

## Action plans for NVF Working Groups

### Plan for period 1<sup>st</sup> July 2024 – 30<sup>th</sup> June 2028

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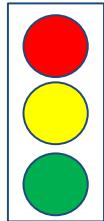
# Action plan for Bridges

## Plan for period 1<sup>st</sup> July 2024 – 30<sup>th</sup> June 2028

Chairperson: Southinanh Oudomphanh,  
[southinanh.oudomphanh@vegvesen.no](mailto:southinanh.oudomphanh@vegvesen.no)

Vice-Chairperson: Kristine Tybring Lindtveit,  
[kristine.tybring.lindtveit@vegvesen.no](mailto:kristine.tybring.lindtveit@vegvesen.no)

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 construction and operation of bridges and to plan bridge seminars. The working group should address the following matters:

a) Climate Bridge construction and maintenance face still greater demands for climate and environmental management. 

- Experience obtained in the use of climate and environmental models, including models for CO2 footprint, from bridges (both construction and maintenance).
- Reductions and models for preparing baselines.
- How CO2 is calculated in the various models, and how choice of materials and optimization of design may help reduce the CO2 footprint of structures.

b) Digitization 

- Knowledge about the potentials of digitization and the specific experience of the sector regarding digitization of the construction and maintenance of bridges.
- Using sensor technology and artificial intelligence, artificial intelligence used for condition assessments and risk-based maintenance.
- The digitization within bridge maintenance and exchange experience in online condition assessments.

c) Asset management 

- The experience in asset management of 'bridge' assets with focus on how best to maintain the value and functionality of bridges.
- Share knowledge about Asset Management processes.

### Focus Areas, Planned Actions and reporting 2025

Focus Areas	Planned Actions	Short Report on the Completed Plans
<b>Arrangement of seminars and webinars</b>	2025: A main seminar will be planned for autumn 2025 focusing on the topics below that raise the strongest engagement within the group. Webinars may be arranged for lighter topics.	4 meetings with presentations <ul style="list-style-type: none"><li>- Carbon footprint of bridges by Magnús Arason, EFLA</li><li>- Assessing the remaining useful life of concrete structures by Bruna Frydman, Arup</li><li>- Masonry Bridges – Digital twin, FEM, model calibration and</li></ul>

		<p>soil-structure interaction by Amirhosein Shabani, Oslo City</p> <p>2 webinars</p> <ul style="list-style-type: none"> <li>- Bridges to biodiversity by Lyubomira Vasileva, Rambøll</li> <li>- Bridge monitoring - will it solve our problems? by Heikki Lilja, HLC</li> </ul> <p>1 seminar (Finland)</p>
<p><b>Climate, digitization, and asset management</b></p> <p>Focus on following Sustainable Development Goal / Targets (see attached SDG outline)</p> <p>Target 9.4</p> <p>Target 9.5</p> <p>Target 12.2</p> <p>Target 12.5</p> <p>Target 12.7</p> <p>Target 13.2</p> <p>The focus areas are overlapping for several of the planned actions. Focus areas are highlighted in planned actions with bold text and brackets.</p>	<p>- Follow-up of work performed in the previous period regarding calculations of carbon footprint in bridge design. Implementation of carbon footprint calculation in construction contracts and actual effect. <b>(Climate/Digitization)</b></p> <ul style="list-style-type: none"> <li>- Use of new materials/new technology that helps reducing environmental impact and material use: <ul style="list-style-type: none"> <li>a) Status on use of new materials/new technology in Nordic countries <b>(Climate/Asset Management)</b></li> <li>b) Examples of applications where material use was significantly reduced or environmental impact was positive, and demonstration of models for quantification of material savings/environmental impact <b>(Climate/Digitization)</b></li> <li>c) Reuse of bridge components <b>(Climate/Asset management)</b></li> <li>d) Implementation of new materials – the role of standards and national design regulations</li> </ul> </li> <li>- Follow-up of work performed regarding the critical review of local design regulations with regards to overdesign and excessive material consumption.</li> </ul> <p>Conservativeness/robustness vs. overdesign and increase of material use:</p> <ul style="list-style-type: none"> <li>a) Effect of next generation Eurocode. Status and assessment of impact on bridge design <b>(Climate)</b></li> <li>b) Implementation and adjustment in national design regulations <b>(Climate)</b></li> <li>c) Advanced tools leading to optimization and/or giving insight</li> </ul>	<p>All topics were treated through presentations and exchange between all members.</p> <p>Carbon footprint implementation in contracts and actual effects</p> <ul style="list-style-type: none"> <li>• Carbon footprint of bridges by Magnús Arason, EFLA</li> <li>• Bridges to biodiversity by Lyubomira Vasileva, Rambøll</li> <li>• How can Trafikverket reduce environmental impact and carbon footprint using contract requirements? by Jacob Vennberg, Trafikverket</li> <li>• Construction and lifecycle emissions of small concrete bridges according to Väylävirasto's typical designs for frame and slab bridges (bridge length &lt;25 meters) by Kasperi Pirttikoski, Rambøll Finland</li> <li>• LOKI – Icelandic CO2 calculator for infrastructure projects. Introduction to the tool and the Icelandic Road and Coastal Administration's goals for implementation by Andri Gunnarsson, EFLA and Einar Óskarsson/Guðmundur Valur Guðmundsson, Vegagerðin</li> </ul> <p>Use of new materials/technologies to reduce environmental impact</p> <ul style="list-style-type: none"> <li>• Status on use in Nordic countries</li> <li>• Examples of application</li> <li>• Reuse of bridge components</li> <li>• Role of standards and design regulations</li> </ul>

	<p>in material savings <b>(Climate/Digitization)</b></p>	<ul style="list-style-type: none"> <li>• Assessing the remaining useful life of concrete structures by Bruna Frydman, Arup</li> <li>• Masonry Bridges – Digital twin, FEM, model calibration and soil-structure interaction by Amirhosein Shabani, Oslo City</li> <li>• Bridge monitoring - will it solve our problems? by Heikki Lilja, HLC</li> <li>• Advanced structural assessment of existing bridges – economic optimization and documented safety by Frederik Autrup, Rambøll Denmark</li> <li>• Challenges with reuse of bridge components by Andri Gunnarsson, EFLA</li> <li>• Portfolio management for better sustainability by Arianna Minoretti, NPRA</li> </ul> <p>Last topic was not treated as it was deemed too technical and is treated by other Nordic initiatives.</p>
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Focus areas and Planed Actions for 2026 <i>Bridges</i>		
Focus Areas 2026	Planned Actions 2026	Short Report on the Completed Plans Deadline <b>1st November 2026</b>
<p><b>Climate, digitization, and asset management</b></p> <p>Focus on following Sustainable Development Goal / Targets (see attached SDG outline)</p> <p>Target 9.4 Target 9.5 Target 12.2 Target 12.5 Target 12.7 Target 13.2</p> <p>The focus areas are overlapping for several of the planned actions. Focus areas are highlighted in planned actions with bold text and brackets.</p>	<p>Exchanging information, knowledge experience and best practices between the countries and among the members of the working group.</p> <ul style="list-style-type: none"> <li>- Regular meetings (approx. 5 meetings)</li> <li>- Webinars <ul style="list-style-type: none"> <li>- Historical bridges and how they are managed (tentative)</li> </ul> </li> </ul> <p>Physical/hybrid seminar (location to be confirmed)</p> <ul style="list-style-type: none"> <li>- Spring 2026: Hybrid meeting, Gothenburg, Sweden</li> <li>- Autumn 2026: Seminar with technical tour, Norway (tentative)</li> </ul> <p>We plan to focus on <b>asset management</b>, combined with the other themes. The following topics are suggestions.</p> <ul style="list-style-type: none"> <li>- SHM (Structural health monitoring); examples of</li> </ul>	

	<p>practical implementation, challenges with data-analysis, national guidelines ...</p> <p><b>(Digitization, climate, asset management)</b></p> <ul style="list-style-type: none"> <li>- Reliability-based analysis of structures; national guidelines, experience from leading countries ... <b>(Digitization, climate, asset management)</b></li> </ul> <p>BIM (Building Information Modeling); national guidelines, practical experience, BIM in asset management ... <b>(Digitization, climate, asset management)</b></p>	
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Focus areas and Planed Actions for 2027 Bridges		
Focus Areas 2027	Planned Actions 2027	Short Report on the Completed Plans Deadline <b>1st November 2027</b>
<p><b>Climate, digitization, and asset management</b></p> <p>Focus on following Sustainable Development Goal / Targets (see attached SDG outline)</p> <p>Target 9.4 Target 9.5 Target 12.2 Target 12.5 Target 12.7 Target 13.2</p> <p>The focus areas are overlapping for several of the planned actions. Focus areas are highlighted in planned actions with bold text and brackets</p>	<p>Exchanging information, knowledge experience and best practices between the countries and among the members of the working group.</p> <ul style="list-style-type: none"> <li>- Regular meetings (approx. 5 meetings)</li> <li>- Webinars – subjects to be determined</li> </ul> <p>Physical/hybrid seminar (tentative location: Iceland, to be confirmed)</p> <p>We are considering exchanging on the topic of strengthening and rehabilitation techniques on bridges.</p> <p>The topic would be related to all three main themes.</p>	

Focus areas and Planed Actions for 2028 Bridges		
Focus Areas 2028	Planned Actions 2028	Short Report on the Completed Plans Deadline <b>1st November 2028</b>
<b>Climate, digitization, and asset management</b>	Exchanging information, knowledge experience and best practices between the countries	

