







Examples of best practises Denmark

Ulla Kronborg Mazzoli,
Chief Advisor
Danish Geodata Agency
National INSPIRE Contact Point



Outline

Hvala tibi..... What a great initiative

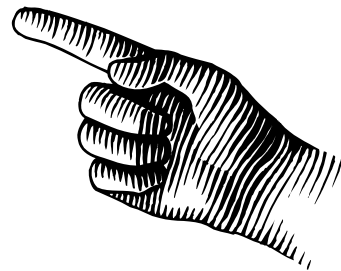
-  A bit of context
-  INSPIRE status in DK
-  Why everything is about governance
-  Distribution – central vs. decentral



10+ years of eGovernment development

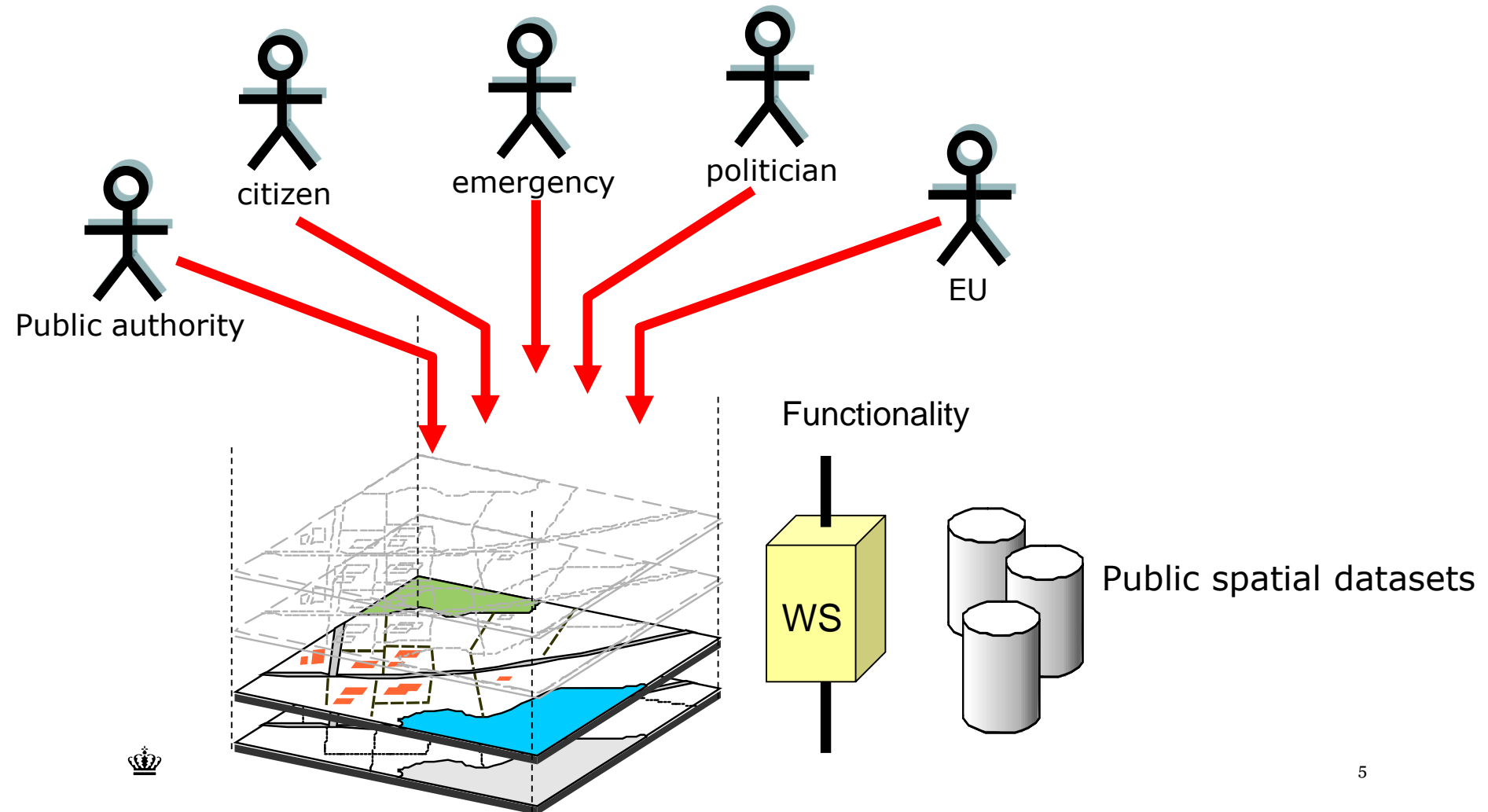
Corporation between central government, regions and municipalities

15+ years of SDI development





The concept – a shared information window





Responsible: Ministry of Finance!!

