

Workshop 5b

Issues in interoperability

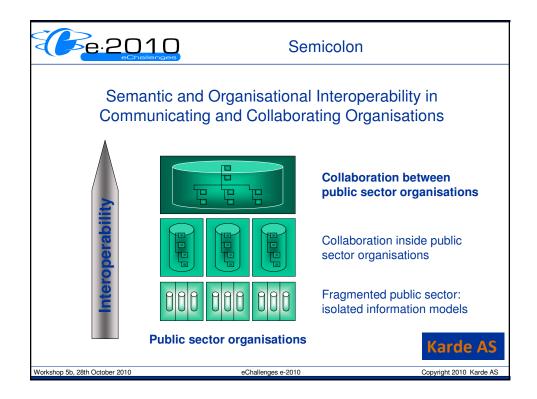
Results from the Semicolon-project

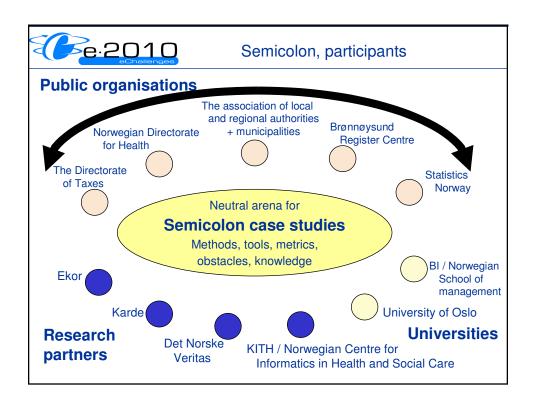
Terje Grimstad Karde Norway

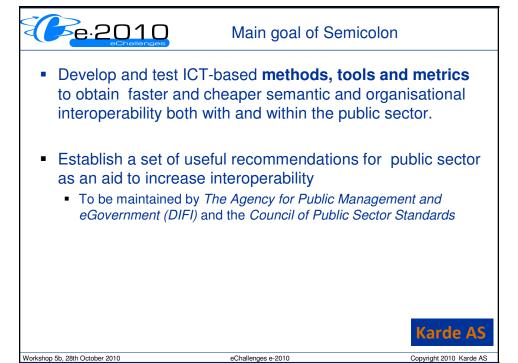


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Some results

To be presented in this workshop:

- an analyses of organisational barriers to interoperability and recommendations for correcting measures (Hellman)
- the importance of information governance and metatdata strategies for cross-sector services (Grimstad)
- contributions to cross-sector services to citizens and businesses (Thorstensen)
- a growth model indicating the level of maturity for organisational interoperability (Solli-Sæther)

Other:

- a methodology and a technology for publication and reuse of open public service information
- a methodology and indicators to predict societal effects of common components in the public ICT infrastructure



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Facts

- User directed innovation projects
- Verdikt-programme in the Norwegian Research Council
- Web-site: www.semicolon.no
- 3 years, Oktober 2007 December 2010
- 3 postdoctors, 2 from UiO and 1 from BI
- Total budget: 7,5 mill euro (60 million NOK)
- Financing from Research Council: 2,25 mill euro (17,65 mill NOK 35%)
- Contributions from public sector (money): 1,25 mill euro (9,8 mill NOK)
- Contributions from public sector (labour): 4 mill euro (18,4 mill NOK)
- Contact person:
 - <u>terje.grimstad@karde.no</u> (project leader)

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Information Governance and Metadata Strategies as a Basis for Cross-sector e-Services

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Motivation, problem area

In most countries it is an important goal is to provide a public sector which is

- Open
- Transparent
- Accessible (e-inclusion)
- Accountable
- · User-friendly
- Service-oriented
- · Efficient and effective
- Innovative
- · Adaptable to change
- · Satisfying rule of law principles

One important element

· Increased interoperability



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National budget 2010

The Government emphasises:

