

**eGovernment for eCitizens
NSDI as tools in good governance
Examples from Norway and Norway Digital**

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TS 2B NSDI and eGovernment, Stockholm, June 2008

WG 3.1: e-Government for e-Citizens

Interactive information flow and communication between providers, partners and customers Public Private Partnerships (PPP).

Services and workflows for decision makers and citizens in participatory democracy

Integration and cooperation in a distributed environment



Projects and outputs from WG 3.1

Facilitate experience exchange through workshops and papers
Links to information and minutes of workshops
Examples with local, regional, national and international experiences
Preliminary reports through proceedings, cfr Budapest 2006
Summarise lessons learned
– success criteria and impact on administration and citizens
Recommendations for facilitating participatory eGovernment society
Facilitate network and encourage for R&D participation
Reporting 2009

EXPERIENCES AND EXAMPLES

UN- Survey on eGovernment <http://www.unpan.org/egovernment.asp>

Developments in Europe <http://www.epractice.eu>

Global examples

Disaster interactive portals

Integrated Land Information System in Northern Territory, Australia

Web-Castle linking to more examples

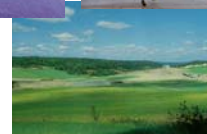
SUCCESS CRITERIA

Political support
Inclusion and interaction
data sharing and distribution
equal opportunities
broad and inclusive participation
enthusiastic organisation
clear strategy
easy access to internet
open, standard based technology
distributed sources

Extensive value for the society

Within :

- Municipal administration
- Transport
- Shipping and Fishery
- Agriculture and Forestry
- Telecommunications and Energy
- Defence
- Emergency management
- Imagery
- Environmental and Area resource management
- Property management
- Education
- Media
- Leisure
- Map production, only to mention some examples



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– value for *Society*

EXAMPLES FROM NORWAY

Value for society -participation - infrastructure

eGovernment - eNorway 2009

NSDI - Norway Digital and geoportals

My Page

Municipal Initiatives and examples

Spatial Planning,Risk and Environment management

- value for Society



eNorway 2009

Making everyday life more easy for the citizens

Knowledge society with participation from all

Contribute to value adding services

The needs of the citizens and the industry as driving force

Cross sector initiatives

Focusing

-The citizens in the Norwegian digital environment

-Innovation and growth in the private industry

-A co-ordinated and user approached public sector

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eNorway 2009

By 2007

- All Geodata authorities shall be part of Norway Digital
- Management standards for data and document exchange
- eServices for everyone, also those that do not have internet access
- 80% of public websites following Norway.no quality criteria
- Receive public communication and documents electronic
- PSI directive adapted

By 2008 and 2009

- Reuse of public data shall be based on the free of charge principle
- Interactive public services shall be available through the citizens portal My Page
- All new ICT systems in public sector shall be based on open source standards

- ICT integrated in all subjects through education plans
- Methods and tools to measure digital competence
- All non sensitive communication between public authorities shall be electronic
- All public institutions shall use electronic supported administrative systems and archives
- All public institutions shall use eID and eSignature for all relevant services

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- "eNorway2009 – the digital leap"
- In Norway all citizens have their own personal web page



My house

PL_0210033	0210033	4
PL_0210342	0210342	4
PL_0210362	0210362	4
PL_0210362	0210362	4
PL_0210372	0210372	4
PL_0212313	0212313	4
PL_0212343	0212343	4
PL_0225011	0225011	4
PL_0225021	0225021	4
PL_0225033	0225033	4

My cabin(s)



My application

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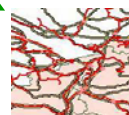
**Our deliverables in the future,
and more to come**



**DEMOCRACY – to guarantee the data
quality, data access for everybody
a challenging task !**



My area of living



My travel



My children



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MyPage – initiative from MOD

Min side: Morten Andreas Meyer
 Hjem | Min søkfil | Spar.oss | Info | Logg ut

Mitt vær (met.no)
Lokal temp (met.no)
Min snø (met.no)
Min e-post
Min kart-info (symbolbibliotek)

Stedsnavn Mine steder (webservice)
Min eiendom (webservice)
Mine adresser (webservice)

Mitt kart (WMS)
 Jutul Klubbhus
 Beletsv 45
 4334 Rykkinn

Personopplysninger
 Fødselsnr: 2011059 12345
 Navn: Morten Andreas Meyer
 Adresse: Morkelvegen 17
 Postnr: 7340
 Poststed: Oppdal

Mine persondata er innhentet av:
 27.07 Creditinform AS
 17.06 Fylkesmannen i Sør-Trøndelag

Mitt arkiv:
 25.07 Endring i reguleringsplan for Hanshovangren hyttefelt, Avsender: Tynset kommune
 15.06 Skatteoppgjør 2004, Avsender: Oppdal skattekontor
 15.06 50% Plass i Natteskogen barnehage, Avsender: Oppdal kommune
 01.05 Sakenad om barnehageplass, Avsender: Morten Andreas Meyer
 01.04 Nytt skattekort, Avsender: Oppdal skattekontor

Husk:
 • Opptak til musikkskulen i Oppdal
 • EU kontroll av VJ 34563 innen 04.10.2005
 • Tid for å fornye passet utlepsdato: 14.11.2005

Kontaktinfo:
 • Oppdal kommune
 • Min fastlege: Jon Olsen (bytta) tlf: 1234567 e-post
 • Spør legen om råd på nett!
 • Oppdal skattekontor
 • Oppdal trygdekontor
 • Oppdal trafikkstasjon
 • Norge.no: tlf 800 30 300
 Nettprat SMS
 >> Flere kontaktsteder...

Svarveier:
 • Mine kjøretøy
 • Min skatteoversikt
 • Mine eiendommer

Min side: Morten Andreas Meyer
 Hjem | Min søkfil | Spar.oss | Info | Logg ut

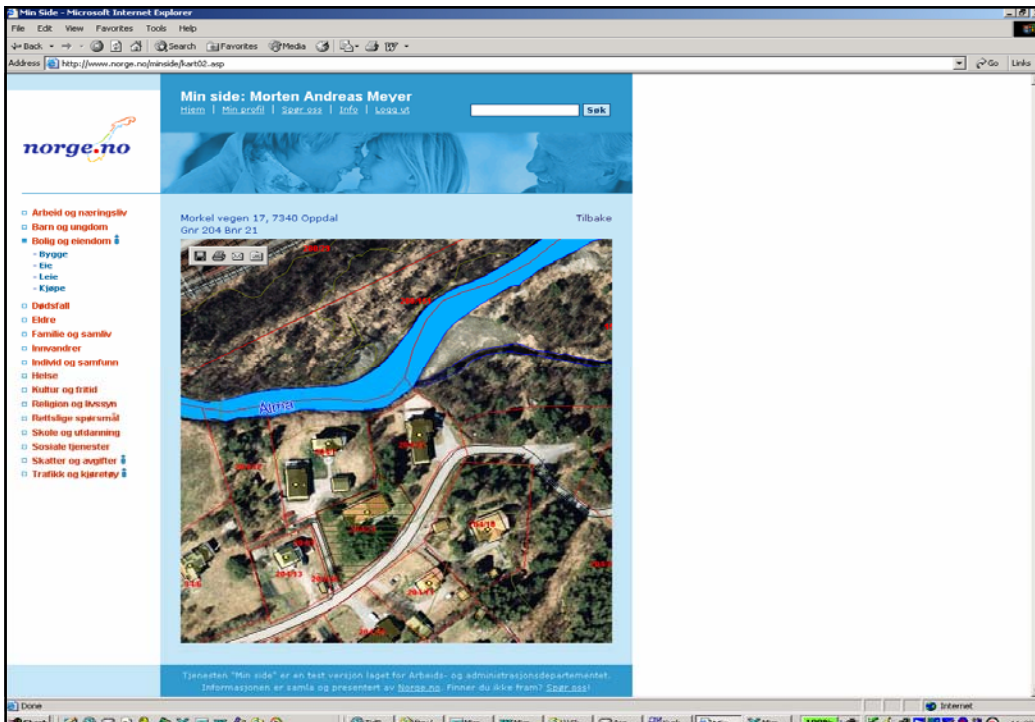
Morkelvegen 17, 7340 Oppdal
 Gnr.204 Bnr.21

Tilbake

norge.no

- Arbeid og næringsliv
- Barn og ungdom
- Bolig og eiendom
 - Bygge
 - Eie
 - Leie
 - Kjøpe
- Dødsfall
- Eldre
- Familie og samliv
- Innvandrere
- Individ og samfunn
- Helse
- Kultur og fritid
- Religion og livsstil
- Rettslige spørsmål
- Skole og utdanning
- Sosiale tjenester
- Skatter og avgifter
- Trafikk og kjøretøy

Tjenesten "Min side" er en test versjon laget for Arbeids- og administrasjonsdepartementet. Informasjonen er samlet og presentert av Norge.no. Finnes du ikke fram? Spar.oss!



Rediger Vis Dokument Verktøy Vindu Hjelp

Services on MyPage

The illustration below presents the different types of services available on MyPage.

Register services provide citizens with personal data stored in public registers.

Transaction services allow citizens to interact digitally with public sector agencies.

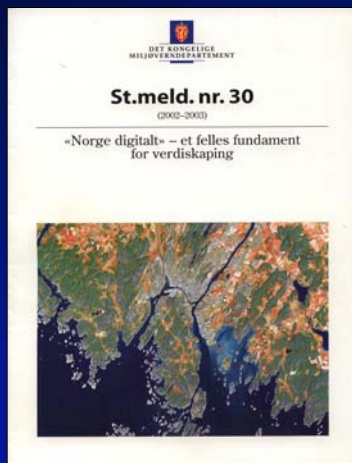
Notification services allow SPs* to correspond with citizens.

Calendar services help citizens keep track of important dates and events.

