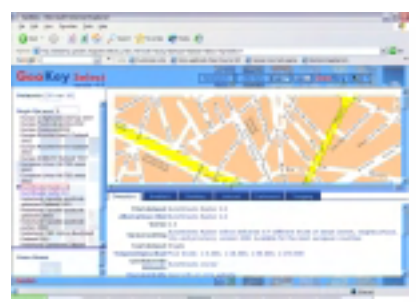
# OGC Basic Services Model



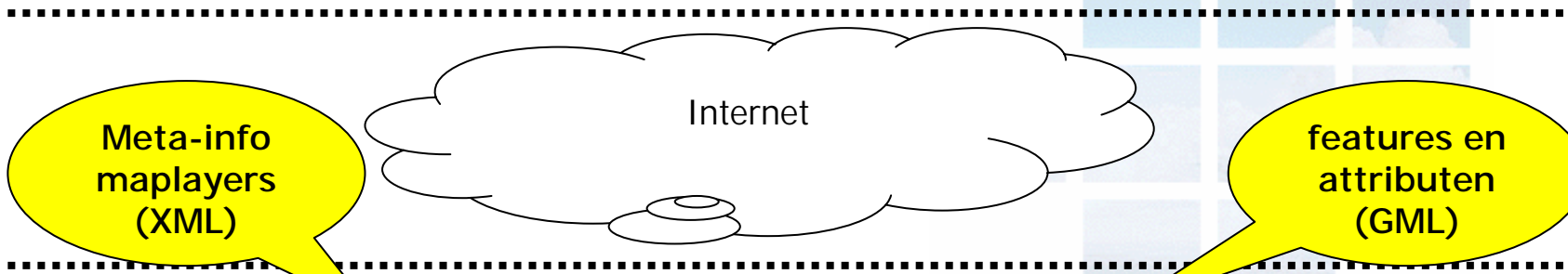


# OGC Web Services model

1



Presentatie



2

Web Catalog Service  
Web Registry Service

Web Mapping Service

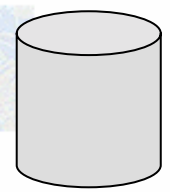
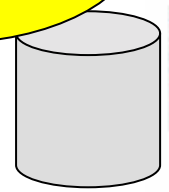
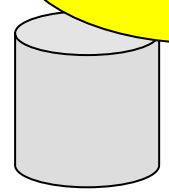
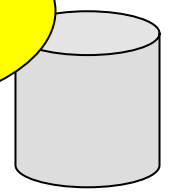
Web Feature Service

Services

3

Meta-info Mapperservices (XML)

image



Gegevens



# Actualiteiten in meta-informatie





## Actualiteiten

---

- > Meta-informatie via open standaarden (OGC)
- > Steeds meer OpenGIS Web Mapping applicaties
- > Grote vraag naar integratie van metadata en webservices
- > Begrip fysieke dataset 'verdwijnt'
- > GeoKey heeft technische facelift nodig
  - Van product naar architectuur



