

VGI – perspectives from Denmark

Katarina Ritz – Head of Department

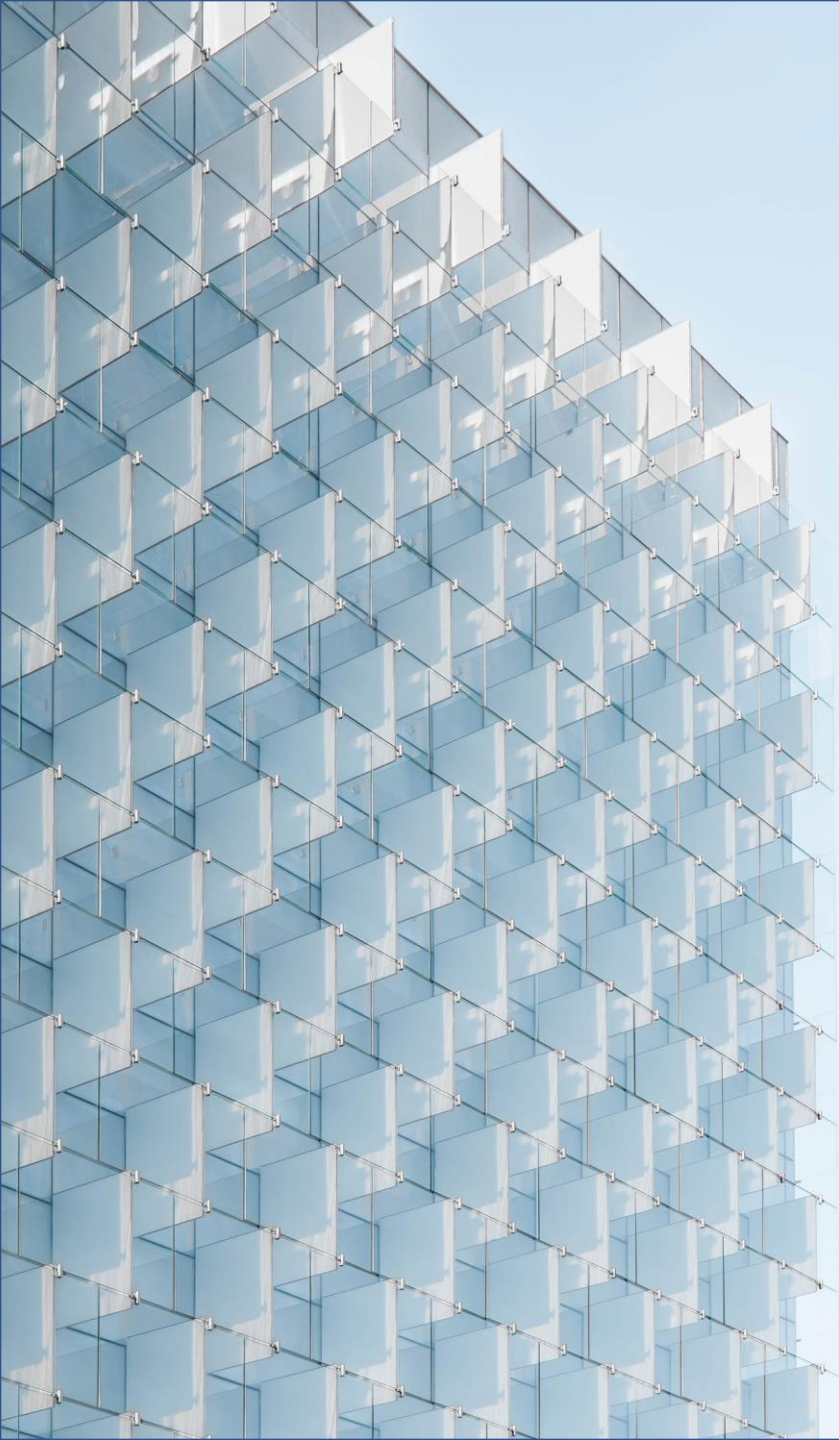


Agency for Data Supply
and Infrastructure

Agenda

- ✓ Who am I?
- ✓ Some concepts...
- ✓ **What is GeoFA?**
- ✓ Key challenges
- ✓ What's next?
- ✓ Danish place names – if time enough!
- ✓ Questions 😊





Who am I?



