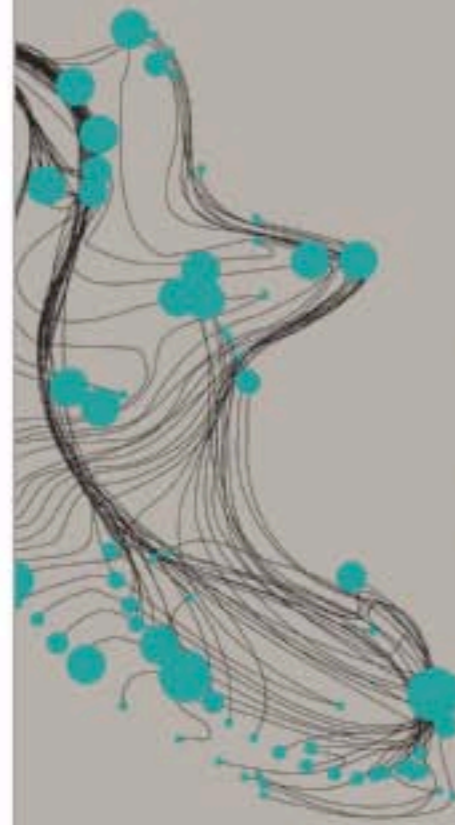


UNIVERSITY OF TWENTE.



Towards a  
**National Atlas of the  
Netherlands**  
as part of the  
**National Spatial Data  
Infrastructure**

BAREND KÖBBEN  
b.j.kobben@utwente.nl



FACULTY OF GEO-INFORMATION SCIENCE AND EARTH OBSERVATION

**...a brief overview...**

**For details see: Cartographic Journal 50:3, pp. 225–231**

# Demo time!

National Atlas of the Netherlan... +

geoserver.itc.nl/NatAtlas/NatAtlasViewer/NatAtlasViewer.html W+ stichting wetenschappelijke at 0/0


**KIES ONDERWERP...**

**Statistische Kerncijfers per gemeente**

- Gemeente code
- Gemeente naam
- Aantal inwoners
- Aantal mannen
- Aantal vrouwen
- % 0-14 jaar
- % 15-24 jaar
- % 25-44 jaar
- % 45-64 jaar
- % 65 jaar en ouder
- Aantal huishoudens
- Bevolkingsdichtheid
- % eenpersoons-huishoudens
- % huishoudens zonder kinderen
- % huishoudens met kinderen
- Gemiddelde huishoudensgrootte
- % westerse allochtonen
- % niet-westerse allochtonen
- % Marokkanen
- % Antillianen en Arubanen
- % Surinamers
- % Turken
- % overige niet-westerse allochtonen
- Oppervlakte totaal
- Oppervlakte land
- Oppervlakte water

**Natura2000 Beschermde gebieden**

- Naam beschermd gebied
- Status beschermd gebied
- Oppervlakte beschermd gebied



**Statistische Kerncijfers per gemeente**

**% 65 jaar en ouder**

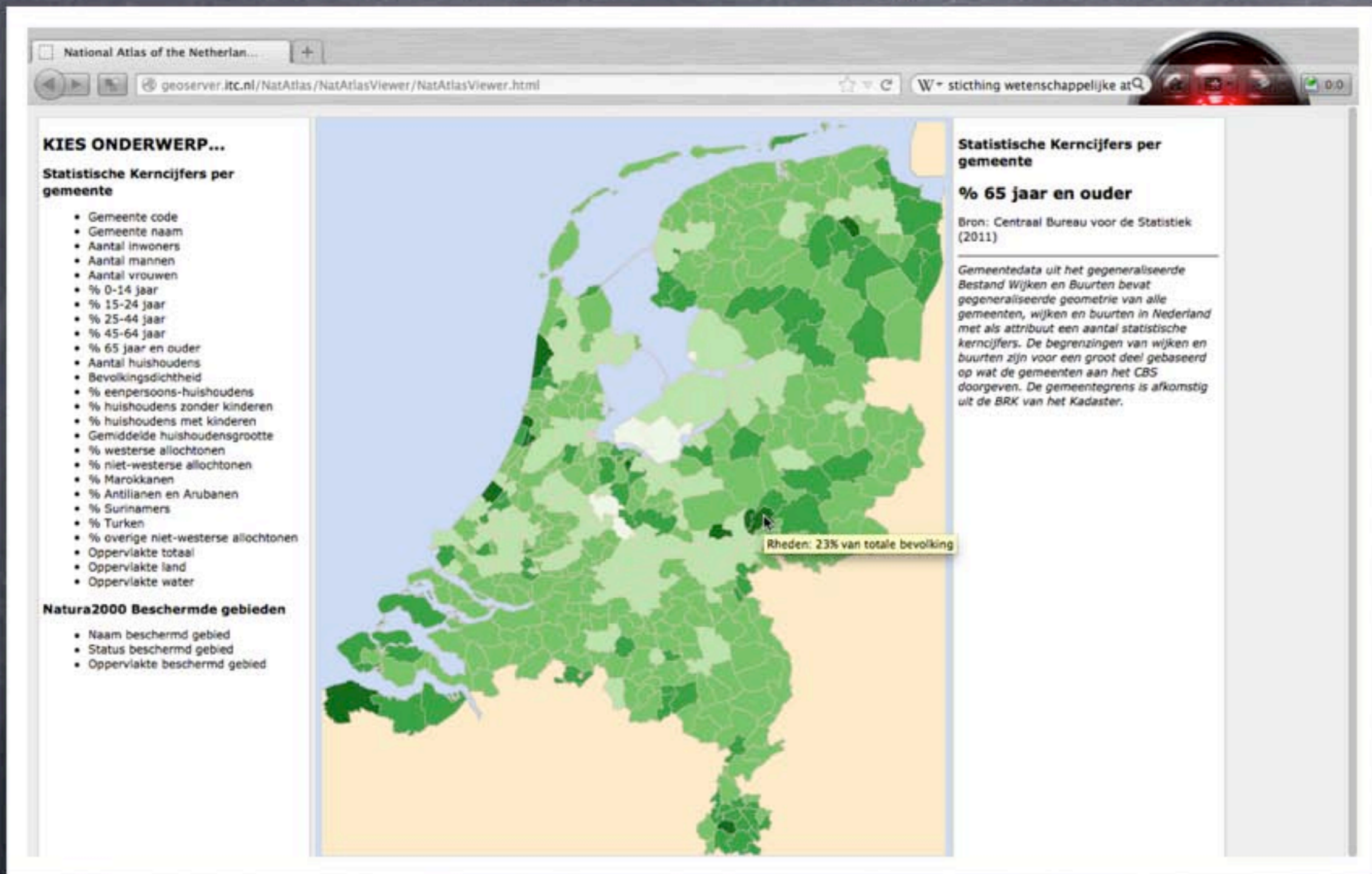
Bron: Centraal Bureau voor de Statistiek (2011)

Gemeentedata uit het gegeneraliseerde Bestand Wijken en Buurten bevat gegeneraliseerde geometrie van alle gemeenten, wijken en buurten in Nederland met als attribuut een aantal statistische kerncijfers. De begrenzingen van wijken en buurten zijn voor een groot deel gebaseerd op wat de gemeenten aan het CBS doorgeven. De gemeentegrens is afkomstig uit de BRK van het Kadaster.