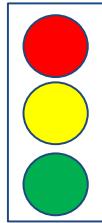
<p>Focus on following Sustainable Development Goal / Targets (see attached SDG outline)</p> <p><b>Target 9.4</b></p> <p><b>Target 9.5</b></p> <p><b>Target 12.2</b></p> <p><b>Target 12.5</b></p> <p><b>Target 12.7</b></p> <p><b>Target 13.2</b></p> <p>The focus areas are overlapping for several of the planned actions. Focus areas are highlighted in planned actions with bold text and brackets</p>	<p>and among the members of the working group.</p> <ul style="list-style-type: none"> <li>- Regular meetings (approx. 5 meetings)</li> <li>- Webinars – subjects to be determined</li> </ul> <p>Physical/hybrid seminar (to be confirmed as most members will not be able to travel both to Via Nordica and an additional physical seminar)</p> <p>We are considering exchanging on the topic of local procurement in the bridge industry. This would give an overview of competence and production available in the Nordic countries.</p> <p>The topic would be mainly related to climate and asset management.</p>	
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# Action plan for Nordic Construction Market

## Plan for period 1<sup>st</sup> July 2024 – 30<sup>th</sup> June 2028

Chairperson: Jörgen Simu  
[jorgen.simu@trafikverket.se](mailto:jorgen.simu@trafikverket.se)  
Vice-Chairperson: Göran Domås  
[goran.domas@trafikverket.se](mailto:goran.domas@trafikverket.se)

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 of using new forms of contracts and of the opportunities this experience offers the Nordic construction market. The working group should address the following matters:

- a) New contracting formats (e.g., relational contracting, negotiated procedure, early contractor involvement, IPD (Integrated Project Delivery, etc., Risk balance/risk distribution) (continues) ●
- b) International service provider ●
  - How to manage/attract, risks/opportunities
  - Common Nordic Infrastructure Market
  - Risk balance/risk distribution
- c) Sustainability requirements in procurement (UN global goals) ●
- d) Key figures and market statistics (continues) ●

### Focus Areas, Planned Actions and reporting 2025

Focus Areas	Planned Actions	Short Report on the Completed Plans
<p>The working group should address the following matters:</p> <ul style="list-style-type: none"><li>a) New contracting formats, e.g:<ul style="list-style-type: none"><li>● Relational contracting</li><li>● Negotiated procedure</li><li>● ECI (early contractor involvement)</li><li>● IPD (Integrated Project Delivery)</li><li>● Risk balance/risk distribution</li></ul></li><li>b) International service providers<ul style="list-style-type: none"><li>- How to manage/attract, risks/opportunities</li><li>- Common Nordic Infrastructure Market</li><li>- Risk balance/risk distribution</li></ul></li></ul>	<ul style="list-style-type: none"><li>● The working group will arrange one workshop in Sweden (Stockholm) in the beginning of 2025. The purpose is to frame in our deliverables and to create 3 subgroups;<ul style="list-style-type: none"><li>● new contracting formats (including international service providers)</li><li>● key figures and market statistics</li><li>● zero emission construction machinery.</li></ul></li><li>● We will arrange a first meeting with the overarching theme of Climate and Environment during spring 2025</li><li>● We will plan for follow-up and work meeting every 6 weeks</li></ul>	<ul style="list-style-type: none"><li>● On January 30th, we had a physical workshop at the Swedish Transport Administration in Solna where we discussed what we as a working group wanted to achieve based on the focus areas identified for the working group. The action plan we took in the fall of 2024 was anchored and clarified at the same time. The result was clarified goals and that we would work on three themes together and not in different subgroups as we initially proposed.</li><li>Goals<ul style="list-style-type: none"><li>- To develop a common and updated picture of the Nordic road construction market</li><li>- Encourage a more similar Nordic road construction market</li></ul></li></ul>

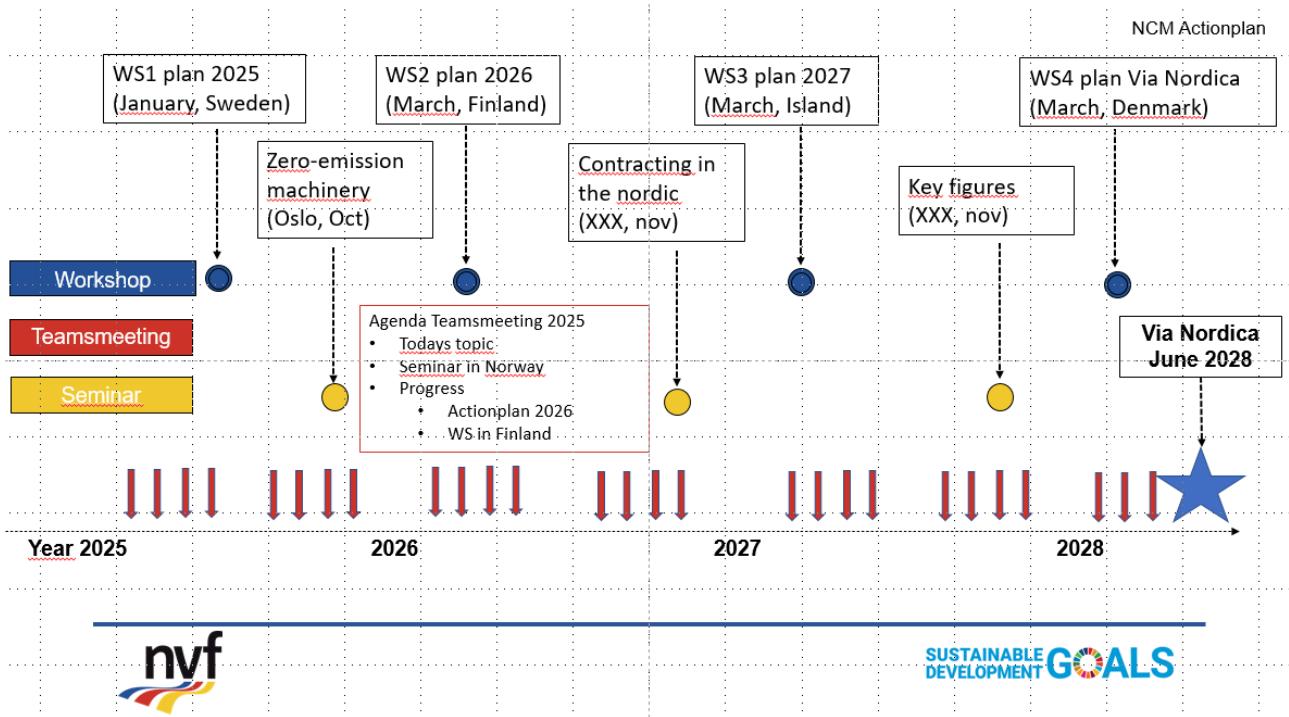
<p>c) Key figures and market statistics, d) Fossil-free or zero emission construction machinery:</p> <ul style="list-style-type: none"> <li>- Compare objectives on fossil-free or zero-emission construction machinery including procurement strategies</li> <li>- Sharing knowledge on the availability of fossil-free or zero emission construction machinery on the market, differentiated on sub-sectors</li> </ul> <p>SDG:s</p> <div style="display: flex; align-items: center;">  <div style="margin-left: 10px;"> <p>9 INDUSTRY, INNOVATION AND INFRASTRUCTURE</p> <p><b>Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation.</b></p> <p><b>9.1 DEVELOP SUSTAINABLE, RESILIENT AND INCLUSIVE INFRASTRUCTURES</b> Develop quality, reliable, sustainable and resilient infrastructure, including regional and transborder infrastructure, to support economic development and human well-being, with a focus on affordable and equitable access for all.</p> <p><b>9.4 UPGRADE ALL INDUSTRIES AND INFRASTRUCTURES FOR SUSTAINABILITY</b> By 2030, upgrade infrastructure and retrofit industries to make them sustainable, with increased resource-use efficiency and greater adoption of clean and environmentally sound technologies and industrial processes, with all countries taking action in accordance with their respective capabilities. dl 15th October 2024</p> </div> </div>	<p>● We plan to have one seminar in the autumn 2025.</p>	<ul style="list-style-type: none"> <li>- Develop a structured exchange of experience on electrified construction machinery</li> </ul> <p>Our action plan</p> <ul style="list-style-type: none"> <li>✓ The working group will arrange one workshop in Sweden (Stockholm) in the beginning of 2025.</li> </ul> <p>The purpose was to frame in our deliverables and to create 3 themes:</p> <ul style="list-style-type: none"> <li>- new contracting formats (including international service providers)</li> <li>- key figures and market statistics</li> <li>- zero emission construction machinery.</li> </ul> <ul style="list-style-type: none"> <li>✓ We will arrange a first meeting with the overarching theme of Climate and Environment during spring 2025</li> <li>✓ We will plan for follow-up and work meeting every 6 weeks</li> </ul> <p>We plan to have one seminar in the autumn 2025.</p> <p>During the year we had digital meetings, one physical workshop and a conference in Norway on zero emissions machines that we co-arranged with the organization Leap to Zero.</p> <p>At the meeting with the overarching theme of Climate and Environment we came to the conclusion that feedback from the conference will be a good contribution to the digital conference that they will arrange later in November.</p> <p>We have had a good year and are looking forward to 2026.</p>
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<b>Focus areas and Planned Actions for 2026 Nordic Construction Market</b>		
<b>Focus Areas 2026</b>	<b>Planned Actions 2026</b>	<b>Short Report on the Completed Plans Deadline <span style="color: red;">1st November 2026</span></b>

<ul style="list-style-type: none"> <li>new contracting formats (including international service providers)</li> </ul>	<p>For 2026 we are planning a physical workshop 2 in Helsinki in March.</p> <p>The goal of the ws is to plan ahead for 2026 in order to hold an open seminar on contract strategies in the Nordic countries and whether there are any trends that are particularly interesting.</p> <p>We will also designate a suitable country for the seminar at our ws</p> <p>We will also continue with our digital meetings every six weeks where we follow up on progress and one point will be "The topic of the day"</p> <p>We will also continue the exchange with overarching theme of Climate and Environment in an appropriate manner in 2026</p>	
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<b>Focus areas and Planed Actions for 2027 Nordic Construction Market</b>		
<b>Focus Areas 2027</b>	<b>Planned Actions 2027</b>	<b>Short Report on the Completed Plans Deadline 1st November 2027</b>
Key figures and market statistics	WS 3, Island, March Open seminar in autumn Teams meetings every 6 week	

