

Knock! Knock! We are Open

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Aalborg 2014

**Nordic INSPIRE
Network**

Outline

- History of co-operation
- Prerequisites of successful co-operation
- Benefits of OS
- Challenges of OS
- How we work together
- Currently running projects
- Next steps



NOSIN – Nordic Open Source Initiative

- Started in 2010 by Director Generals
 - There was general agreement to use Open Source as basis of collaborative development
 - The directors wanted concrete results – not just another discussion forum
- Collaboration was started with national metadata catalogues
 - DK, SV, FI and NO were all planning to use GeoNetwork as their catalogue solution
 - The need for a valid CSW interface with regard to INSPIRE regulation was a common driver for co-operation
 - Also e.g. the Dutch Cadastre and the Scottish government worked closely with the Nordic countries on GN development and testing



MITÄ?

[Hae metatietoja](#)

Palauta oletusarvot [Tarkennettu haku](#)
[Tulosten laistus](#)

- Aineistot
- Inspire
- Kunnat
- Valtakunnalliset
- WFS
- WMS

- GeoRSS**
- Kymenlaakson maakuntaaava
 - Meren hydrografia- ja virtausennustedata HBM
 - Aaltoennustedata WAM
 - Meriveden korkeusennuste
 - Sääennustedata RCR Hirlam
 - Uudenkaupungin osoitekartat
 - Uudenkaupungin yleiskaavakartta
 - Uudenkaupungin ajantasa-asemakaava
 - Paimion suunnittelutarvealueet
 - Paimion ajantasa-asemakaava

Näytä kartta

TERVETULOA PAIKKATIETOHAKEMISTOON!

Hakukriteereihin perustuvat tulokset : 1-10/573 Valitse

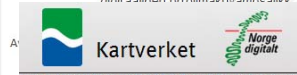
VANTAAN KAUPUNGIN VIISTOIL

Tiivistelmä Koko Vantaan alueesta määrävuc korkeudesta otetut kuvat. Kuvau itä-länsisuuntaisia 500 metrin väli 500 metrin välein. Kamera on suu

Avainsanat Ilmakuvat, Ortoilmakuvat

VANTAAN KAUPUNGIN ORTOILMAKUVAMOSAIIKKI

Tiivistelmä Vuodesta 1998 alkaen määrävuo ditin alainen ortoilma kuvamosaikk



Hjem | Kontakt oss | Metadatarforvaltning | Om metadatalakatalogen | Hjelp |

Søk Avansert søk

HVA?

HVOR?



VELKOMMEN TIL GEONORGE METADA

Resultat av søk : 1-10/918 (page 1/9)

WELC - Hvilken som helst -

Søk

Title Abstr Nullstill Alternativer

- Applikasjoner
- Datasett
- Karttjenester

SIST ENDRET

- N5000 Raster
- N2000 Kartdata
- N2000 Raster
- N250 Kartdata
- N250 Raster
- N1000 Raster
- N1000 Kartdata
- N500 Kartdata
- N500 Raster
- N5000 Kartdata

Metaata uua National Soil Inventory of Scotland

OnLine resource Interactive Map WMS layers

Spatial Reference System Reference system



Marker alle Vis på kort

10 Opdateringsdato Forrige Viser 1 til

VP2b2013 Arealanvendelse (dataset)

Grundlag for landsdækkende GIS-tema over

Download data Vis på kort Downl

Hældnings tema for arealer med mer

Temaet viser hældninger over 6 grader og er

Geonorge - metadatala

Hjem | Kontakt oss | Metadatarforvaltning | Om metadatalakatalogen | Hjelp |

Søk Avansert søk

HVA?

HVOR?



DELFT VANNKRAFT

Norges vassdrags- og energidirektorat

Type Datasett
Sammendrag Database over nedbørfelt (def. i REGINE) som drenerer til et vanninntak for kraftproduksjon. Egenskapsdata er delfeltnr., delfeltnavn, anavn og nr. på tilhørende vannkraftverk, areal, middel årtlig...

Nøkkelord Annet, kraftanlegg, vannkraft, delfelt vannkraft, ND_DS, Norge fastland

Metadatala Data for Download

VANNINNTAK

Norges vassdrags- og energidirektorat

Type Datasett
Sammendrag Database som inneholder punkt for inntak av vann til kraftanlegg. Inntak i magasin er ikke inkludert. Egenskapsdata er SSI-kode, tilhørende kraftverks nr., nr. på tilhørende delfelt og inntakets høy...

Nøkkelord Annet, inntak av vann, kraftanlegg, vanninntak, ND_DS, Norge fastland

Search panel Log in

Geodata SVENSKT BIT FOR BIT

Search Text: Freetextsearch...