THE eGOVERNMENT
STRATEGY 2011-2015

THE DANISH GOVERNMENT /
LOCAL GOVERNMENT DENMARK
OCTOBER 2012

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

Open Data



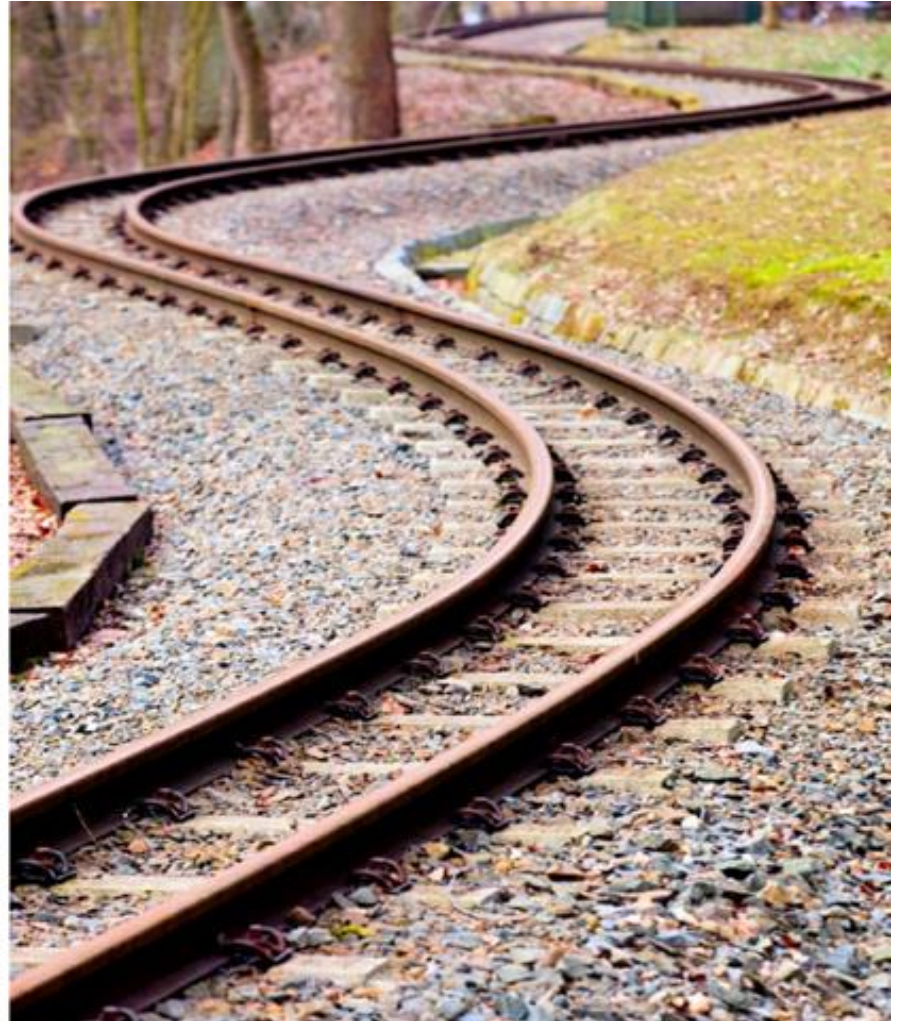
Status

It was “easy “ with annex 1

- Political momentum and the Basic Data Program
- Few data owners / mainly us



No efficient eGovernment without geodata



But....