<b>Focus areas and Planed Actions for 2028 Nordic Construction Market</b>		
<b>Focus Areas 2028</b>	<b>Planned Actions 2028</b>	<b>Short Report on the Completed Plans Deadline 1st November 2028</b>
Plan presentation, Via Nordica	WS 4, Denmark, March Via Nordica Teams meetings	



# Action plan for *Operation and Maintenance*

## Plan for period 1<sup>st</sup> July 2024 – 30<sup>th</sup> June 2028

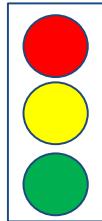
Chairperson: Jens Kofoed

[jkk@vd.dk](mailto:jkk@vd.dk)

Vice-Chairperson: Jens Peter Langballe Sørensen

[jpls@syddjurs.dk](mailto:jpls@syddjurs.dk)

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### 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, Planned Actions and reporting 2025		
Focus Areas	Planned Actions	Short Report on the Completed Plans
<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><b>Asset Management:</b> 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><b>Climate and Resilience:</b> Climatic change is one of the most important environmental issue in recent times. As temperature rises, a simplified reaction of the regional weather systems is increased storm activity. This scenario has in most cases a significant effect on transport infrastructure which in turn disrupts the daily life. The group will focus on these weather incidences affecting the transport infrastructure and propose possible ways to increase</p>	<p>The O&amp;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><b>Asset Management:</b> 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&amp;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><b>Climate and Resilience:</b> The group plan to collect stories of weather incidences on a regional scale and record the impact on the transport infrastructure. This will be implemented by collecting information and data from various relevant state, regional and local authorities. The actions implemented by the relevant authorities, to prevent damage and disruption of the system, will be summarized. The group will present the result in other relevant groups and in a</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><b>O&amp;M group</b> The O&amp;M group arranged a Winter meeting on Teams 20th of January 2025.</p> <p>The O&amp;M group arranged an Annual meeting in Torshavn 10-12 of June 2025.</p> <p><b>Asset Management:</b> 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. 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><b>Climate and Resilience:</b> The group has presented their first report at the O&amp;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&amp;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 hence continue the work as described in Planned Actions</p>

<p>resilience of the system against climate change.</p> <p><b>Winter:</b> 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>special online seminar dedicated to the result.</p> <p><b>Winter:</b> Activity # and <b>THEME</b></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 <b>Requirements</b>, Business Intelligence focus <b>Road Safety</b></p>	<p><b>Winter:</b> 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 <b>1st November 2026</b>
<p><b>O&amp;M group</b> 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><b>Asset Management:</b> To share knowledge and information on asset management practices in each member country, including asset management systems, data collection, new technologies, prioritizing, economics, etc. The group's aim is to help one another in current AM issues by bringing the topics to</p>	<p><b>O&amp;M group</b> The O&amp;M group arranges a Winter meeting on Teams 21<sup>st</sup> of January 2026.</p> <p>The O&amp;M group arranges an Annual meeting in <b>Reykjavik</b> 26-28 of May 2026.</p> <p><b>Asset Management:</b> 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><b>Asset Management:</b></p> <p><b>Climate and Resilience:</b></p> <p><b>Winter:</b></p>

<p>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><b>Climate and Resilience:</b> 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><b>Winter:</b> 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 2009 onwards, the status report has been prepared via NVF and until 2012 the status reports were</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><b>Climate and Resilience:</b></p> <p><b>Winter:</b> Each meeting agenda are to be planned based on the topics the group finds currently fruitful to share or discuss.</p> <p><b>Activity # and THEME</b> <b>#4, Thu 26 – Fri 27 Mar 2026</b> <b>Copenhagen, DK Requirements follow-up, SB Copenhagen</b> Municipality/Vejdirektoratet Team building, BI</p> <p><b>#5, Thu 18 - Fri 19 Jun 2026 XXXX, Finland DoU summer meeting, SB</b></p> <p><b>#6, Thu 8 Oct 2026 Teams Online (2h) at 9-11 Environmental requirements/follow-up (digital), BI</b></p>	
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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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<b>Focus areas and Planed Actions for 2027 <i>Operation and Maintenance</i></b>		
<b>Focus Areas 2027</b>	<b>Planned Actions 2027</b>	<b>Short Report on the Completed Plans Deadline 1st November 2027</b>
<b>Asset Management:</b>	<b>Asset Management:</b>	<b>Asset Management:</b>
<b>Climate and Resilience:</b>	<b>Climate and Resilience:</b>	<b>Climate and Resilience:</b>
<b>Winter:</b>	<b>Winter:</b>	<b>Winter:</b>

<b>Focus areas and Planed Actions for 2028 <i>Operation and Maintenance</i></b>		
<b>Focus Areas 2028</b>	<b>Planned Actions 2028</b>	<b>Short Report on the Completed Plans Deadline 1st November 2028</b>
<b>Asset Management:</b>	<b>Asset Management:</b>	<b>Asset Management:</b>
<b>Climate and Resilience:</b>	<b>Climate and Resilience:</b>	<b>Climate and Resilience:</b>
<b>Winter:</b>	<b>Winter:</b>	<b>Winter:</b>

# Action plan for Road Design

## Plan for period 1<sup>st</sup> July 2024 – 30<sup>th</sup> June 2028

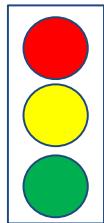
Chairperson: Tuomas Hökkö

[tuomas.horkko@arkance.world](mailto:tuomas.horkko@arkance.world)

Vice-Chairperson: Emil Matintupa

[emil.matintupa@ramboll.fi](mailto:emil.matintupa@ramboll.fi)

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 road design. Road design is about how you design streets and roads to consider the users' and society's interests as best as possible. The working group should address the following matters:

a) Universal design 

The transport system should be designed so as not unnecessarily preventing anyone from fulfilling their need for mobility, including old people, children and functionally impaired users. How pedestrians and cyclists are handled in high speed environments.

b) Urban design 

How to plan and design urban traffic areas and urban transits in rural areas. How to incorporate many new types of vehicles in the design of urban traffic areas? Problems with through traffic in smaller urban areas. Roundabouts, interaction with other road users (cyclists), etc. Goods delivery to ensure that the design of urban traffic areas takes the increasing need for goods delivery into account.

c) Future requirements for road design 

What road design is required to ensure the driver support systems function? What road design and specific geometric solutions will allow automated cars on motorways, national roads and in urban areas? Knowledge about relevant road designs and new geometric solutions. Requirements and needs posed by the Lane Keeping Assistance (LKA) technology in automated cars in relation to the width of lanes, which has a considerable impact on road accessibility.

d) Climate adaptive solutions 

Road technical solutions, how to coordinate future road design and climate adaptation solutions, such as handling torrential rain and increased amounts of stormwater.

### Focus Areas, Planned Actions and reporting 2025

Focus Areas	Planned Actions	Short Report on the Completed Plans
<p>The working group will operate under the theme "Future Requirements for Road Design". The WG picked up the following SDGs for the coming four years to find and share information and best practices for designing roads and streets:</p> <p>7. Affordable and Clean Energy, 9. Industry, Innovation, and Infrastructure,</p>	<p>Each country will appoint a contact person(s) for the activities.</p> <p>The activities will be organized by</p> <ul style="list-style-type: none"><li>- identifying active members within the working group</li><li>- regular meetings held around different topics via Teams, Face to face and hybrid meetings respecting all organizations rules.</li></ul>	<p>This year, the working group focused on climate change adaptation, diverging from the original plan. Three webinars and a seminar were organized around this theme, which proved to be a successful concept and will be continued in 2026.</p> <p><b>Webinars:</b></p>

