

Open data - The Danish Basic data Programme

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Outline

-  The Danish eGovernment strategy
-  The basic data program
-  The role of INSPIRE
-  Business cases – and free geodata
-  Reflections



eGovernment Strategy – a joint venture

- cross cutting initiatives are financed through the yearly budget negotiations
 - the Ministry of Finance
 - representative bodies of the municipalities and the regions
- a corporation between central government, regions and municipalities
- The model used in NSDI as well



10 years of eGovernment Strategy

2001 - *Digital collaboration*

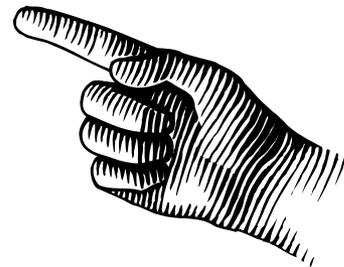
- digital signature, e-mails public sector, digital channels of communication

2004 – *Digitalization and efficient payment*

- E-invoice public payment, e-account all citizens and companies

2007 – *Shared infrastructure and one point of access*

- easy log-in, E-income, E-box, mandatory use of shared infrastructure



THE INFRASTRUCTURE MODEL



eGOVERNMENT strategy 2011-2015



THE DIGITAL PATH TO FUTURE WELFARE

eGOVERNMENT STRATEGY 2011-2015

THE DANISH GOVERNMENT/DANISH REGIONS/
LOCAL GOVERNMENT DENMARK
AUGUST 2011



Danish eGovernment STRATEGY 2011 - 2015

THE eGOVERNMENT STRATEGY - MAIN TRACKS

Responsible: Ministry of Finance!!

**PRINTED FORMS
OR LETTERS**

Citizens
Companies

**NEW DIGITAL
WELFARE**

Schoolchildren
Patients
Senior citizens
Unemployed
Students

**FOR CLOSER
COLLABORATION**

Infrastructure
Shared core data
Legislation
Management

The strategy is divided into three main tracks.
Each track covers various areas and targets
different groups.



The Danish eGovernment Strategy 2011 - 2015

Vision:

Digitalisation shall create a smarter public sector, which is simpler, more efficient and coherent

Action:

Cross-cutting themes of **reuse** of data, infrastructure, citizen services, and governance

Focus:

