

# Danmarks Fikspunktsregister in a new and digital design/infrastructure

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The text and the figures on this poster are combined with inspiration from the following sources:  
<http://www.digst.dk/>  
<http://date.dk/>  
<https://www.google.dk/>  
<http://geodata-info.dk/Portal/>  
<http://inspire-danmark.dk/>

## The webapplication Valdemar

A new application is currently being developed, based upon the new infrastructure. Two API's, supporting REST, is the basic of the application and Frontend is developed using Open source Software. The new responsive design secures that the application runs on any platform adapting to any size of screen. Now it is possible to use new features as the GPS on a smartphone.

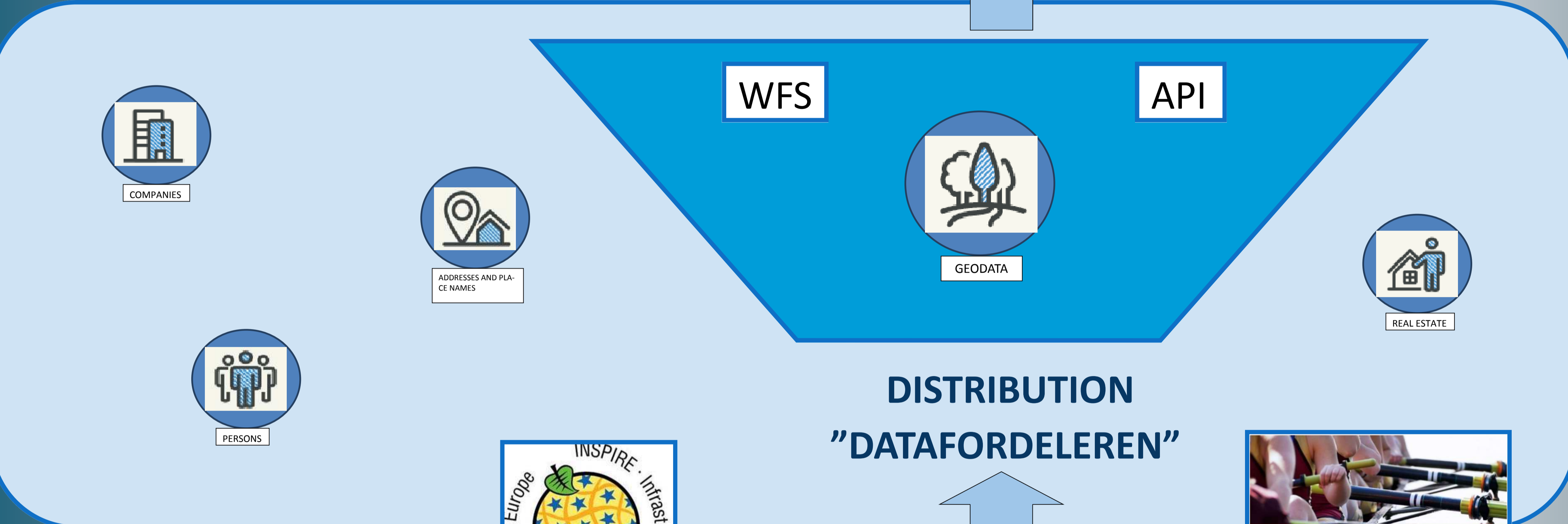
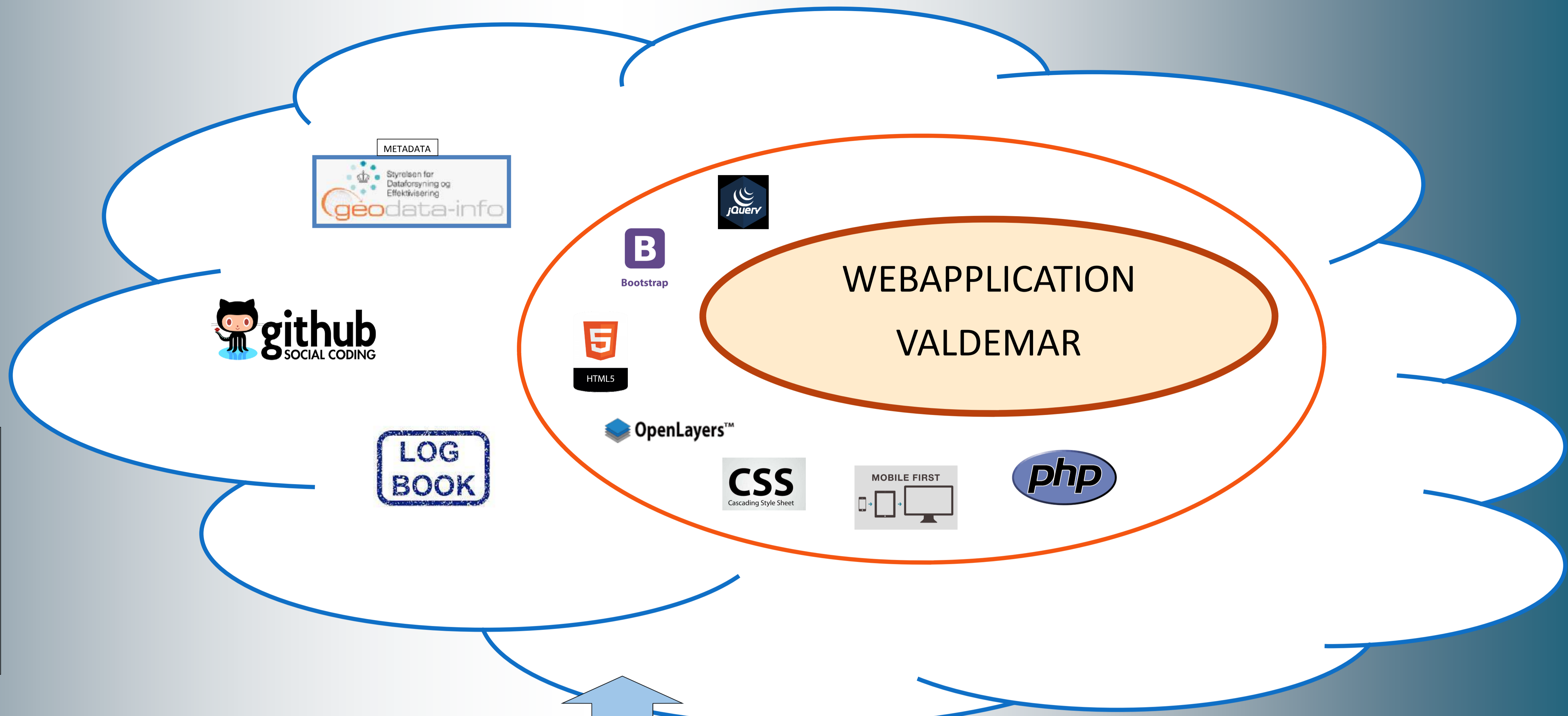
It has become easy to combine data with a variety of maps such as ortofotos and surfacemodels.