<p>11. Sustainable Cities and Communities, 12. Responsible Consumption and Production, 13. Climate Action, 15. Life on Land.</p> <p>The relevant focus areas are:</p> <p><b>1. Climate Change Mitigation and Adaptation:</b> The working group will explore strategies to reduce greenhouse gas emissions and adapt to the impacts of climate change, particularly in vulnerable regions. Including Biodiversity and Biodiversity loss.</p> <p><b>2. Sustainable Resource Management, sustainable production, Efficient construction</b> This includes addressing issues such as preventive construction and resource efficiency, reducing waste, recycling, and promoting sustainable production and consumption models.</p> <p><b>3. Renewable Energy Transition:</b> How to pay attention to the shift to renewable energy sources like wind, solar, and hydropower, and exploring innovative technologies to reduce dependency on fossil fuels in the planning of infrastructure. SDG 7.</p> <p><b>4. Urbanization, Urban design</b> Efficient construction, Universal design, urbanization. Including SDGs 12 and 15.</p>	<p>While the themes will be addressed as a whole, special focus – <b>one for each year</b> – will be given to themes:</p> <p><b>2025: Green energy and energy transition</b> e.g. ferry infrastructure, solar energy, ensuring access to reliable, sustainable, and modern energy. Incl. SDG 7</p> <p><b>2026: Sustainable Resource Management, sustainable production, Efficient construction</b> Incl. SDGs 9 and 12 promoting resource efficiency and sustainable production practices.</p> <p><b>2027: Eco-thinking for transport infrastructure and ecocorridors</b> Incl. SDG 15.</p> <p><b>2028: Urbanization, Urban design</b> Energy, efficient construction and urbanization</p> <p>The goal is to organize one seminar per year around these special focused themes:</p> <p>2024 organizing the group 2025 Finland 2026 Norway 2027 Denmark 2028 preparing ViaNordica</p>	<p>- 17.2, 13:00–14:00 EET (Finland): Elina Kalliala, "Rethinking Our Roads" - 23.4, 14:00–15:00 EET (Sweden): Gunnel Göransson, "Climate Change Adaptation" - 18.6, 14:00–15:00 EET (Sweden): Matthias Borris, "Effects of an Extreme Rainfall Event on a Highway with Light Filling Materials"</p> <p>Recordings are available on the website, and the first webinar received significant visibility through a LinkedIn post. Each webinar was accompanied by a working group meeting.</p> <p><b>Participation in Working Group Meetings:</b></p> <ul style="list-style-type: none"> <li>- 17.2: 26 participants</li> <li>- 23.4: 27 participants</li> <li>- 18.6: 23 participants</li> </ul> <p><b>Seminar:</b> Held 3–4 September in Helsinki, focused on the annual theme, with a planning group meeting on 4.9 (25 participants).</p> <p><b>National Meetings:</b> Four national meetings were held, covering similar themes, seminar preparation, webinar planning, project presentations, and current topics:</p> <ul style="list-style-type: none"> <li>- 16.1.2025 (WSP): 14 participants, Porin ranta project presentation</li> <li>- 3.4.2026 (Espoo City): 10 participants, site visit</li> <li>- 9.6.2025 (Ramboll): 10 participants, Kaivokatu project presentation</li> <li>- 3.10 (Sitowise): 10 participants, Esplanadi water supply tunnel project presentation</li> </ul> <p>The webinars and seminar successfully facilitated the exchange of up-to-date information, sparked discussions, and generated development ideas related to the annual theme, as well as sharing experiences from different countries.</p> <p><b>Upcoming Events:</b></p> <ul style="list-style-type: none"> <li>- One more webinar and a working group meeting on 18.11.2025</li> <li>- National meeting on 9.1.2026</li> </ul>
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Focus areas and Planed Actions for 2026 <i>Road design</i>		
Focus Areas 2026	Planned Actions 2026	Short Report on the Completed Plans Deadline <b>1st November 2026</b>
<p>The working group will operate under the theme "Future Requirements for Road Design". The WG picked up the following SDGs for the coming four years to find and share information and best practices for designing roads and streets:</p> <p>7. Affordable and Clean Energy, 9. Industry, Innovation, and Infrastructure, 11. Sustainable Cities and Communities, 12. Responsible Consumption and Production, 13. Climate Action, 15. Life on Land.</p> <p>The relevant focus areas are:</p> <p><b>1. Climate Change Mitigation and Adaptation:</b> The working group will explore strategies to reduce greenhouse gas emissions and adapt to the impacts of climate change, particularly in vulnerable regions. Including Biodiversity and Biodiversity loss.</p> <p><b>2. Sustainable Resource Management, sustainable production, Efficient construction</b> This includes addressing issues such as preventive construction and resource efficiency, reducing waste, recycling, and promoting sustainable production and consumption models.</p> <p><b>3. Renewable Energy Transition:</b> How to pay attention to the shift to renewable energy sources like wind, solar, and hydropower, and exploring innovative technologies to reduce dependency on fossil fuels in the planning of infrastructure. SDG 7.</p> <p><b>4. Urbanization, Urban design</b></p>	<p>Regular meetings held around different topics via Teams, Face to face and hybrid meetings respecting all organizations rules. Webinars (3-4 sessions) and one seminar will be arranged each year, focusing on the selected annual theme.</p> <p>While the themes will be addressed as a whole, special focus – <b>one for each year</b> – will be given to themes:</p> <p><b>2026: Sustainable Resource Management, sustainable production, Efficient construction</b> Incl. SDGs 9 and 12 promoting resource efficiency and sustainable production practices.</p> <p><b>2027: Eco-thinking for transport infrastructure and ecocorridors</b> Incl. SDG 15.</p> <p><b>2028: Urbanization, Urban design</b> Energy, efficient construction and urbanization</p> <p>The goal is to organize one seminar per year around these special focused themes:</p> <p>2024 organizing the group 2025 Finland 2026 Iceland 2027 Denmark 2028 preparing ViaNordica</p>	

Efficient construction, Universal design, urbanization. Including SDGs 12 and 15.		
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<b>Focus areas and Planed Actions for 2027 <i>Road design</i></b>		
<b>Focus Areas 2027</b>	<b>Planned Actions 2027</b>	<b>Short Report on the Completed Plans Deadline 1st November 2027</b>
	<p>The goal is to organize one seminar per year around these special focused themes:</p> <p>2024 organizing the group 2025 Finland 2026 Iceland 2027 Denmark 2028 preparing ViaNordica</p>	

<b>Focus areas and Planed Actions for 2028 <i>Road design</i></b>		
<b>Focus Areas 2028</b>	<b>Planned Actions 2028</b>	<b>Short Report on the Completed Plans Deadline 1st November 2028</b>
	<p>The goal is to organize one seminar per year around these special focused themes:</p> <p>2024 organizing the group 2025 Finland 2026 Iceland 2027 Denmark 2028 preparing ViaNordica</p>	

# Action plan for Road Freight Transport

## Plan for period 1<sup>st</sup> July 2024 – 30<sup>th</sup> June 2028

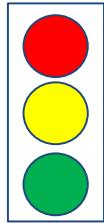
Chairperson: Martin Frimann Mortensen

[mfm@vd.dk](mailto:mfm@vd.dk)

Vice-Chairperson: Michael Wind

[miwi@fstyr.dk](mailto:miwi@fstyr.dk)

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 of more efficient, climate-smart, safe and economically sustainable road freight transport. The working group should address the following matters:

- a) Energy-efficient haulage on roads ●
  - Alternative energies and vehicle powertrains, biofuels and electrification
  - How to reduce the negative impacts of freight transport, such as emissions, road construction, noise and congestion, in relative comparison
- b) Combined transport, road infrastructure to node hubs ●
  - Interaction of infrastructure with other modes of transport such as rail, sea and air transport (e.g. rest areas, transshipment points, carrying capacity, terminals)
- c) Benefits of automation and digitalization ●
  - Better knowledge of haulage, e.g., through better data and information technology, to optimize the use of road infrastructure.
  - Vehicle technology that can make trucks more energy efficient
- d) How to promote safety on roads, vehicles and drivers ●
  - Heavy traffic & long vehicles and road design – challenges

### Focus Areas, Planned Actions and reporting 2025

Focus Areas	Planned Actions	Short Report on the Completed Plans
1. Energy-efficient haulage on roads a) Alternative energies and vehicle powertrains, biofuels and electrification, including how national support funds are used. b) How to reduce the negative impacts of freight transport, such as emissions, road construction, noise and congestion, in relative comparison c) HCT (High Capacity Transports) d) The Weights and Dimensions directive SDG's: - Target 9: "Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation" - Target 12: "Ensure sustainable consumption and production patterns"	1. Jan: WG meeting 2: Discuss the concrete four topics: Form minor working groups and select coordinators for the groups.  2. May: WG meeting 3: Status meeting teams, all topics  3. Oct: WG meeting 4: Physical seminar in Gothenburg with focus on Energy-efficient haulage on roads: An overview is made of which fuel is promoted in the various countries for heavy vehicles. What is the policy of the different countries in this area and especially why does the country have this policy, what is the forward-looking	Two teams-meetings and one physical meeting, as planned.  Learnings from the two teams-meeting is that before the meetings a suggestion for topics must be sent out before the meeting.  The physical meeting was very good. Good networking and exchange of knowledge in our area of work.  We have four sub-groups (SG) based on the four focus areas. We still miss a coordinator for one of the SGs.

	<p>policy? This is also to help the industry to decide on which vehicle to invest in.</p> <p>How emissions reporting and emission is related to directives, like Count Emissions EU-initiative</p> <p>4. Dec: WG meeting 5: Status meeting teams, all topics</p>	<p>(Benefits of automation and digitalization), but we still have time.</p> <p>We have had 5 meetings in the SG1 (Energy-efficient haulage on roads) and 3 meetings in SG2 (Combined transport, road infrastructure to node hubs).</p>
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Focus areas and Planed Actions for 2026 Transport		
Focus Areas 2026	Planned Actions 2026	Short Report on the Completed Plans Deadline <b>1st November 2026</b>
<p>1. Combined transport, road infrastructure to node hubs</p> <ul style="list-style-type: none"> <li>a. Interaction of infrastructure with other modes of transport such as rail, sea and air transport (e.g. rest areas, transshipment points, carrying capacity, terminals)</li> <li>b. Cases:           <ul style="list-style-type: none"> <li>1) Combined transport (rail) Oslo-Bodø, zero emission Bodø-Tromsø (-&gt; Sweden and Finland via Narvik)</li> <li>2) Future transport logistics in the Barents Region (Narvik-Sweden-Finland) (NATO etc.)</li> </ul> </li> </ul> <p>SDG's:</p> <ul style="list-style-type: none"> <li>• Target 9: "Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation"</li> <li>• Target 12: "Ensure sustainable consumption and production patterns"</li> </ul>	<p>1. Feb: WG meeting 6: Status meeting teams, all topics</p> <p>2. Jun: WG meeting 7: Physical seminar in Copenhagen with focus on Combined transport: Overview over Nordic hubs and how to use combined transport more.</p> <p>3. Oct: WG meeting 8: Seminar on teams with focus on How to promote secure and safety on roads, vehicles and drivers.</p> <p>Maybe in cooperation with the NVF WG "traffic safety" and as an open webinar.</p> <p>4. Dec: WG meeting 9: Status meeting teams, all topics</p>	<p>All meetings for 2026 are planned and SG2 is on plan with the next physical meeting in 2026 regarding Combined transport, road infrastructure to node hubs.</p> <p>The focus meeting in SG4 (How to promote secure and safety on roads, vehicles and drivers) is to be planned early 2026</p>