**- and "My page" won the
eGovernment Awards 2007 !**



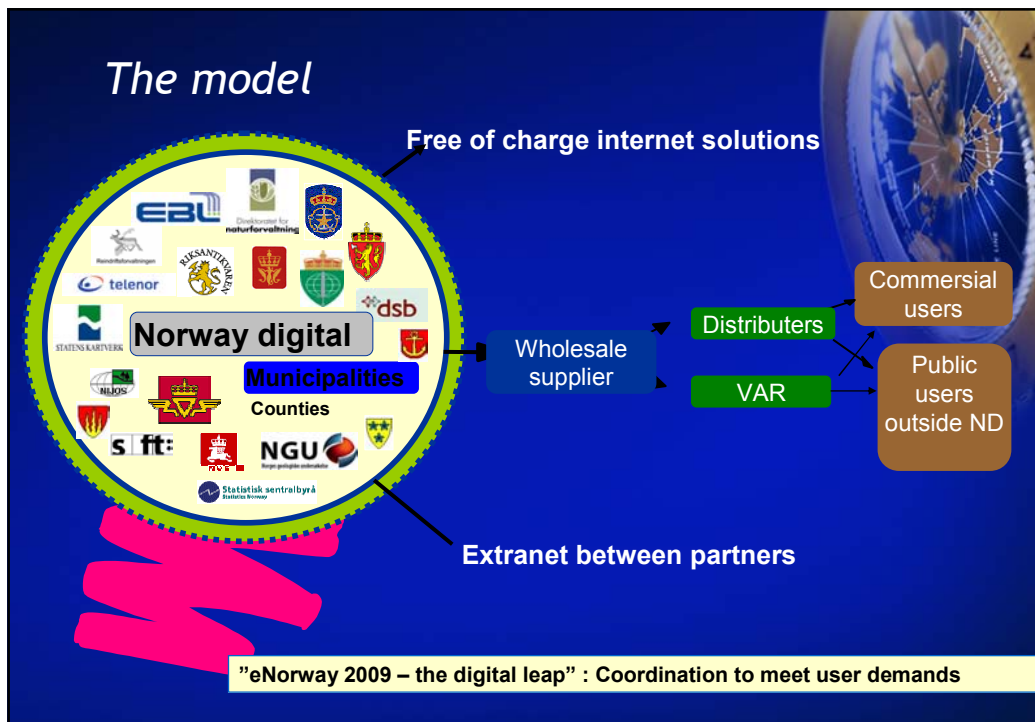
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«Norway digital» - a common fundament
for value adding

The Parliamentary White Paper presented
by the Norwegian government and
accepted by the Parliament on June 18,
2003

*The major concept in the White Paper is the
establishment of national geospatial infrastructure*



- ## Who can be «Norway digital» partner?
- Government authorities
 - Municipalities and counties
 - the partner rights is valid for all authorised tasks, also commercial activities as long as not separated to own legal body, also tasks outsourced as long as they are enforced by law
 - Companies with national interests producing data of interest to the infrastructure
- 

Partner status - 2008

- 40 national agencies
- 17 (out of 17) county administrations
- 430 (out of 430) municipalities
- approx. 100 energy companies
- a few others

Partner benefits

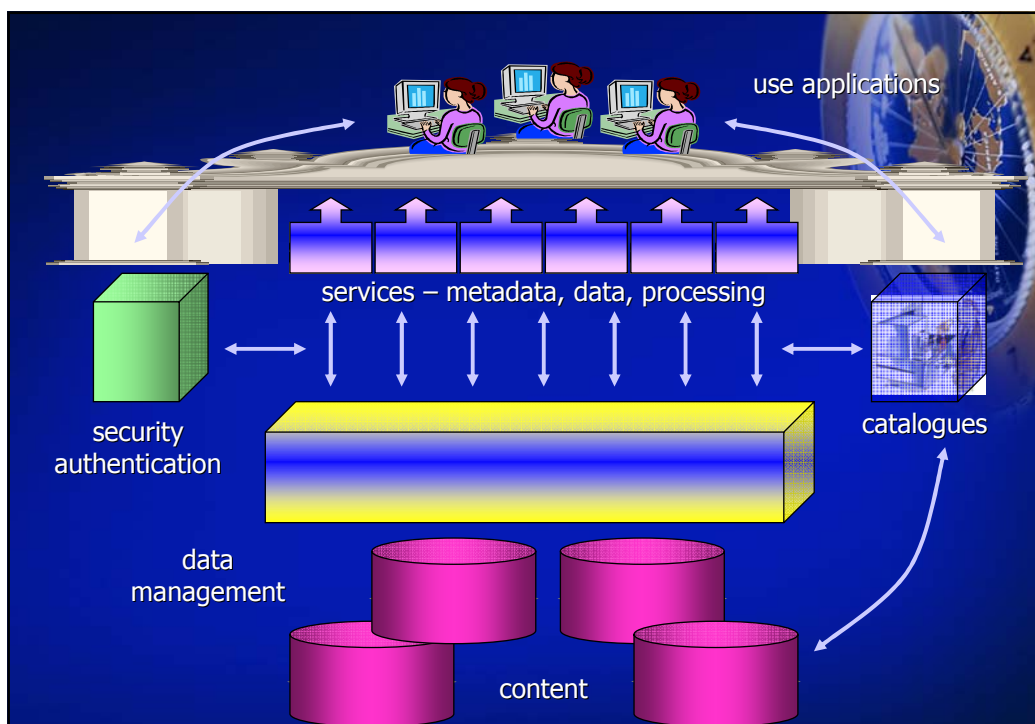
- Access to a broad variety of geographic information - data sets and services
 - downloadable datasets
 - web based services :
 - Map services, registers, addresses, placenames+++
 - quality control software
 - tools for developing product specifications
- access to the portal and all its services
- participation in the organisational structure
- participation in a variety of networks, e.g. technical and thematic



Partner contracts



- Principal agreement
- Specific partner contract
- Annex 1 - Organization and governance
- Annex 2 - The partner list (dynamic list)
- Annex 3 - Data content (datasets and services)
- Annex 4 - Requirements (data and services, incl. SLA - service level agreement)
- Annex 5 - Economy and funding



Technology framework



The «Norway digital» "Implementing Rules"
Based upon the ISO 191xx-series
of standards and OGC specifications

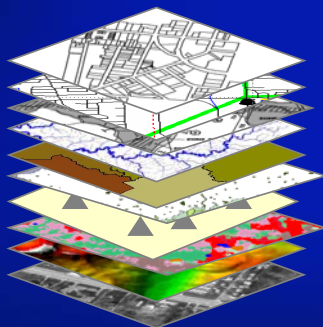
- ISO 6709:1983 Standard representation of latitude, longitude and altitude for geographic point locations
- ISO 19101:2002 Geographic information - Reference model
- ISO/TS 19103:2005 Geographic information - Conceptual schema language
- ISO 19105:2000 Geographic information - Conformance and testing
- ISO 19106:2004 Geographic information - Profiles
- ISO 19107:2003 Geographic information - Spatial schema
- ISO 19108:2002 Geographic information - Temporal schema
- ISO 19109:2005 Geographic information - Rules for application schema
- ISO 19110:2005 Geographic information - Methodology for feature cataloguing
- ISO 19111:2003 Geographic information - Spatial referencing by coordinates
- ISO 19112:2003 Geographic information - Spatial referencing by geographic identifiers
- ISO 19113:2002 Geographic information - Quality principles
- ISO 19114:2003 Geographic information - Quality evaluation procedures
- ISO 19115:2003 Geographic information - Metadata
- ISO 19116:2004 Geographic information - Positioning services
- ISO 19117:2005 Geographic information - Portrayal
- ISO 19118:2005 Geographic information - Encoding
- ISO 19119:2005 Geographic information - Services

++

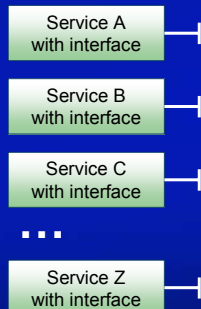
An infrastructure support

the development addresses *all and any* potential application field for geospatial information !!

a variety of content, reference and thematic data



a rich set of functionality - services



a variety of applications

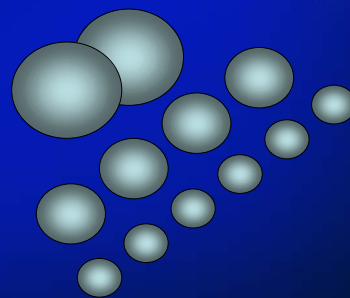
geoportals architecture



national components
 WMS, WFS, WCS, , web services
 regional and local components

used to build:

national portal
 regional and local portals
 organisation specific portals



The portals:

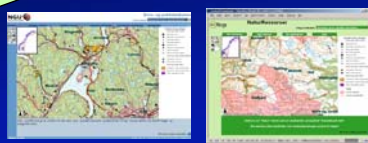
Users

General view

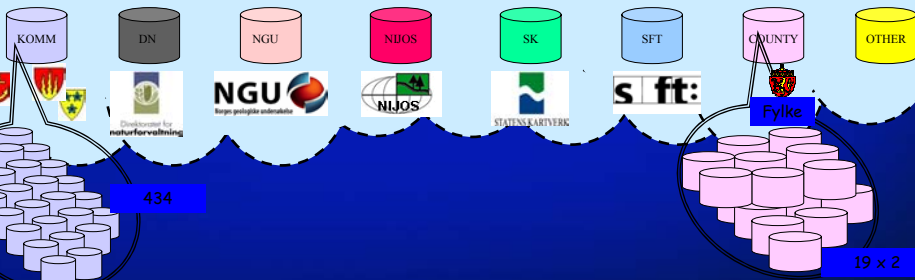
Thematic applications

Upload data to thick client:

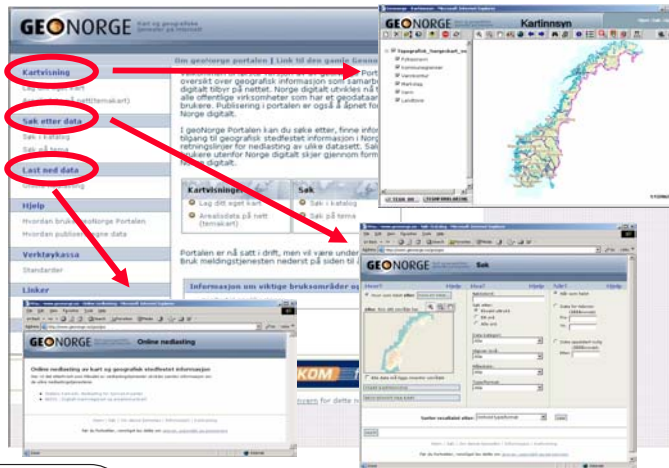
Download dataset



Internet services (WMS, WFS, ++)