Authoritative basic data and a common public data distributor

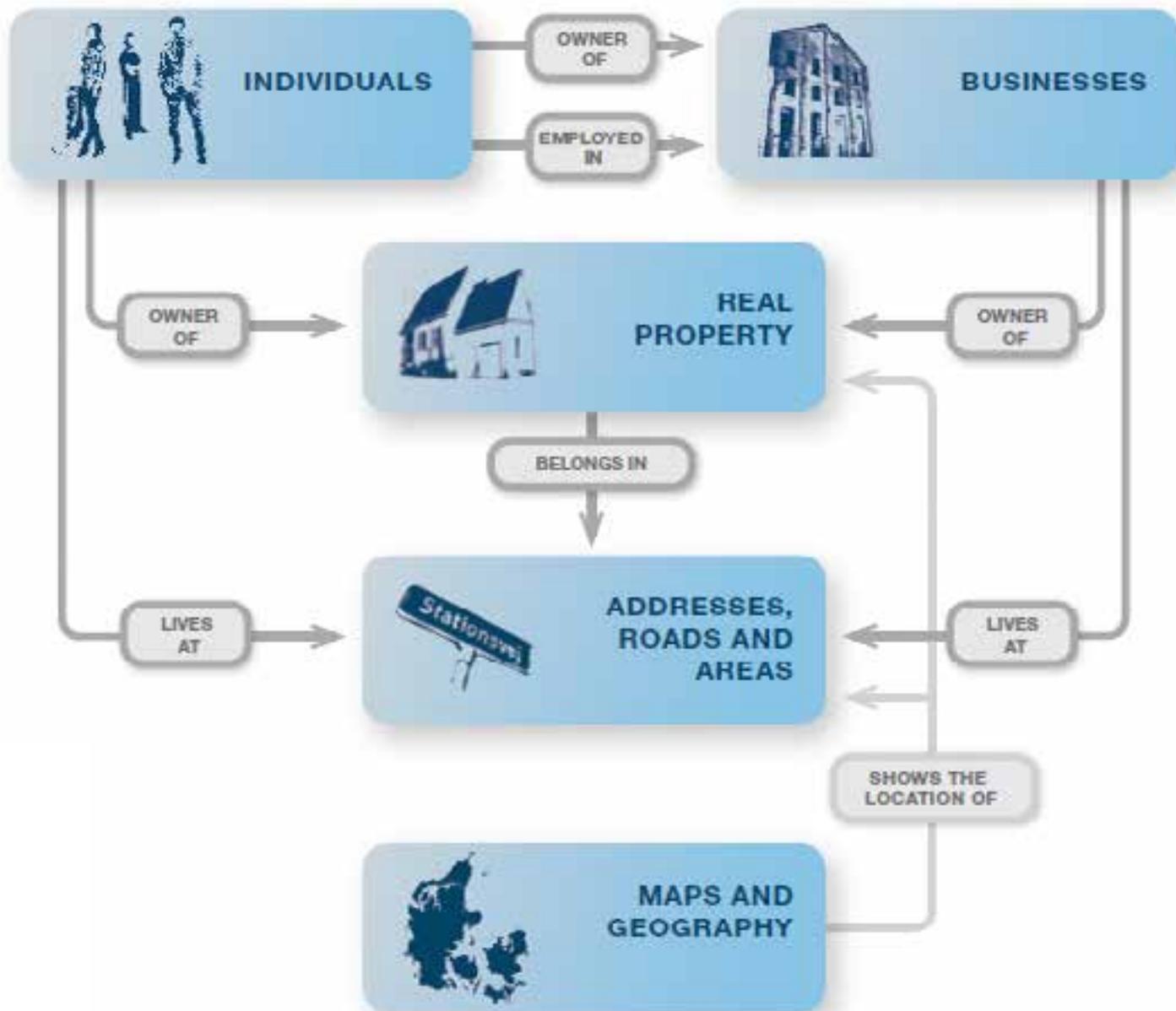




THE eGOVERNMENT
STRATEGY 2011-2015

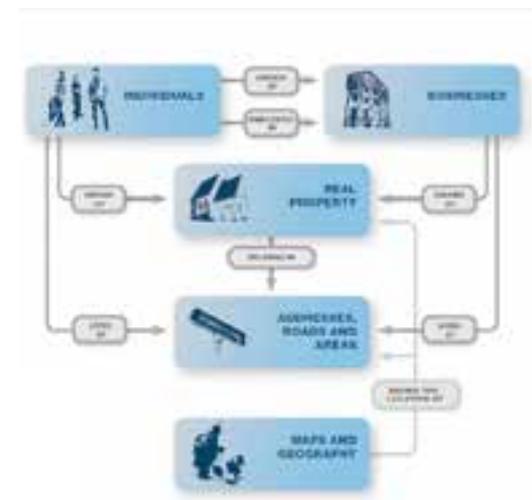
THE DANISH GOVERNMENT /
LOCAL GOVERNMENT DENMARK
OCTOBER 2012

**GOOD BASIC DATA FOR
EVERYONE – A DRIVER FOR
GROWTH AND EFFICIENCY**



Important objectives

- Basic data needs to be as correct, complete and up-to-date as possible
- All public authorities must use public-sector basic data as far as possible,
- Basic data (excluding sensitive personal data) must be made freely available to businesses as well as the public
- Basic data must be distributed efficiently, accommodating the needs of the users.



GENERAL PUBLIC, BUSINESSES AND THE PUBLIC SECTOR



SOLUTIONS
E.G. TRAFIKKEN.DK AND UDINATUILEN.DK

INTEROPERABILITET

THE INTERNET
CONNECTION COMPONENTS – e.g. GIS STREET (SHOWING THE LOCATION) AND NEMID (DIGITAL SIGNATURE)
SERVICES – e.g. DORTFOR TANGEN (THE DIGITAL MAP SUPPLY)



Geographical names (Place names)

Digital elevation model

Administrative units

Geographic grid system

Cadastral Parcels

Location based services

Coastline

Natural areas (forests, etc.)