Rheden: 23% van totale bevolking

[www.nationaleatlas.nl](http://www.nationaleatlas.nl)

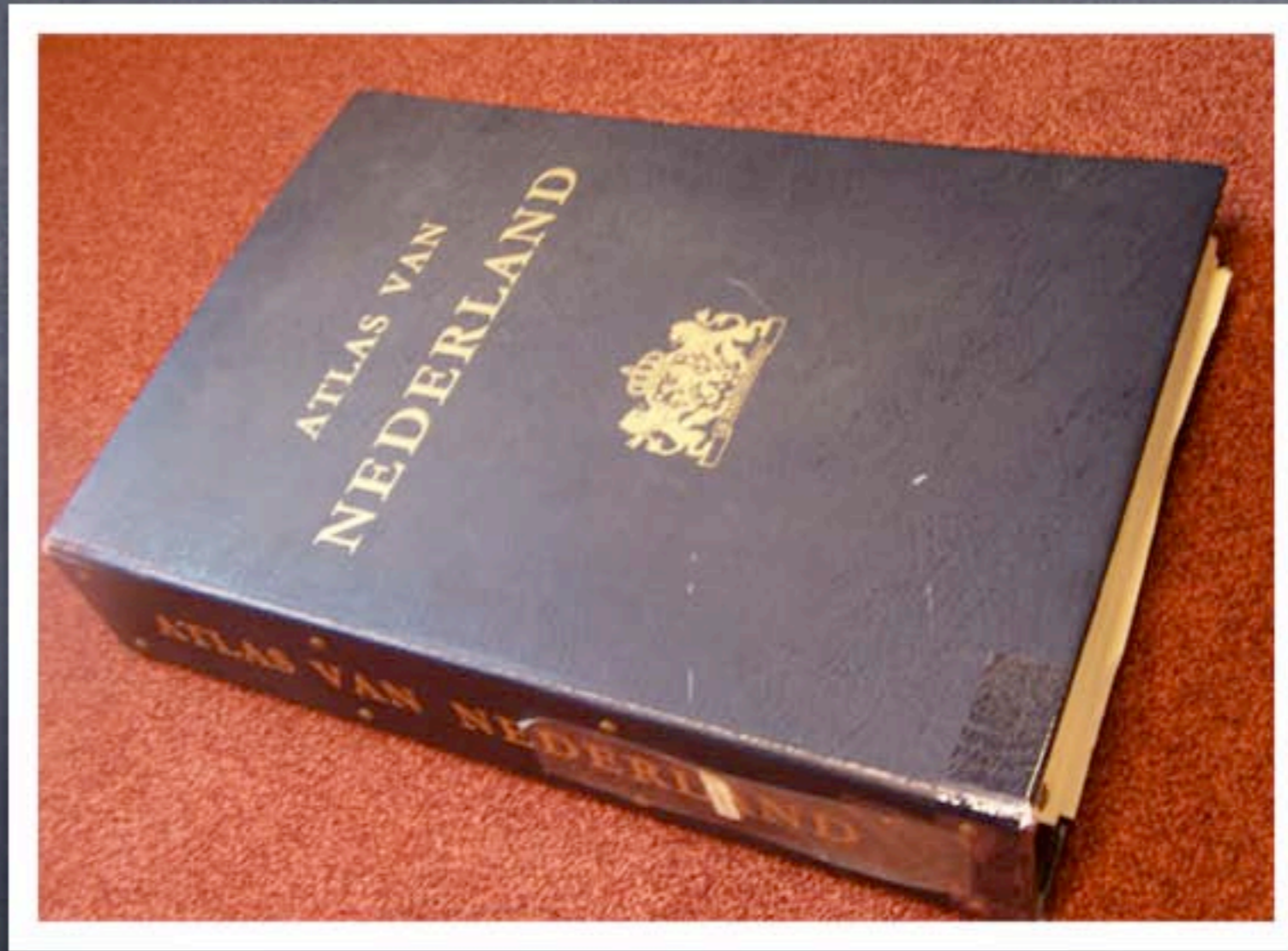
# demo shows the "public face"



# what's the story behind it?

# Brief history of the Dutch National Atlas

# Brief history of the Dutch National Atlas



1st edition (1963–1978)

# Brief history of the Dutch National Atlas



2nd edition (1989–1995)

# Brief history of the Dutch National Atlas

after 1998 government involvement  
and funding ended

=> limited and fragmented academic  
projects to keep atlas alive

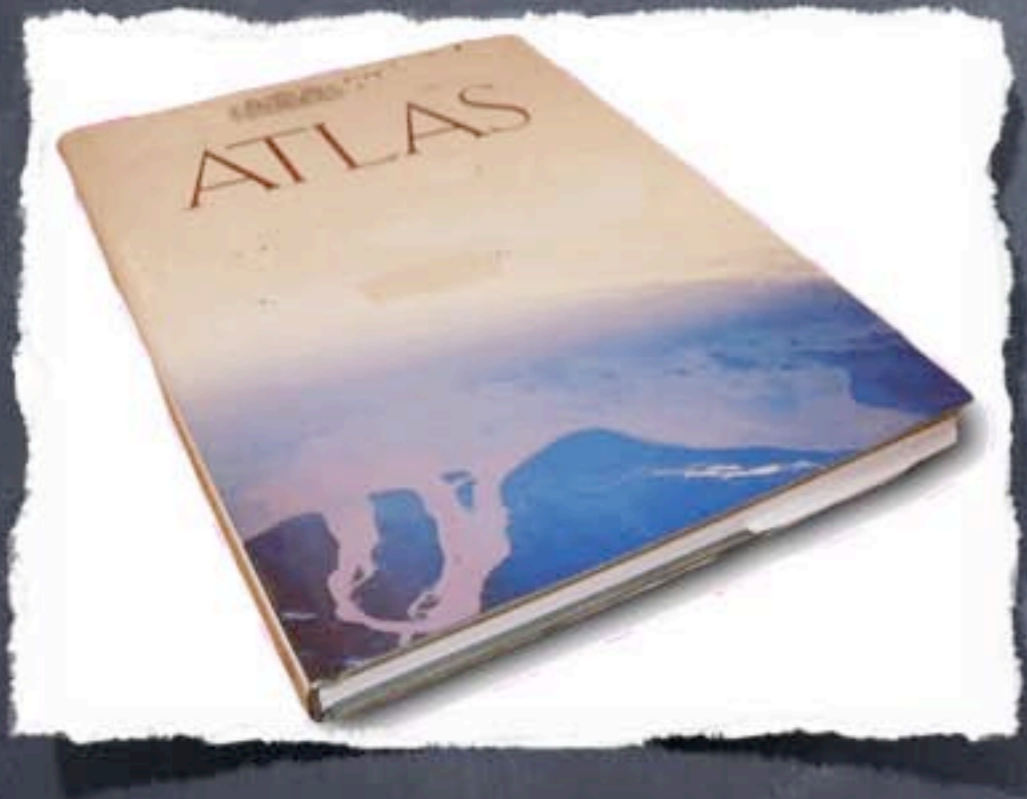
2000:

digital facsimile of 2nd edition

# Atlas as part of a Spatial Data Infrastructure

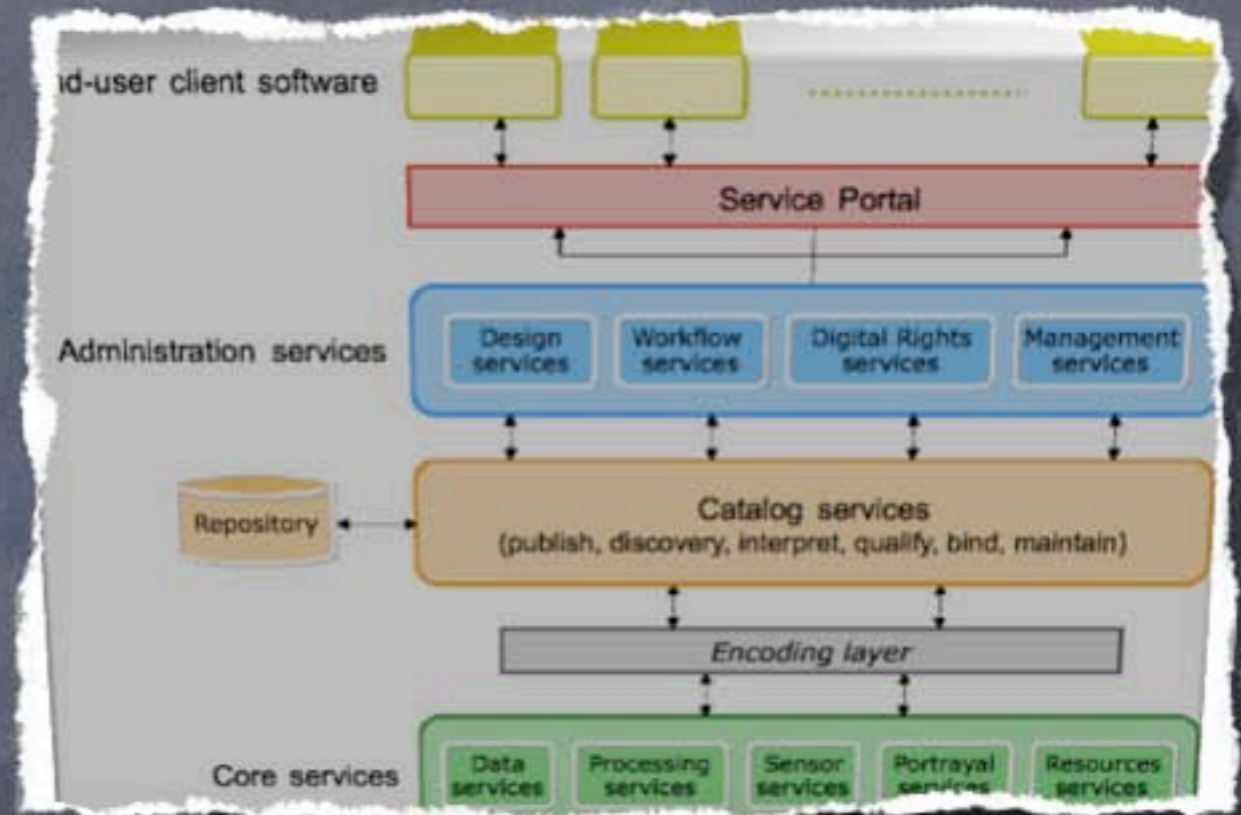


# Atlas as part of a Spatial Data Infrastructure



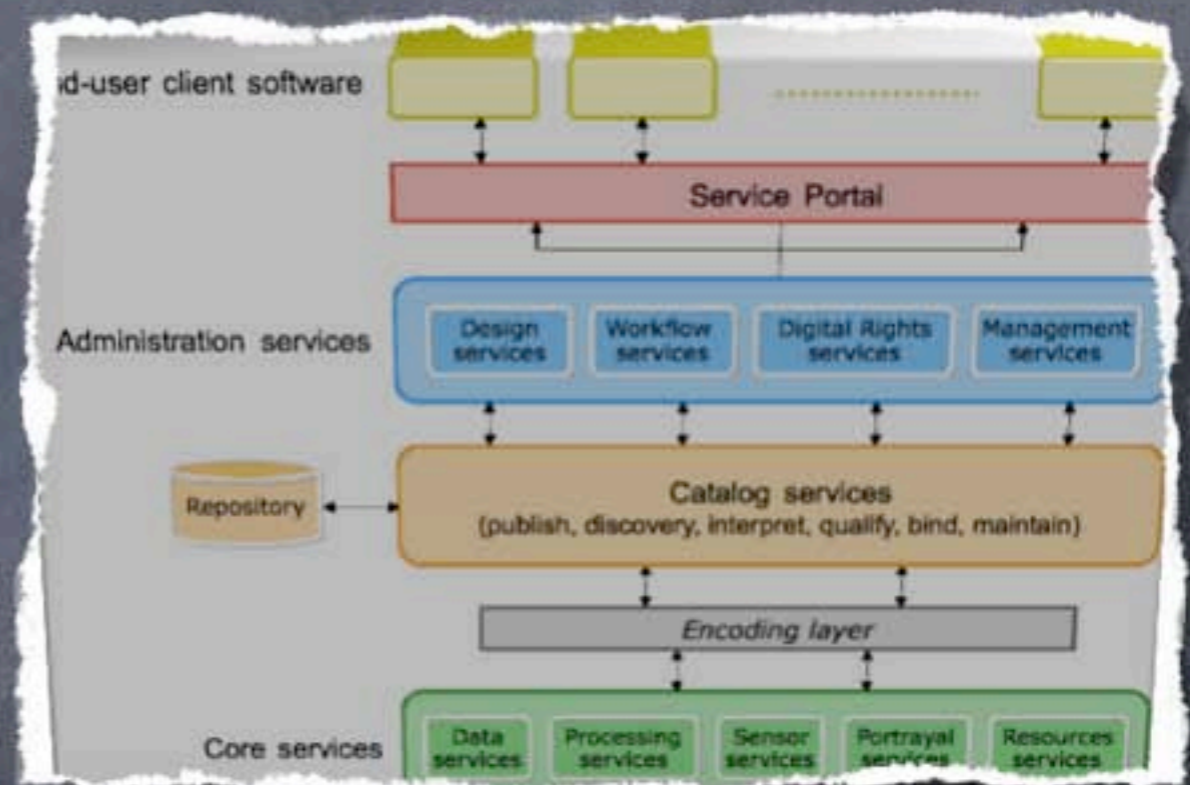
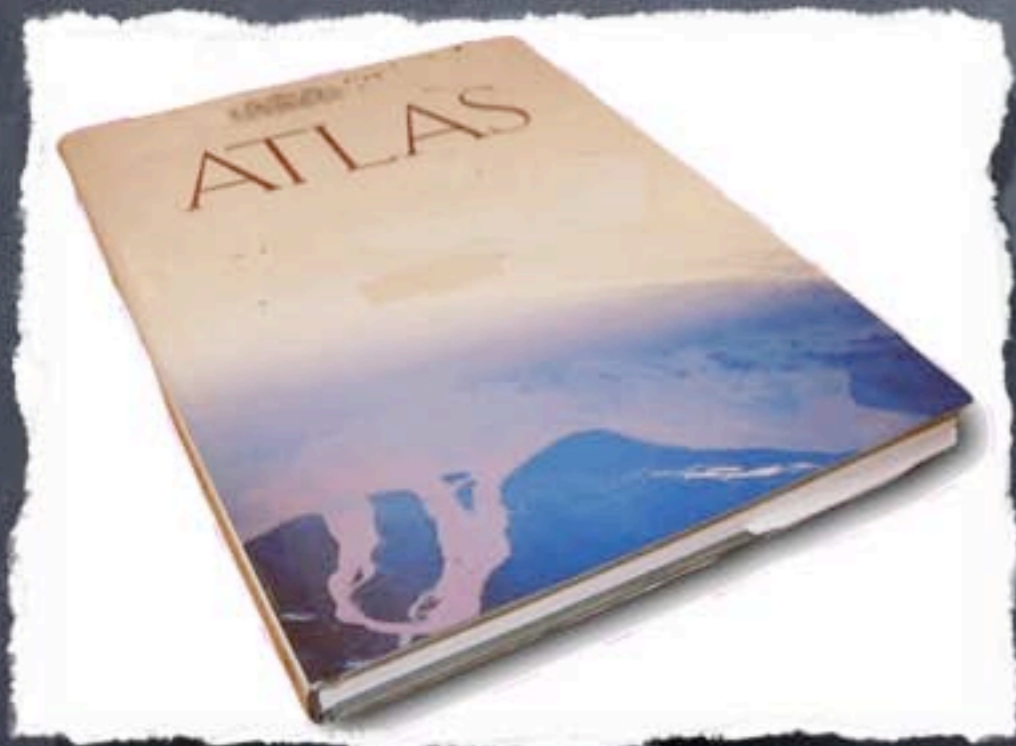
presents a synthesis  
optimised for visualisation

# Atlas as part of a Spatial Data Infrastructure



visualisation of separate data, not optimised for combinations (synergy)