# GeoKey: visie doorontwikkeling

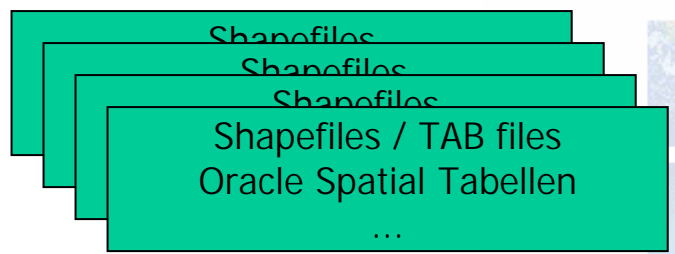




# GeoKey: Visie op doorontwikkeling



was

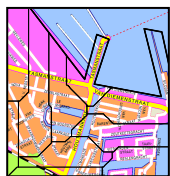


Fysieke data

wordt



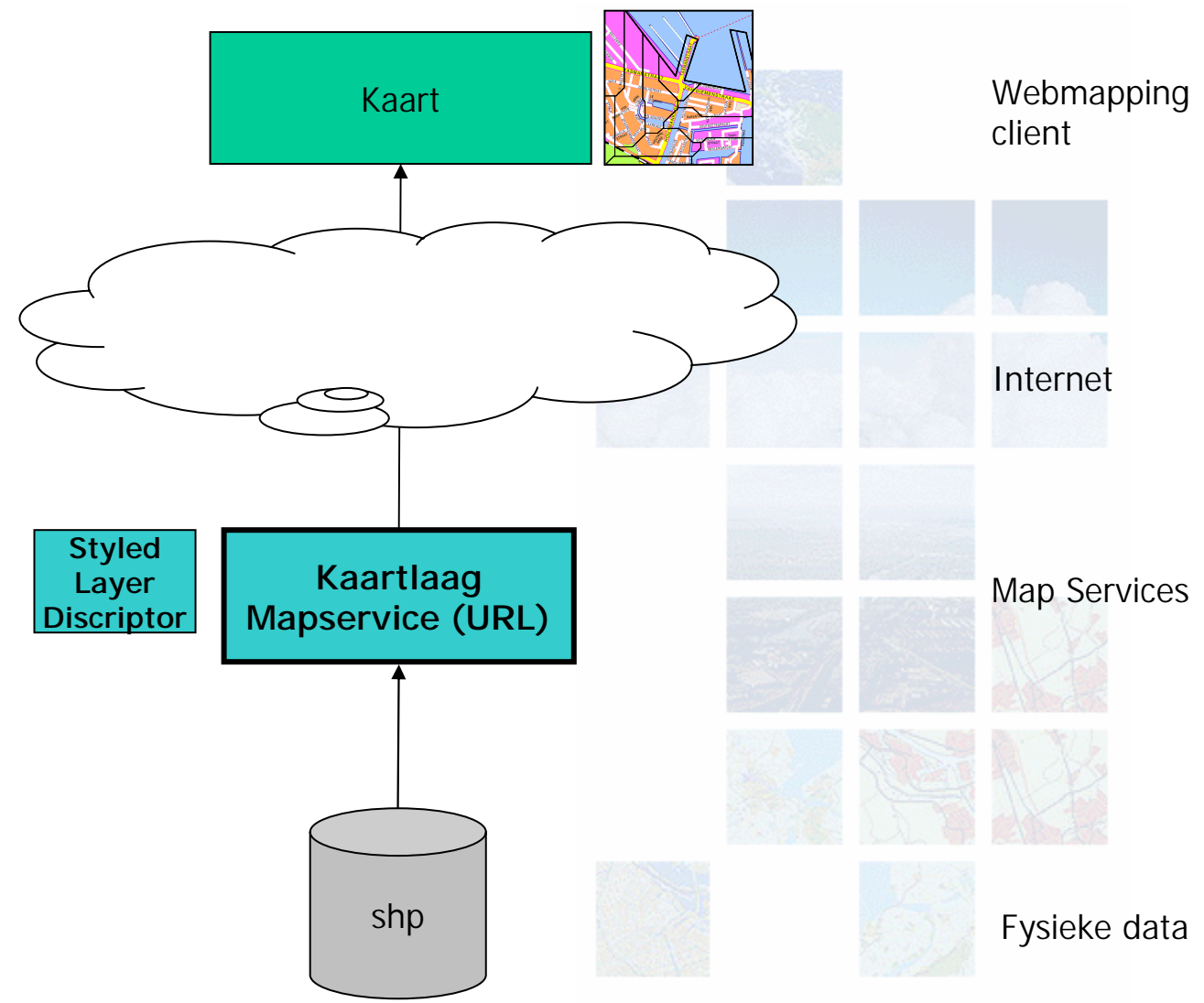
Map Services



Webmapping client



# GeoKey: Visie op doorontwikkeling



1:1