Annex 3 is a different matter

We really need a



Annex	Data specification	Authority
2	Elevation	National Survey and Cadastre
	Land cover	Nature Agency
	Ortho-imagery	National Survey and Cadastre
	Geology	Geological Survey of Denmark and Greenland, Nature Agency
	Statistical units	National Survey and Cadastre, National Board of Health
	Buildings	Enterprise and Construction Authority, National Survey and Cadastre
	Soil	Food Industry Agency, Danish Regions, Geological Survey of Denmark and Greenland
	Land use	National Survey and Cadastre, Food Industry Agency, Nature Agency
	Human health and safety	National Board of Health
	Utility and governmental services	Nature Agency, Energy Agency, National IT and Telecom Agency, Environmental Protection Agency
3	Population distribution – demography	Statistics Denmark
	Area management/restriction/regulation zones and reporting units	Environmental Protection Agency, Nature Agency, Maritime Authority, National Survey and Cadastre
	Natural risk zones	Nature Agency, Coastal Authority, Geological Survey of Denmark and Greenland, Emergency Management Agency, Weather Institut
		Emergency Management Agency, Weather Institut
	Atmospheric conditions/ Meteorological geographical features	Weather Institut
	Oceanographic geographical features	Weather Institut, Maritime Safety Administration
	Sea regions	Nature Agency, Coastal Authority
	Bio-geographical regions	Nature Agency
	Habitats and biotopes	Nature Agency
	Species distribution	Nature Agency
	Energy resources	Energy Agency
	Mineral resources	Geological Survey of Denmark and Greenland, Nature Agency, Danish Regions

What do we hear

HELP

No knowledge of geospatial modelling

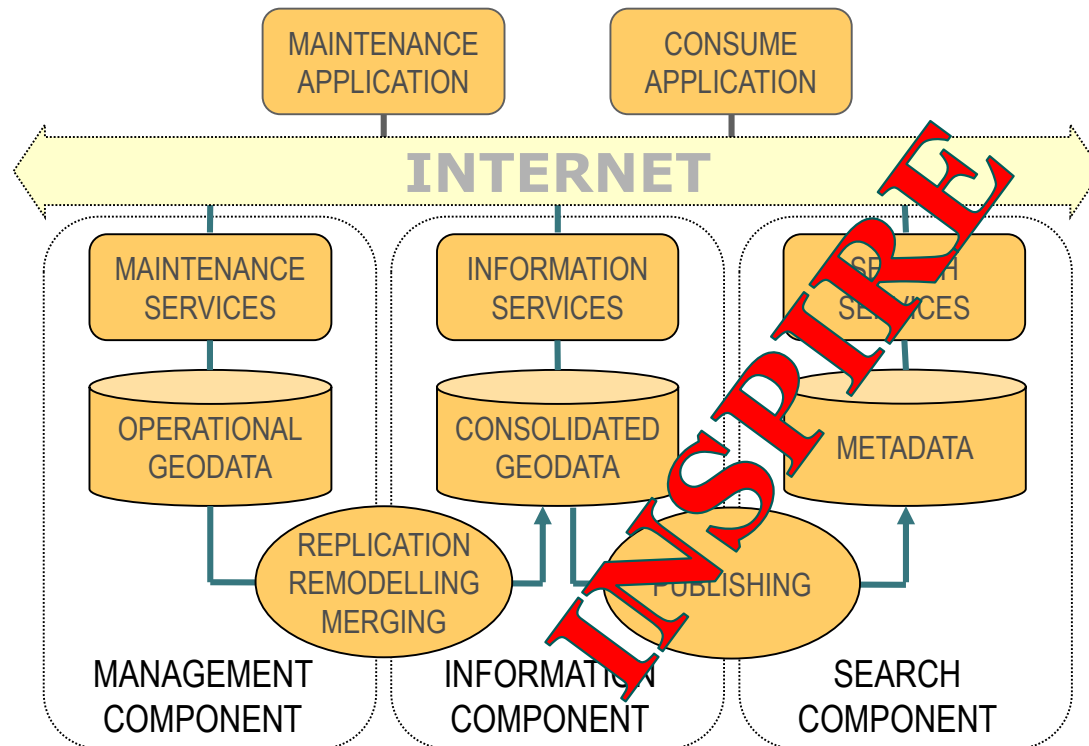
Few skills in setting up web services

Resources vs. amount of data sets

What to do?