Roads, Railways and ferry routes

Location based buildings

Location based technical facilities

Streams, waterbodies and sea areas

INSPIRE

MAPS AND GEOGRAPHY

INITIATIVES

EASY
EM

Today, data on Denmark's natural resources and environment can be found on **Danmarks Miljøportal (Denmark's Environmental Portal)**, and local planning data in **plansystem.dk**. Metadata can be found on **geodata-info.dk**. We intend to coordinate or combine these solutions so that users will experience them as one cohesive resource.

SHARED ENVIRONMENTAL DATA

Environmental data includes detailed information on Denmark's waterways, forests, soil pollution, town planning, fauna, water table, protected areas, open-air activities, air pollution, and use of chemicals and pesticides.

Municipalities, regions and the government cooperate to provide reliable environmental data for citizens, companies and the authorities themselves. Today, data on Denmark's natural resources and environment can be found on Danmarks Miljøportal (Denmark's Environmental Portal), and local planning data in plansystem.dk. Metadata can be found on geodata-info.dk. We intend to coordinate or combine these solutions so that users will experience them as one cohesive resource.

Five focus areas for basic data

- Quality and interoperability
- Metadata and standardization
- Distribution
- Rights (payments)
- Guidelines and legislation regarding the use of authoritative basis data

“Inspired by” INSPIRE principles!

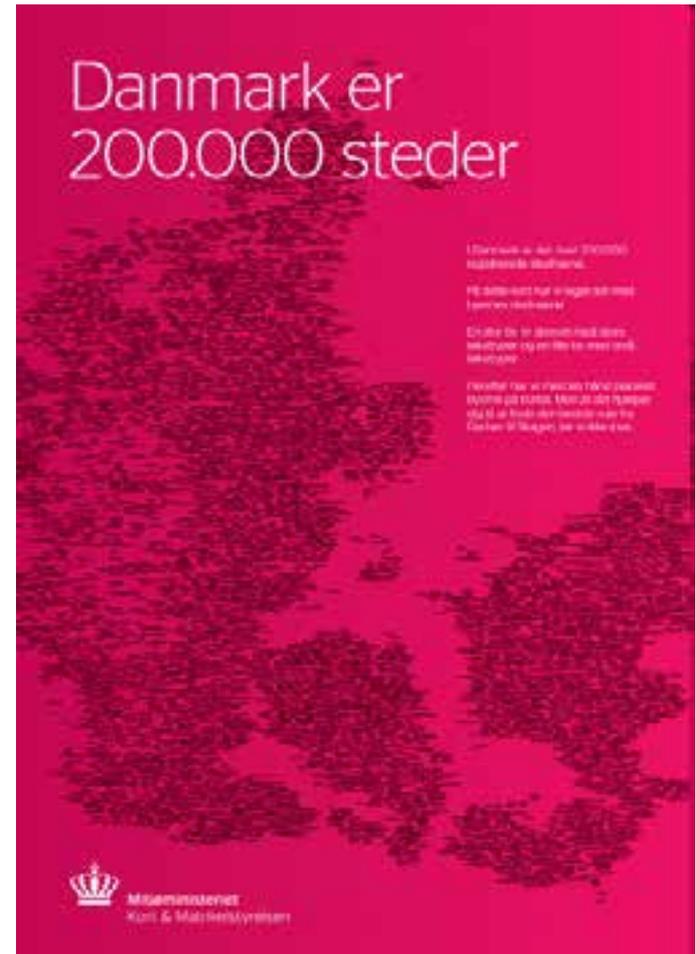


Geographical Names (Place Names) (KMS)

Problem: Geographical names in many different registers - with no unique georeference or uniform way of spelling.

This results in imprecise communication between ministries, municipalities and citizens, thus costing time and resources

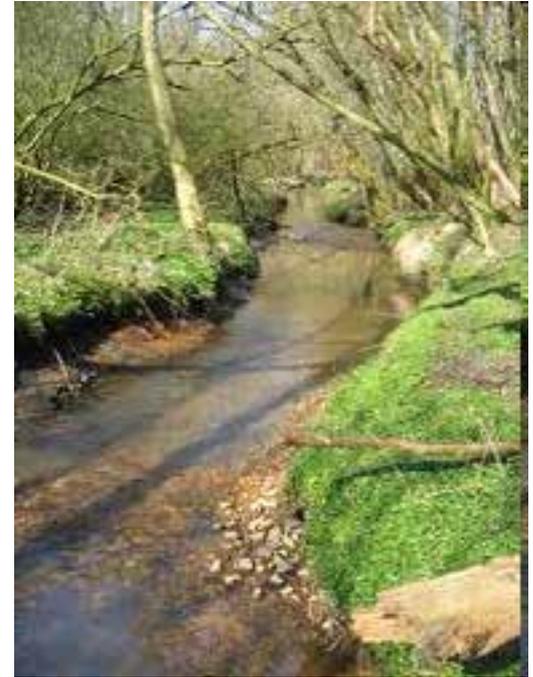
Solution: One national register on Geographical Names - authoritative basic data