- Geographer
- Head of Department at the Danish Mapping Agency (SDFI)
- Responsibilities:
 - *Defence Mapping*
 - *Greenland and the Arctic*
 - *Danish Place Names*
 - ***International organisations***



Styrelsen for Dataforsyning
og Infrastruktur

VGI definition

“Volunteered geographic information (VGI) is the harnessing of tools to create, assemble, and disseminate geographic data provided voluntarily by individuals.”

- Wikipedia



Main actors in GeoFA are the Danish municipalities

Line Hvingel - KL

- Chair person / responsible for the open public database GeoFA in GeoDanmark
- Leads a working-group of 10 persons - 7 municipal members and 4 members from the state/agency (SDFI)
- Refers to the board of GeoDanmark



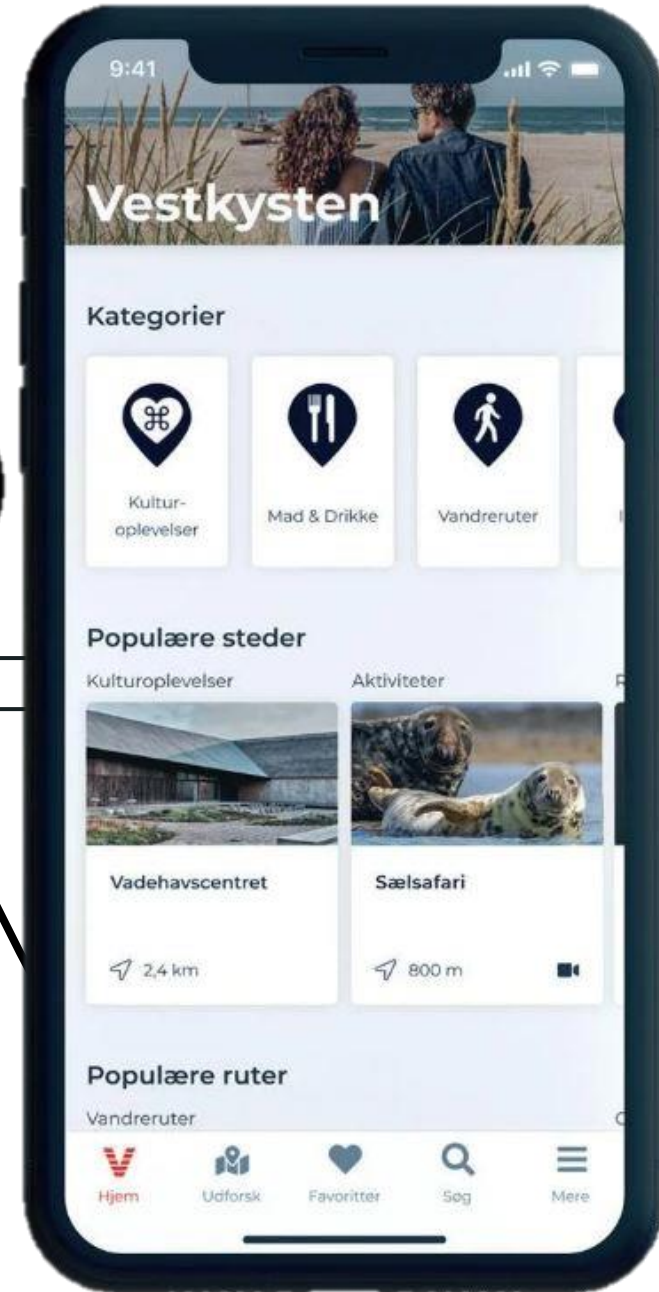
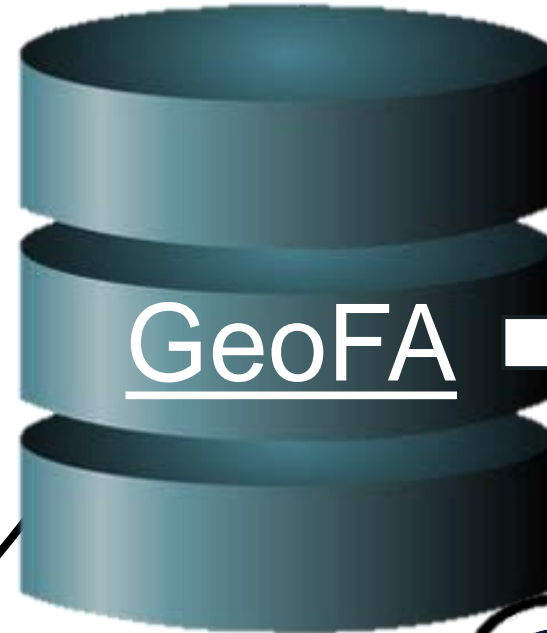
What is GeoDanmark *the "home" of GeoFA*

