

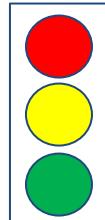
Action plan for Operation and Maintenance

Plan for period 1st July 2024 – 30th June 2028

Chairperson: Jens Kofoed, jk@vd.dk

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When doing the follow-up of the action plan, the traffic light system can be used as an indicator of work progress. Simply copy the appropriate color and place it in the title column of the corresponding year.



Terms of Reference

A working group will be established to exchange experience in operation and maintenance and will deal with i.e., the following matters:

a) Winter operation 

- Key figures and market statistics, continues, updating the common Nordic statistics about winter services
- Contracting / procurement, incl. dynamic salting, existing knowledge about winter services, effective maintenance and operations
- How can winter services become more sustainable, incl. in connection with recovery and recycling, transport and spreading of salt as well as snow clearing?
- Winter maintenance for pedestrians and cyclists
- Digitalization and predictive maintenance, incl. use of data from vehicles, mobile sensors, AI, etc.
- Electrification of Winter Operation

b) Asset management focusing on other assets (not structures and surfacing) 

- Relevant data for maintenance, incl. lifetime, replacement intervals, etc.?
- How to prioritize across assets?
- Benchmarking of Asset management systems in the Nordic countries.

c) Climate and resilience 

- How to prepare for natural phenomena in maintenance? How to react in contracts and in practice to different kind of winters (equipment requirements, forecasting)?

Focus Areas and Planned Actions 2025 Reporting and follow-up on the action plan		
Focus Areas	Planned Actions	Short Report on the Completed Plans by 1st November 2025
<p>The operation and Maintenance group has app. 45 members, divided into three different working groups:</p> <p>Asset Management (app. 15 members) Chair: Susanna Suomela, SF Vice-Chair: Håkon Ø. Alstad, N</p> <p>Climate and Resilience (app. 8 members) Chair: Hjalti Gudmundsson, ISL Vice-Chair: Anna Arvidsson, S</p> <p>Winter (app 25 members) Chair: Andreas Bäckström, S Vice-Chair: Anna Arvidsson, S</p> <p>Asset Management: The working group is set to share knowledge and information on asset management practices in each member country, including asset management systems, data collection, new technologies, prioritizing, economics, etc.</p> <p>Climate and Resilience: Climatic change is one of the most important environmental issue in recent times.</p> <p>As temperature rises, a simplified reaction of the regional weather systems is increased storm activity.</p> <p>This scenario has in most cases a significant effect on transport infrastructure which in turn disrupts the daily life.</p> <p>The group will focus on these weather incidences affecting the</p>	<p>The O&M group arranges a Kick-off meeting in 2024.</p> <p>In the coming years there will be a winter meeting (January) on Teams and a summer meeting physically (June).</p> <p>On these meeting we will follow and discuss the work of the three working groups and other related topics.</p> <p>Asset Management: Meetings: # 0: Tue 22 Oct 2024 Teams (2 h), Topic: organizing, setting a chairman and a co-chairman, round the table (presentations, needs, interests, skills) # 1: Wed 11 Dec 2024 Teams (2 h), Topic: Foundation for Asset Management, new technologies #3: March/April Teams (2 h), Topic: to be defined #4: O&M Summer Meeting in Faroe Islands, Topic: Team building #4: Tue 7 Oct 2025 (Teams 2h) Topic: Current issues in AM / each country #5: Tue 9 Dec 2025 (Teams 2h) Topic: Planning year 2026</p> <p>Climate and Resilience: The group plan to collect stories of weather incidences on a regional scale and record the impact on the transport infrastructure.</p> <p>This will be implemented by collecting information and data from various relevant state, regional and local authorities.</p> <p>The actions implemented by the relevant authorities, to prevent damage and disruption of the system, will be summarized.</p>	<p>The Kick-off meeting was held on Teams 7/10. 28 members participated. The three working groups were formed, and their Kick-off planned.</p> <p>O&M group The O&M group arranged a Winter meeting on Teams 20th of January 2025.</p> <p>The O&M group arranged an Annual meeting in Torshavn 10-12 of June 2025.</p> <p>Asset Management: The group has met and discussed the plans, goals and actions regarding the objectives of the group. In the first meeting the members shared what they want to contribute to the work as well as proposals for current topics. This will be the basis for a more detailed plan.</p> <p>During 2025, the size of the AM group has shrunk to less than 10 people, and the group activity is about 50-60 % of group per each meeting. Our vice-chair left his position in the spring. The remaining group has discussed how to increase activity, but the group is quite small.</p> <p>Climate and Resilience: The group has presented their first report at the O&M summer meeting in Torshavn (Faroe Islands) 2025. Additionally, a draft report has been made on the subject which will be sent to the O&M group when ready. With this, the group has fulfilled the basic objective of collecting stories of weather incidents on a regional scale and recording the impact on the transport system. We will</p>