Focus areas and Planed Actions for 2027 Transport		
Focus Areas 2027	Planned Actions 2027	Short Report on the Completed Plans Deadline <b>1st November 2027</b>
<p>Benefits of automation and digitalization</p> <p>a) Better knowledge of haulage, e.g., through better data and information technology, to optimize the use of road infrastructure</p> <p>b) Vehicle technology that can make trucks more energy efficient</p> <p>c) The connectivity of and digital services to freight transports.</p> <p>SDG's:</p> <ul style="list-style-type: none"> <li>• Target 9: "Build resilient infrastructure, promote inclusive</li> </ul>	<p>1. Feb: WG meeting 10: Status meeting teams, all topics</p> <p>2. Jun: WG meeting 11: Physical seminar in Oslo with focus on Benefits of automation and digitalization (SubGroup 3)</p> <p>3. Oct: WG meeting 12: Status meeting teams, all topics</p> <p>4. Dec: WG meeting 13: Status meeting teams, all topics</p>	<p>All ordinary meetings for 2027 are planned.</p> <p>The plan is a physical seminar in Oslo in June 2027 (TBD).</p> <p>We still need a coordinator for the SG3 (Benefits of automation and digitalization).</p>

and sustainable industrialization and foster innovation" ● Target 12: "Ensure sustainable consumption and production patterns"		
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Focus areas and Planed Actions for 2028 Transport		
Focus Areas 2028	Planned Actions 2028	Short Report on the Completed Plans Deadline <b>1st November 2028</b>
How to promote secure and safety on roads, vehicles and drivers a) Heavy traffic & long vehicles and road design – challenges b) Diversity and recruitment in the freight transport sector. Challenges and what can be done SDG's: ● Target 5: "Achieve gender equality and empower all women and girls". ● Target 9: "Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation"	1. Feb: WG meeting 14: Status meeting teams, all topics 2. Apr: WG meeting 15: Status meeting teams, all topics and plan for Via Nordica 3. Jun: Via Nordica in Tampere	All ordinary meetings for 2028 are planned

### Appendix 1. Calender overview

Year	Month	Where	Topic	Remarks
2024	Sep	Teams	<i>Form and discuss minor working groups and select coordinators for the groups.</i>	Meeting 1. Minutes ok
2025	Jan	Teams	<i>Status and progress, all topics</i>	Meeting 2. Minutes ok
2025	May	Teams	<i>Status and progress, all topics</i>	Meeting 3. Minutes ok
2025	Oct	Gothenburg	<b><i>Focus on Energy-efficient haulage on roads (SG1)</i></b>	Meeting 4. Website ok
2025	Dec	Teams	<i>Status and progress, all topics</i>	Meeting 5
2026	Feb	Teams	<i>Status and progress, all topics</i>	Meeting 6
2026	Jun	Copenhagen	<b><i>Focus on Combined transport (SG2)</i></b>	Meeting 7
2026	Oct	Teams	<b><i>Focus on How to promote secure and safety on roads, vehicles and drivers (SG4)</i></b>	Meeting 8
2026	Dec	Teams	<i>Status and progress, all topics</i>	Meeting 9
2027	Feb	Teams	<i>Status and progress, all topics</i>	Meeting 10
2027	Jun	Oslo	<b><i>Focus on Benefits of automation and digitalization (SG3)</i></b>	Meeting 11
2027	Oct	Teams	<i>Status and progress, all topics</i>	Meeting 12
2027	Dec	Teams	<i>Status and progress, all topics + plan for Via Nordica</i>	Meeting 13
2028	Feb	Teams	<i>Status and progress, all topics + plan for Via Nordica</i>	Meeting 14
2028	Apr	Teams	<i>Status and progress, all topics + plan for Via Nordica</i>	Meeting 15
2028	Jun	Tampere	<i>Via Nordica</i>	

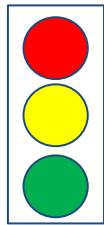
# Action plan for Road Technology

## Plan for period 1<sup>st</sup> July 2024 – 30<sup>th</sup> June 2028

Chairperson: Jón Helgi Helgason  
[jon.h.helgason@vegagerdin.is](mailto:jon.h.helgason@vegagerdin.is)

Vice-Chairperson: Tinna Húnbjörg Einarsdóttir  
[tinna.h.einarsdottir@vegagerdin.is](mailto:tinna.h.einarsdottir@vegagerdin.is)

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 road technology. The working group should address the following matters:

- Sustainable approach to choose and recycling of materials in the road sector 
  - Pavement and resource management (in Norway 60% recycled material in the pavements, in Sweden 25%, a need for discussions)
  - The methodologies and approaches that may support a sustainable choice of materials.
  - Recycling and reuse of roads
  - Recycling of materials and incorporation of waste products in road pavement, reduce the use of new material and the use of machines and tools that promote a sustainable choice of materials.
- The functional properties of the road over time 
  - How to build new roads and adapt current roads with environmental changes.
  - How the road degrades and how to best measure the degradation of the road. This particularly concerns functional properties such as noise, evenness and rolling resistance.
  - Promote methods for objective measuring and to share knowledge about how to use the measurements optimally in the road maintenance systems.
  - The advantages and disadvantages of the new methods and how the introduction of new methods affects the need to replace corresponding older methods in the countries' road maintenance systems.
  - How best to measure the road's CO2 footprint and how to reduce the CO2 footprint by minimizing rolling resistance.
- Aging infrastructure, Prioritization of the road network 

### Focus Areas, Planned Actions and reporting 2025

Focus Areas 2025	Planned Actions 2025	Short Report on the Completed Plans
We intend to reflect NVF's role by exchanging information, knowledge experience and best practices between the countries and among the members of the working group.  <b>This working group will exchange experience in road technology. Road technology is about road materials, pavements design and road degradation.</b>	For 2025 we aim to hold one live working meeting and webinars where each country's status and vision in the topics <b><i>Sustainable approach to choose and recycling of materials in the road sector</i></b> is discussed, i.e., where are we, and where are we going in sustainable construction and maintenance.	[insert text here, dl 1 <sup>st</sup> November 2025] Due to the change of leadership in this group it started rather late. Kickoff meeting was held on 2. December 2024. For further discussions on some topics, we held another working group meeting. January WG meeting 31. January 2025.

<p>The Road Technology working group has two focus areas (topics) to work on this period. New topic (c) can be a later focus.</p> <p><b>a) Sustainable approach to choose and recycling of materials in the road sector.</b></p> <p><b>b) The functional properties of the road over time</b></p> <p><b>c) Aging infrastructure, Prioritization of the road network.</b></p> <p>In addition, we have the common theme with the other WGs, <b>Climate and environment.</b></p> <p>We aim at linking those topics together throughout the period but have focus on one topic each year.</p> <p>For the first year (2025) we will have focus on the topic: <b>Sustainable approach to choose and recycling of materials in the road sector.</b></p> <p>This involves recycling of roads and roadmaterials to reduce use of new material.</p> <p>The working groups SDGs are: On the Kickoff meeting the group chose: nr. 9 Industry, Innovation and Infrastructure, nr. 12 Responsible consumption and production. and nr. 13 Climate action.</p>	<p>We will find one or two contact persons from each of the countries that will help finding consideration matters within the topics and people to hold presentations. We plan of regular online meetings those contacts.</p> <p>2025 plan of webinars</p> <p>January – Iceland</p> <p>February – Norway</p> <p>March – Sweden</p> <p>April – Finland</p> <p>Mai – Denmark</p> <p>September – Faroe Islands</p> <p>Webinars will usually be held 12:00-12:30 CET. 20 min. and 10 min questions.</p> <p>Online meetings 2025</p> <p>January</p> <p>April</p> <p>October – Status meeting for 2026.</p> <p>Physical meeting/seminar</p> <p>June –annual meeting – Iceland, first week of June.</p> <p>We will aim at holding one physical meeting in Scandinavia each year of the period (2025, 2026 and 2027).</p>	<p>Each country held a webinar that focused on the main theme of the working group regarding: <i>Sustainable approach to choose and recycling of materials in the road sector</i></p> <p><b>Iceland webinar</b> - <i>Bio-binders in wearing course</i> - 20. January</p> <p><b>Norway webinar</b> - <i>Green Asphalt Procurement</i> - 12. February</p> <p><b>Sweden webinar</b> - <i>Transition to more sustainable road construction using waste materials</i> - 13. March</p> <p><b>Finland webinar</b> - <i>Bearing capacity and long-term performance of crushed concrete in highway structures</i> - 14. April</p> <p><b>Denmark webinar</b> - <i>Biobased binder for Asphalt</i> - 27. May</p> <p>Annual Meeting in Iceland 3-5. June 2025</p> <table border="1" data-bbox="993 887 1423 1708"> <tr> <td><b>Wednesday 4<sup>th</sup> of June</b></td> </tr> <tr> <td>Opening of the seminar Jón Helgi - Vegagerðin</td> </tr> <tr> <td>Determining Pavement Layer Thickness for Back-calculation Using Ground Penetrating Radar Tatek Fekadu Yideti - Vegvesen</td> </tr> <tr> <td>Super heavy transports – Bearing calculations, principles, controls and pictures Erik Oscarsson - Trafikverket</td> </tr> <tr> <td>From Lab to Road: Development of a Fossil-Free Binder from Fungi for Pavement Applications Oleksii Rebrov - Visibuilt</td> </tr> <tr> <td>Pavement-related research at DTU: an overview Eyal Levenberg - DTU</td> </tr> <tr> <td>New improved base course with BSM (Bitumen Stabilized Material), <i>What, where and why</i> Allan Bay - Arkil</td> </tr> <tr> <td>Concrete foam as an insulation layer in a bike and pedestrian road Lars Persson - Trafikverket</td> </tr> <tr> <td>Digital twins for pavement infrastructure Eyal Levenberg - DTU</td> </tr> <tr> <td>Status in each country (20 min) * Iceland, Norway, Sweden, Faroe Island, Denmark, Finland</td> </tr> <tr> <td><b>Thursday 5<sup>th</sup> of June</b></td> </tr> <tr> <td>Bus tour around the Reykjanes Peninsula, visiting recent volcanic eruption sites and new roads built on new lava</td> </tr> </table> <p>Our objectives was to exchange knowledge and worked well with the webinars.</p>	<b>Wednesday 4<sup>th</sup> of June</b>	Opening of the seminar Jón Helgi - Vegagerðin	Determining Pavement Layer Thickness for Back-calculation Using Ground Penetrating Radar Tatek Fekadu Yideti - Vegvesen	Super heavy transports – Bearing calculations, principles, controls and pictures Erik Oscarsson - Trafikverket	From Lab to Road: Development of a Fossil-Free Binder from Fungi for Pavement Applications Oleksii Rebrov - Visibuilt	Pavement-related research at DTU: an overview Eyal Levenberg - DTU	New improved base course with BSM (Bitumen Stabilized Material), <i>What, where and why</i> Allan Bay - Arkil	Concrete foam as an insulation layer in a bike and pedestrian road Lars Persson - Trafikverket	Digital twins for pavement infrastructure Eyal Levenberg - DTU	Status in each country (20 min) * Iceland, Norway, Sweden, Faroe Island, Denmark, Finland	<b>Thursday 5<sup>th</sup> of June</b>	Bus tour around the Reykjanes Peninsula, visiting recent volcanic eruption sites and new roads built on new lava
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Focus areas and Planed Actions for 2026 Road Technology		
Focus Areas 2026	Planned Actions 2026	Short Report on the Completed Plans Deadline <b>1st November 2026</b>