- Is a collaborative organisation between all the municipalities and the state (SDFI)
- Co-financed – hence through national contributions and local membership fees from the municipalities
- Board
- Subgroups with chair persons
- Yearly general assembly

Geo | Danmark
– det fælles datagrundlag



What is GeoFA?



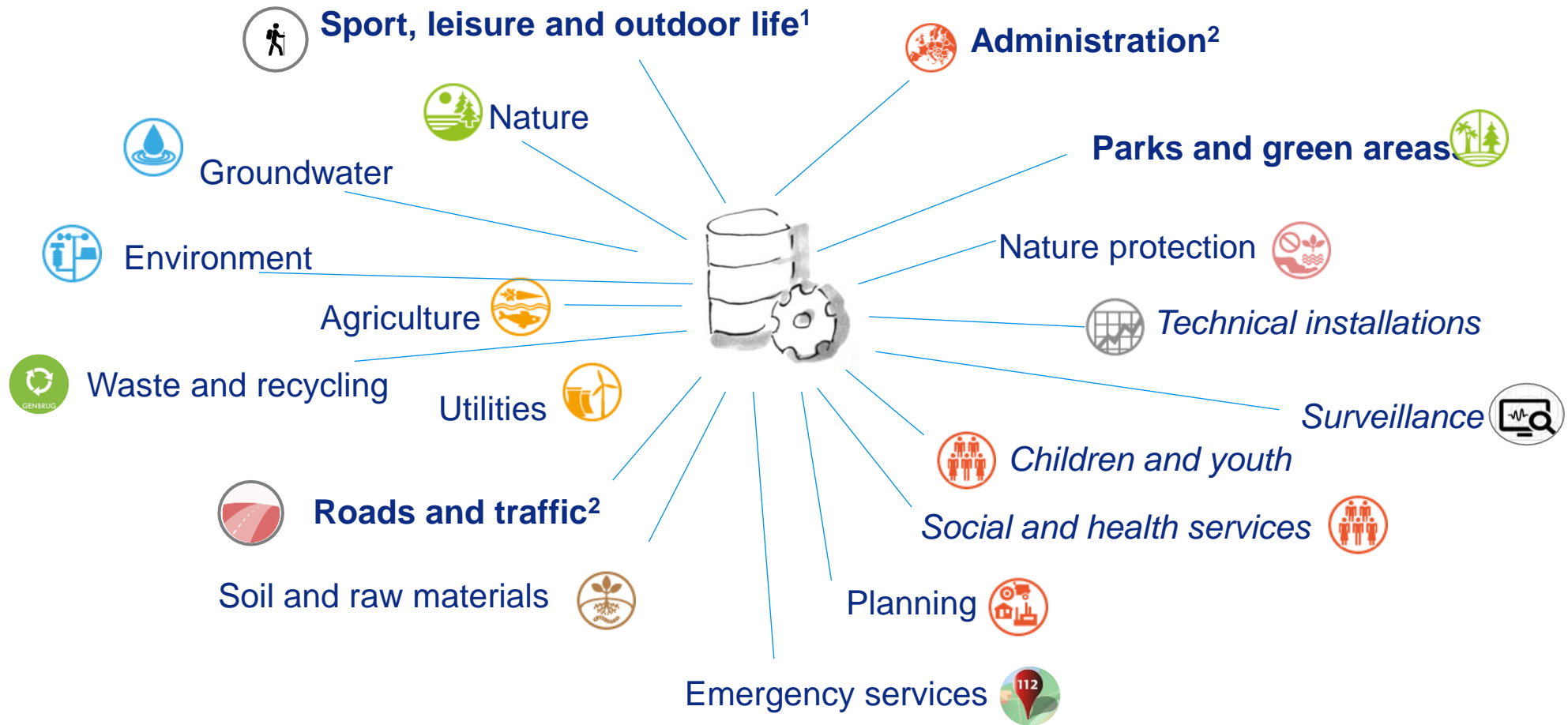
GeoFA is a **COMMON PUBLIC** database

GeoFA contains data in a standardised format and across different sectors

...
for free use by **ALL**

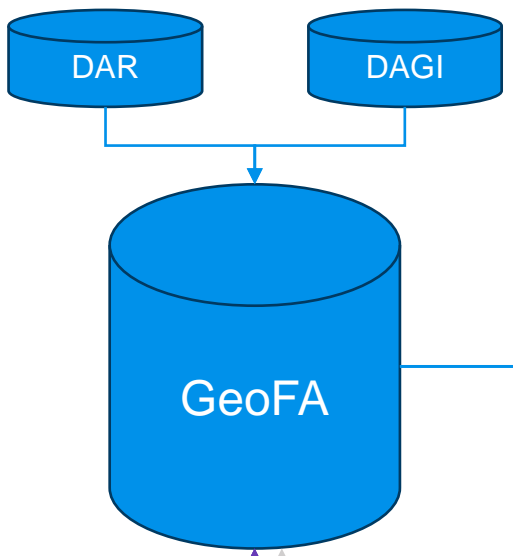
Datasets in GeoFA

1 = open data
2 = partially open/opens fully in spring 2024
3 = opens in the spring 2024
The rest will open during the year 2024
Italic text = not planned to be opened



Data layer

The data layer is the layer in the three-layer architecture that stores and handles data



Database system: [PostgreSQL](#)
The implementation: [PostGIS](#)