SDI - Reference Architecture



Common data distribution

Basic data should be available in a simple, efficient and stable manner

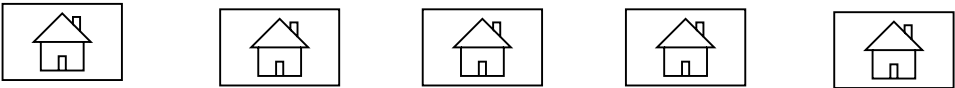
Costs of distribution should be reduced

Solution: A common data distribution

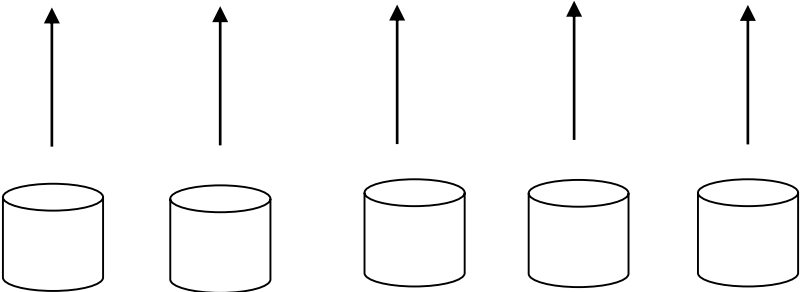
Guaranteed up time and performance



Users

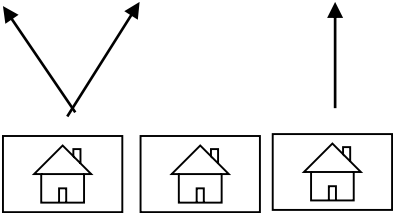


Replication in near real time

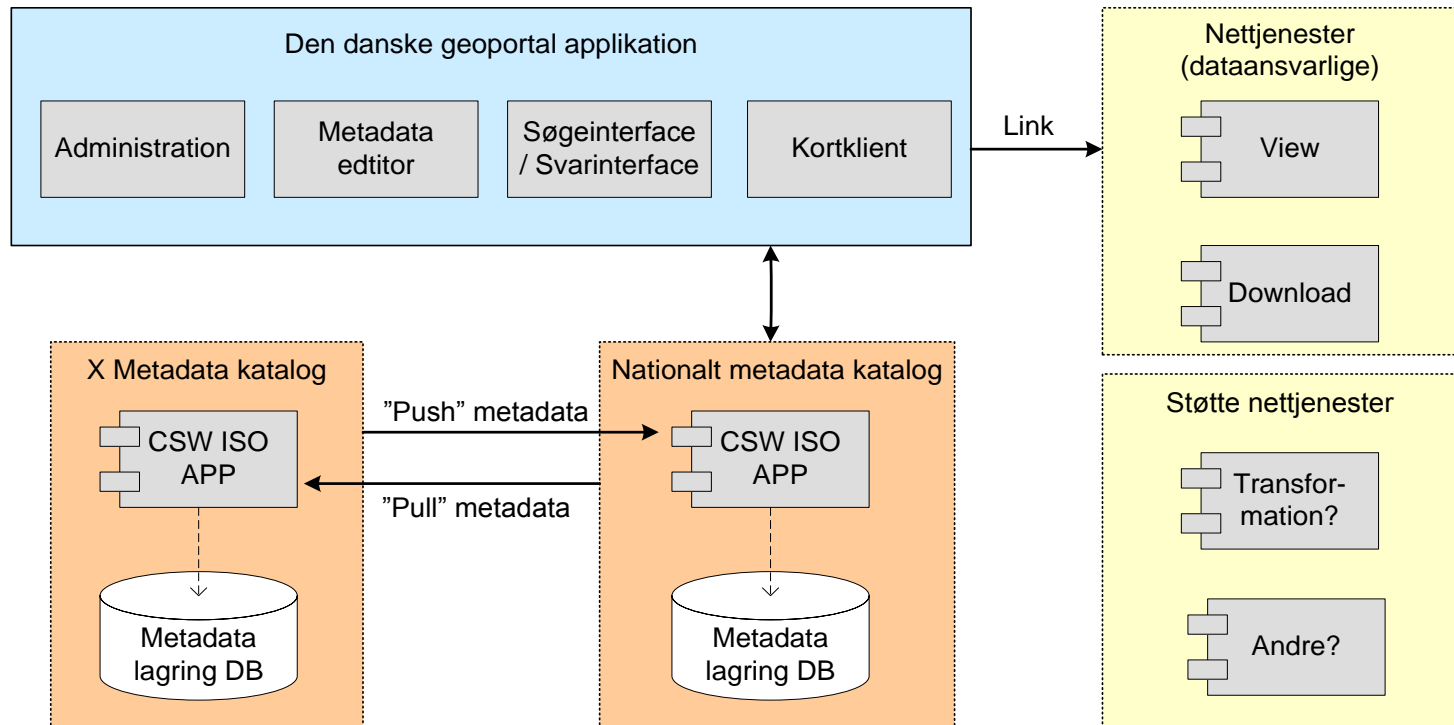


Basic data

Basic Data Authorities



Decentralized responsibility for implementation - architecture

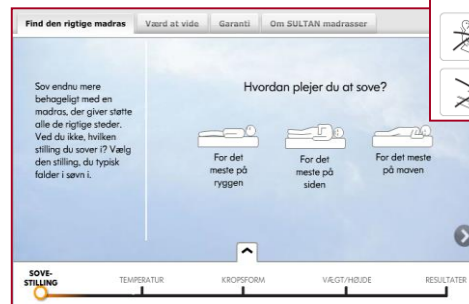
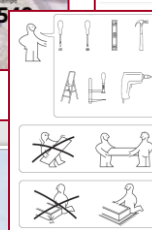
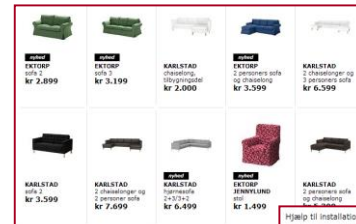


We learned...

Transparency