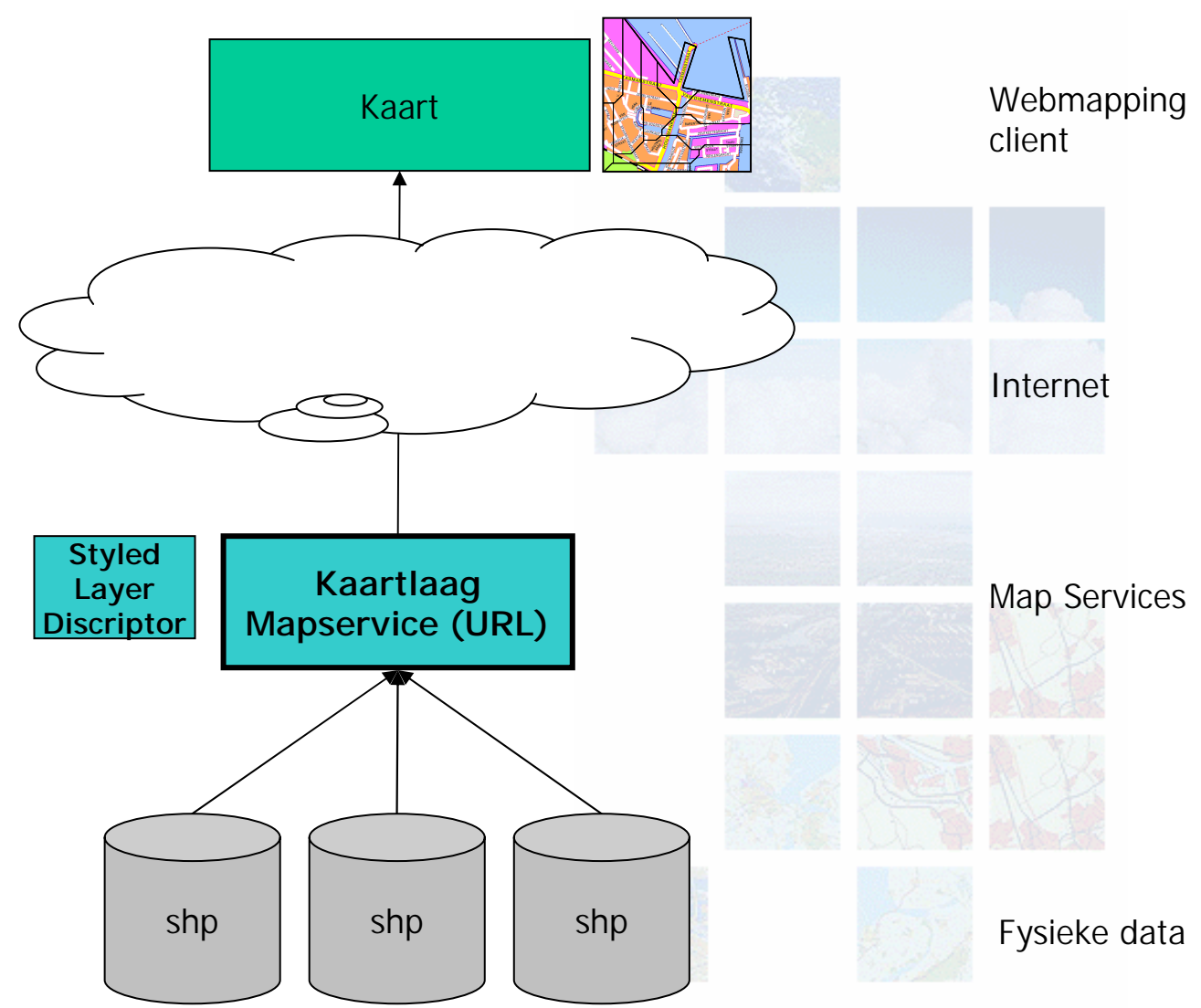




# GeoKey: Visie op doorontwikkeling

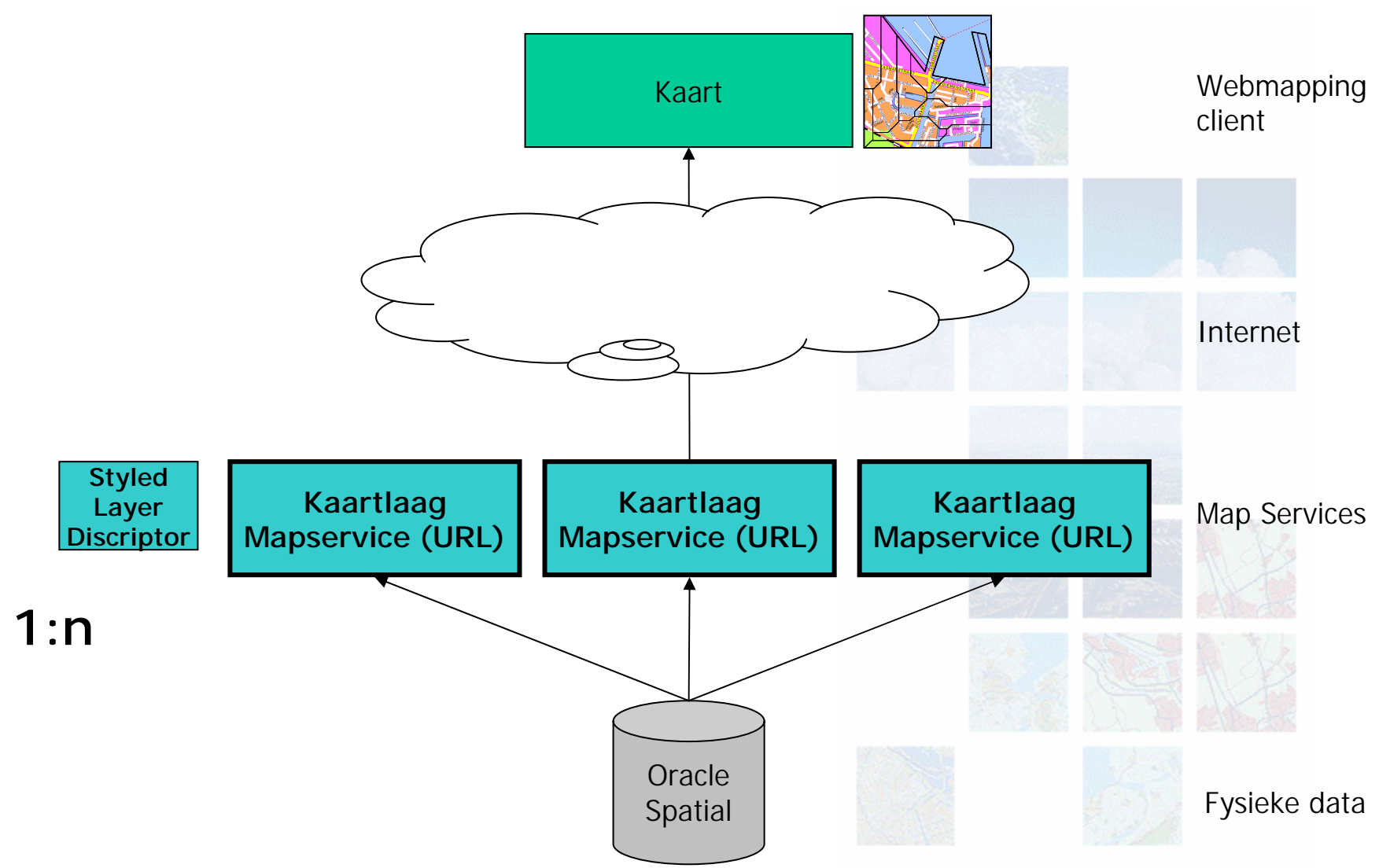


n:1



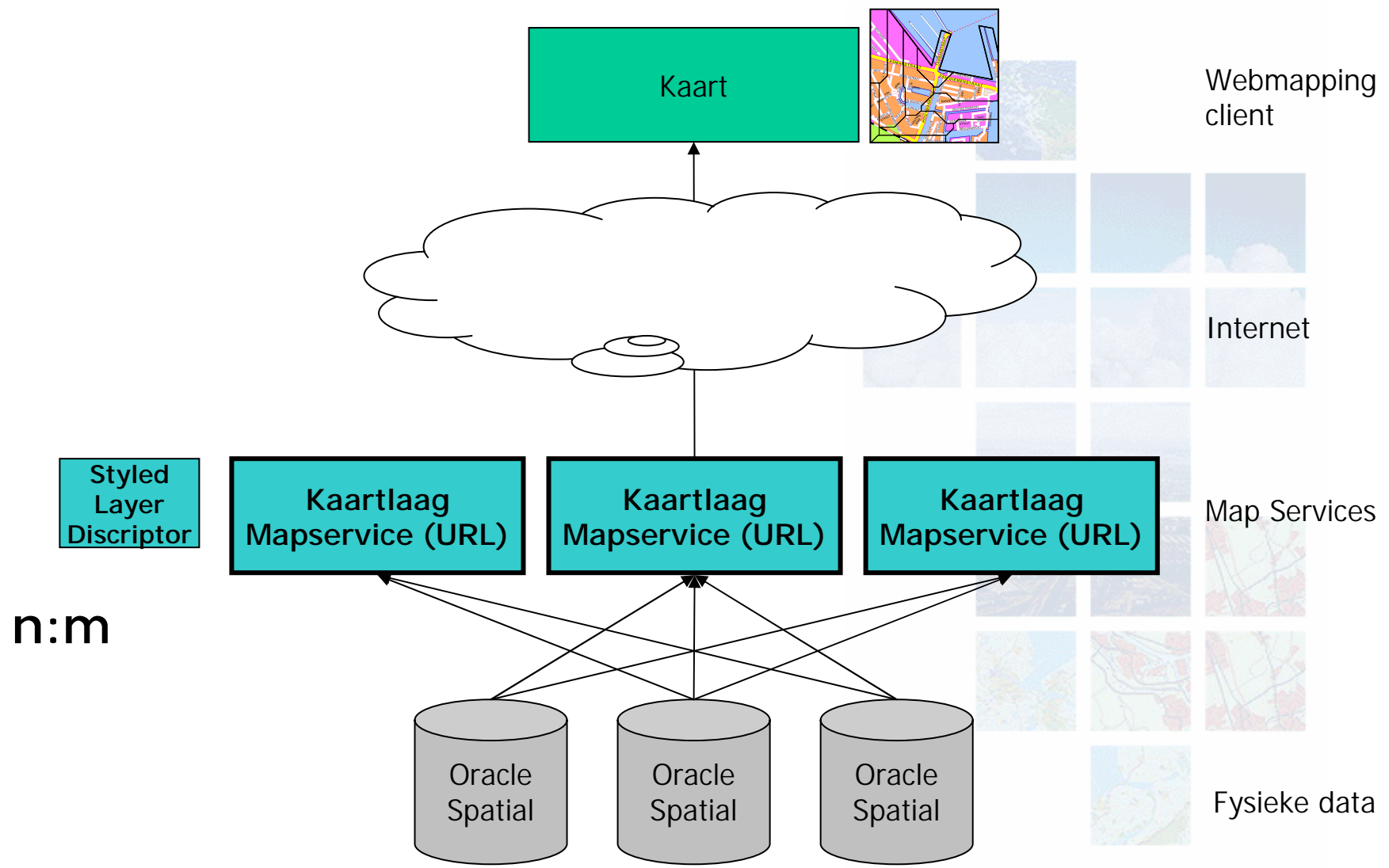


# GeoKey: Visie op doorontwikkeling





# GeoKey: Visie op doorontwikkeling





## GeoKey: Visie op doorontwikkeling

GeoKey