# Atlas as part of a Spatial Data Infrastructure



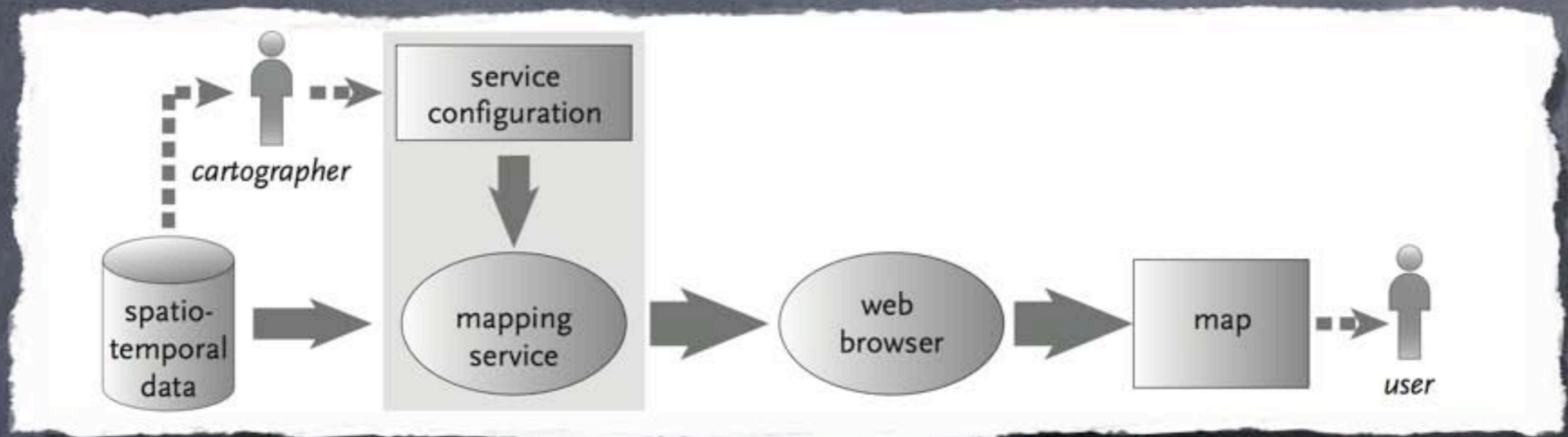
a combination of  
two different worlds

# Mapping in a webservices environment

# Mapping in a webservices environment

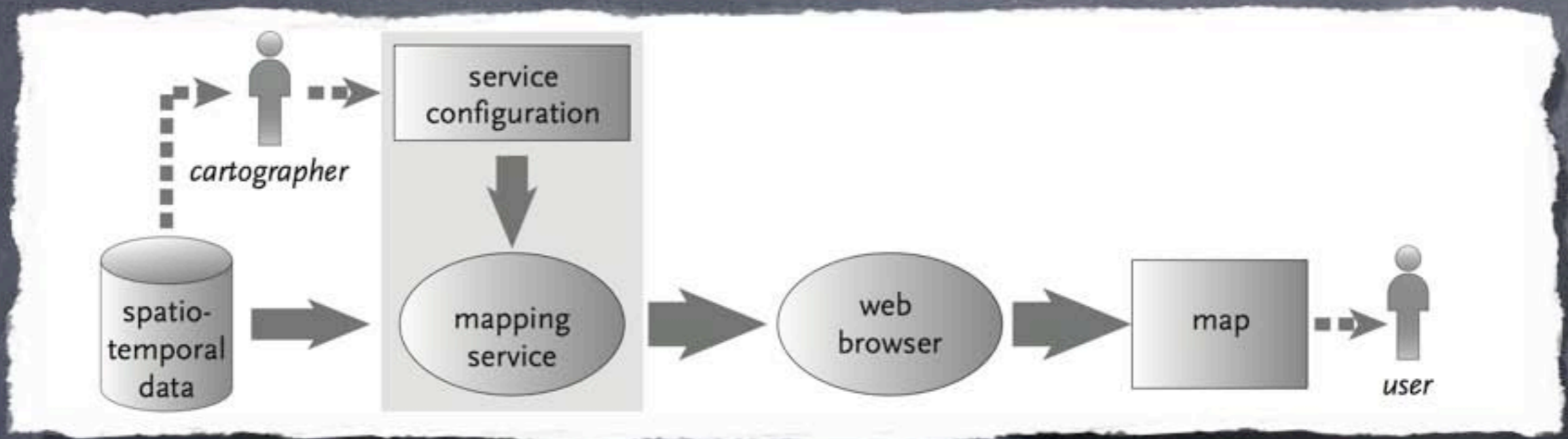
where the atlas is  
"just another SDI node"...