The database is built in GC2/vidi

User management is handled locally in the database

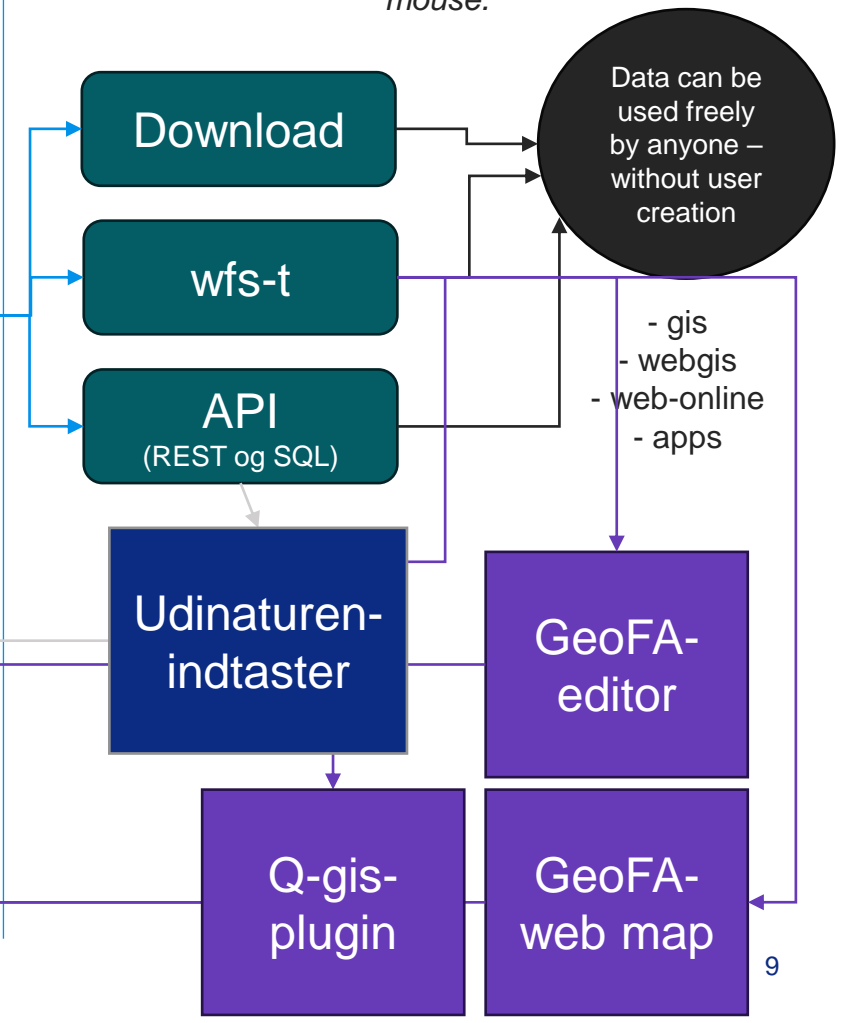
Application layer

The application layer lies between the user interface / GUI (Graphic User Interface) and the database layer, and it is in this layer where the processing of the business logic and the transactions of data take place.