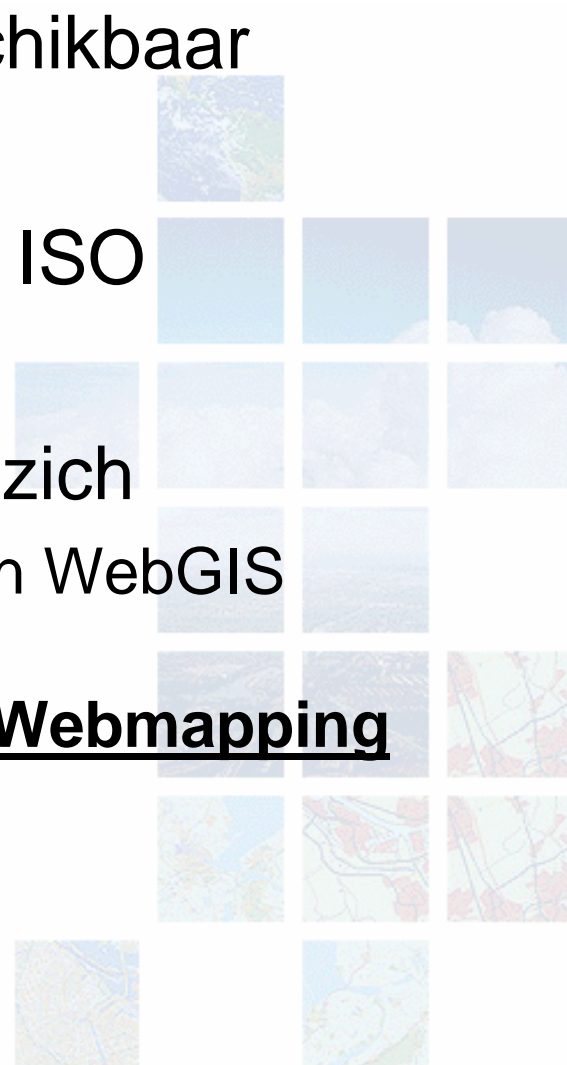
- > Volledig gebaseerd op open standaarden (open architectuur)
- > Van beschrijving fysieke kaartbestanden naar OpenGIS map layers
- > Component gerichte benadering
  - Kunnen in de eigen web-applicaties worden geïntegreerd
- > Integreren tot werkbaar product



## GeoKey: Visie op doorontwikkeling

GeoKey

- > Wat is er in de markt beschikbaar
- > Onafhankelijk van CEN of ISO
- > Metadata is geen doel op zich
  - Geïntegreerd onderdeel van WebGIS toepassingen
  - >> **Totaaloplossing OGC Webmapping**