<p>transport infrastructure and propose possible ways to increase resilience of the system against climate change.</p> <p>Winter: The working group at first aims to create a basic understanding of how the Nordic countries are structured in terms of private and government organizations to solve the need for sustainable winter road maintenance.</p> 	<p>The group will present the result in other relevant groups and in a special online seminar dedicated to the result.</p> <p>Winter: Activity # and THEME</p> <p># 0, Mon 21 Oct 2024 Teams Online (1,5h) Kick-Off, Organizing, Short Self-Presentation</p> <p>#1, Fri 7 Feb 2025 Teams Online (2h) at 9-11 Short presentation of organization, Business intelligence (BI)</p> <p>#2, 1X-1X June 2025 Torshavn, Faroe Islands DoU Summer meeting, Team building</p> <p>#3, Fri 12 Sep 2025 Teams Online (2h) at 9-11 Requirements, Business Intelligence focus Road Safety</p>	<p>hence continue the work as described in Planned Actions.</p> <p>Winter: The working group aims to produce status reports as previous periods since 2009.</p> <p>A status report for winter road maintenance has been produced since 1991 in some form of Nordic cooperation.</p> <p>From 2009 onwards, the status report has been prepared via NVF and until 2012 the status reports were yearly, but since 2012 a status report has been produced every two years. Previous reports that have been produced since 2009 on NVF's website.</p>
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Focus areas and Planed Actions for 2026		
Focus Areas 2026	Planned Actions 2026	Short Report on the Completed Plans Deadline 1st November 2026
<p>O&M group App. 45 members, divided into three different working groups: 1) Asset Management (15 memb) Chair: Susanna Suomela, SF Vice-Chair: Vacant 2) Climate and Resilience (8 memb) Chair: Hjalti Gudmundsson, ISL Vice-Chair: Anna Arvidsson, S 3) Winter (25 members) Chair: Andreas Bäckström, S Vice-Chair: Anna Arvidsson, S</p> <p>Asset Management: To share knowledge and information on asset management practices in each member country, including asset management systems, data collection, new technologies, prioritizing,</p>	<p>O&M group The O&M group arranges a Winter meeting on Teams 21st of January 2026.</p> <p>The O&M group arranges an Annual meeting in Reykjavik 26-28 of May 2026.</p> <p>Asset Management: The group size has shrunk to less than 10 people, and the group activity is about 50-60 % of group / each meeting. Small group size reduces the effectiveness of the activities. Next year, the group will try to expand its membership base and its activity.</p> <p>The group will host regular virtual (Teams) meetings and one live meeting.</p>	<p>Asset Management:</p> <p>Climate and Resilience:</p> <p>Winter: [insert text here, dl 1st November 2026]</p> <p>Instructions: [please remove the instructions when you are finished]</p> <p>You can describe here the main up comes from the WG from this year. Did the WG achieve all the goals, and how? What has been done for achieving the planned actions?</p> <p>Which events (seminars, meetings, etc.) has the working group</p>