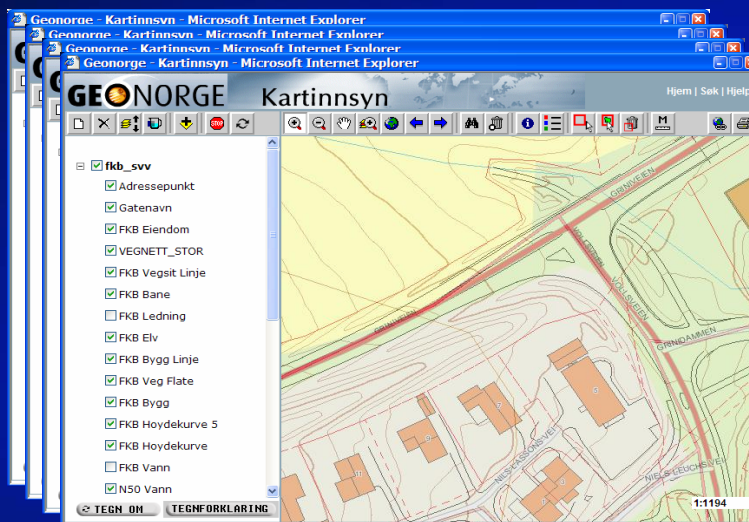
Geodata portal- geonorge.no



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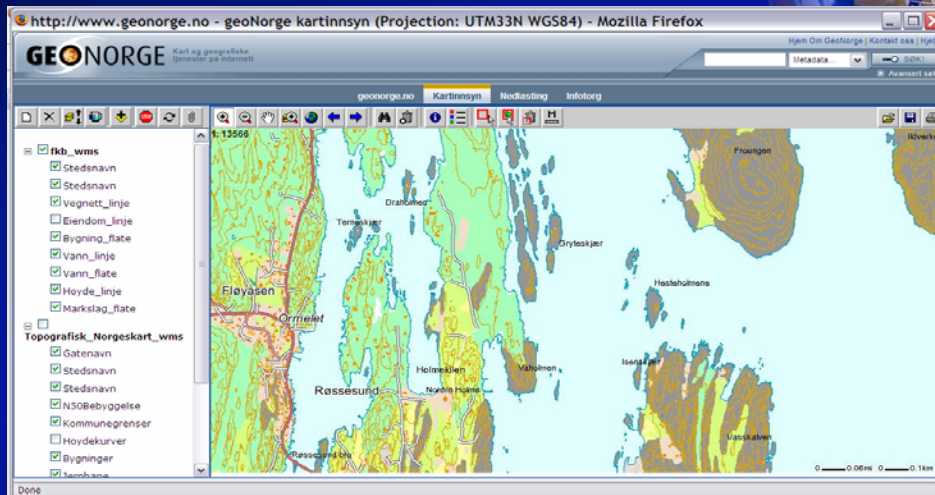


The general portal - map viewer ...

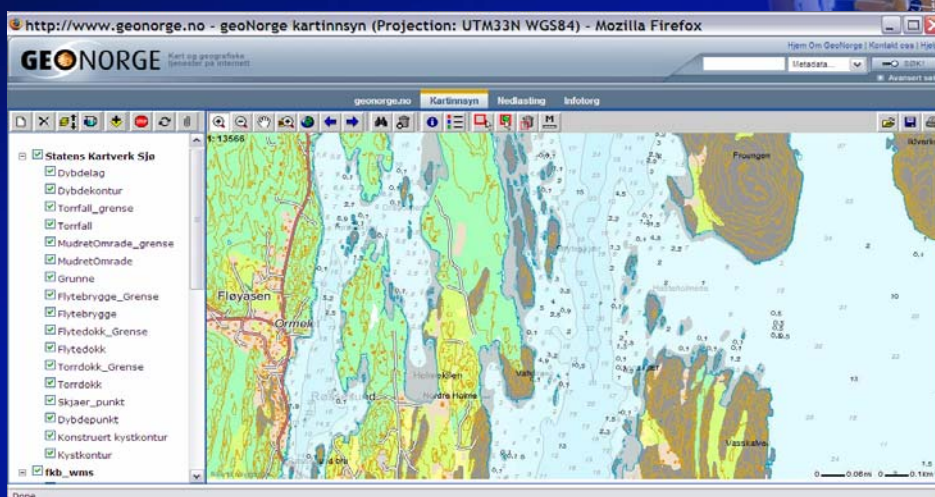


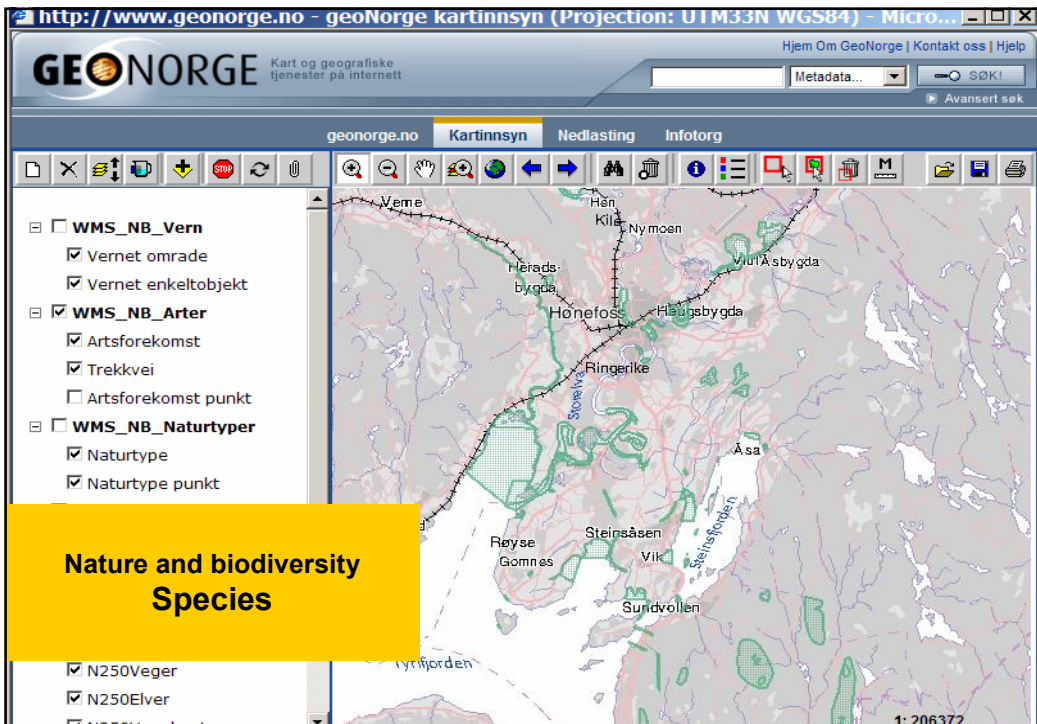
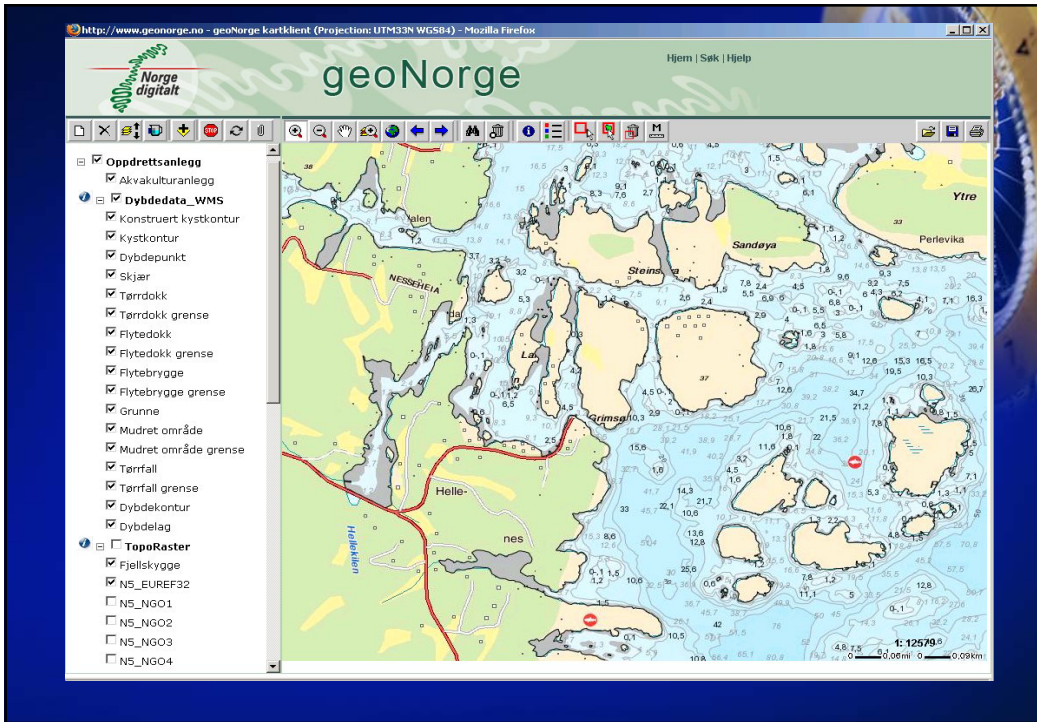
Overview
1:50 000 scale
1:5 000 scale
Detail

Integrating land and sea ...