Comprehensibility

Usability



The aim



GENERAL PUBLIC, BUSINESSES AND THE PUBLIC SECTOR



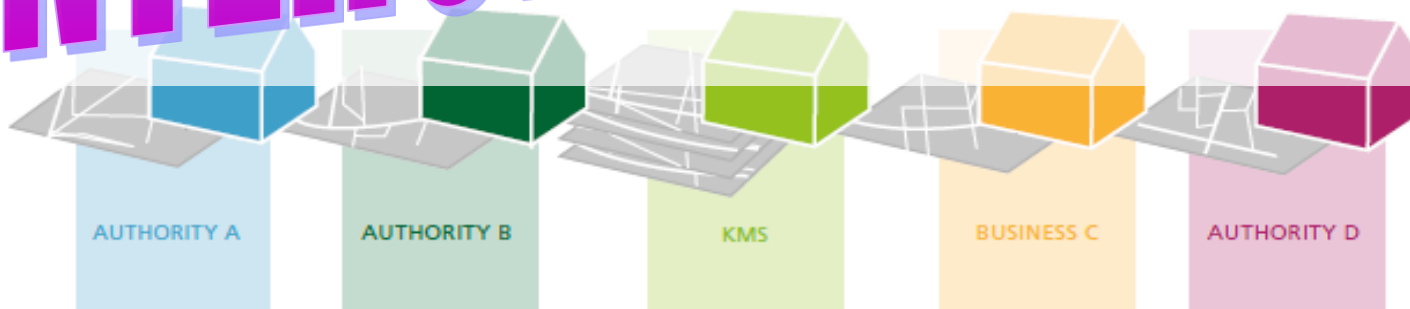
SOLUTIONS

E.G. TRAFIKKEN.DK AND UDINATUREN.DK

THE INTERNET

COMMON COMPONENTS – e.g. VIS STEDET (SHOW THE LOCATION) AND NEM-ID (DIGITAL SIGNATURE)
SERVICES – e.g. PORTFOLJEN (THE DIGITAL MAP SUPPLY)

INTEROPERABILITET



We have learned



Governance is the critical SDI enable

The 'social' nature of SDI

- Multiple stakeholders
- Cross-enterprise and cross-border
- Fragmented control/ownership of components
- Sow / Harvest schism
- Fragmented control/ownership of components
- Tensions between flexibility & standardization
- Fragmented control/ownership of components