<p>economics, etc. The group's aim is to help one another in current AM issues by bringing the topics to meetings to discuss and sharing knowledge.</p> <p>Over the next two years the group will focus on strengthening Nordic collaboration and knowledge exchange across the asset management sector.</p> <p>Climate and Resilience: The group will focus on weather incidences affecting the transport infrastructure and propose possible ways to increase resilience of the system against climate change.</p> <p>Over the next 2 years the group plans to continue to review the situation in each country, to review plans for how the transport system is adapting to climate change. We will compare different approaches between countries/authorities and try to form a common line between different countries or authorities. This will be discussed in meetings of the group over the given period.</p> <p>Winter: The working group aims to create a basic understanding of how the Nordic countries are structured in terms of private and government organizations to solve the need for sustainable winter road maintenance.</p> <p>The working group is set to share knowledge and information on Winter Road Maintenance practices in each member country, including Maintenance Decision Support Systems (MDSS), data collection, follow-up, new technologies, prioritizing, economics and environmental issues.</p> <p>The working group still aims to produce status reports as previous periods since 2009. A status report for winter road maintenance has been produced since 1991 in some form of Nordic cooperation. From</p>	<p>The topics and the group's meeting for 2026 are to be defined in December 2025 meeting. The plan is to meet at least 3 times per year (via Teams and once live).</p> <p>Climate and Resilience:</p> <p>Winter: Each meeting agenda are be planned based on the topics the group finds currently fruitful to share or discuss.</p> <p>Activity # and THEME #4, Thu 26 – Fri 27 Mar 2026 Copenhagen, DK Requirements follow-up, SB Copenhagen Municipality/Vejdirektoratet Team building, BI</p> <p>#5, Thu 18 - Fri 19 Jun 2026 XXXX, Finland DoU summer meeting, SB</p> <p>#6, Thu 8 Oct 2026 Teams Online (2h) at 9-11 Environmental requirements/follow-up (digital), BI</p>	<p>organized? What was the purpose? What was achieved?</p> <p>Were there that kind of successes or practices in the activities that you could recommend to other working groups as well?</p>
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2009 onwards, the status report has been prepared via NVF and until 2012 the status reports were yearly, but since 2012 a status report has been produced every two years. Previous reports that have been produced since 2009 on NVF's website		
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Focus areas and Planed Actions for 2027		
Focus Areas 2027 Deadline 1st November 2025	Planned Actions 2027 Deadline 1st November 2025	Short Report on the Completed Plans Deadline 1st November 2027
Asset Management: Climate and Resilience: Winter: [insert text here, focus areas described on a very rough level , dl 1 st November 2025] <i>e.g. The Sustainable Development Goals can be added in 11/2026 ...</i>	Asset Management: Climate and Resilience: Winter: [insert text here, planned actions described on a very rough level , dl 1 st November 2025] <i>e.g. Meeting plan 2027:</i> ... If you are planning live meetings or seminars, it's important to add the country where it will take place.	Asset Management: Climate and Resilience: Winter: Instructions: You can describe here the main up comes from the WG from this year. Did the WG achieve all the goals, and how? What has been done for achieving the planned actions? Which events (seminars, meetings, etc.) has the working group organized? What was the purpose? What was achieved? Were there that kind of successes or practices in the activities that you could recommend to other working groups as well?

Focus areas and Planned Actions for 2028		
Focus Areas 2028 Deadline 1st November 2025	Planned Actions 2028 Deadline 1st November 2025	Short Report on the Completed Plans Deadline 1st November 2028
<p>Asset Management:</p> <p>Climate and Resilience:</p> <p>Winter:</p> <p>[insert text here, focus areas described on a very rough level, dl 1st November 2025]</p> <p>e.g. <i>The Sustainable Development Goals can be added in 11/2027 ...</i></p> <p>.</p>	<p>Asset Management:</p> <p>Climate and Resilience:</p> <p>Winter:</p> <p>[insert text here, planned actions described on a very rough level, dl 1st November 2025]</p> <p>e.g. <i>Meeting plan 2028:</i></p> <p>...</p> <p>If you are planning live meetings or seminars, it's important to add the country where it will take place.</p>	<p>Asset Management:</p> <p>Climate and Resilience:</p> <p>Winter:</p> <p>Instructions: [please remove the instructions when you are finished]</p> <p>You can describe here the main up comes from the WG from this year.</p> <p>Did the WG achieve all the goals, and how? What has been done for achieving the planned actions?</p> <p>Which events (seminars, meetings, etc.) has the working group organized? What was the purpose?</p> <p>What was achieved?</p> <p>Were there that kind of successes or practices in the activities that you could recommend to other working groups as well?</p>