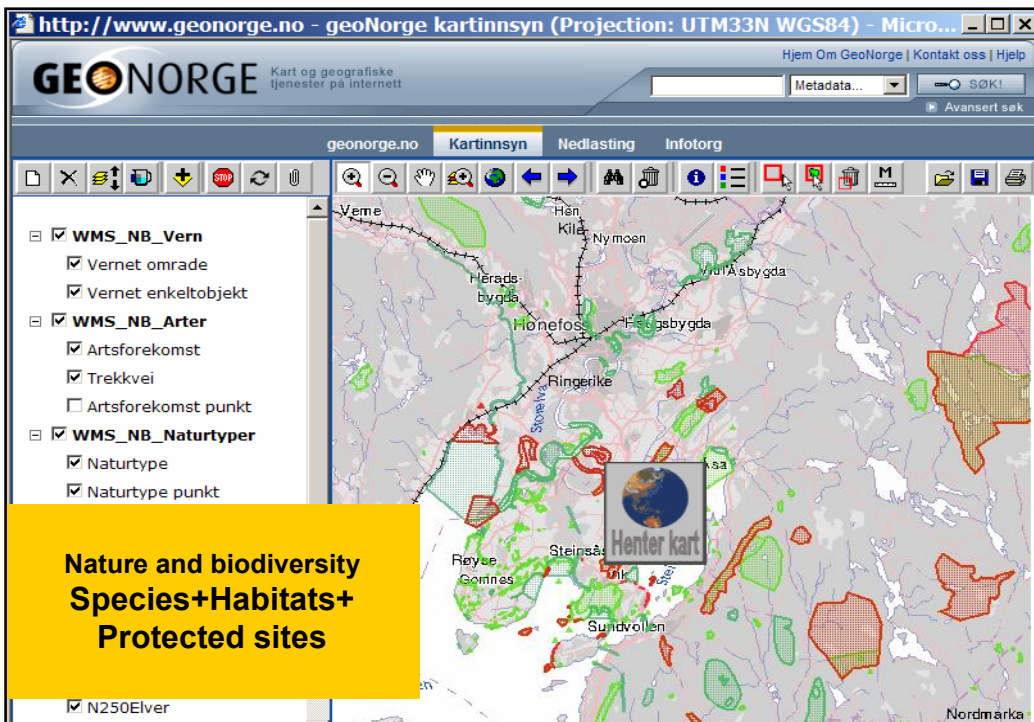
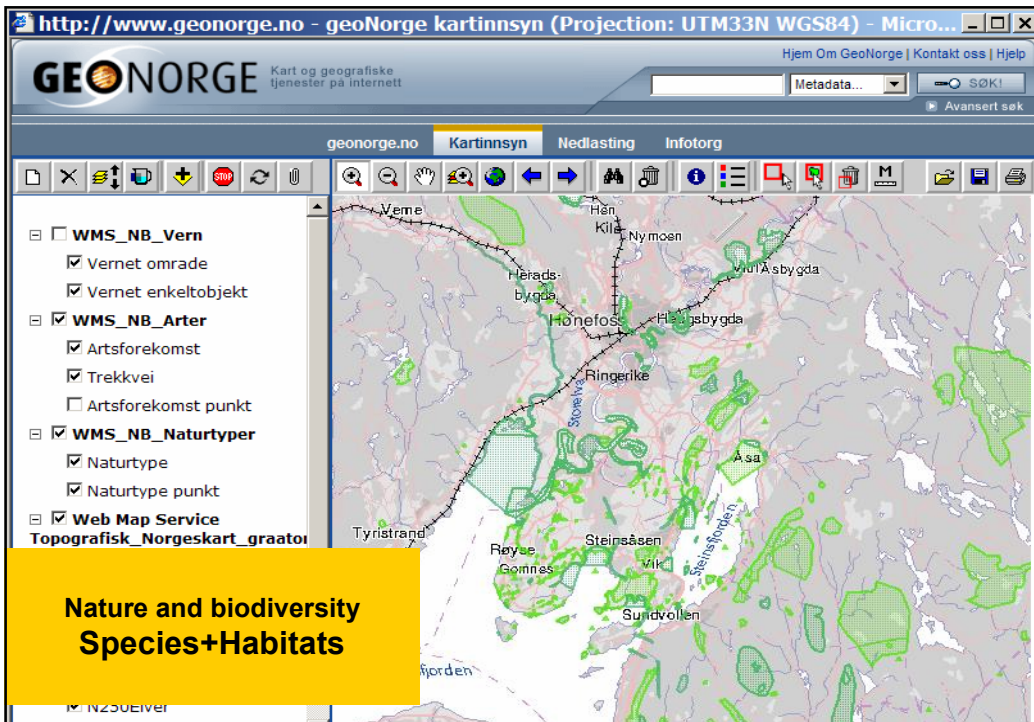


Integrating land and sea ...






Nature and biodiversity Species




Orthoimagery – full national coverage

Bildeinformasjon	
FOTODATO	8/14/2002
OPPLESNING	
BILDETYPE	
BILDEMAESTOKK	
SENINGSNUMMER	2100
STREKENUMMER	20
BILDENUMMER	17
KAMERA TYPE	
BILDEFORMAT	
FARBEEDT	
ORTOFOTO_OPPLÆSNING	
ORIGINALPROJEKSJON	
SETTETIDSPUNKT	
PROJEKTRAVN	VESTFOLD 2002
OP_PROD	
PRODUKTSPESIFIKASJON	


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Situation in geoNorge



- (a) discovery services – several metadata catalogues
- (b) view services – >200 wms services with national coverage
- (c) download services – 210 000 datasets with reference data, more than 50 000 datasets with thematic data
- (d) transformation services – available as web services

Some statistics ...

Typical *daily* usage

- map service requests 150 000
- register services requests 20 000

- Download's 15 000 datasets

eKommune 2009

- strategies for surveying and spatial data
- cross border cooperation
- infrastructure and standardisation
- integration and interoperability
- ICT in local democracy
- participation from citizens

Conditions for the municipalities

- User functionality must be as good as the solutions they run today
- Good interface to various external registries
- Demand for stable access to external WMS 24/7
- Neighbouring municipalities accessible on the net
- Simple catalogue access to external WMS services
- Quick communication
- External WMS data delivered within the municipality's UTM zone
- Good specifications for the national data sets
- Integration with management tools and GIS tools
- Good and relevant web-services
- Good ordering and payment solutions
- Electronic self service of data and applications from citizens

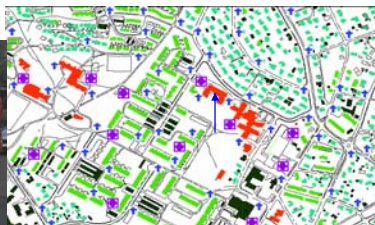
Better municipal planning and awareness

by using the properties, addresses and buildings register together with digital property maps

School planning

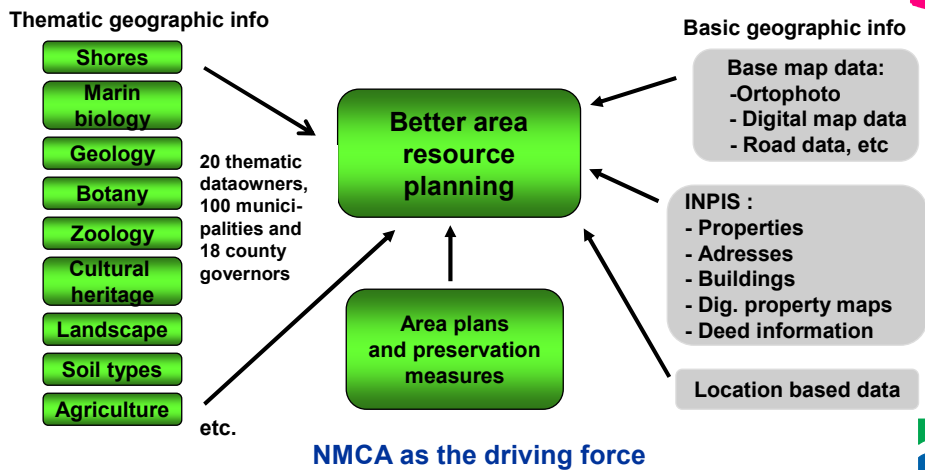


Fire emergency



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A National Area Resource Management Program as part of Norway Digital (AREALIS)



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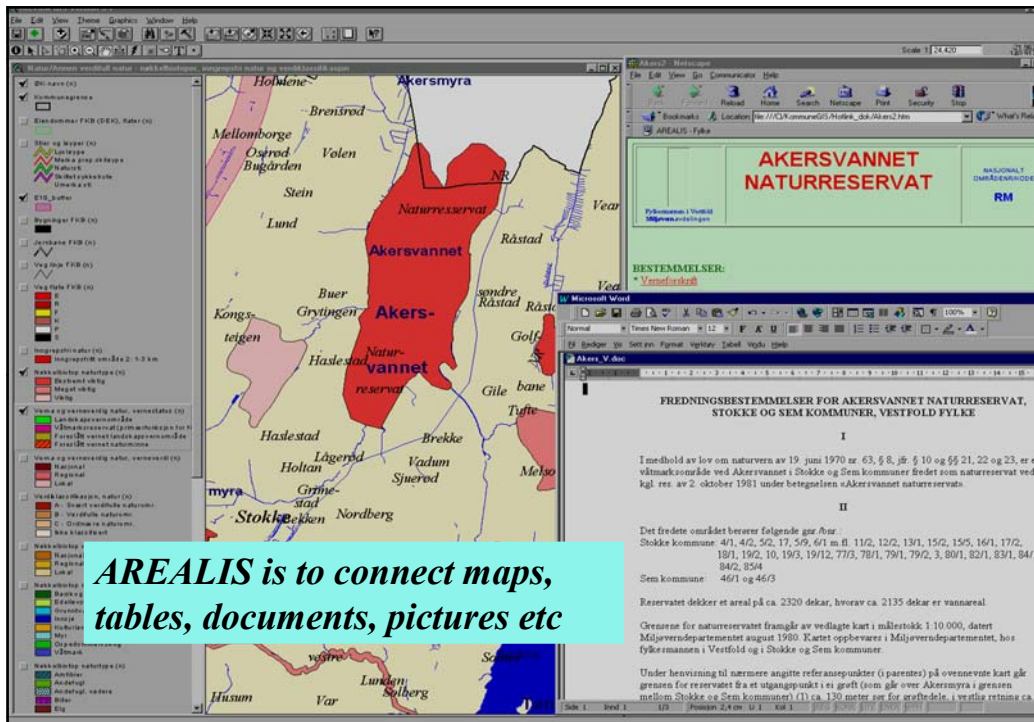


Environmental databases in all Norwegian Counties

- Supply relevant datasets to be used in local and regional planning
- Simplify existing detailed data and classification systems
- Mapping of new topics and land use assessment
- Identify valuable areas
- Ranking of areas according to biodiversity and other environmental values
- More sustainable land use - better management
- Affect communication between different sectors
- Reduce number and seriousness of land use conflicts

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Scenario – planning for a new main road

Examples

We start with a base map ...