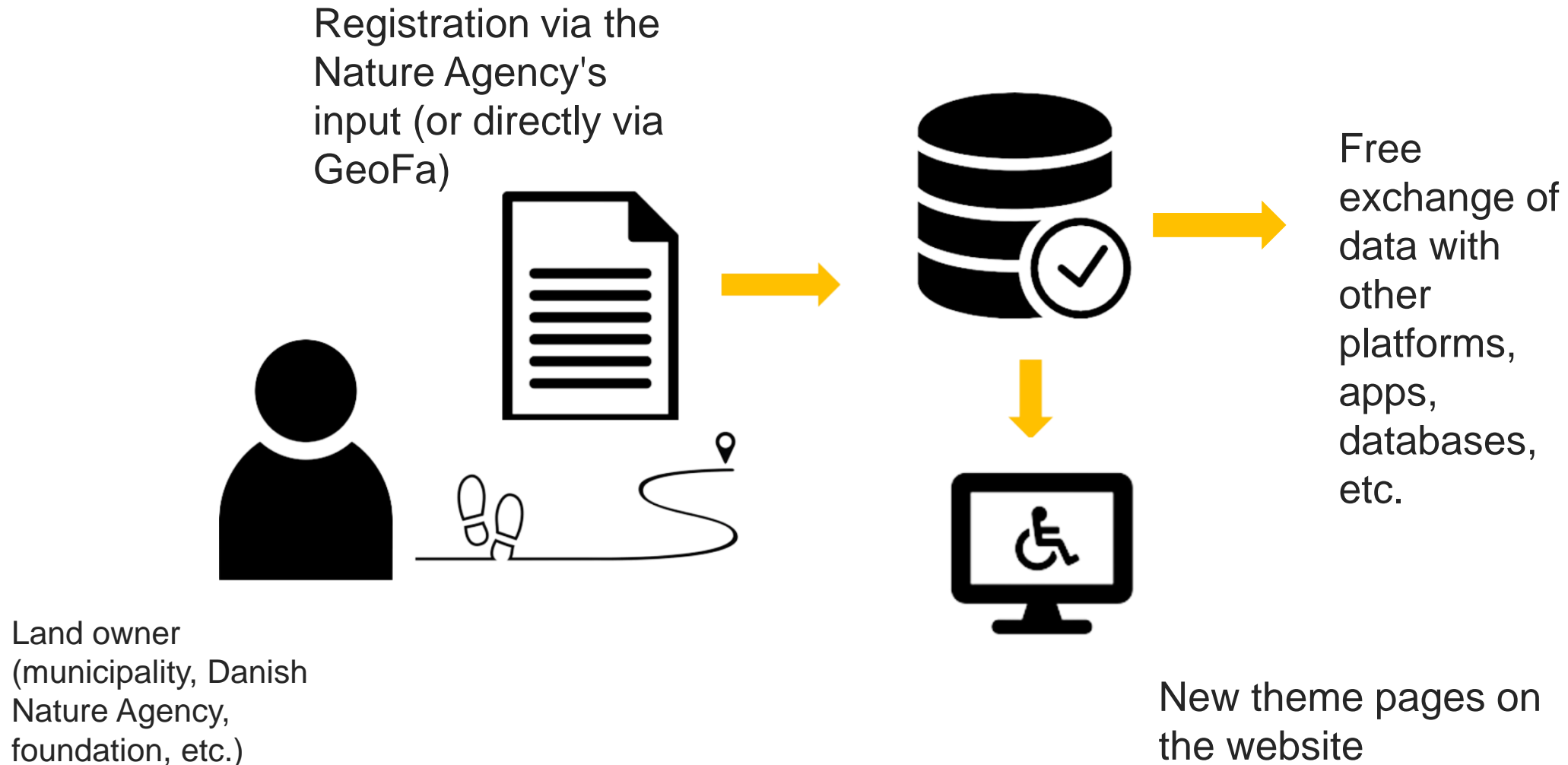


Front-end/presentation layer

Graphical interface that conveys and presents the user's interaction with a computer. The interface is presented on a screen and consists of a combination of text and graphics which can be manipulated with e.g. keyboard and mouse.



An example



Characteristics of GeoFA

GeoFA is:

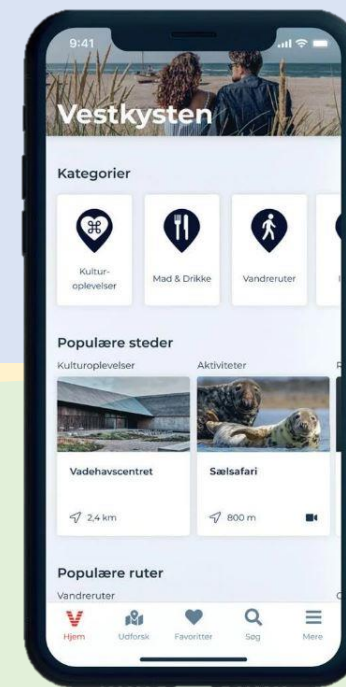
- an Open Public Database
- not based on rulings/legislation
- not based on National digitalisations strategies (fundings)
- carried out by a public association / collaboration
- voluntary to use
- supporting the work of the public authorities
- supporting local (municipal) strategies on the use of open geodata
- Free use for all others!



GeoFA today

GeoFA today:

- School-districts (for all municipalities, and the only database containing these districts)
- Outdoor data (for instance 60.000 km various routes and 20.000 POI)
- New data this year: charging points, wheel chair and bike access
 - Approximately 14.500
 - Development: only 1½ month and under 100.000 dkk
- More new thematic groups on the way



GeoFA