Requires **agreement** within communities

Requires joint **decisions**





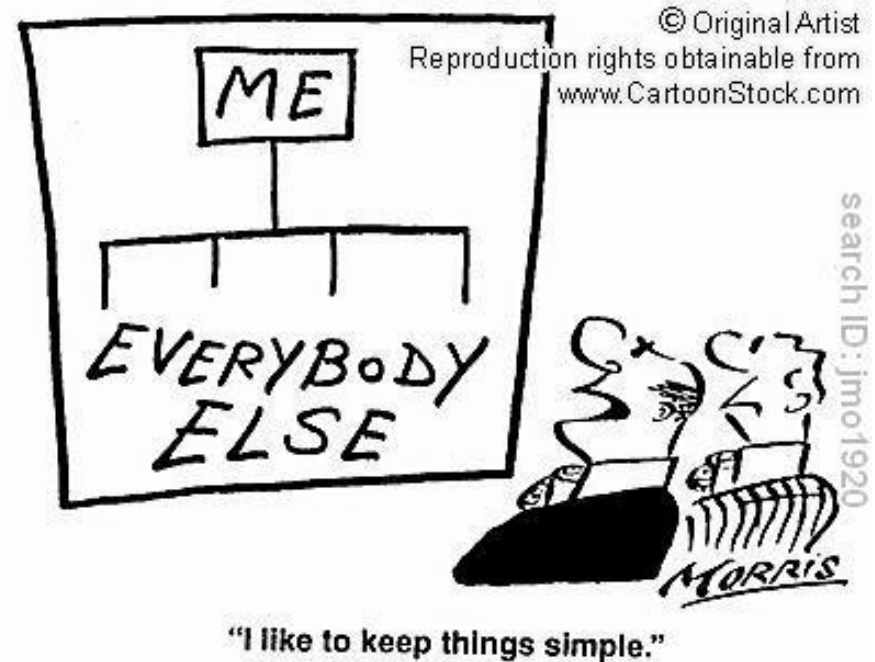
But.....

Governance is just a fancy word encompassing all the things we do to organize ourselves, make plans and decisions together, get things done, and resolve conflicts.



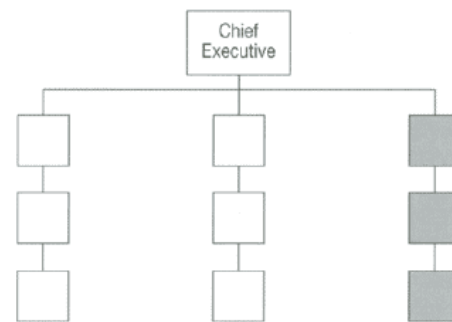
So governance comprises

- Authority structures
- Roles and relationships
- Rules and policies
- Processes and mechanisms

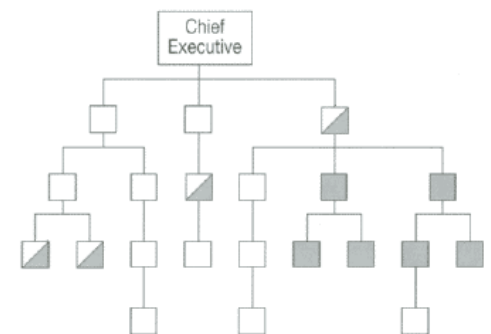


Governance is about decisions

- Structure must be clear and agreed upon
- Transparent
- Operational
- Can be organized in many ways