... Potential road line

... What about cultural heritage ?

... Protected areas ? ...

... Farm land ?...

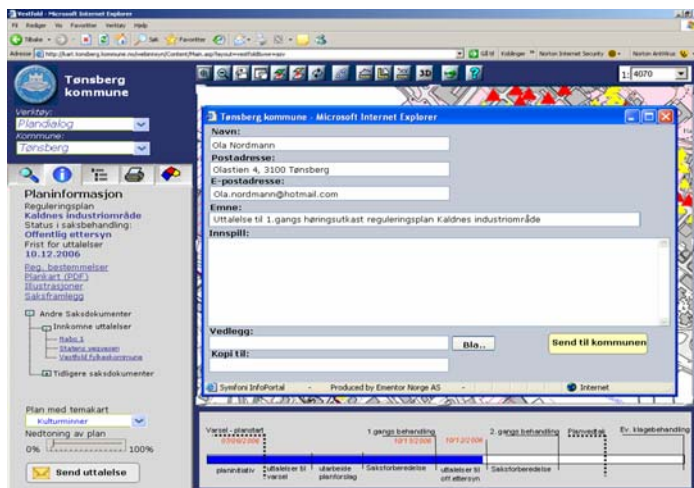
... Properties to be purchased ?

All this info only a couple of key - strokes away !!

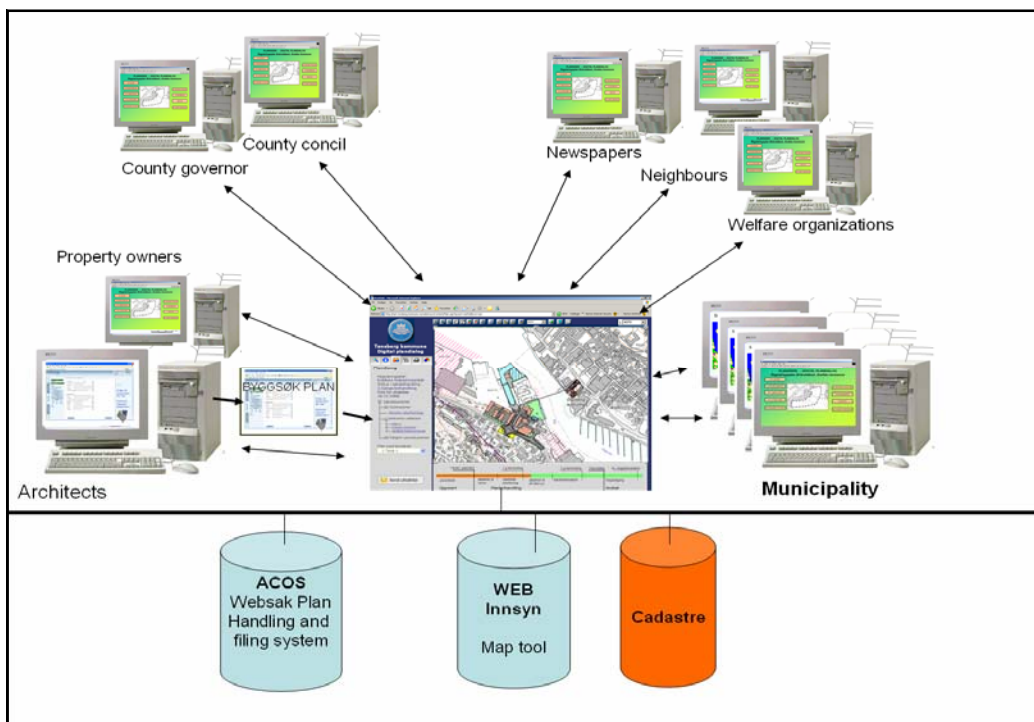
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Digital Planning Dialogue



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Vestfold - Microsoft Internet Explorer

Adresse: http://kart.tonsberg.kommune.no/webbvisning/Content/Main.asp?layout=vestfoldsvinn.asp

Tønsberg

Tool and municipality selection area

Standard

Planinformasjon
 Reguleringsplan
Kaldnes industriområde
 Status i saksbehandling:
Offentlig ettersyn
 Frist for uttalelser
10.12.2006
 Gjennomskinnelig plan
 0% 100%

[Reg. bestemmelser](#)
[Plankart \(PDF\)](#)
[Illustrasjoner](#)
[Saksframlegg](#)

Andre Saksdokumenter

Tabs for search, information and Dialogue

Send uttalelse

Map with toolbar

Oseberg kulturhus

Status panel

Varsel - planstart 07/06/2006	1. gangs behandling	2. gangs behandling	Planvedtak	Ev. klagebehandling
planinitiativ	uttalelser ved varsels	utarbeide planforslag	Saksforberedelse	uttalelser ved off. ettersyn
			Saksforberedelse	klageadgang

Vestfold - Microsoft Internet Explorer

Adresse: http://kart.tonsberg.kommune.no/webbvisning/Content/Main.asp?layout=vestfoldsvinn.asp

Tønsberg kommune

Verktøy:
 Arealplaner
 Kommune
 Tønsberg

Tema:
 Flybilde som bakgrunn
 Landbruk
 Samfunnsikkerhet
 Natur og biomangf.
 Kulturminner
 Friluftsliv, barn
 3D-modell

Status i saksbehandling:
Offentlig ettersyn
 Frist for uttalelser
10.12.2006
 Gjennomskinnelig plan
 0% 100%

[Reg. bestemmelser](#)
[Plankart \(PDF\)](#)
[Illustrasjoner](#)
[Saksframlegg](#)

Andre Saksdokumenter

- Innkommne uttalelser
 - Naboa
 - Statens vegvesen
 - Fylkesmannen
- Tidligere saksdokumenter

Send uttalelse

Priorråde i sjø og vassdrag

Oseberg kulturhus

Status panel

Varsel - planstart 07/06/2006	1. gangs behandling 10/11/2006	10/12/2006	2. gangs behandling	Planvedtak	Ev. klagebehandling
planinitiativ	uttalelser ved varsels	utarbeide planforslag	Saksforberedelse	uttalelser ved off. ettersyn	Saksforberedelse
					klageadgang

Vestfold - Microsoft Internet Explorer

Adresse: http://kart.tonsberg.kommune.no/webbirsyn/Content/Main.asp?layout=vestfoldsvar-asp

Tønsberg kommune

Verktøy:
 Arealplaner
 Kommune
 Tønsberg
 Tema:
 Kulturminner

Planinformasjon
 Reguleringsplan
 Kaldnes industriområde
 Status i saksbehandling:
 Offentlig ettersyn
 Frist for uttalelser
 10.12.2006

Gjennomskinnelig plan
 0% 100%

Reg. bestemmelser
 Plankart (PDF)
 Illustrasjoner
 Saksframlegg

Andre Saksdokumenter
 Innkommne uttalelser
 Nabo 1
 Statens vegvesen
 Fylkesmannen

Tidligere saksdokumenter

Oseberg kulturhus

1003/79

1:4070

Varsel - planstart 07/06/2006

1.gangs behandling 10/11/2006

2. gangs behandling 10/12/2006

Planvedtak

Ev. klagebehandling

planinitiativ

uttalelser ved varsel

utarbeide planforslag

Saksforberedelse

uttalelser ved off. ettersyn

Saksforberedelse

klageadgang

Vestfold - Microsoft Internet Explorer

Adresse: http://kart.tonsberg.kommune.no/webbirsyn/Content/Main.asp?layout=vestfoldsvar-asp

Tønsberg kommune

Verktøy:
 Arealplaner
 Kommune
 Tønsberg
 Tema:
 Kulturminner

Planinformasjon
 Reguleringsplan
 Kaldnes industriområde
 Status i saksbehandling:
 Offentlig ettersyn
 Frist for uttalelser
 10.12.2006

Gjennomskinnelig plan
 0% 100%

Reg. bestemmelser
 Plankart (PDF)
 Illustrasjoner
 Saksframlegg

Andre Saksdokumenter
 Innkommne uttalelser
 Nabo 1
 Statens vegvesen
 Vestfold fylkeskommune

Tidligere saksdokumenter

Tønsberg kommune - Microsoft Internet Explorer

Navn: Ola Nordmann

Postadresse: Olastien 4, 3100 Tønsberg

E-postadresse: Ola.nordmann@hotmail.com

Emne: Uttalelse til 1.gangs høringsutkast reguleringsplan Kaldnes industriområde

Innspill: Forslaget vil komme i konflikt med vernaede bygninger ved Kaldnesstubben

Vedlegg:

Kopi til:

Symfoni InfoPortal - Produced by Ementor Norge AS - Internet

Varsel - planstart 07/06/2006

1.gangs behandling 10/11/2006

2. gangs behandling 10/12/2006

Planvedtak

Ev. klagebehandling

planinitiativ

uttalelser ved varsel

utarbeide planforslag

Saksforberedelse

uttalelser ved off. ettersyn

Saksforberedelse

klageadgang

Gains

More efficient executive work

Faster processes in case handling of plans and building applications

Better action data

Strengthened information services

Transparency in the planning process (e-democracy)

Increased contact and more predictable processes for Land owners and other business

increased citizen influence on municipal planning.