# Mapping in a webservices environment



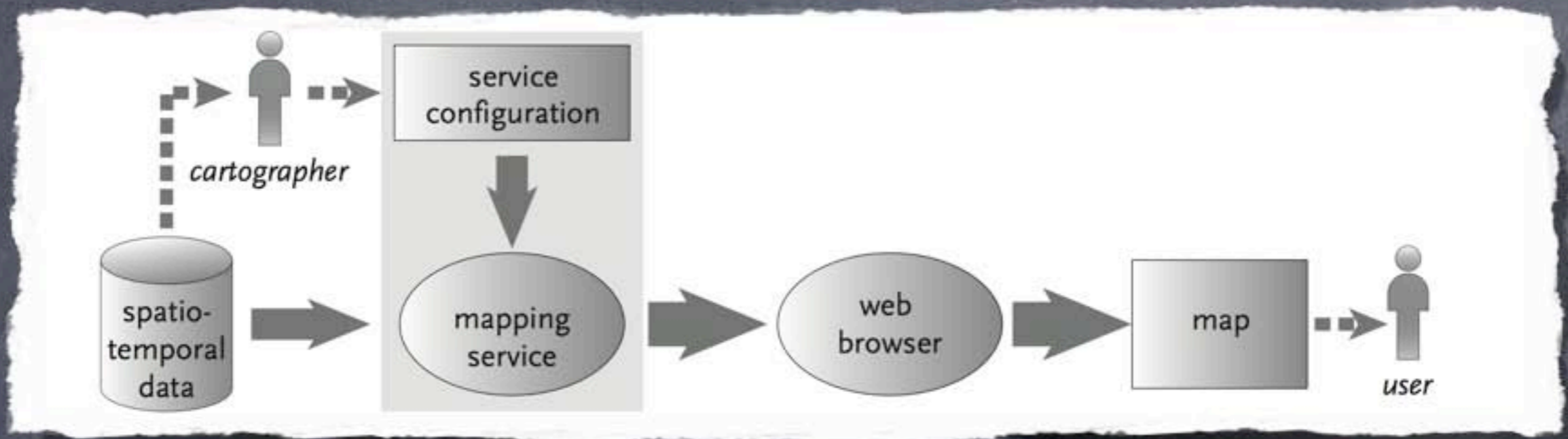
typical set-up nowadays

# Mapping in a webservices environment



possibilities for direct and automatic production of maps

# Mapping in a webservices environment

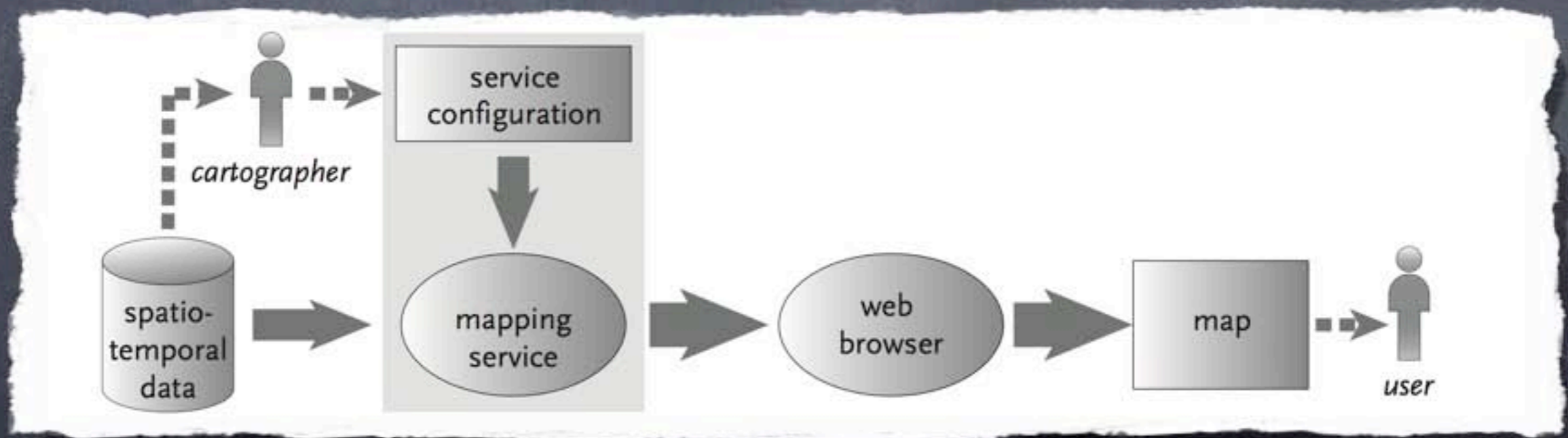


possibilities for direct and automatic  
production of maps

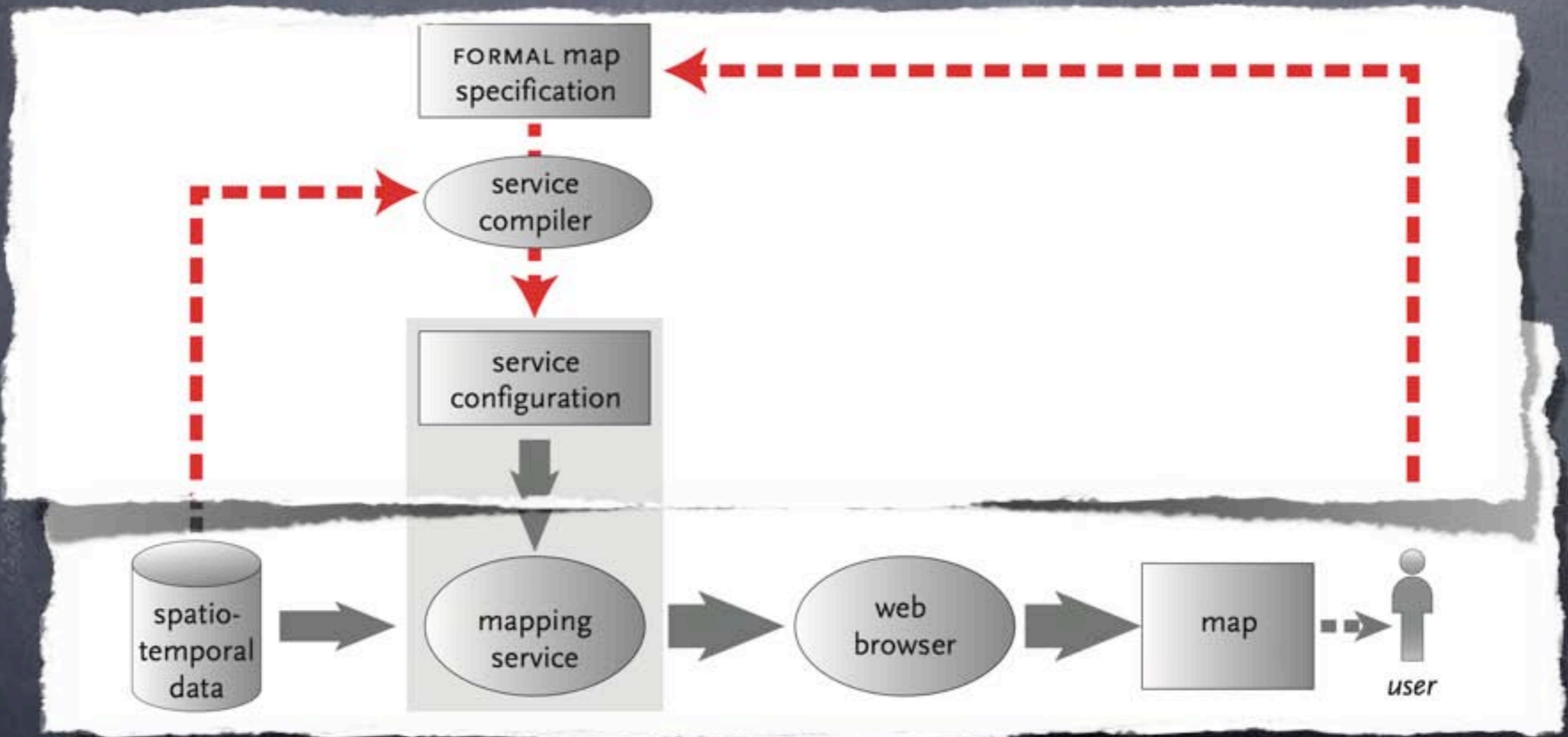
...but "automatic" is limited:  
cartographic decisions are fixed  
beforehand