There is a detailed Log, that gives us insight in who and where the users are and how and what, they are demanding.

## Open Source Software

The work on Open Source Software (OSS) by the Danish government is carried out by the Centre of Excellence for Open Source and Open Standards (CEOSOS).

The Danish government's Software Strategy published in 2003 forms the basis for all work on OSS in Denmark. The strategy's main purpose is to ensure competition, quality and coherence in public IT-solutions. In Denmark, there is not tradition for legislating in the IT-area. Instead, most work, including that concerning OSS, is carried out by means of common interest in the Danish public sector. <http://www.digst.dk/>

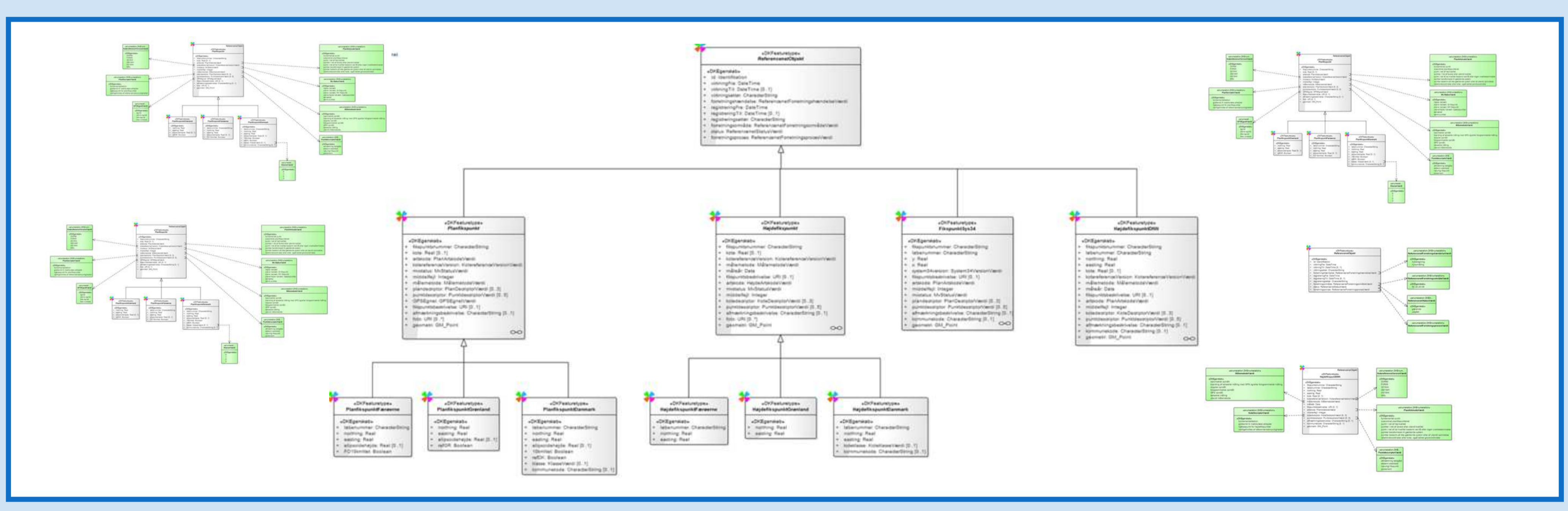


**Datafordeleren:**  
 The Geoportal "Datafordeleren" which is being developed currently, will replace a number of public distribution solutions and create one common approach for Basic Data. With the new Datamodel for coordinates, the distribution via the Datafordeler, opens up for new ways to share our data.  
 So far we have developed two WFS-services and two API's supporting REST. The Data and the API's are free of charge (ODIS), so if you want to built your own application, just go ahead.  
 Also it is possible to get notifications, when there is a change in data. Create-Update-Delete.