Increased accessibility of information from municipal planning

Realise gains from ICT- investments

Web-based handling and filing system

Geodata cooperation on Geodata

Web-based GIS tools

– value for *Society*



Risk management

Norway is exposed for natural disasters like landslide, stoneslide, snowslide, underwater slide and slide as a cause of flood or tsunami

2000 killed by natural disasters the last 150 years

It is expected 10 bigger slides in the coming 50 – 100 years, each with 10 – 100 persons dead

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Can we reduce the risk

There is little to do to prevent the natural hazards
However, we can be prepared for situations

Modelling potential scenarios, and risk assesment for
localisaton of high exposed risk areas

Riskredusing actions, including warning systems

Decitions made today will influence the future vulnerability of the
society

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Society security – slide risk

Municipalities – responsibility in build up areas



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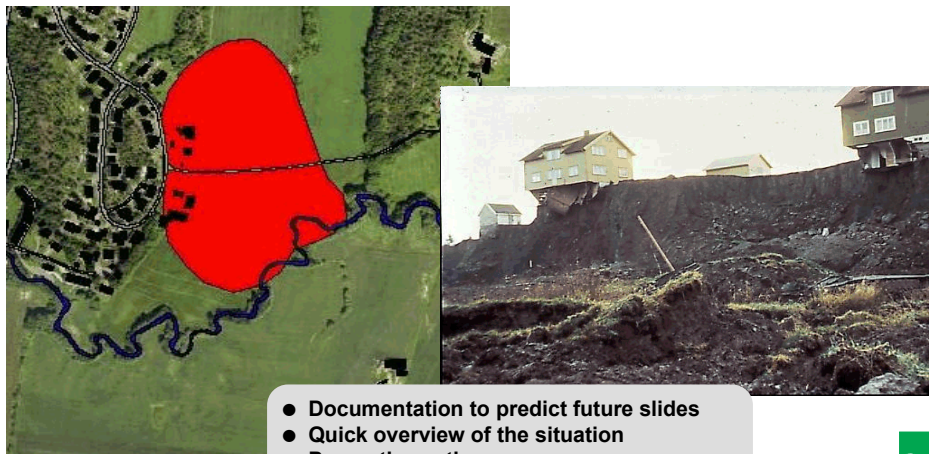
Risk
management
and actions

Planning/
construction

Actions

Watch,
warning,
preapareness

Land slide disposed areas

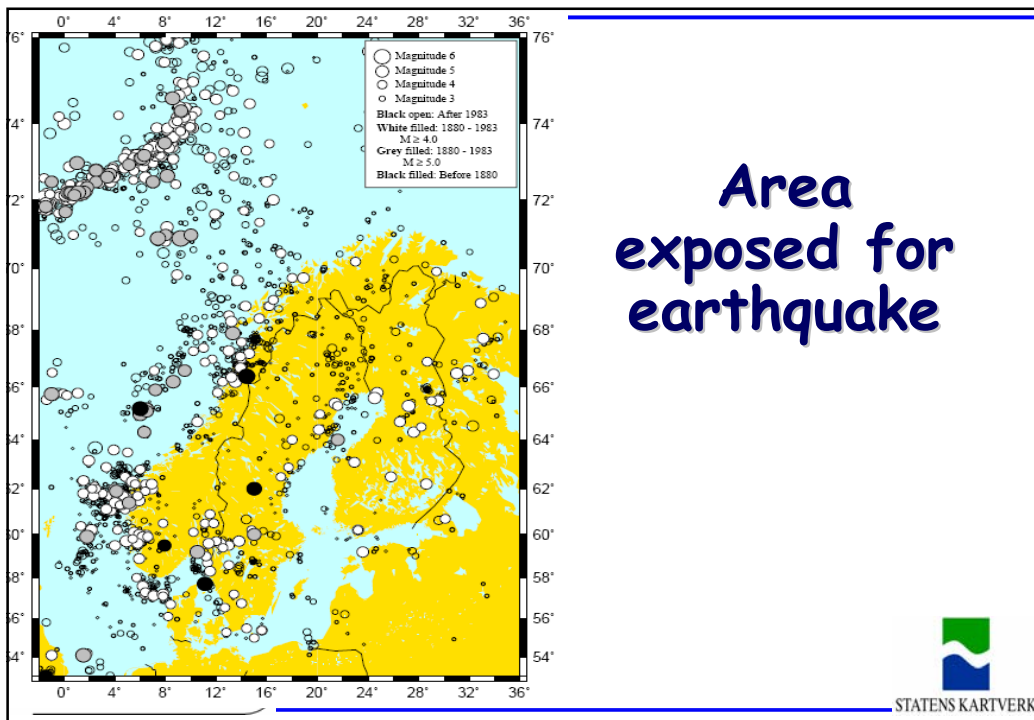
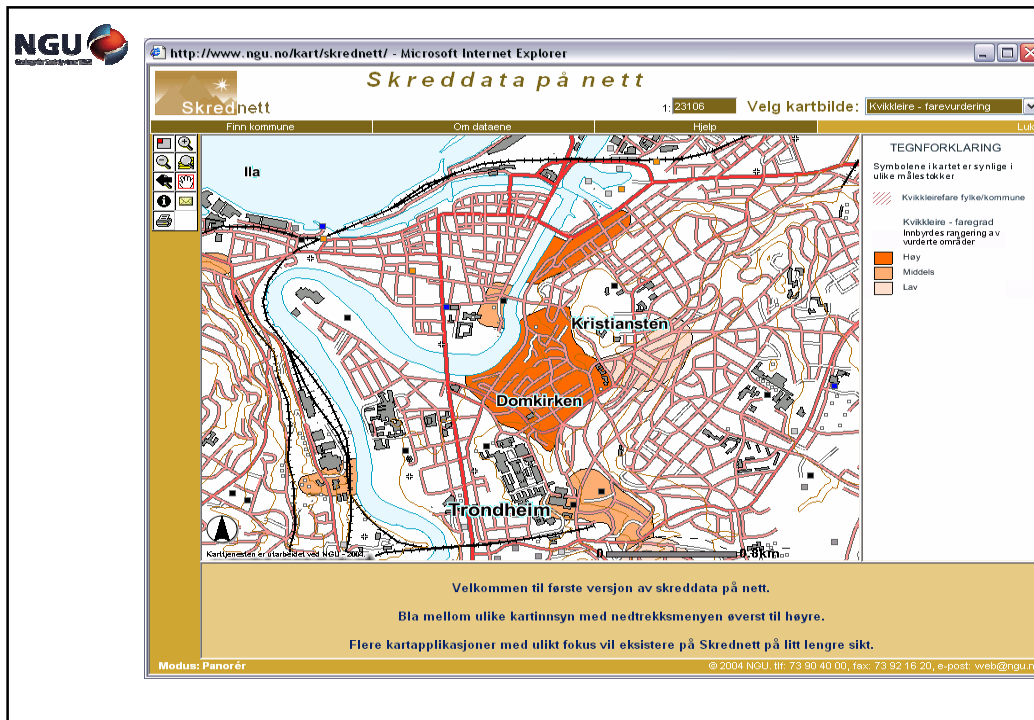


- Documentation to predict future slides
- Quick overview of the situation
- Preventive actions
- Lives and properties saved