”Hydrography” (KMS)

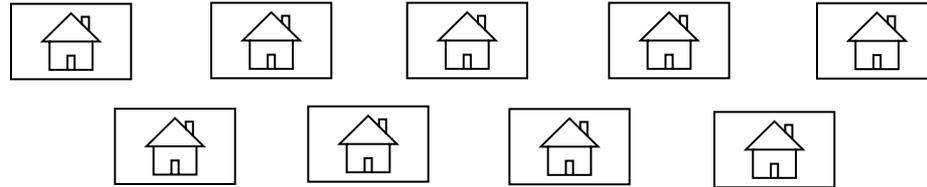
Problem: Today the same basic data on streams and water bodies are registered using different specifications and standards - no consistency across authorities.
In the context of e.g. climate changes this is problematic

Solution: One nationwide registry of streams and water bodies. This will increase quality and efficiency of public management, protection and monitoring of the aquatic environment and flooding.

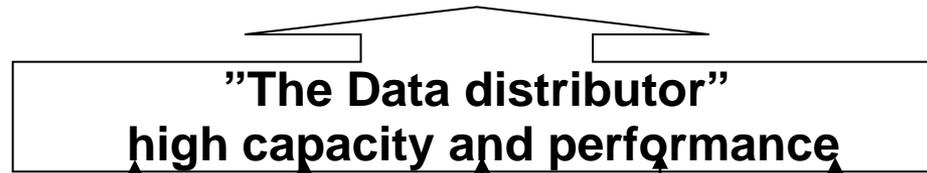


Architecture basic data distribution

Users
Public, private...

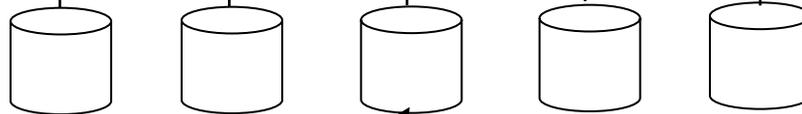


Distribution of data

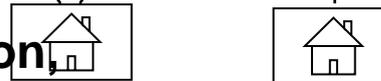


Replication in near real time

Basic data



Authorities with responsibility - collection, reporting and maintenance of data



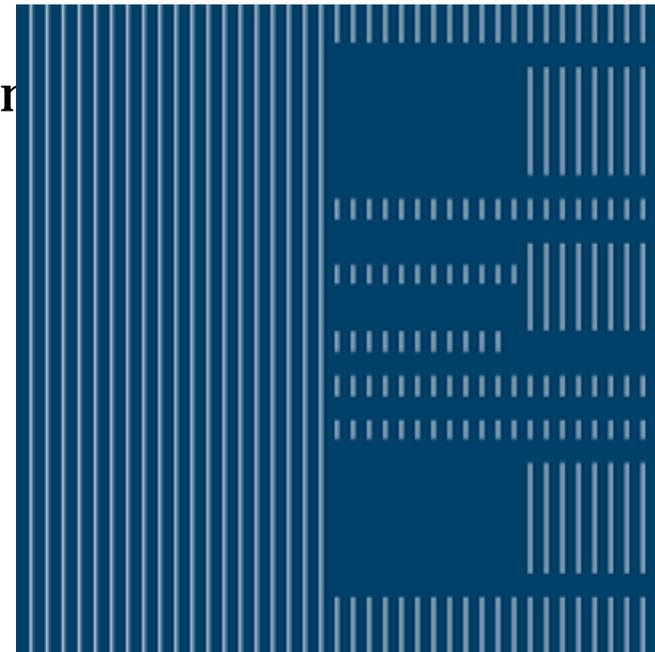
Business cases in DK – we have tried it before

In 2002 address data was made freely available in DK.

