«Norway digital» - a core fundament for value adding

White paper about a public infrastructure for geographic information

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Digital information = increased value

Value of geographic information in digital form

Search, entry, analyse,
decision-making,
decision-making,
communication,
presentation,
paper
maps

GI-Value for Society Many areas of applications for Geographic Information

- Municipal management
- Land transportation (route planning and fleet administration)
- Shipping and fisheries (navigation)
- Agriculture and Forestry (planning)
- Defence and crisis handling
- Telecomm, energy- and road administration
- Environmental and resource management
- Oil protection
- Property management
- Media
- Recreation
- Map production



OBJECTIVES to «Norway digital»

- More efficient private sector i. g. within transportation at land, sea and in air
- More efficient public sector, better service to the public, better decision-making, increased participation (LA 21)
- Better management of areas environmental and natural resources
- Increased safety and readiness

Content of «Norway digital»



Other special data

Meta data for the users

- Data content (what)
- Data coverage (where)
- **Expanding plans**
- Quality (standard, format, updating etc)
- Deliveries , price, licensing
- Product contact
- Search keys

Standards

Terminology Global and national reference system, co-ordinate system **Data descriptions** (data types, - models, - format) Interaction keys Graphic presentation Quality description Metadata description

Standardised solutions

For beneficial use of geographic information in society; (public or business, partners, distributors, value added business, end users) there is a need of modern and efficient solutions that are compatible with commercial software on the market



Standardised interface and data format must secure integration and interoperability with the users need. The interface must be developed in co-operation with the users.

IT-POLICY FOR MUNICIPALITIES

Municipalities and counties ought to take part in the development of national geographic information systems that can contribute to increased value for society. Establishment of such information systems must be based on agreements between municipalities and the national government where these are equal partners with equal rights to the use of data.

From the IT-policy of the Association of Municipalities

County Geodata Co-operation

Endeavour

- Joint mapping following annual geodata plans
- Establishing and updating of primary data according to Joint-use Map Database (FKB) standard
- Joint use of databases
- NOK 90 million (1999)

Players

- Municipalities
- Public Road Administration
- Telenor (telecom)
- Electricity companies
- Agriculture
- NSB (railways)
- Norwegian Mapping Authority









Geovekst - co-operation for faster establishment of GI



Continous updating of «Norway digital»



Content of «Norway digital»



Other special data

Area Information Systems Ministry of Environment Area Documentation Program



Value adding services



Information/Data

Users

Value added services in business





Value to business



Estimates for the benefit to business by use of «Norge digitalt» due to increased efficiency, better security and better service. Figures in mill NOK p.a.

Critical factors to the infra structure

- Infrastructure does not develop at the speed of the users and the technological changes
- Data capture based on administrative routines and reporting is not functioning
- **Quality secure work is not good, data is not reliable**
- Data is to hard to access for the users
- Integration between different data sets is bad
- Data does not match the demands from each user
- Production is not efficient enough and cost to much
- The price on data is to high

«Norway digital»

«Norway digital» - an infrastructure for the entire society local - regional - national

«Norway digital» will be a core database for everyone Key data will kept continuously up to date Data will be accessible on Internet

«Norway digital» can only be realised in co-operation between the municipalities, the state, and the largest users