– value for Society

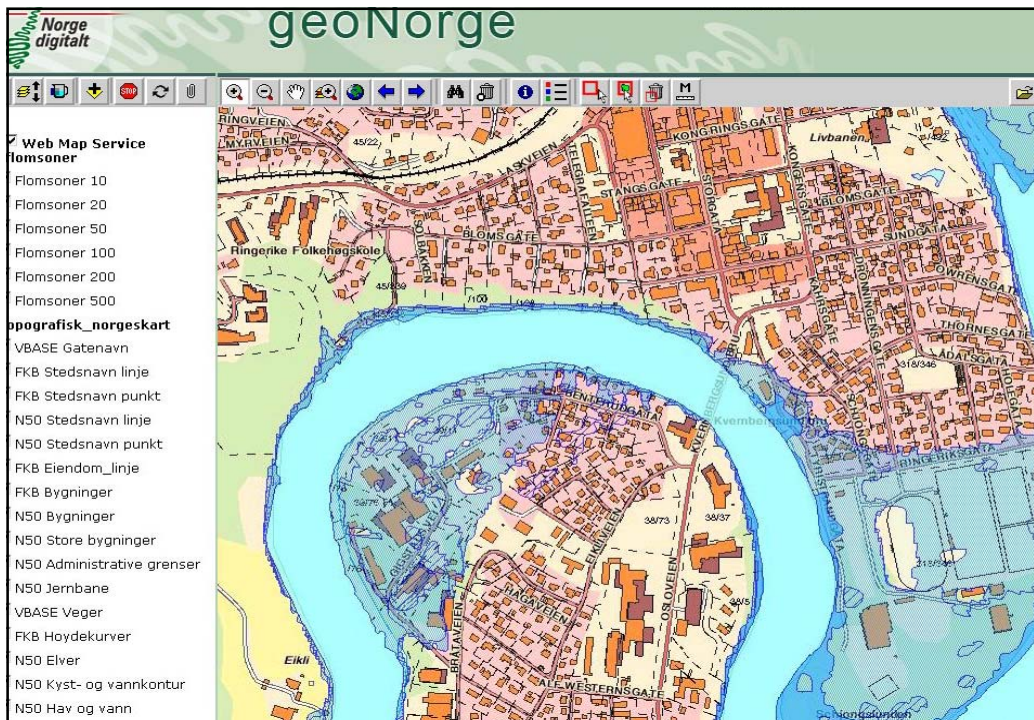


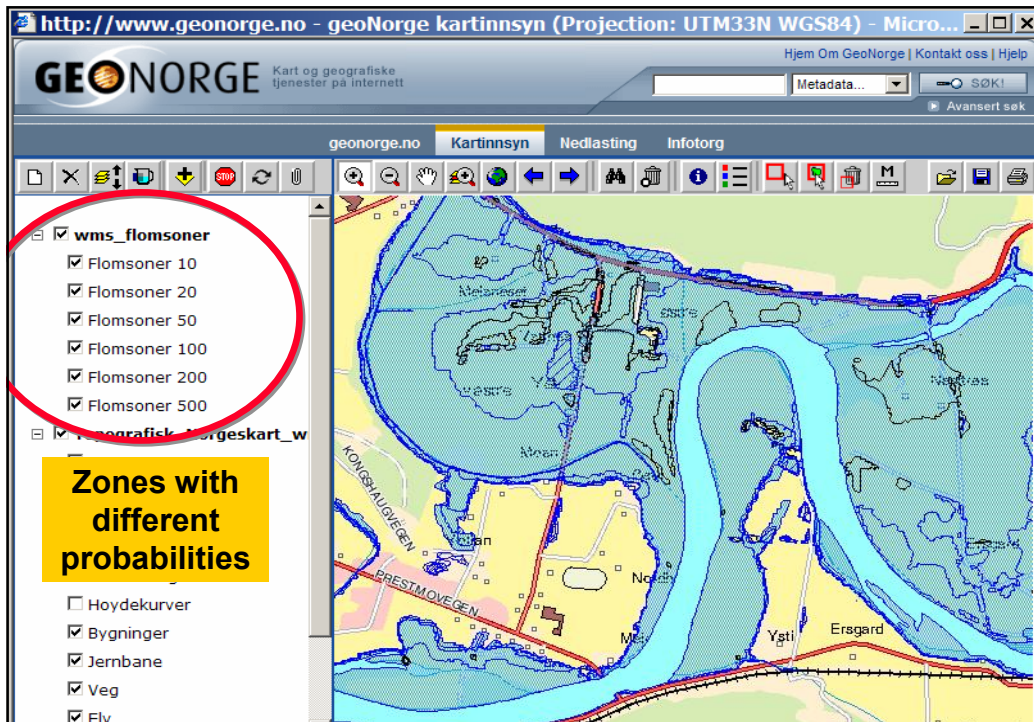
A screenshot of a web browser displaying the "Skrednett" application. The browser address bar shows "http://www.ngu.no/kart/skrednett/". The page title is "Skreddata på nett". The interface includes a search bar, a map of Trondheim, and a legend titled "TEGNFORKLARING". The legend lists various symbols for different types of landslides and risk areas. The map shows several red and green symbols indicating landslide locations. The text at the bottom of the page reads: "Velkommen til første versjon av skreddata på nett. Bla mellom ulike kartinnsyn med nedtrekksmenyen øverst til høyre. Flere kartapplikasjoner med ulikt fokus vil eksistere på Skrednett på litt lengre sikt." The footer includes the NGU logo and contact information: "© 2004 NGU. Tlf: 73 90 40 00, fax: 73 92 16 20, e-post: web@ngu.no".



NVE Data Bases

- [Catchments DB \(REGINE\)](#)
- [Lake DB](#)
- [River Network DB \(ELVIS\)](#)
- [Water Power Production DB](#)
- [Hydrological Gauging Stations](#)
- [Annual Water Runoff](#)
- [Protected River Systems](#)
- [Flood Inundation Map](#)
- [Bathymetric Maps of Lakes](#)
- [Wind Power Plants](#)
- [Mini/Micro Water Power Stations](#)
- [Thematic Maps](#)





Flood Inundation Map


Flooded/ Inundated areas made available at NVE Atlas – and as Web Map Service (WMS) for Authorities & Public

- Flood estimation
- Hydraulic simulation
- GIS- analysis - identifying inundated areas
- Flood inundation map

map presentation
report
digital data for all
calculated floods



– value for

More efficient ambulance services



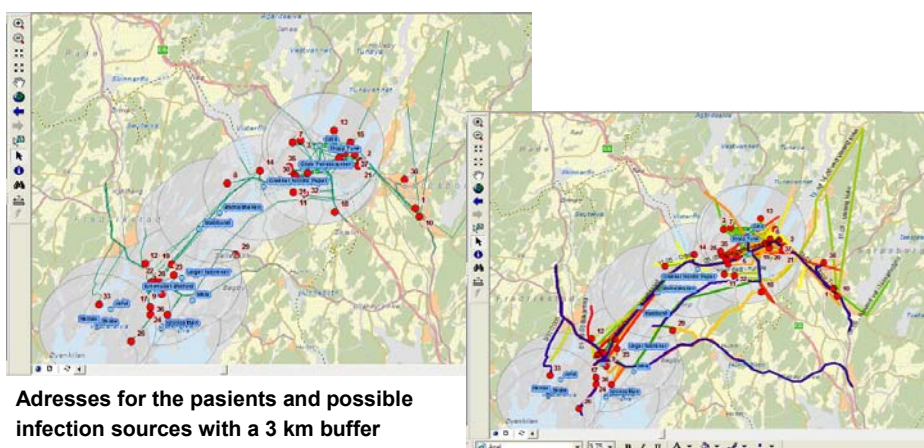
- Position of all ambulances are displayed
- Position of adresse to patient is displayed
- Navigation system in ambulance
- Fastest route presented on screen
- Lives are saved

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Locating infection source

Legionella-epidemic 2005



Addresses for the pasients and possible infection sources with a 3 km buffer

Movements of the pasients



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We have to integrate with eGovernment activities

the geospatial sector must try to become
as mainstream as information technology itself



Farm with crop classification
Application for the farmer – agricultural funding support
web based application overlaying land inventory
with cadastral parcels

Trust and confidence - to make the SDI
work in an eGovernment environment ...

we must be able to *trust* the information
updated, accurate, best available

we need to have *confidence* in the services
available, capacity, service level agreements

Conclusions ...

political support is essential

the Ministry of the Environment

the Ministry of Government Administration and Reform

*based on support and involvement from the user
community*

national agencies

regional authorities

local authorities

the geospatial industry

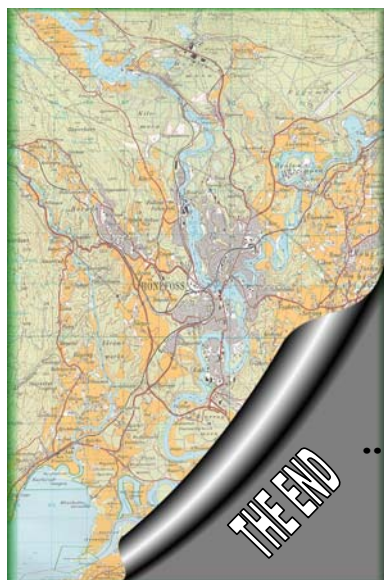
conclusions , ...

the technology must be based on standards

but a framework for implementation is necessary

technology and standards are available today to
build infrastructures and portals

basic technical interoperability is not a major obstacle



... from



... to



Thank you for
your attention!

– value for Society



– value for *Society*



Building distributed systems for use
in case of emergency, such as natural
or man-made disasters

SmartRap

A pilot program developed by the

National Food Security Agency

NMCA

Gecko

NorKart



Main Objective

- ✓ To design and build a system where all information is collected in real time by different Web Services and Geospatial Services directly from official databases.
- ✓ To design and build a system with the capability to produce notification lists with names and addresses inside a defined buffer zone and send warnings by SMS and voice mail directly to the people, companies or farmers inside this buffer (notification zone)
- ✓ To design and build distributed components that communicate with commercial GIS
- ✓ To work with services chaining technology and model driven architecture.



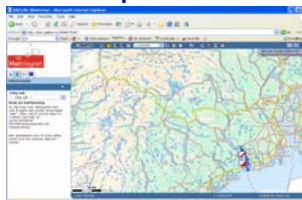
Building distributed Systems for Use in case of Emergency

This system consist of three different modules, that communicate with each other and with several Web Services in real time.