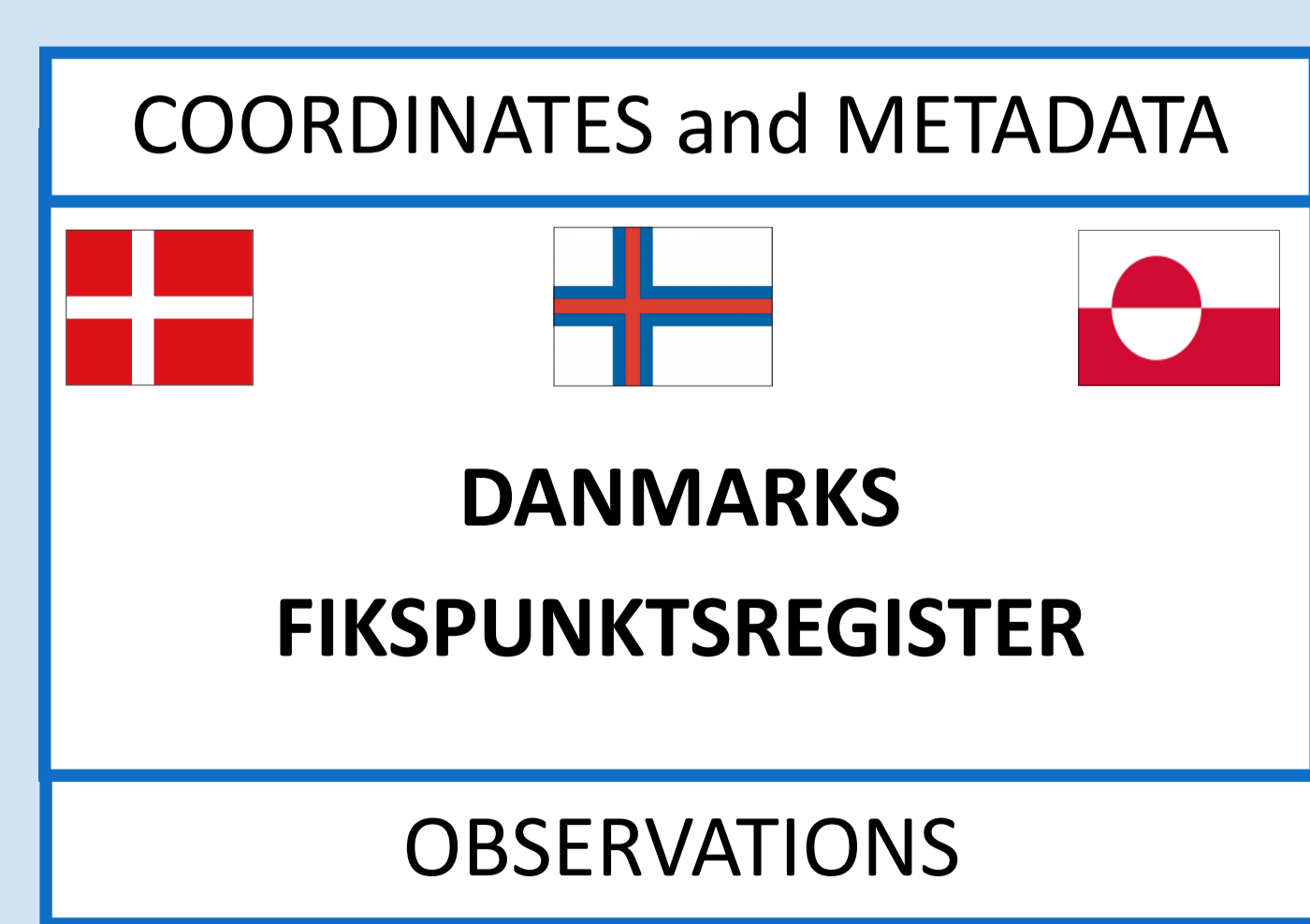
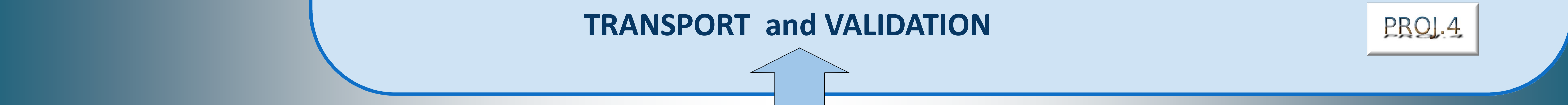
**Open Data Innovation Strategy (ODIS)**  
 The Danish 'Open Data Innovation Strategy' initiative (ODIS) is about creating easier and more uniform access to public data as raw material for the private sector in the development of innovative digital products and services, useful analyses, data visualisations and data journalism. <http://www.digst.dk/>

**Basic data is a driver for growth and efficiency.**  
 Public authorities in Denmark register various core information about individuals, businesses, real properties, buildings, addresses, and more. This information, called basic data, is re-used throughout the public sector and is an important basis for public authorities to perform their tasks properly and efficiently. Not least because an ever greater number of tasks have to be performed digitally and across units, administrations and sectors. <http://www.digst.dk/>

**A new Datamodel.**  
 To ensure easy access, and to make it possible to collocate data, a new datamodel was implemented.  
 It has been a task to make the old structure of data and datatypes, fit into the new model. A lot of compromises had to be made. At the same time a lot of new constrains were introduced.  
 All together it resulted in a thorough examination of data and "cleaning up" in a historic database that contains data as far back as the late 1800.  
 Also the transformation of data is now with the transformation functionality of the database, PROJ4, and not with the inhouse developed transformationsoftware KMSTrans.



The OIO architecture framework is the common public framework for working with architecture and standards. The framework comprises principles, methods, standards for documentation and classification of architecture work, and also a number of tools. <http://www.digst.dk/>



**Danmarks fikspunktsregister**  
 Is a dynamic working tool, of wich we distribute parts. Since the 1990s, it consists of 4 tightly coupled components:

- A metadata management system
- A observation data base management system
- An adjustment system
- A transformation system

This production setup, has been developed over many years. It has been adapted, to the ever changing methods of collecting data and changing it-infrastructures. The inhouse formats and standards are developed for exactly this purpose and have been adequate so far. To meet the demands of the Public Digital strategy, it has been necessary to develop a new Datamodel for the distribution and a new Frontend for the webapplication Valdemar.

SDFE/GRF has an ongoing project to modernize and Revitalize the rest of the production setup.

**Digital Strategy 2015-2020**  
 This Digital Strategy runs up to 2020, and in it the central, regional and local governments create the foundation for the Danish public sector of the future. <http://www.digst.dk/>

