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| NOSIN working group |
| Reporters NameKjell Hjorth | [Meeting Time] | [Meeting Location] |
| Chairman  | Kjell Hjorth |
| Attendees/members | Kjell Hjorth, kjell.hjorth@lm.seTom Ellett, Thomas.Ellett@kartverket.noRolf Dybdal, Rolf.Dybdal@kartverket.noErik Gustaffson, Erik.gustafsson@lm.seMichael Östling, michael.ostling@metagis.seMauritz Bomark, Mauritz.Bomark@lm.seLars-Inge Arnevik, Lars-Inge.Arnevik@kartverket.noKai Koistinen, Kai.koistinen@nls.fiHafliði Sigtryggur Magnússon, haflidi@lmi.isEsa Tiainen, esa.tiainen@maanmittauslaitos.fiFredrik Persäter, fredrik.perater@lm.seHenrik Lund Pedersen, Henrik.lund.pedersen@kartverket.noTeijo Kalliomäki, teijo.kalliomaki@nls.fi Jakob Ventin, jakob.ventin@maanmittauslaitos.fiSami Mäkinen, sami.makinen@maanmittauslaitos.fiJörgen de Martino Larsen, jolde@sdfe.dkTimo Aarnio, Timo.Aarnio@maanmittauslaitos.fi |
| Host of the meeting | Several web meetings, one physical meeting in Helsinki |
| Reporting period | 2017/18 | Atlassian Wiki |  |
| Purpose of the group | 1. On behalf of the Executive working group “Development and IT”, carry out given relevant tasks and subsequently report back progress and results.
2. To jointly evaluate, develop and configure open source software solutions for national and for INSPIRE spatial data infrastructures in participating countries.
3. Share tech knowledge and experience on SDI´s and form common Nordic viewpoints and strategies on these issues as input to our participation in the INSPIRE MIG workgroups.
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| Conclusions of the meetings  | Benefits out of NOSIN cooperation so far:* Joint development concerning implementation of national metadata catalogue (GeoNetwork)
* Shared information and knowledge about service development platforms
* Used results achieved in cooperative organizations
* Analyzed and found common approach to the Inspire implementation
* Creation of an effective and honest sounding board for more effective development
* The group facilitates other Nordic co-operations as for example Arctic SDI and setting up activities for exchange of knowledge by workshops or exchange of knowledge for specific tasks
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| Tasks for 2017-2018 | 1. Linked Open Data/Unique identifiers/Registers
2. GeoNetwork/Catalogue services/Open data related
3. Service and Data Infrastructures
4. Analyze trends
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| Consequences for other Nordic WG/Network |
| Name of group (1) | At the moment, none. But we follow and contribute to the Inspire work groups on national, Nordic and European level. |
| Action Items |  Date of deadline |
| Name of group (2) |  |
| Action Items | Date of deadline |
| Future strategy of the group |
| 2- 3 years view |
| Future strategic tasks | 1. Linked Open Data/Unique identifiers/RegistersLinked Open Data within the spatial community is beginning to get traction as more and more NMCA’s recognize that to fully utilize the benefit of primarily open, authoritative data, it needs to be accessible within standard non-spatial systems and understandable by laymen. This goal can be met by the provision of data through the RDF framework following best practice recommendations.
2. GeoNetwork/Catalogue services/Open data relatedGeoNetwork is a common platform for all countries. For efficiency reasons and to bypass obstacles solved by others cooperation will lead us forward**.**The main focus is knowledge exchange of ongoing work and technologies for Geonetwork and for general issues related to catalogue services and Spatial Data Infrastructures.
3. Service and Data InfrastructuresRegular meetings to exchange experiences in implementation of- OGC Services (WMTS, WMS, WFS, WCS, SOS, Vector Tiles) and REST API´s. Focus on general system development techniques, frameworks and testing. Techniques for change detection in data and Incremental updates of tile caches for our WMTS services. Vector Tiles is starting to mature and all the Nordic mapping agencies have started work to evaluate and test different approaches. Concerning REST API’s we have so far observed interesting signals from Inspire and OGC, Spatial Data On the Web and the process of developing a new standard WFS 3.0.
4. Analyze trendsThere is a need concerning analyzing technical trends as sensor data, 3D, positioning data, Big Data, Block chains, etc. How new technology impacts our organizations in the future. How can we prepare for the future?

Work and cooperation on the ongoing topics from last year will continue but here might be new issues upcoming connected to the built of the SDIs.All countries are more or less in the phase of setting up national geospatial platforms facilitating the users of data for easy access. A lot of experience and solutions from this groups work can benefit in this work the coming years. |
| How the WG contributes to the Nordic strategy |
| Write what goals the WG supports and how you do it. |
| 1. Needs of society – present & future trends
 | By analyzing the trends in this we can support better solutions for our end users.Describe how the NMCAs may act to meet the future demands and highlight areas in which Nordic co-operation is a relevant tool.  Map out relevant technical and social trends that might influence current and future needs of our societies. Describe how the NMCAs may act to meet the future demands and highlight areas in which Nordic co-operation is a relevant tool.  Map out relevant technical and social trends that might influence current and future needs of our societies.  |
| 1. Positioning of the NMCAs’ role in future society
 | By sharing work and ideas of solutions to achieve a well-functioning infrastructure for spatial data we support the positioning of the NMCAs.  |
| 1. Future services and data solutions
 | The speed in new technique solutions for services and data solutions increase. The cooperation in the group help us to follow and get the best out of it |
| 1. Efficient organizations
 | Using experiences and avoid mistakes by learning of each other we contribute to more efficient organizations. |
| 1. Shared competences
 | A lot of knowledge and experiences are shared in the group useful for more efficient development. |
| 1. Cooperation in the international arena
 | The Nordic NMCAs becomes stronger together in the international arena, especially in the discussions of implementation of Inspire*.* |
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