Nordic BIM collaboration

NordLCA Webinar

November 18th, 2020
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Projects and Road Engineering
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• Strategic BIM coordination in DRD
• National BIM collaboration in BIM infra.dk
• Nordic Road and Rail BIM Collaboration

Session II: Working with BIM and LCA
Nordic BIM collaboration through NordFoU

• Overview of common Nordic BIM activities
• Application for a NordFoU project
• Activities in 2021
BIM
Digital transformation

- NOT one software application
- Standardized Information modelling
- Standardized Information management

CONTENT
... in the model(s)
Combined information which constitutes the information model

DIGITIZATION
...of workflows
Digitalization and automation of workflows

INTEROPERABILITY
...of information
Information flow between stakeholders

COLLABORATION
...within the project
Data availability and utilization
### Sustainability in BIM

**Draft biminfra.dk definitions**

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<th>Level</th>
<th>Description</th>
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<td>Optimizing</td>
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Nordic Road & Rail BIM Collaboration
Established 2017

1. Discuss and share “best practice” between the Nordic countries.
2. Discuss alignment of demands, requirements and standards
3. Seek influence in international- and European standardization

Norway
- Statens vegvesen
- Nye Veier
- BaneNor

Sweden
- Trafikverket

Finland
- Väylä

Denmark
- Vejdirektoratet
- Banedanmark
Meeting February 2020

We formed working groups
• Revision of the cooperation framework
• BIM maturity model
• MMI/LOD/LOI definitions
• BIM Classification

Based on the acknowledgments
• Classification report showed the benefit of doing joint studies
• We can work closer together with unified BIM definitions

This implies a MoU review
• Purpose
• Organization
• Financing
NordFoU

Presumption: We can agree on a common project and on the scope and the outcome of this

- The Nordic Road and Transportation authorities are all member of NordFoU.
- It is possible to include railway organizations

NBC 2.0
- Continues discussion and sharing of “best practice” in NBC
- We need a BIM program
- Use the NordFoU framework for initialize, finance and run R&D projects
NordFoU project

Status

- Use NordFoU set up to run a R&D project defining how we collaborate on BIM
- Draft “NordFoU BIM project plan” sendet to the NordFoU steering committee
- Detailed project planning has started

Challenge and discussion

- Identify common value across countries
- Limit the scope
- Management expectations across countries
Deliveries drafted in the project plan

- Create and communicate a common understanding of BIM
- Identify benefits using BIM
- Give an overview and analyze relevant standards
- Common BIM maturity model
- Complete a maturity assessment
- Develop a “Programme brief/programme definition” and update the NBC Memorandum Of Understanding
## Workpackage and project plan

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<thead>
<tr>
<th>Work packages</th>
<th>2021 Q1</th>
<th>2021 Q2</th>
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<td>P1 Nordic relationship between relevant international standards</td>
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<td>P2 Create and communicate a common understanding of BIM</td>
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<td>P3 BIM maturity model and measurements</td>
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<td>P4 Benefits of using a Nordic BIM approach</td>
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<td>P5 Nordic BIM programme</td>
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Next step

- Each organisation returns with members to the “project decision group” that will approve the finalized project to NordFoU.
- Each member has to ensure the decisions needed in their own organisation.

NBC NordFoU BIM draft project proposal created by:

- Ingemar Lewén, Trafikverket
- Sayidali Ahmed, Trafikverket
- Rasmus Fuglsang, Vejdirektoratet
- Joakim Lockert, Banedanmark
- Tarmo Savolainen, Vayla
- Marion Schenkwein, Vayla
- Kristin Lysebo, Banenor

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