Registration module



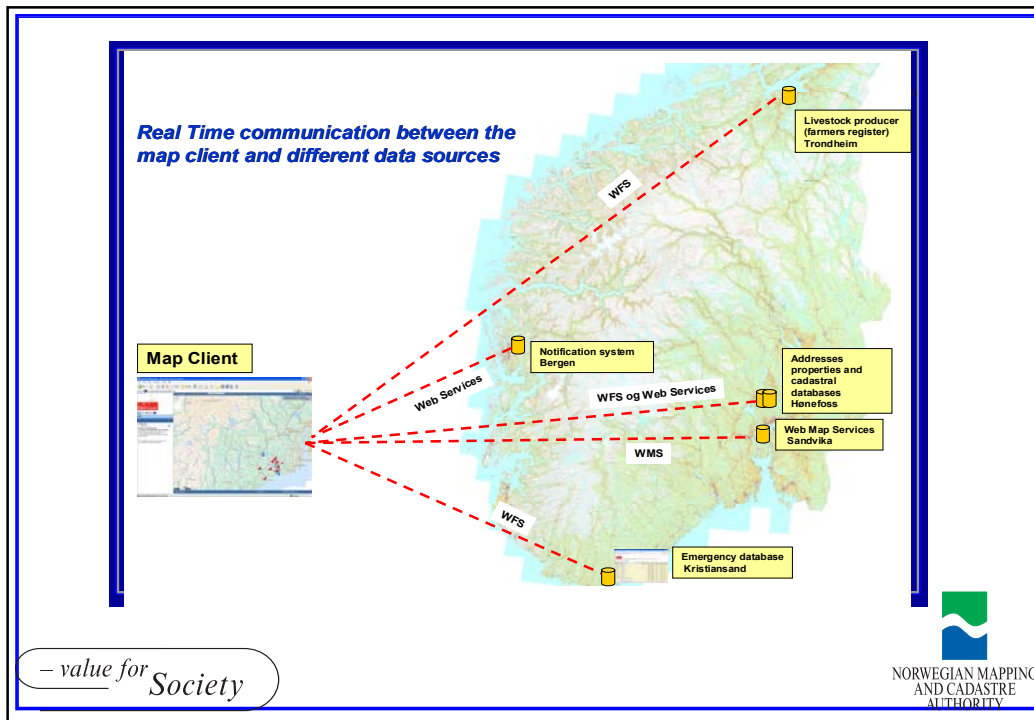
Map client



Notification module



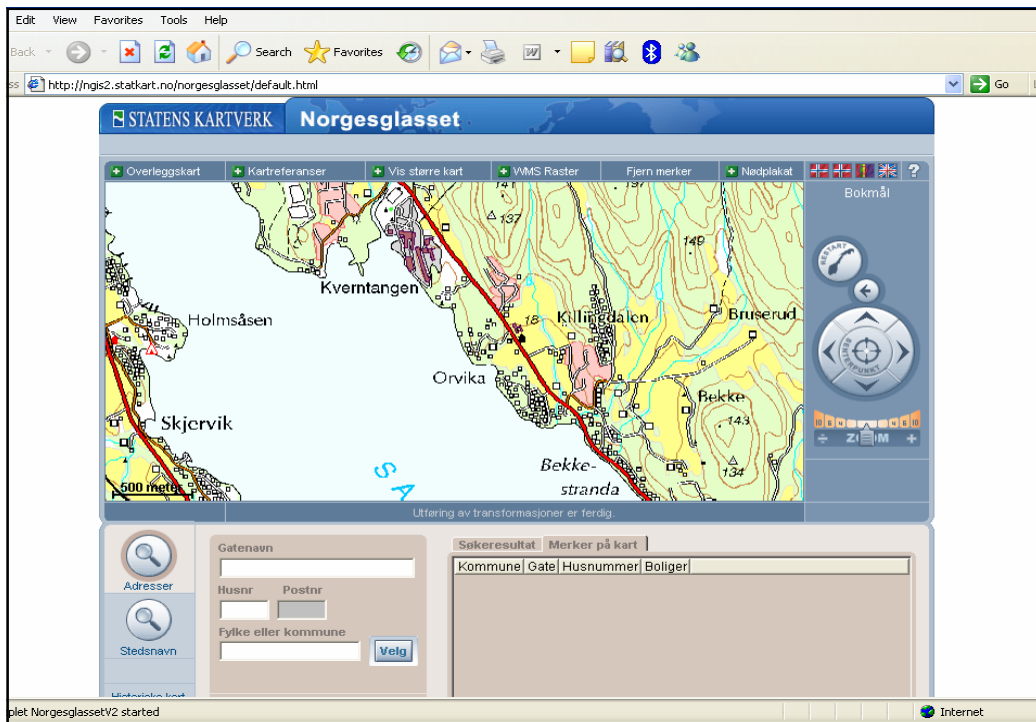
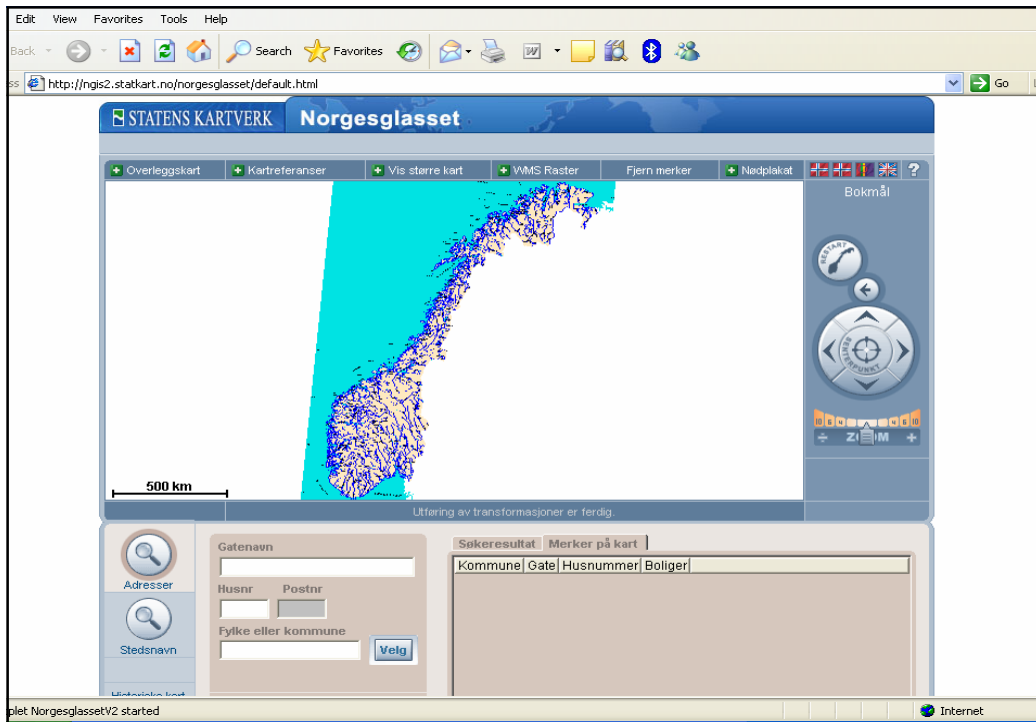
– value for Society

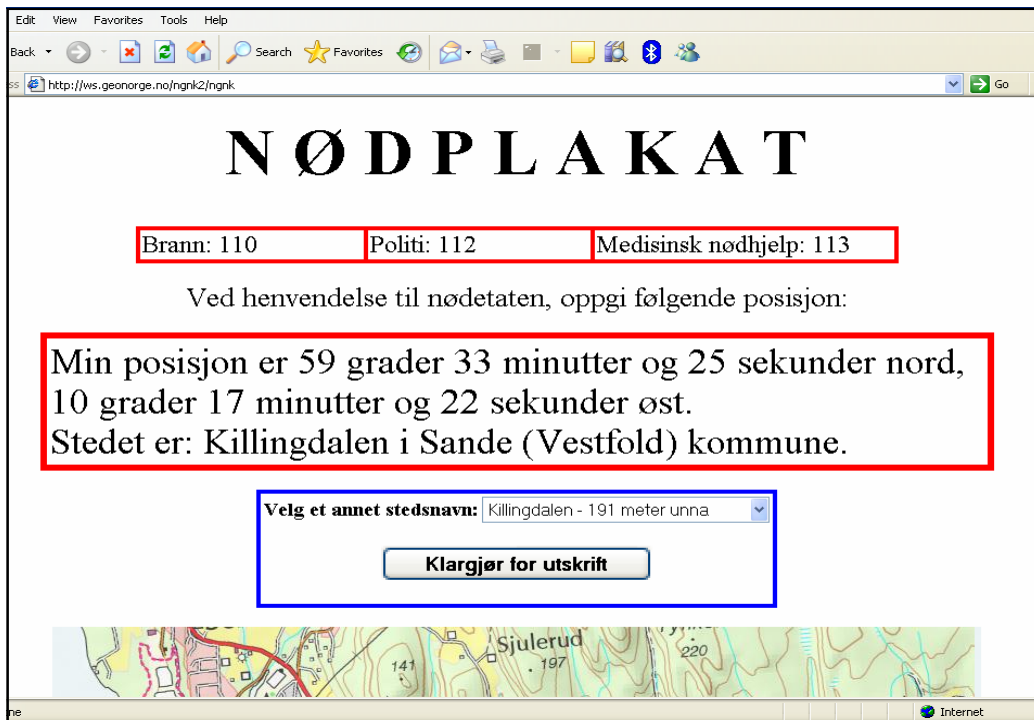
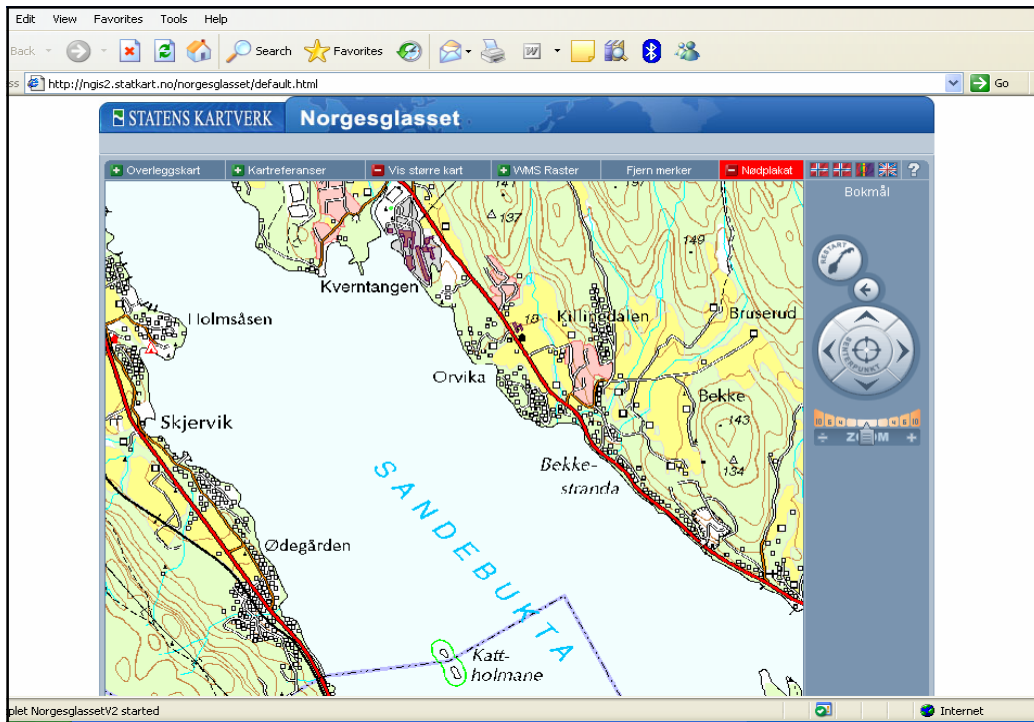


The Emergency Placard

Rescue Services do frequently experience that people in emergency can't give an exact explanation of where they are

This is mostly related to people in cabins or places without address





The Placard

NØDPLAKAT

Brann: 110 Politi: 112 Medisinsk nødhjelp: 113

Ved henvendelse til nødstaten, oppgi følgende posisjon:

Min posisjon er 59 grader 33 minutter og 26 sekunder nord,
10 grader 17 minutter og 23 sekunder øst.
Stedet er: Killingdalen i Sande (Vestfold) kommune.



Generell koordinatinformasjon

Steder, stier og veier	Devisjoner	Devisjoner	UTM	UTM
Sted: 59° 33' 26"	10° 17' 23"	10° 17' 23"	50Q UTM 44Q UTM	50Q UTM 44Q UTM
Østing: 10° 17' 23"	50Q UTM	10° 17' 23"		

– value for Society