- To modernise public sector
 - Services of good quality are vital for the acceptance and support of public service solutions
 - Public service production needs to be more efficient due to ageing of the population and the ability to meet increased demands and expectations to public services
- To support innovation in businesses and public sector
- Simplification of public law and regulations
 - Simplification and electronic services contributes to the reduction of administrative costs, to increased predictability for the users and to more efficient execution of public activities



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- · Public sector is based on information
 - capture, processing, decisions, production of new information
- Automatic decision processes requires high quality information
- Good or excellent Information Governance is a critical success factor for public administration
 - Simplifies the development of cross-sector public services
 - Necessary requirement for the reuse of Public Service Information
 - The re-use of Public Sector Information, e.g. Review of Directive 2003/98/EC – [COM(2009) 212 final]
 - PSI represents a commercial value of 27 billion euro per year in the EU
- Systematic work with metadata and semantics is a prerequisite for good information governance
- Local, national and international metadata strategies supports systematic work
- There is a need to be able to predict effects, both quantitative and qualitative

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Some additional points

- Control of metadata and semantics is not the only answer to all the challenges
- However, it is difficult to imagine good and rational solutions without a conscious considerations of metadata and semantics
- · Other important issues:
 - Enterprise model for the description of production processes, which systems supports which processes, the relation to laws and regulations, and responsibilities
 - Metadata and semantics defines the information on which the processes operates
 - Competence development
 - Involvement of business
 - Adequate service development tools and methods



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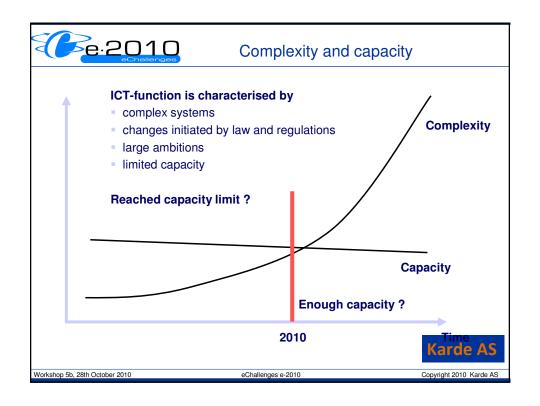


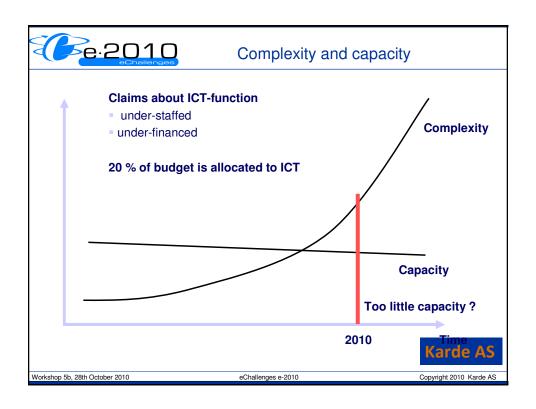
- Strategies are also about collaboration with others, national and international
- In practice Rather poor collaboration with others
- · Quality challenges in the production
- Capacity challenges (claim: ICT is under-staffed and under-financed)
- · Not adequate overview of own systems and information
- Huge maintenance costs due to complicated systems
- Stove-pipes inside large public organisations and externally between organisations

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Norwegian initiatives

The following initiatives and activities have been used as Background and inspiration:

- 1. Altinn, portal and infrastructure for businesses and citizens
- 2. MyPage, portal and infrastructure for citizens
- 3. SERES, national semantic register
- 4. eDialogues, a concept for the implementation of cross-sector services to citizens and businesses.
- 5. Experiences from Statistics Norway
- 6. Two preliminary efforts to provide requirements for a national metadata strategy.
- 7. Ongoing work to define a national metadata strategy.