Challenges: An interesting travel into the unknown!

A one-stop-store
(for using and maintenance of data)

Many actors put info into (same) data!

One datamodel across administrative boundaries



Many (new) users!

From data-management to data use

Unformal collaboration is fruitfull!

$1+1+1=\infty!$

So What is the problem???

Data is
voluntary ...

Is citizen-
support our
responsibility?



Agility versus
stability

GIS is
overwhelmed
...

Who should
pay?

Is system-owner
responsible for
data-quality?

Lots to do...

Final governance

Collaboration with concepts

Communication and teaching

New server

Data quality

User-experience

Data declaration

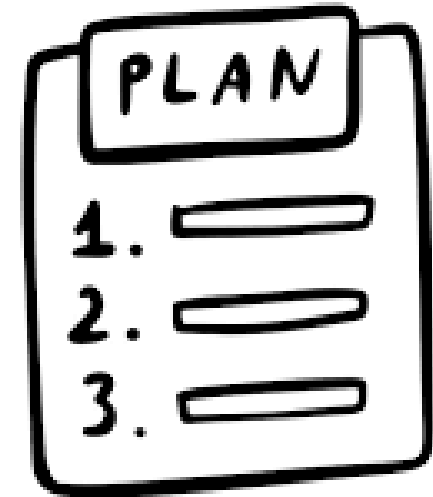
New access-control

Data-specification (new edition)

New data groups

Up next – development plans

- Joint governance in GeoDanmark - consolidation
- Preparation of standard terms that 3rd parties must sign
- Development of financing models
- Consolidation of the system – especially in relation to user management
- Consolidation of organisation of GeoFA – internal and external relations



Thank you and questions?