<p>We intend to reflect NVF's role by exchanging information, knowledge experience and best practices between the countries and among the members of the working group.</p> <p><b>This working group will exchange experience in road technology. Road technology is about road materials, pavements design and road degradation.</b></p> <p>The Road Technology working group has focused on the first topic (a) and will now focus on the next (b) to work on this period. Topic (c &amp; d) can be a later focus.</p> <p><b>a) Sustainable approach to choose and recycling of materials in the road sector.</b></p> <p><b>b) The functional properties of the road over time</b></p> <p><b>c) Aging infrastructure, Prioritization of the road network.</b></p> <p><b>d) More?</b></p> <p>In addition, we have the common theme with the other WGs, <b>Climate and environment.</b></p> <p>We aim at linking those topics together throughout the period but have focus on one topic each year.</p> <p>For the second year (2026) we will have focus on the topic: <b>The functional properties of the road over time</b></p> <p>This involves recycling of roads and roadmaterials to reduce use of new material.</p> <p>The working groups SDGs are: On the Kickoff meeting the group chose: nr. 9 Industry, Innovation and Infrastructure, nr. 12 Responsible consumption and production. and nr. 13 Climate action.</p>	<p>For 2026 we aim to hold one live working meeting and webinars where each country's status and vision in the topics <b><i>The functional properties of the road over time</i></b> is discussed, i.e., where are we, and where are we going in this topic.</p> <p>We will have the same two contact persons from each of the countries that will help finding consideration matters within the topics and people to hold presentations.</p> <p>2025/26 plan of webinars</p> <p><b>2025</b></p> <p>November – Denmark (topic 2025) December – Iceland (topic 2026)</p> <p><b>2026</b></p> <p>January – Norway February – Sweden March – Finland April – Denmark May – Faroe Islands September – Norway October – Sweden November - Finland</p> <p>Webinars will usually be held 12:00-12:30 CET. 20 min. presentations and 10 min questions.</p> <p>Online meetings 2026</p> <p>March - Status</p> <p>October – Status meeting for 2027.</p> <p>Physical meeting/seminar</p> <p>June –annual meeting – Faroe Islands, first week of June.</p> <p>We will aim at holding one physical meeting in Scandinavia each year of the period (2025, 2026 and 2027).</p>	
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Focus Areas 2027	Planned Actions 2027	Short Report on the Completed Plans Deadline <b>1st November 2027</b>
<p>We intend to reflect NVF's role by exchanging information, knowledge experience and best practices between the countries and among the members of the working group.</p> <p><b>This working group will exchange experience in road technology. Road technology is about road materials, pavements design and road degradation.</b></p> <p>The Road Technology working group will work with the focus area <b>c) Aging infrastructure, Prioritization of the road network.</b></p>	<p>For 2027 we aim to hold one live working meeting (Not decided yet: Norway, Denmark or Sweden) and webinars where each country's status and vision in the specific topics are discussed.</p>	

Focus areas and Planed Actions for 2028 Road Technology		
Focus Areas 2028	Planned Actions 2028	Short Report on the Completed Plans Deadline <b>1st November 2028</b>
<p>We intend to reflect NVF's role by exchanging information, knowledge experience and best practices between the countries and among the members of the working group.</p> <p><b>This working group will exchange experience in road technology. Road technology is about road materials, pavements design and road degradation.</b></p> <p>The Road Technology working group will work with the focus area <b>d) Theme of the three earlier focus areas and Preparation of Via Nordica presentations.</b></p>	<p>For 2028 we aim to hold one live working meeting (Not decided yet: Norway, Denmark or Sweden) and webinars where each country's status and vision in the specific topics are discussed.</p>	

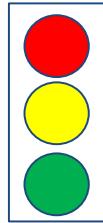
# Action plan for Road Traffic Safety

## Plan for period 1<sup>st</sup> July 2024 – 30<sup>th</sup> June 2025

Chairperson: *Henrik Wildenschild*,  
[henrik.wildenschild@vegvesen.no](mailto:henrik.wildenschild@vegvesen.no)

Vice-Chairperson: *Renata Steinbakk*,  
[steinbakk@tryggtrafikk.no](mailto:steinbakk@tryggtrafikk.no)

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 road traffic safety, effective road safety measures and to provide examples of best practices. The working group should address the following matters:

- a) Different groups of road users and their needs for traffic safety
  - Behavioral review
  - Vision Zero – notice Stockholm Declaration
  - Road safety campaigns, examples of successful campaigns from the Nordic countries, particularly aimed at vulnerable -, young - or elderly road users
- b) Road safety and road design on rural and urban roads
  - What works in the individual countries and where new solutions may need to be developed?
  - Design of safe road infrastructure, examples of how the infrastructure is designed to ensure safe road user behavior.
  - Exchange of experience on the link between the condition of the road and the number of road accidents.
- c) Key figures of traffic accidents
  - Review of accident data, the differences in the statistics
  - Best practices to reduce the number of fatalities and injured persons
- d) Benchmarking: Implementing of the European Road Infrastructure Safety Management Directive in the Nordic countries
  - The situation of implementing in each Nordic country (the road agencies and communities)
  - Best practices of implementing  
(this topic has been implemented in sub-group Road safety and road design on rural and urban roads)
- e) MC-safety

### Focus Areas, Planned Actions and reporting 2025:

Focus Areas	Planned Actions	Short Report on the Completed Plans
The Sustainable Development Goals of relevance to our themes, are no. 3 Good Health and well-being, and no. 11 Sustainable cities and communities.	The working group have invited selected members to take on the role as subgroup-leaders, to a digital planning meeting on the 22 <sup>nd</sup> of October 2024.	The chair and co-chair participated in a kick-off meeting in Helsinki 5 <sup>th</sup> September '24. The meeting introduced NVF, the guidelines, the NVF-webpage, action-plan and reporting. Meeting the other chairs and co-chairs was indeed helpful.
In order to proceed with the work, several issues were addressed in a questionnaire that was distributed	A meeting for all participants is planned for the 19 <sup>th</sup> of November 2024.	