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Methodology for communication

- We need to convey a convincing, trustworthy and understandable message in order to get the necessary management attention and financial support for metadata and semantic exercises.
- The effects of systematic use of metadata across the public sector must be expressed in a language understood by top management, with qualitative and quantitative measures.
- The effects, which are both internal and external for the public organizations, have to be clearly documented.



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Public sector strategies

About Openness:

The organisation should be the preferred source for information;
The organisation must protect privacy.

About Innovation:

 The organisation should provide Better services for citizens and businesses.

About a User friendly public sector:

- The organisation must take the initiative and take part in crosssector service development
- The organisation should contribute to service developments in other sectors.



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Public sector strategies

About Quality culture:

- The organisation should improve existing services
- The organisation should work more effective and efficient.

About Competence culture:

- The organisation should develop competence in a systematic way
- The organisation should transform individual knowledge to common knowledge
- The organisation should build, use and share knowledge

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Letter of instruction

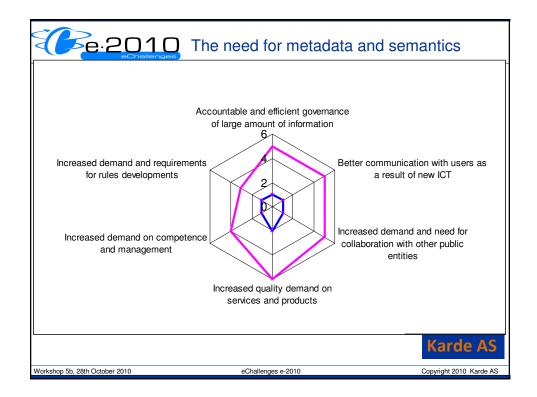
Typical requirements to a public service organisation

- It must provide accountable and efficient governance of large amount of information.
- It must provide better communication with users as a result of new ICT.
- It must position itself to support increased demand and need for collaboration with other public entities.
- It must position itself to increased quality demands on services and products.
- It must position itself to increased demand on competence and management.
- It must position itself to increased demand and requirements for rules developments.



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Internal effects

- By working with Information governance in a structured manner, business becomes deeply involved in the definition of concepts. This in turn leads to better alignment between the business processes and the ICT-solutions and the ability for businesses to develop services with lower degree of ICT.
- 2. Individual knowledge is transformed to common knowledge. This is due to better documentation, i.e., overview of information, systems and processes.
- Due to better documentation, the organization becomes more independent of specific resources and more robust to the exchange of personell.
- Less production errors, this, as a side effect, implies less negative attention in media.
- 5. More efficient service development, more efficient systems development and maintenance, easier adaptation of systems to new rules and legal constraints.
- As a consequence of all effects, the competence and capacity in staff increases without employing more people. The ability for innovation increases.



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External effects

- 1. The publication of own information in such ways that it can be reused both for cross-sector services and for commercial services.
- 2. Avoidance of double reporting obligations for citizens and businesses.
- More effective and efficient cross-sector service development.
- 4. Improved implementation of rule of law principles.
- Improved interoperability.

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Recommendations for public sector

- Increase the understanding of national and international metadata strategies.
- Visualize important elements of information governance and metadata strategies so that they are understood by top management.
- Visualize the importance of metadata strategies for the re-use of Public Sector Information, e.g. Review of Directive 2003/98/EC [22], which claims that PSI has the potential for an immense commercial value.
- Predict effects of systematic work with metadata and semantics.
- Visualize the necessity of metadata strategies for the development of cross-sector services.
- Visualize the need for a new or existing public agency with the role of operating a national metadata service with a clear mandate from the ministries.



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What has happened?

- National budget for 2010
 - 4 million euro allocated for metadata work
 - 3 million for Brønnøysund Register Centre, to build SERES
 - 1 million for Tax Authorities, to support Altinn
- National budget for 2011
 - 4 million euro allocated for metadata work
 - 2 million for Brønnøysund Register Centre, to operate SERES
 - 2 million for Tax Authorities, to use SERES for internal Information governance



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