# GeoKey 5



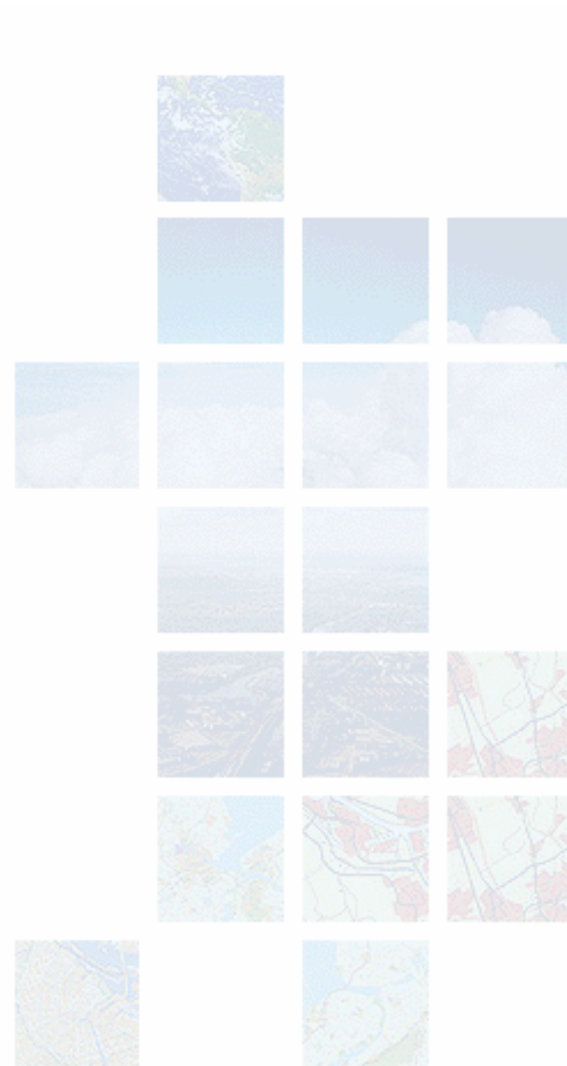


# GeoKey 5



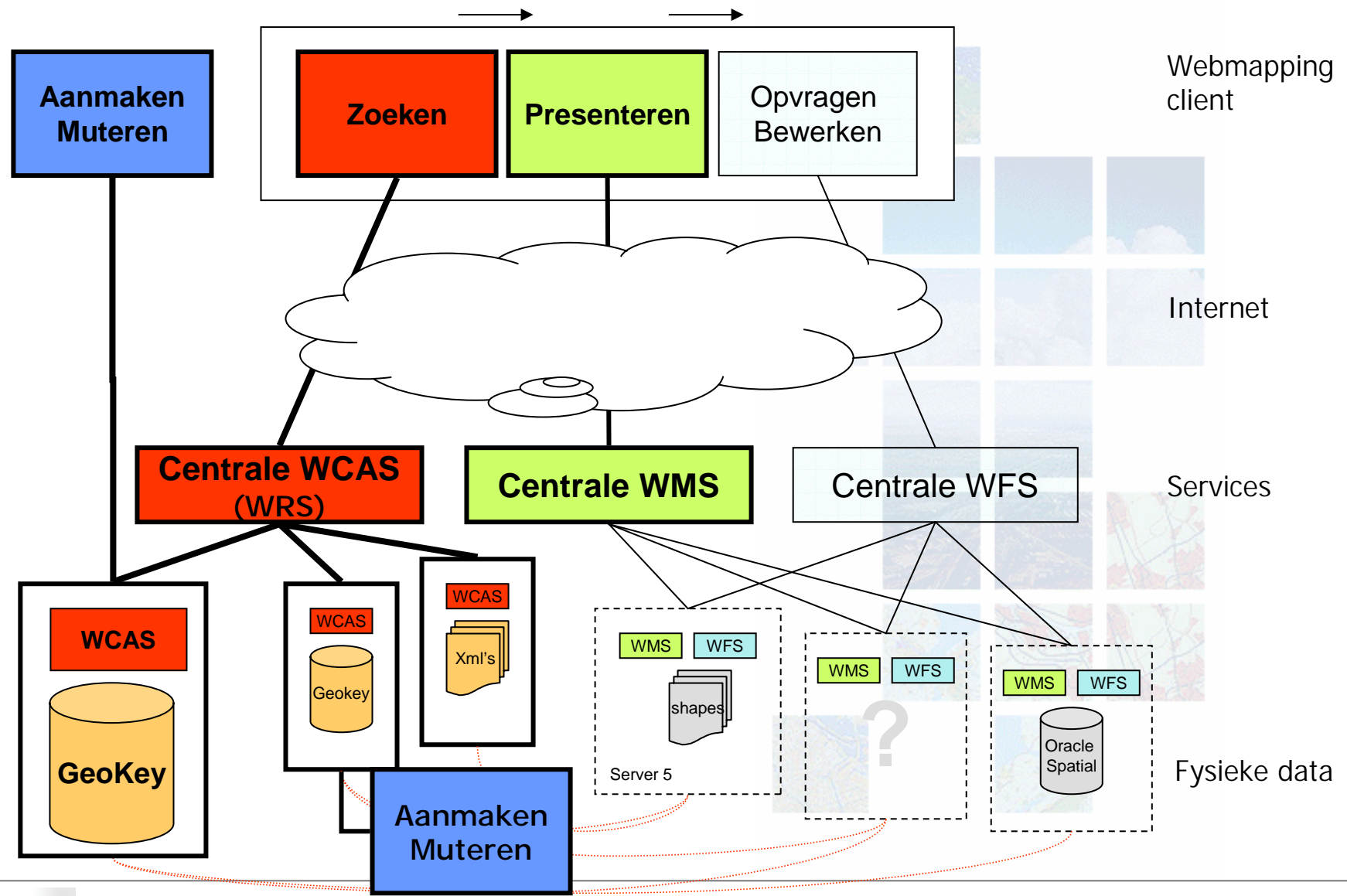
Wat is GeoKey 5?