# Mapping ~~in~~ a webservices environment as part of

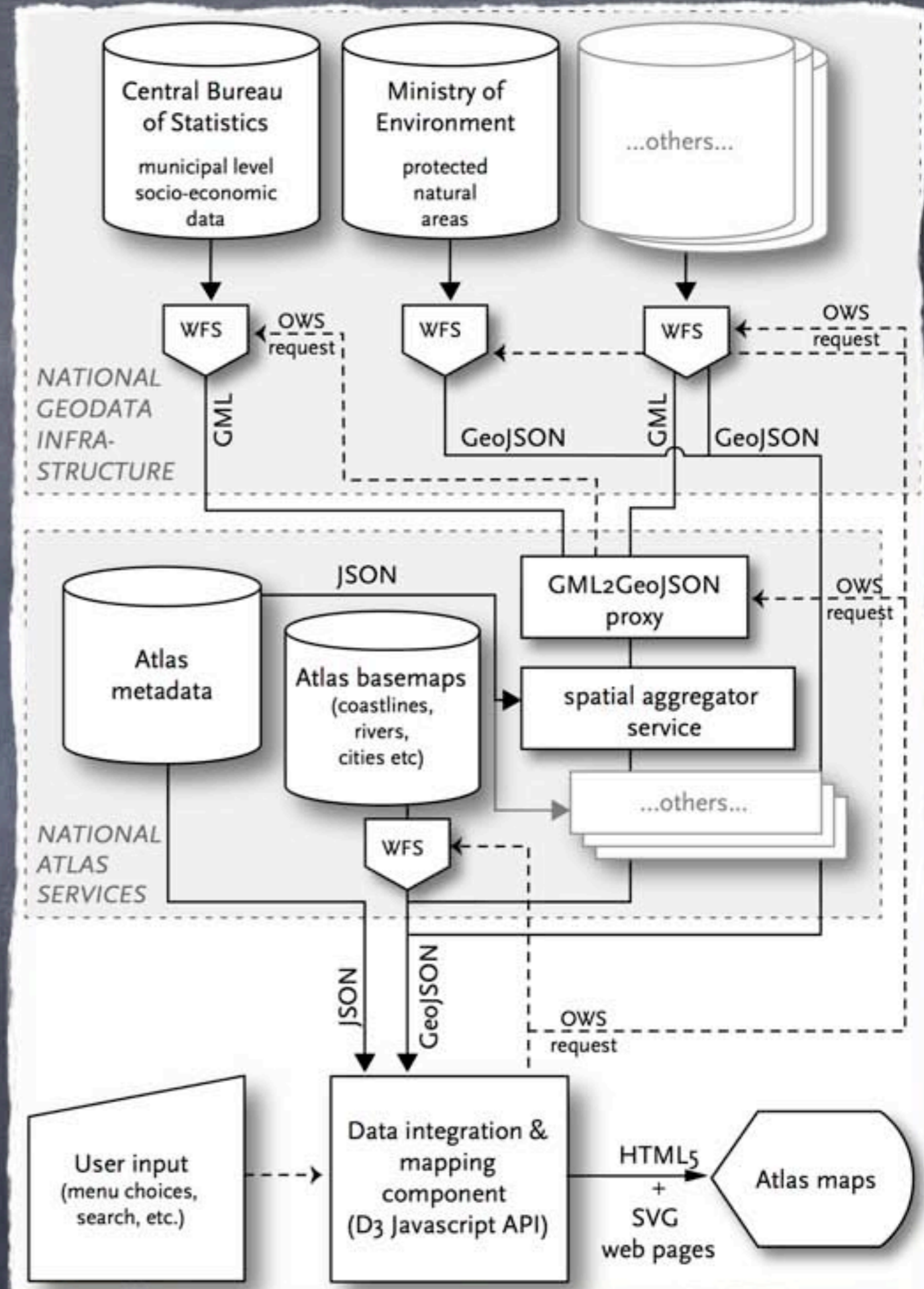


# Mapping ~~in~~ a webservices environment as part of

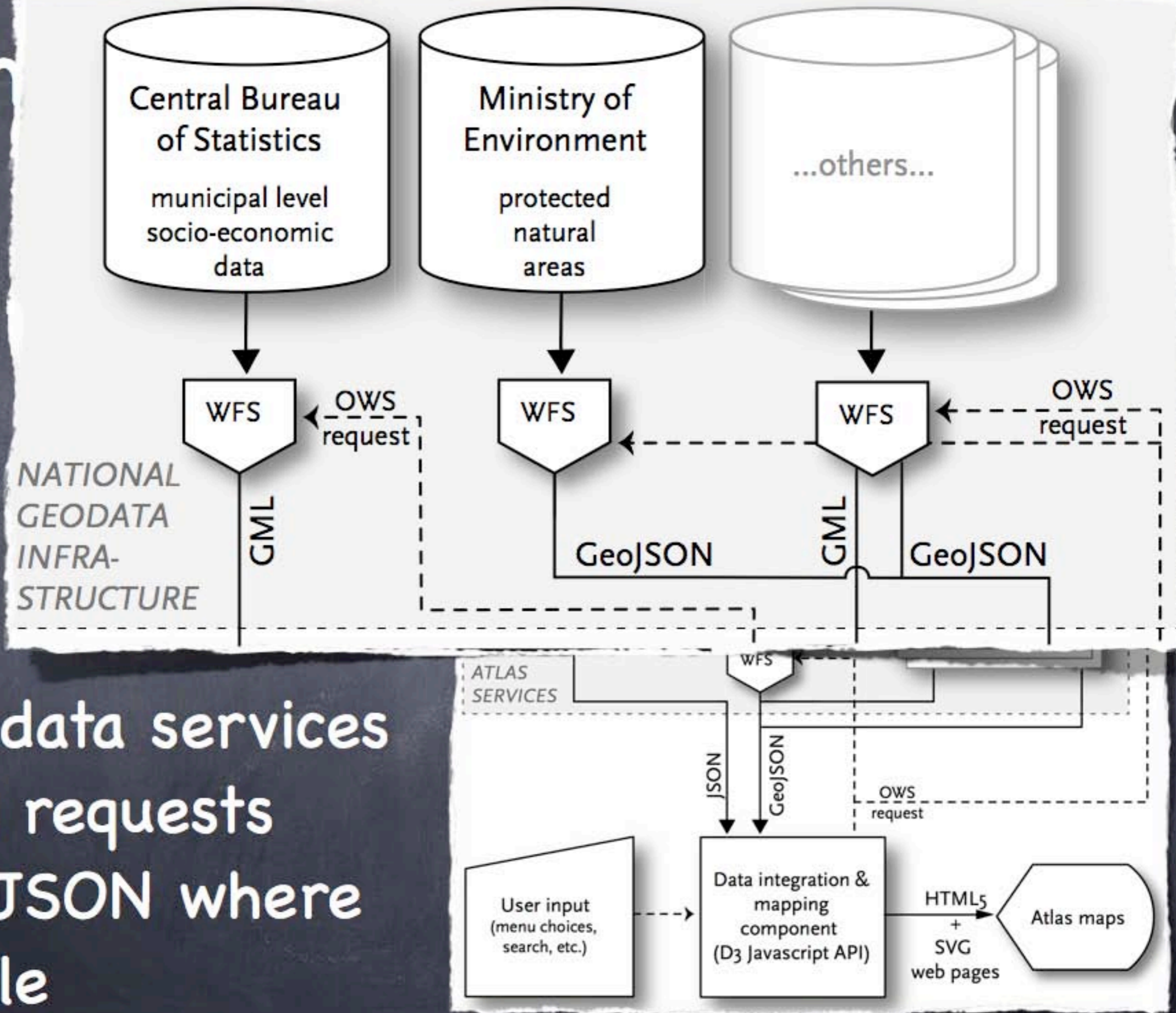


direction of research

# Architecture

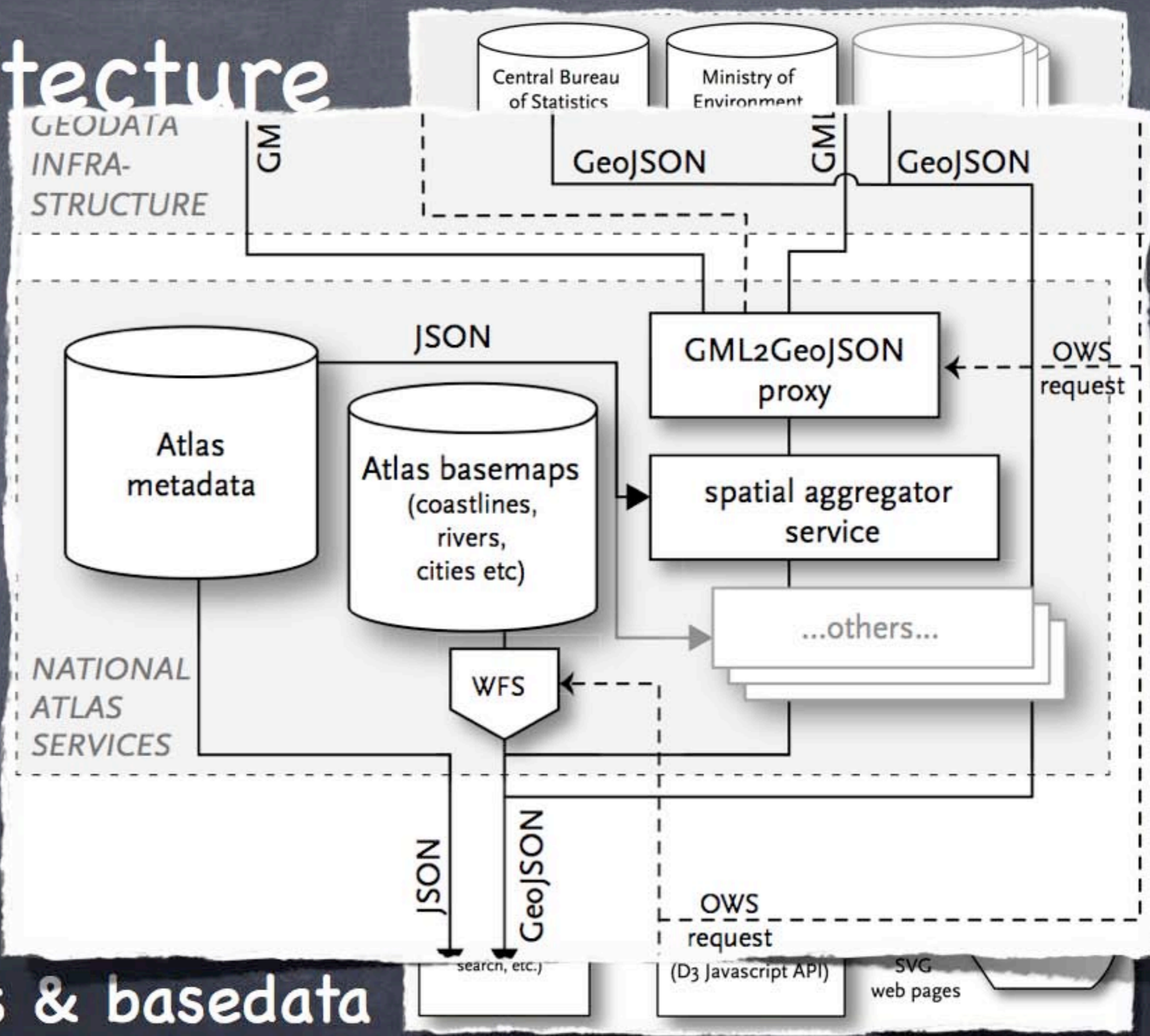


# Arch



- use data services (WFS) requests
- GeoJSON where possible

# Architecture

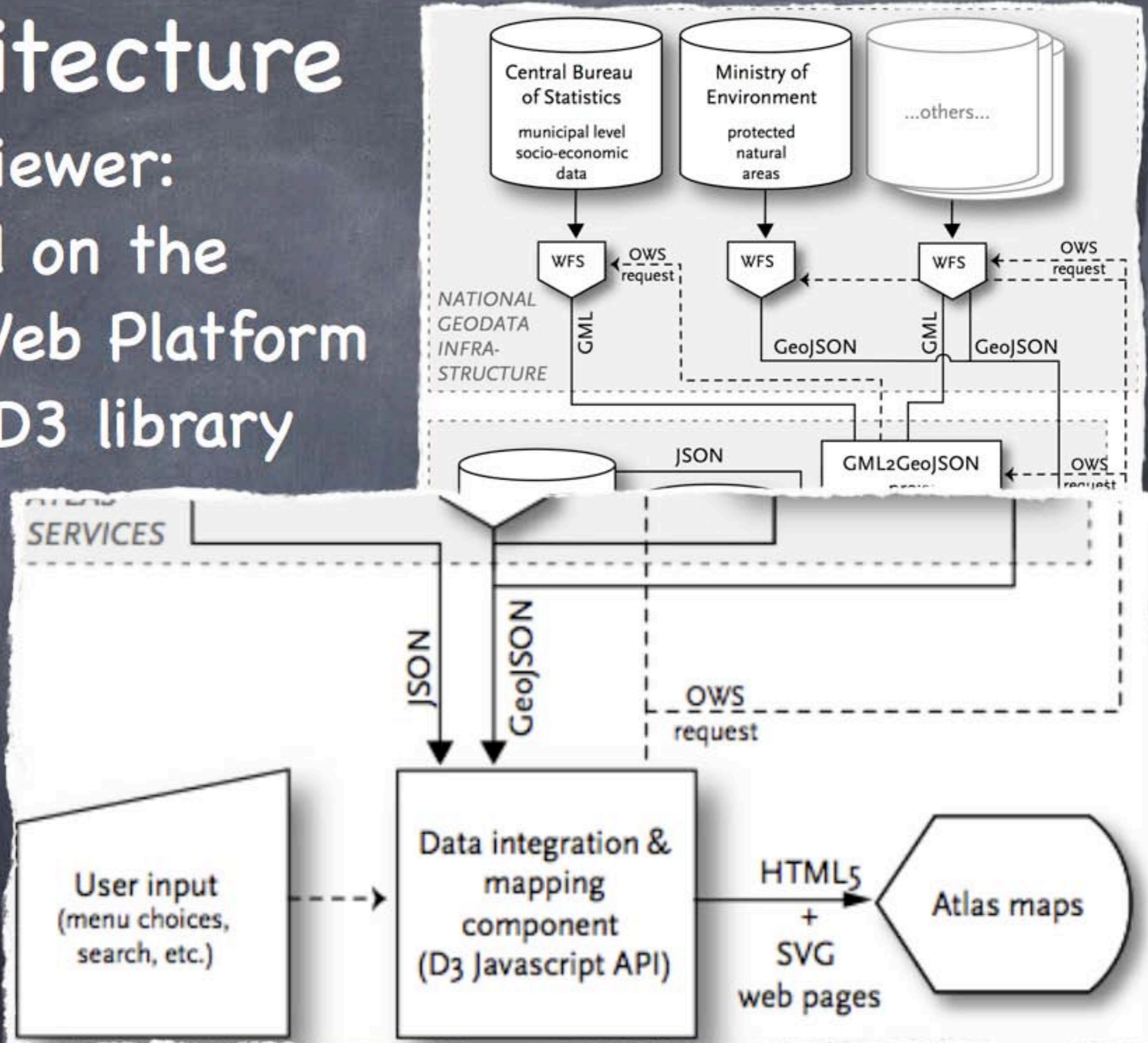


ATLAS  
utility  
services & basedata

# Architecture

## Atlas Viewer:

- based on the Open Web Platform
- uses D3 library



# Conclusions

the test bed shows:

# Conclusions

the test bed shows:

that a (National) Atlas as an integral part of  
a (National) SDI is feasible



# Conclusions

the test bed shows:

that a (National) Atlas as an integral part of  
a (National) SDI is feasible

provides many advantages  
(up-to-date, flexible, extensible,  
interoperable)

# What's next?

work in slow progress (funding ended 2009)

core is implemented, still missing parts:

viewer:

better menus, full legends, more maptypes

atlas services:

spatial aggregator & more

Thank you!

follow the progress at:

[www.nationaleatlas.nl](http://www.nationaleatlas.nl)

(follow the english)