<p>to all 73 participants in the working group. The response to the questionnaire has provided the working group with sufficient information about who will be dedicating time to the sub-themes.</p> <p>The sub-themes, as decided by the Board, are:</p> <ol style="list-style-type: none"> <li>1. Different road users' groups (subgroup leader Anette Jerup Jørgensen, Denmark)</li> <li>2. Road design: rural and urban roads (sub-group leader Henrik Wildenschild, Norway)</li> <li>3. Accident statistics for the Nordic countries (sub-group leader Höskuldur R.G. Kröyer, Iceland)</li> <li>4. MC-safety (sub-group leader Hans Olav Hellesøe, Norway)</li> </ol> <p>In addition, the topic "Motorcyclists' safety" is an issue the NVF Board has requested the working group Road Traffic Safety to identify best practices among the Nordic countries.</p> <p>Based on the output of the questionnaire and following up with direct contact with email / teams, we have managed to delegate responsibility to lead the subgroups, as well as the topic on Motorcyclists' safety.</p>	<p>The working group meetings will be an arena to share information on sub-themes and to learn from each other.</p> <p>We will be planning digital seminars on all sub-themes in 2025, and in addition, a special effort will be required in relation to motorcyclists' safety.</p> <p>Digital seminars on the topics and a meeting in Copenhagen, Denmark, in 2025 where everyone will attend in person, will be planned.</p> <p>Presentation on the four topics plus MC-safety will be provided in plenary digital meetings.</p> <p>Each subtheme group will be in charge of addressing their topics and report back to the working group. The sub-group leaders have been appointed.</p> <p>Meeting plan 2024- 2025:</p> <p>22<sup>nd</sup> October 2024 – sub-group leaders meeting</p> <p>19<sup>th</sup> November 2024 – all members</p> <p>January 2025 – date not set yet</p> <p>March 2025 - date not set yet</p> <p>May 2025- date not set yet</p> <p>August 2025 – meeting in Copenhagen?</p> <p>October 2025 - date not set yet</p> <p>December 2025 - date not set yet</p>	<p>We are currently 79 members in the working group. In 2024 we sent a questionnaire to all and based on the results we distributed members in the subgroups, and the subgroup leaders were pointed. New members are asked to choose one subgroup when they start at NVF.</p> <p>The subgroups are:</p> <ol style="list-style-type: none"> <li>1. Different road users (22 members)</li> <li>2. Road design: traffic safety in rural and urban roads (23 members)</li> <li>3. Accident Statistics (21 members)</li> <li>4. MC safety (8 members)</li> </ol> <p>It is possible to be a member in different groups. We have not succeeded in reaching 5 people that are not in any of the groups.</p> <p>The activities happen in the subgroups with online meetings and interactions on Teams and e-mail.</p> <p>- The sub-group Road safety and road design has had five meetings so far in 2025 with topics regarding network wide road safety assessments (Road Infrastructure Safety Management Directive), pedestrian crossings, speed criteria and discussion on other relevant topics. They are planning two more meetings in 2025. One of the coming topics is speed reduction measures.</p> <p>- The group different groups of road users have had two meetings so far in 2025 and online discussions. The subgroup is divided into subgroups based on NVF's terms of reference (e.g. Vision Zero strategy, behavioral review and road safety campaigns). The subgroup met before our physical meeting to discuss activities in the period and vote on themes they are going to discuss at the next meetings.</p> <p>- The group accident Statistics had one start meeting (in November)</p>
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		<p>2024) plus three meetings in 2025. One more meeting is being planned for 2025. The subgroup had a preliminary roadmap on topics to discuss. There have been discussions on accident registration in different countries and how to improve it. Next themes planned are hospital registration and issues related to serious accidents (report, countermeasures).</p> <p>- The group MC safety had a change of leader, due to the first leader having to resign. There has not been any activity yet due to the new leader did not having the time for it. MC safety was one of the topics discussed at the physical meeting we had in September. One meeting is being planned for 2025.</p> <p>The first physical meeting took place in Copenhagen in September 2025. The meeting was successful and provided the opportunity for members to meet in person, network and to see and hear about solutions the city of Copenhagen has for cyclists. We had a variety of presentations with different themes, available to all members on NVF's website.</p> <p>2025 was the first year of activities, and some adjustment is still going on to find the best way for the working group to function.</p> <p>The first Chairperson Ragnhild Meisfjord from the Norwegian Public Road Administration had to resign in des. 2024 due to a bid increase in workload in her daily job. Henrik Wildenschild from the Norwegian Public Road Administration took over the chair role.</p> <p>Autum 2025 the sub-group leader Anette Jerup Jørgensen from The Municipality of Copenhagen had to resign due to changes in her daily job. The Chair have 23.10.2025 asked all the members if someone will take over the role. If we do not</p>
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		get a replacement we have to move the members from that sub-group to the other three sub-groups. But we will make sure that the topics of the closed sub-group will be taken care of in the other sub-groups
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Focus areas and Planed Actions for 2026 <i>Traffic safety</i>		
Focus Areas 2026	Planned Actions 2026	Short Report on the Completed Plans Deadline 1st November 2026
<p>Focus will still be on dissemination and discussion about issues and projects on traffic safety in different countries.</p> <p>Some issues that are relevant and current are:</p> <ul style="list-style-type: none"> <li>- MC safety in different countries</li> <li>- Innovative countermeasures</li> <li>- Countermeasures towards vulnerable road users</li> <li>- Accident data quality and registration.</li> </ul> <p>The activities will happen in the sub-groups in Teams meetings and in the yearly physical meeting.</p> <p>Activities will be based on the Sustainable Development Goals 3 “Good Health and well-being”, and 11 “Sustainable cities and communities”.</p>	<p>The subgroups decide at the beginning of the year which theme they will prioritize. Sub-groups organize Teams meetings. The themes are communicated to chair and co-chair, that can evaluate if the theme is relevant for members of other groups.</p> <p>The physical meeting is a great place to be updated on what is happening in different countries and to network with other members. We are planning to hold the next meeting in Norway, in mid-October. We are open to receiving suggestions on themes and projects members would like to hear more about.</p> <p><b>Meeting plan for 2026:</b></p> <p>Winter</p> <ul style="list-style-type: none"> <li>- at least one meeting for each subgroup</li> <li>- At least one meeting with all subgroup's leaders, chair and co-chair</li> </ul> <p>Spring/summer</p> <ul style="list-style-type: none"> <li>- at least one meeting for each subgroup</li> <li>- At least one meeting with all members</li> </ul> <p>Autum/winter</p> <ul style="list-style-type: none"> <li>- at least one meeting for each subgroup</li> <li>- A physical meeting planned to be in Norway</li> </ul>	

<b>Focus areas and Planed Actions for 2027 <i>Traffic safety</i></b>		
<b>Focus Areas 2027</b>	<b>Planned Actions 2027</b>	<b>Short Report on the Completed Plans Deadline 1st November 2027</b>
Implementing of the European Road Infrastructure Safety Management Directive in the Nordic countries and best practices of implementing  Behavioral review	Thematic webinars within the subgroups  One physical meeting around October	

<b>Focus areas and Planed Actions for 2028 <i>Traffic safety</i></b>		
<b>Focus Areas</b>	<b>Planned Actions</b>	<b>Short Report on the Completed Plans Deadline 1st November 2028</b>
Participation in the Via Nordica 2028	Thematic webinars within the subgroups  One physical meeting around October	

# Action plan for Tunnels

## Plan for period 1<sup>st</sup> July 2024 – 30<sup>th</sup> June 2028

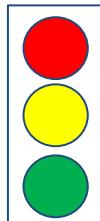
Chairperson: Freyr Pálsson

[freyr.palsson@vegagerdin.is](mailto:freyr.palsson@vegagerdin.is)

Vice-Chairperson: Hávarður Finnbogason

[havardur.finnbogason@vegagerdin.is](mailto:havardur.finnbogason@vegagerdin.is)

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 road tunnels. The working group should address the following matters:

a) Tunnel Technologies

- For new and old tunnels, Technical equipment for tunnels develops very quickly. There's a need to constantly be aware of the purpose of the technical installations, what safety level there should be.
- Condition and lifetime of the technology to carry out predictable maintenance
- Predict degradation and detect errors in the technical installations
- Simulation in virtual reality (digital twilling)

b) Co-operation from installation to maintenance

In order to ensure operational newly built tunnels, it is essential that operations are included in the planning of new tunnels right from the start-up phase (MKV). Experience shows that tunnels built where operations have not entered into dialogue at an early stage often require major adaptations and changes when the tunnel is handed over for operation. This is costly and time-consuming.

c) Innovation and renewal of methods and materials in tunnel construction and maintenance

- New materials and new, innovative methods and their economic and environmental consequences

d) Safety in tunnels

- Cyber security, knowledge sharing and ongoing discussions are essential to ensure a high common level of security
- Safety challenges, e.g. automated driving, alternative fuels e.g. batteries, hydrogen and gas.

### Focus Areas, Planned Actions and reporting 2025

Focus Areas	Planned Actions	Short Report on the Completed Plans
We intend to reflect NVF's role by exchanging information, knowledge experience and best practices between the countries and among the members of the working group. The Tunnel working group has four focus areas (topics) to work on this period, <b>a) Tunnel technologies,</b> <b>b) Co-operation from installation to maintenance,</b>	Even though the focus of each year's work is one (or two) of the four topics it is intended that the working group considers the four topics in parallel throughout the 4 years period, together with the Climate and Environment theme.  For 2025 we aim to hold one live working meeting and one online working meeting where each country's status and vision in the topics Tunnel technologies and Co-operation from installation to	<b>Summary of WG activities in 2025</b> The main outcomes of this year's work were the strengthening of connections between members and the facilitation of constructive dialogues about shared experiences and challenges within the sector. Members gained valuable insights into how different countries address various issues and learned about ongoing research projects across member nations. The WG achieved all goals set for this year

<p><b>c) Innovation and renewal of methods and materials in Tunnel construction and maintenance</b></p> <p><b>d) Safety in tunnels</b></p> <p>In addition, we have the common theme with the other WGs, <b><i>Climate and environment</i></b>.</p> <p>We aim at linking those topics together throughout the period but have focus on one (or two) topic each year.</p> <p>For the first year (2025) we will have focus on the topics Tunnel technologies and Co-operation from installation to maintenance. This will involve the interaction between tunnel design, installation and maintenance.</p> <p>The working groups SDGs are:</p> <ul style="list-style-type: none"> <li>- nr. 9 Industry, Innovation and Infrastructure</li> <li>- Nr.12 Responsible consumption and production.</li> </ul>	<p>maintenance is discussed, i.e., where are we, and where are we going in design and construction of new tunnels as well as operation and maintenance of existing tunnels.</p> <p>Nominate one or two contact persons from each of the countries that will help finding consideration matters within the topics and people to hold presentations.</p> <p>We will aim at holding one physical meeting each year of the period (2025, 2026 and 2027), and one seminar that will take place either 2026 or 2027.</p>	<p><b>Meetings and Events</b></p> <p>Two Working Group (WG) meetings were held in 2025 — one virtual and one physical:</p> <p><b>Virtual Meeting – April 2nd</b></p> <p>This meeting featured two engaging presentations on topics aligned with our focus areas: innovation, renewal of methods and materials, and tunnel safety. These presentations also touched on climate and environmental aspects. Following the presentations, a discussion was held on how different countries incorporate operational considerations into the planning and design of new projects.</p> <p><b>Physical Meeting – Faroe Islands, Early September</b></p> <p>A public seminar, approximately 130 participants, about tunnel safety, highlighting the public's strong interest in tunneling in the Faroe Islands.</p> <p>A closed WG meeting, around 25 members from all NVF countries. Topics discussed included tunnel safety, maintenance, and the upcoming Suðurøytunnelen project in the Faroe Islands. Each country shared updates on current and planned tunneling activities.</p> <p>On the second day, a technical tour was organized to visit several tunnels — both completed and under construction — providing valuable insights into local practices.</p>
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Focus areas and Planed Actions for 2026 <i>Tunnels</i>		
Focus Areas 2026	Planned Actions 2026	Short Report on the Completed Plans Deadline <b>1st November 2026</b>
<p>For 2026 we will continue with the same focus areas as 2025.</p> <p>For the second year (2026) we will have more focus on the topics Tunnel technologies, as well as c) <i>Innovation and renewal of methods and materials in Tunnel construction and maintenance</i> And continue to have focus on <i>Safety in tunnels</i>, which is a topic that got a lot of attention in 2025 but we feel that still needs more attention.</p> <p>The working groups SDGs are:</p> <ul style="list-style-type: none"> <li>- nr. 9 Industry, Innovation and Infrastructure</li> <li>- Nr.12 Responsible consumption and production.</li> </ul> <p>The SDGs will be implemented in your WG meetings and work.</p>	<p><b>Planned Actions and Activities</b> To achieve its goals, the working group has outlined the following actions and events:</p> <p><b>Meeting Plan for 2026</b> The group plans to hold two working meetings during 2026: one virtual meeting in the spring and one in-person meeting in the autumn. The physical meeting may be combined with a seminar or mini-seminar, depending on availability and relevance.</p> <p><b>Structure and Focus</b> Each meeting will include a mix of topic-specific presentations and constructive discussions. Special emphasis will be placed on topics a), c), and d).</p> <p><b>Addressing the Sustainable Development Goals (SDGs)</b> The working group will actively align its actions with relevant SDGs. This includes identifying how each planned activity contributes to specific goals and ensuring that sustainability and global development priorities are integrated into the group's work.</p>	

