

Machine Learning ad-hoc group

The crucial question:

“What is the role of the Nordic NMA’s in a Machine Learning context”

Scope of group

The overall goal of the ad-hoc group is to answer the crucial question focusing on mapping, updating of map data and QA of map data from aerial data acquisition. Apart from answering the crucial question, the main goal is to share knowledge across the Nordic countries and help give momentum to the use of ML in mapping. Both identifying the use cases where ML has the biggest potential and getting from research into production is of big importance and will be looked at.

Possible roles could be e.g.

- As a provider of ML ready data
- As a provider of ML ready data, how do we generate and work with training data
- As an In-house developer of ML algorithms
- As a user of ML services (from ESRI, Bentley, FME)
- As an instigator driving use and development, pushing e.g. universities, business etc.

Answering the crucial question will be achieved through discussion between interested Nordic NMAs at a number of web meetings and if possible, a physical meeting near the end of the project.

Possible benefits from the project

- Shared knowledge
- Shared training data
- Shared algorithms
- Shared common workflows

Time frame and Roadmap

Covering this topic in only half a year can be challenging. For this reason the timeline in the road map is set to a one year span with kick-off shortly after the “store chefmøde” 2020. But to adhere to the ad-hoc concept and to enter the possibility for input and adjustments from the board, the project is cut into two distinct halves, with a stop-and go midway. At this midway point, findings from the first part will be presented and the board can give feedback and decide if it second half.

Roadmap

1. Kick off webinar - sep 2020
State of development: Show and tell half day webseminar, where each country present the state of ML in their respective mapping agencies
2. Core group to create a survey/questionnaire
3. Each country to fill out a **survey** concerning practical and strategic views on ML
4. Selection of relevant deep dive topics and a single deep dive if time permits
5. Core group to compile project presentation
6. Presentation of findings and **Stop-n-Go** at the "Lille Chefmøde" end march 2021

7. Number of **deep dive meetings** with focus on specific topics, e.g. specific use cases, specific algorithms, training data, strategic consequences of ML etc.
8. Core group to compile project presentation
9. Presentation of findings at the "Store Chefmøde" end august 2021

Note: Core group will meet more regularly to ensure progress in the work