1. Koffer met componenten
2. Start configuratie





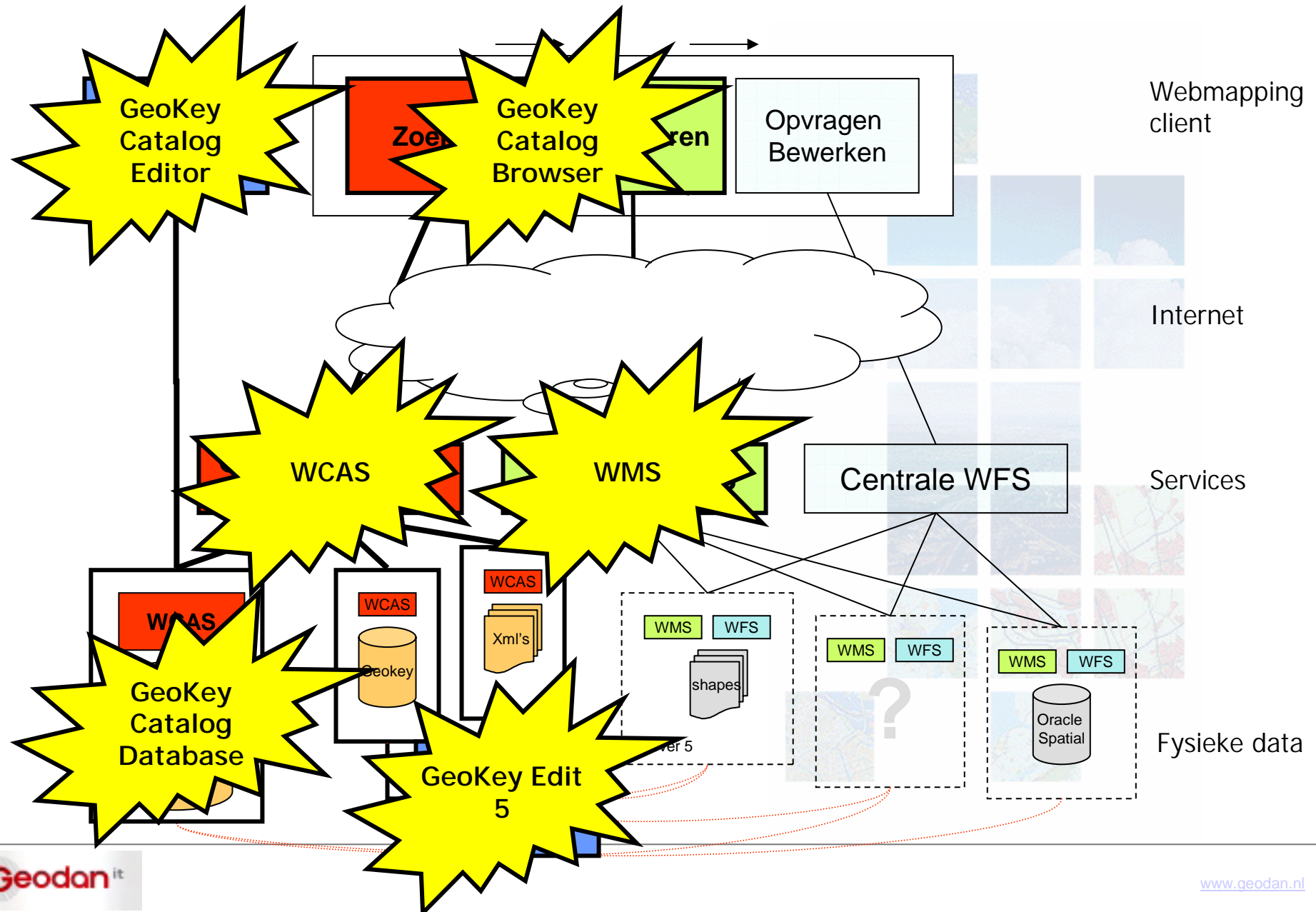
# GeoKey 5







# GeoKey 5





## GeoKey 5: Invoeren

GeoKey

### > GeoKey Edit *Classic*

- Huidige functionaliteit GeoKey Edit
- ISO19115 export/import
- Huidige GeoKey database

### > Nieuw: **GeoKey Catalog Editor**

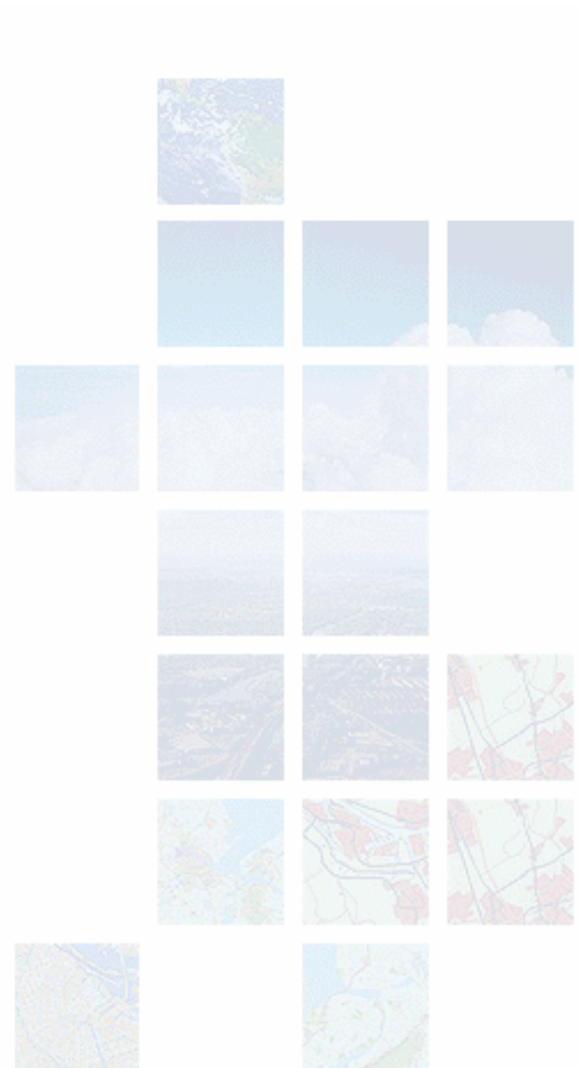
- ISO19115 compliant
- Beheer via Web
- Nieuwe GeoKey database
  - Access, Oracle (later PostgreSQL??, MySQL??)



- > **Nieuw: GeoKey Catalog Browser**
  - Basis webclient
- > OGC Web Mapping Server(s) (WMS)
- > OGC Web Catalog Server(s) (WCAS)
  - Interface op GeoKey Classic database
  - Interface op GeoKey Catalog database
  - Interface naar meta-informatie XML's



# Conclusies





## Conclusies

---

- > GeoKey als OpenGIS Web Catalog Server en data (WMS, WFS) **integrator**
- > Beschrijving van meta-informatie van OpenGIS **map layers**
- > Van **product** naar **componenten**
- > Standaard configuratie
- > GeoKey als **totaaloplossing Webmapping**



# Vragen



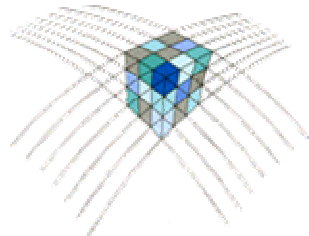


# GeoKey en Catalog Services

de sleutel tot geo-inf

**EINDE**

Studiedag NCG  
18 mei 2004



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