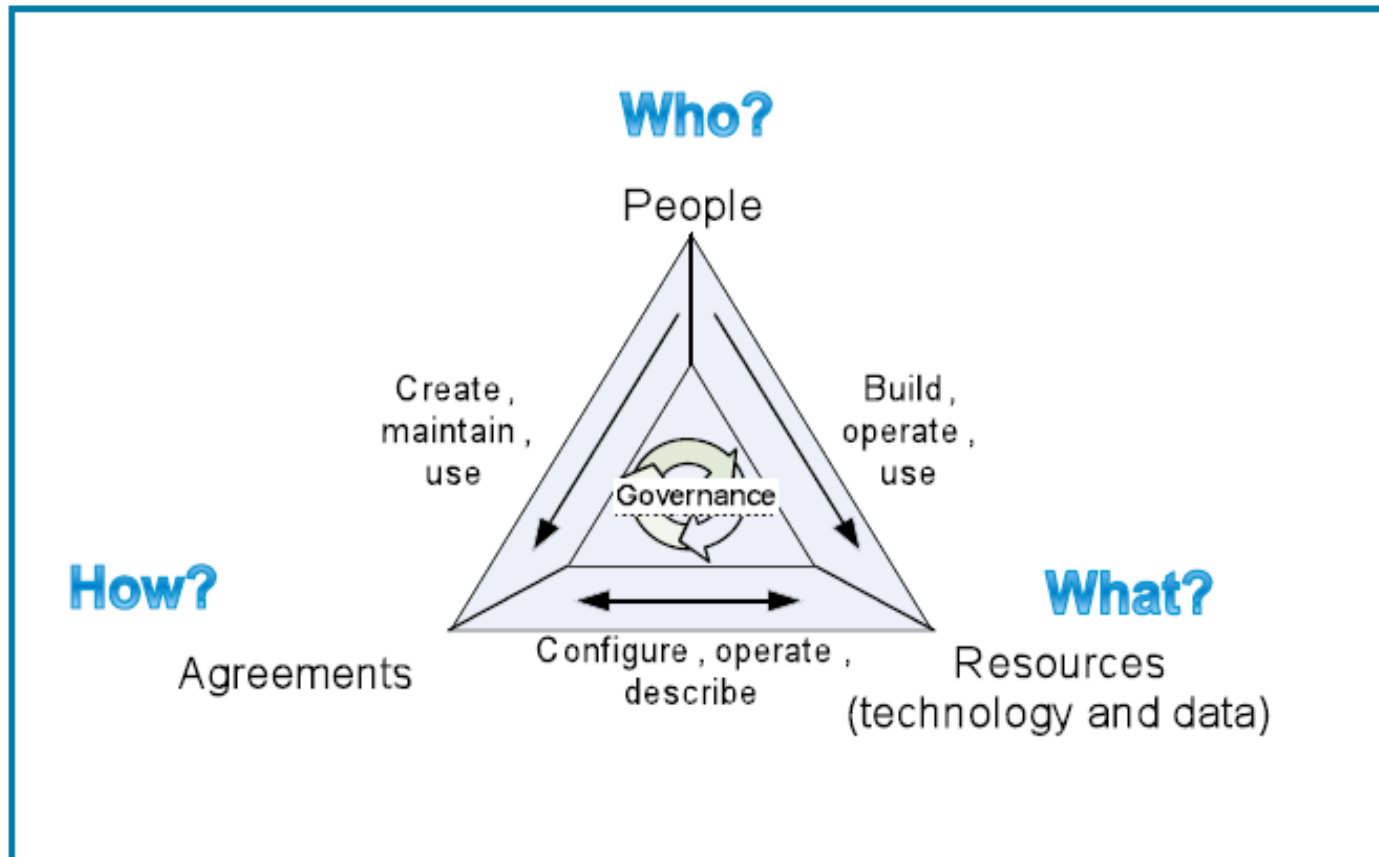
The traditional vertical structure



A more horizontal directorate-style structure



SDI governance dimensions



When?

Lifecycle and status of resources and agreements under constant change



Who's who in the infrastructure?

- Data provider
 - Service provider
 - Application provider
 - User
-
- Governance - coordinating/steering board e.g.



New kid in town.....on governance

Datadriven public administration

Data is an asset

Data need managing just as any raw material

Data owner task

No distribution with out data modelling

We have learned...

Maturity differs a great deal among the data owners





What to do?

We establish and INSPIRE bank

We model (with the data owners)

We host

We distribute

We charge.....

A way to hook up to the shared NSDI and be INSPIRE compliant

A helping hand in building up skills and capacity



Summing up

Still need to link INSPIRE to the national digital agenda

Still work on good use cases and benefit for the data owners

Still be flexible and pragmatic – as well as reaching the goal

Lend a hand to the data owners on data management...

Still a lot of work

let us learn from each other



Intensions

Reality?



Thank you for your attention