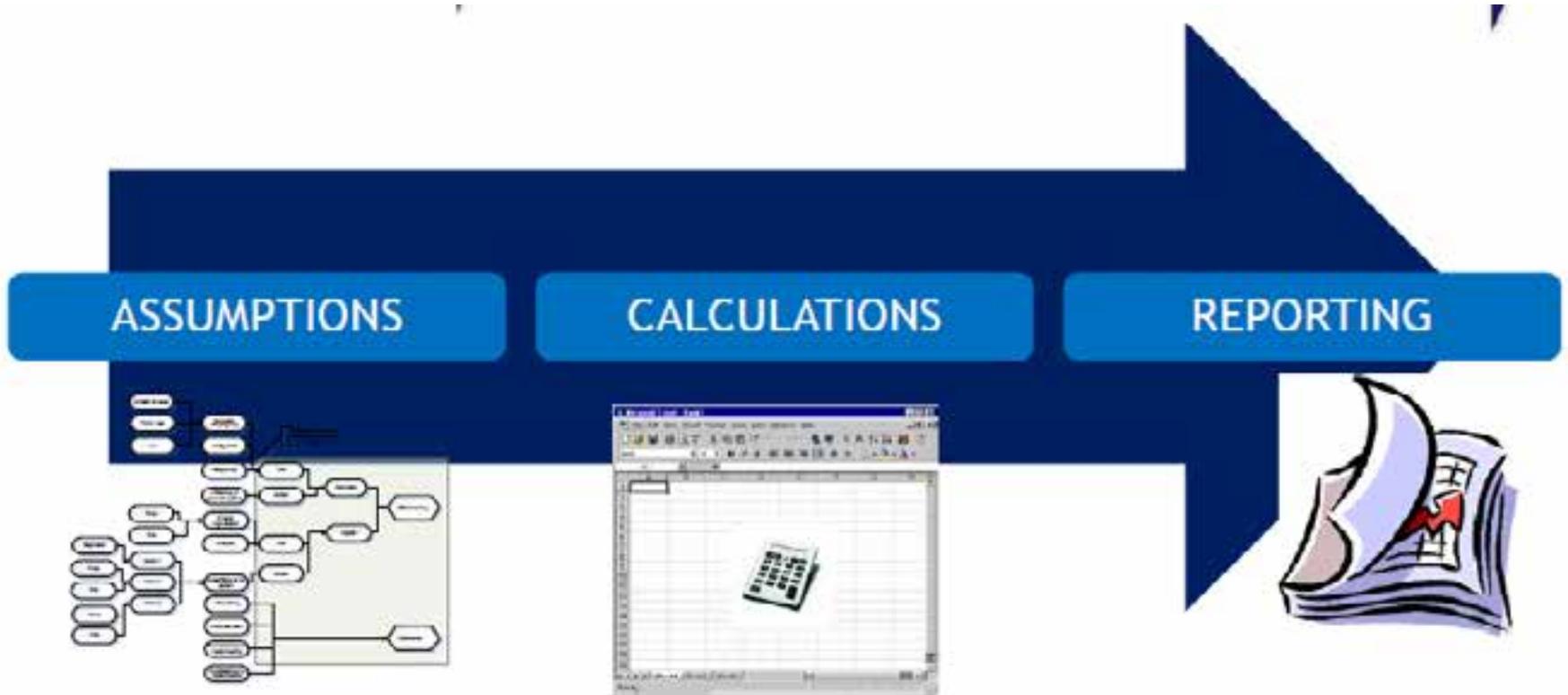
Decision was based on a very positive Business Case.

An analysis has been calculated the societal gains in the period 2005-2009 to DKK 471 million

The Public Sector save alone DKK 38 million on not having to negotiate agreements, manage rights, etc..