BIG thanks to Line for making and sharing the slides 😊

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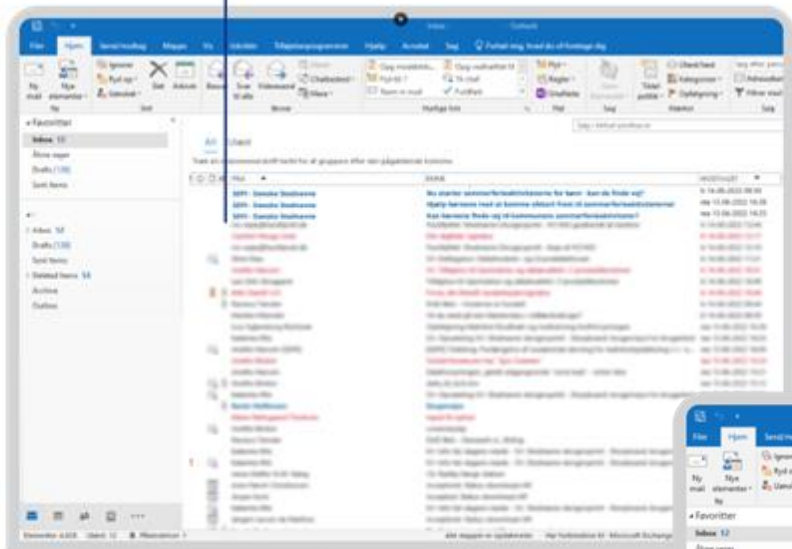
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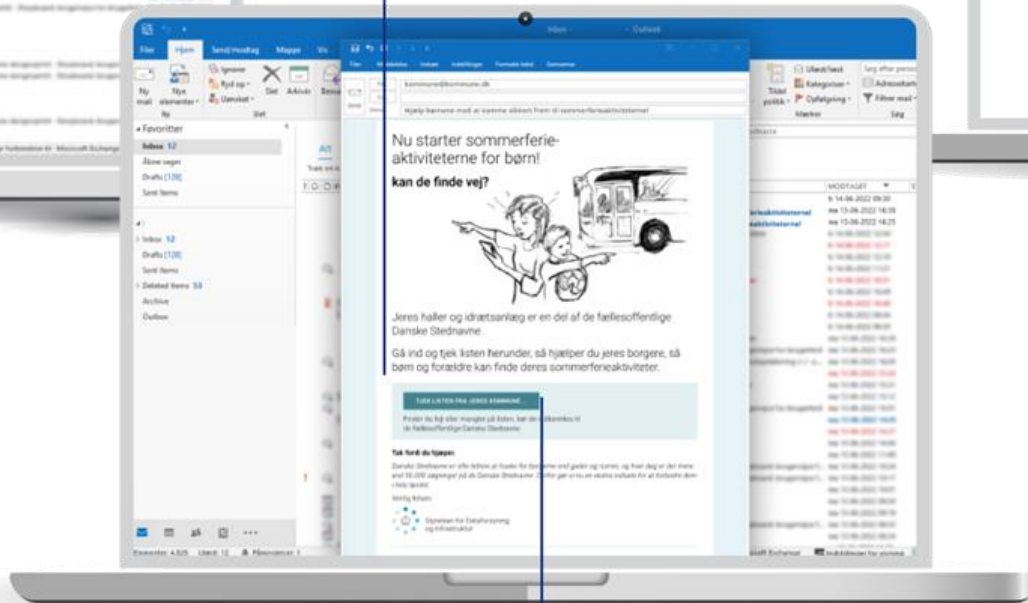
1

Sending an email to the municipality



2

The employee opening and reading the email



3

Easy call-to action in the email linking to the webpage

4

Webpage/internet portal where the employee can log in and report place names