Topics Environment

Basinverntering, flygbildstolkning

Biogeografiska regioner: Myrregionindelning

Biogeografiska regioner: Naturgeografiska regioner (enligt Nordiska ministerrådet 1994)

Biogeokemi

Biogeokemi, koppar (vianingstjänst)

Biotopkyddsområden beslutade av Skogsstyrelsen

Branschens Geotekniska Arkiv (Geosuite borrhål)

Branschens Geotekniska Arkiv (Geosuite borrhål) - WMS

Branschens Geotekniska Arkiv (Geosuite projektområde)

Branschens Geotekniska Arkiv (Geosuite projektområde) - WMS

BR.Biogeografiska regioner.WMS

EF.Nationell miljöövervakning: Hälsa, luft och miljögifter, vianingstjänst.WMS

EF.Nationell miljöövervakning: Landskap, jordbruk, skog, fjäll och våtmark, vianingstjänst.WMS

EF.Riksskogstaxeringens statistikprodukter INSPIRE

EF.Riksskogstaxeringens statistikprodukter INSPIRE ATOM

EF.Riksskogstaxeringens statistikprodukter INSPIRE WMS

EF.Stationsnät för nationell miljöövervakning, nedladdningstjänst.ATOM

Friskvårdsplaner

Page 1 of 2

Page Size 100 Show results 1 - 100 of 174

Om geodata-info.dk | Links | Hjælp | Log ind

Result

EX MD Links Type Title

Basinverntering, flygbildstolkning

Biogeografiska regioner: Myrregionindelning

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Friskvårdsplaner

Page 1 of 2

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Map

Feedback Map Help



Scottish SDI Discovery Metadata Catalogue

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WHAT?

Search

Reset Advanced Options

- Datasets
- Interactive resources

GeoRSS

- Listed Buildings (WMS)
- Listed Buildings (DATASET)
- BGS bedrock geology (INSPIRE download service WFS 2.0)
- BGS GeoIndex - Offshore (MEDIN oil and gas industry site surveys) data theme (OGC WxS INSPIRE)
- BGS GeoIndex - Offshore (cultural data) data theme (OGC WxS INSPIRE)
- BGS GeoIndex - Offshore data theme (OGC WxS INSPIRE)
- BGS INSPIRE download service feed
- BGS offshore marine products (OGC WxS INSPIRE)
- Open-loop Ground Source Heat Pump viability screening map, England and Wales (OGC WxS INSPIRE)
- Normal background concentrations of contaminants (OGC WxS INSPIRE)



What do you need to work together successfully?

- Mutual trust "We work towards a common goal"
- Commitment "I'll do what I promised"
- Positive attitude "It's possible"
- Reach consensus "Sure we can agree upon this"
- Openness "Sharing information : 1+1+1+1 is 10"
"We need something similar - let's do it together and share results!"



Open Source – Pros

- Mostly free of charge
- Modifications and further development easier
- No vendor lock-in
- Sharing of results
- Collaborative development possible
- Faster bug fixes and improvements
- The community of an established project constantly improves the software

Some bullets © Anders Friis-Christensen (2010)



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Open Source – Concerns

- The maturity of the software?
- Broad or small developer/user community?
- There are often dependencies of other OS software projects
- Isolated branches: If you do further developments to the software without integrating into the main project, there is extra work involved in keeping up with main version releases

Some bullets © Anders Friis-Christensen (2010)



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Setting the Agenda

- Plan of activities is prepared by the group
 - The plan can be adjusted if a new co-operation item arises
- The plan is presented to Director Generals each year
- Director Generals are committed to NOSIN goals
 - Commitment = resources
- Reporting of activities on a yearly basis



Coordination of Work

- A country coordinates the NOSIN activity for one year
 - As of 2014, for a two-year period
- Coordinator has the responsibility to make sure that
 - Regular telecons/web meetings are arranged
 - At least one face-to-face meeting per year is arranged
 - Planning and reporting is taken care of



Organisation of Work

- Subgroups
 - Are formed around co-operation topics, at least two countries
 - Have a person responsible for the activity
 - Can arrange their work as they see fit and have webmeetings/telecons of their own
 - Report on their progress to the whole group on a regular basis
 - Have their own Wiki space (editable by everyone in NOSIN)
- Funding on collaborative basis
 - Participants' work is in-kind
 - If purchasing of work is needed, the organisations agree on the items or amount of work hours to be purchased
 - Each organisation makes a purchase agreement of their own



Currently active subgroups

- GeoNetwork
 - Further development regarding e.g. OpenSearch
- Metadata editor webforms development
 - Usability of entering metadata
- INSPIRE service validation
 - Evaluation of validation options
- Authentication and Authorisation
 - Nordic test federation
- Download service client software
 - Investigation of options, e.g. using the Oskari software
- Additionally, the Nordic countries are working together in international projects such as E.L.F. and Arctic SDI



Experiences

- It is not always easy to stick to the "ideal" way of working – but it has to be the goal
- Working together facilitates mutual understanding and knowledge exchange
- **Aligning the countries' needs and developing the required functionalities together saves both time and money**
- 😊 **It's good fun to work together!** 😊



The Next steps?

- Collaborative development between National Land Surveys
- First attempt to be made within the E.L.F. project
 - Use GitHub repositories for shared development
 - The SLD Editor component is to be developed in co-operation with NLS FI and Lantmäteriet
 - Kartverket and GST to follow and support development
- Instant messaging solution to facilitate better and more frequent communication
- How to handle bid procedures and purchase agreements if development is outsourced?



Thank You!

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