Three step BC model

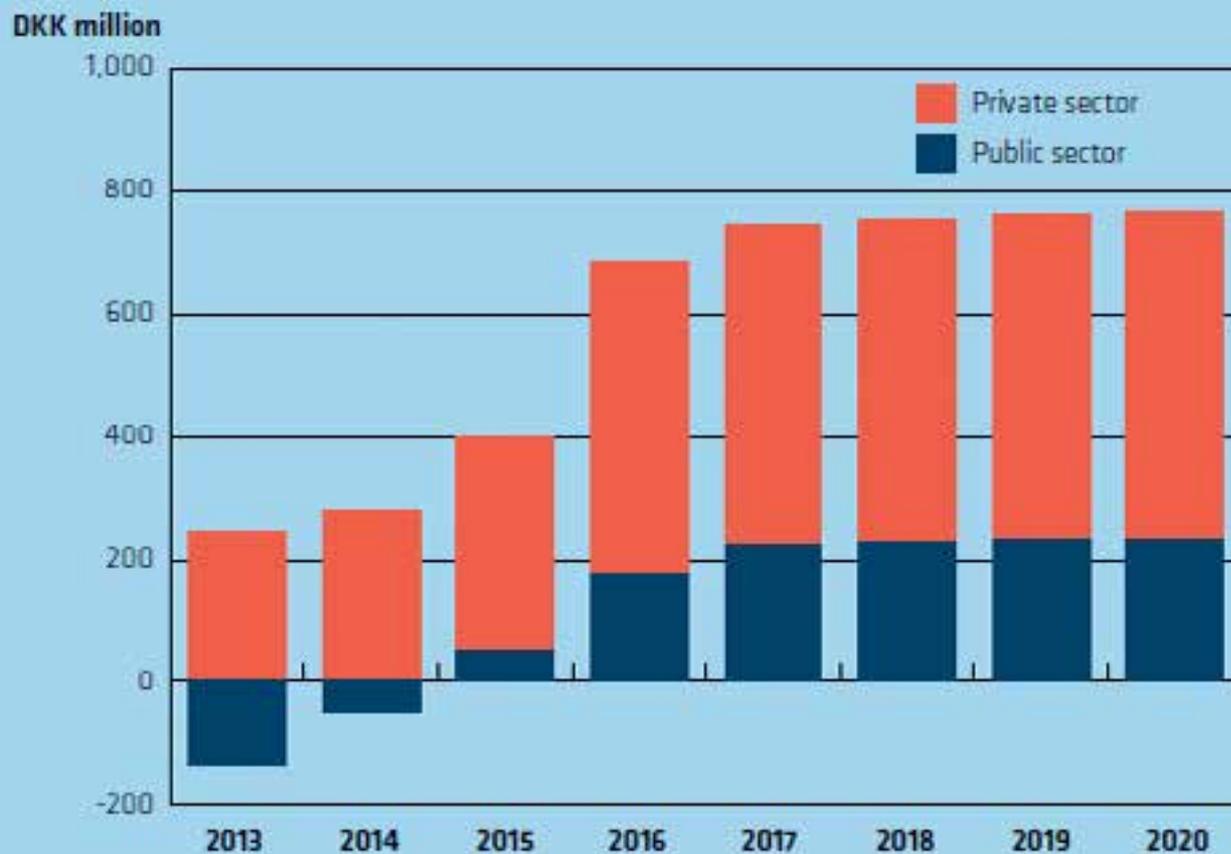


TOTAL PUBLIC-SECTOR NET SURPLUS/DEFICIT

DKK MILLION	2013	2014	2015	2016	2017	2018	2019	2020
Ministries	108	81	50	26	3	9	29	42
Municipalities	-24	24	79	143	165	169	174	175
Regions	1	11	23	33	43	43	43	43

Danish BNP 2010 DKK 1.743 bn.

TOTAL NET SURPLUS/DEFICIT, BY SECTOR



The Danish government and Local Government Denmark entered into an agreement on basic data

Open access to public-sector basic data for everyone,
including enterprises and individuals (2013-14)

A common single distribution solution: the Data
Distributor (2014)

Initiatives for real property, address, geographic,
personal and business data (2013-15)

The establishment of a cross-institutional basic-data
committee (2012)

Analyses of new areas of basic-data relevance (2013-)

Investments of approx. EURO 125 million up to 2016

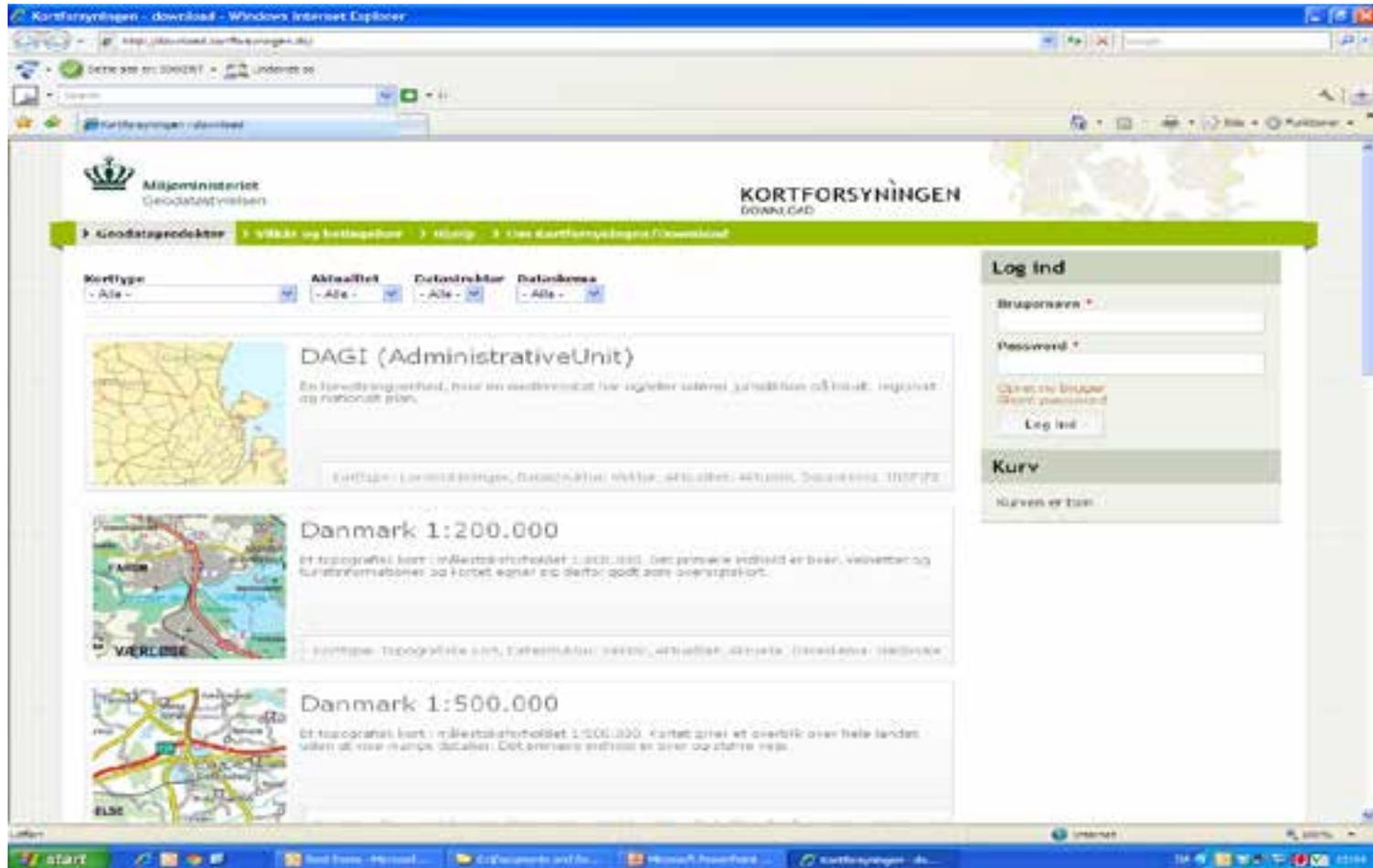


Taking it a bit further

Danish Geodata Agency and local governments is expanding free data:

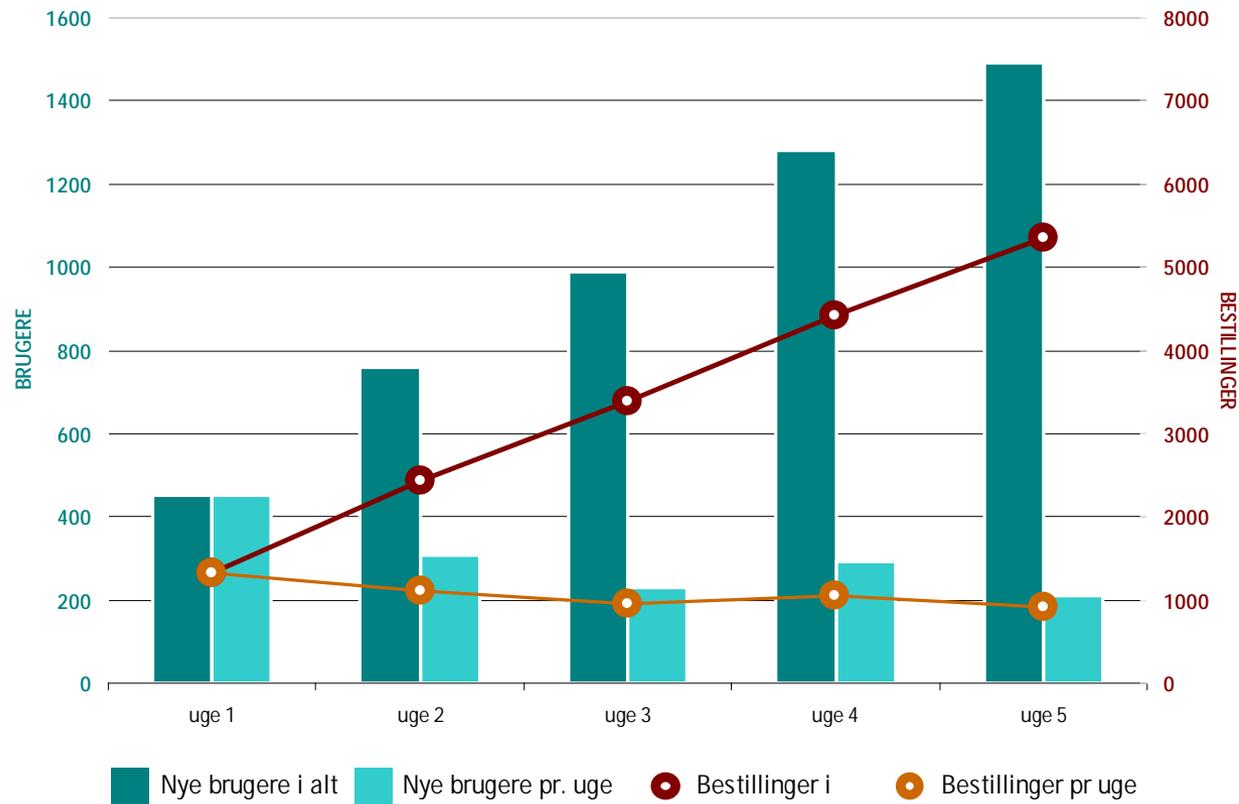
- current and historical topographic data
- cadastral map
- Danish Elevation Model with updating
- Other relevant administrative geodata
- financed through the yearly budget negotiations

Digital Map Supply/Download



Statistics

Digital Map Supply/Download - **1500 new USERS**



eGovernment Basic Data Coordination

Steering Committee for Inter-Government Cooperation

Steering Committee for eGovernment programme

Basic data governance board

Domain governance board

NSDI Coordinating Committee

Chair: Ministry of Environment - GST

Representatives from: State, regions, municipalities, universities, private sector



Conclusions and Reflexions

The big INSPIRE benefits are linked to Egov – we implement without specific budget – and municipalities – they are coming along now via Egov

FM has been convinced of the INSPIRE effect - major importance that the DK BC is from the FM – if they believe it so do everybody else.

Main assumption is the releasing of basic data in order to reach the great potential in the private sector

The secondary values – safer environment, more democracy – are important – place it on the political agenda

The difficult seed harvest problematic – pyramid effect – everybody” should harvest - the costs up stream!

We implement very differently – DK entangled with Egov – makes it very difficult to estimate “pure” INSPIRE C/B

BCs are politics



Where to get information:

Danish Agency for Digitisation:

<http://www.digst.dk/ServiceMenu/English>

Danish Geodata Agency: <http://www.gst.dk/English/>

FOTdanmark (Association between Danish Geodata Agency and the Danish Municipalities on unified topographic mapping of Denmark)

<http://www.fotdanmark.dk/Service/In+English>

The Danish Natural Environment Portal:

<http://www.miljoportal.dk/English/>

Metadata: <http://geodata-info.dk/Portal/>

Data on spatial planning: <http://www.plansystemdk.dk/>



Thank you for your attention





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Danish Geodata Agency

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