Focus areas and Planed Actions for 2027 <i>Tunnels</i>		
Focus Areas 2027	Planned Actions 2027	Short Report on the Completed Plans Deadline <b>1st November 2027</b>
For 2027 we will continue with the same focus areas.	For 2027 we aim at continuing holding one virtual meeting and one in-person. We aim at holding a seminar in Iceland in the autumn.	

Focus areas and Planed Actions for 2028 <i>Tunnels</i>		
Focus Areas 2028	Planned Actions 2028	Short Report on the Completed Plans Deadline <b>1st November 2028</b>
Same as 2027	We plan for having one online meeting. And look at tunnel related activities or talks for the NVF congress in Finland.	

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# Action plan for *Urban transport and transport planning*

## Plan for period 1<sup>st</sup> July 2024 – 30<sup>th</sup> June 2028

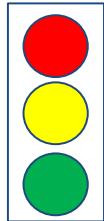
Chairperson: Jimmy Grandin

[jimmy.grandin@trafikverket.se](mailto:jimmy.grandin@trafikverket.se)

Vice-Chairperson: Alena Brettmo

[alena.brettmo@ri.se](mailto:alena.brettmo@ri.se)

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 Urban transport and transport planning. The working group should address the following matters:

- a) Mobility strategy (national, regional and local mobility planning) ●
  - How transport planners may best ensure that the overall political development strategies may be integrated in the planning?
  - Mobility strategies and transport infrastructure plans where mobility is considered in conjunction with business and housing development, the development of supporting societal functions (e.g., hospitals and educational institutions) as well as climate and environmental considerations.
  - Models, processes and tools that can be applied to create strategic mobility, planning tools, forecast models, communication tools, administrative procedures and processes, economic models, etc.
  - Combined transports (road-rail-maritime) and transport hubs, where should these be located in order to create strategic mobility?
- b) Urban transport in small and intermediate size cities ●
  - What should be emphasized?
  - Good local examples
- c) Sustainable mobility ●
  - New lines in order to reach the sustainability goals.
  - Development of planning systems so that they are better able to handle requirements for economic, social, climate and environmental sustainability
  - The choice of means of transport, housing area, business areas, destination and travel times, just as various groups of individuals (age, gender, social group, etc.) have qualitative preferences.

Additionally, there is an overarching theme of climate and environment to consider. Coordinators have been appointed to exchange experience and make proposals for follow-up on sustainable development goals.

As a strategic base, the NVF board has also decided to continue work to contribute to the achievement of the UN Global Goals. The goals are described in the chart below.

The working group on Urban transport and transport planning has decided to focus on UN Global Goals no 3 (Good health and well-being) and 11 (Sustainable cities and communities).

## Group of national contacts

The working group has decided to establish a group of national contacts. It aims to support the chairperson and co-chairperson with local knowledge, contacts and seminar organization. They will also be involved to discuss themes, subjects, etc for future seminars.

The national contacts were approved by the members of the working group in a meeting on 2024-10-09.

Aleks Danmark, Denmark

Berglind Hallgrimsdottir, Iceland

Hallbjörn Reynir Hallbjörnsson, Iceland

Marek Salermo, Finland

Ann-Helen Hansen, Norway

Barbara Mikkelsen, Faroe Islands

## Focus Areas, Planned Actions and reporting 2025

Focus Areas	Planned Actions	Short Report on the Completed Plans
<p>The working group will focus on the pre-defined UN Global Goals, no 3 (Good health and well-being) and no 11 (Sustainable cities and communities). These will be reflected on the objectives a), b) and c) for the working group.</p> <p>For this first year, the working group will be having a wider discussion and broader themes, to be able to introduce and involve all members of the group. The next step is then to narrow down and have more specific discussions on the matters relevant for the group.</p> <p>As requested, the working group will also make sure to prepare 1-2 presentations suitable for the Climate and Environment theme.</p>	<p>The working group will be arranging two seminars during 2025.</p> <p>The first will be held on Iceland during Spring and the main themes will be:</p> <p>How transport planners may best ensure that the overall political development strategies may be integrated in the planning?</p> <p>Urban transport in small and intermediate size cities</p> <p>What should be emphasized?</p> <p>Good local examples</p> <p>We will use the knowledge in the working group but also invite experts on the themes. The host country has wide experience of small/intermediate cities and has also started a process on mobility planning which suits well.</p> <p>The second seminar will be arranged in Norway during autumn. The main theme will be:</p> <p>Mobility strategies and transport infrastructure plans where mobility is considered in conjunction with business and housing development, the development of supporting societal functions (e.g., hospitals and educational institutions) as</p>	<p>The working group has organized several physical seminars and digital webinars in 2025. As a complement, and as a positive effect, there has also been a dialogue on various issues via e-mail and digital conversations between members in different constellations.</p> <p>These have been the first meetings in the working group and we see how networking is ongoing. Relationships are created and deepened at every opportunity. New knowledge is spread and discussions that bring new perspectives are also valuable.</p> <p>During the spring, webinars were held on the theme:</p> <ul style="list-style-type: none"> <li>- <b>Parking as a tool for transition:</b> laws, regulations, practices, methods and tools</li> </ul> <p>- <b>A new transport plan in Sweden</b>  - what are the main talking points?</p> <p>We also had a seminar in Reykjavik on the theme:</p> <ul style="list-style-type: none"> <li>- <b>How transport planners may best ensure that the overall political development strategies may be integrated in the planning?</b></li> </ul> <p>- <b>Urban transport in small and intermediate size cities.</b> What</p>

	<p>well as climate and environmental considerations.</p> <p>Freight transport in cities would also be a relevant topic</p> <p>The host country has introduced such things as byvekstavtaler and this aims at UN Global Goal 11. As it also involves different transport modes as walking and bicycle we will also address UN Global Goal 3 by highlighting the connections between transport planning and good health.</p> <p>During late autumn 2024 and early Spring 2025 we may also arrange webinars with topics based in the knowledge and experience in the working group.</p>	<p>should be emphasized? Good local examples.</p> <p>During the autumn we have webinars on the following themes:</p> <ul style="list-style-type: none"> <li>- <b>PURIST, Combining Public transit and Ride Sharing in rural Transport</b></li> <li>- <b>Traffic safety and urban city planning</b></li> </ul> <p>We have also held a seminar in Bergen where the topic was <b>mobility strategies and transport infrastructure plans</b> where mobility is considered in conjunction with business and housing development, the development of supporting societal functions as well as climate and environmental considerations.</p> <p>The Working group was represented at the Climate and Environment – Carbon Reduction and Resource Efficiency webinar.</p> <p>What we take away from these meetings and events are, among other things, different ways of financing infrastructure, which aspects affect urban planning, the development of high-quality public transport and all the good examples we get to see from around the Nordic countries.</p> <p>We truly want to preserve the informal environment that NVF fosters between experts, officials and managers within various organizations in the Nordic region. It creates a fertile ground for relationship building and high-quality knowledge transfer.</p>
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Focus areas and Planed Actions for 2026 <i>Urban transport</i>		
Focus Areas 2026	Planned Actions 2026	Short Report on the Completed Plans Deadline <b>1st November 2026</b>
The working group will continue to focus on the pre-defined UN Global Goals, no 3 (Good health and	The working group will be arranging two seminars during 2026.	

<p>well-being) and no 11 (Sustainable cities and communities).</p> <p>Topics that will be discussed in specific terms are:</p> <ul style="list-style-type: none"> <li>- Combined transports (road rail maritime) and transport hubs, where should these be located in order to create strategic mobility?</li> <li>- Development of planning systems so that they are better able to handle requirements for economic, social, climate and environmental sustainability</li> </ul>	<p>The first is planned to be in <b>Torshavn, Faroe Islands</b>. By nature, it has to conquer challenges regarding logistics and transportation. So how to set up a logistics system that are efficient yet robust against weather and other challenges.</p> <p>The second will be arranged in <b>Finland</b> (place tbc). The idea is to set up a workshop to discuss the development of the planning system.</p> <p>Added to this, there will be several webinars during 2026. Topics tbc.</p>	
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<b>Focus areas and Planed Actions for 2027 Urban transport</b>		
<b>Focus Areas 2027</b>	<b>Planned Actions 2027</b>	<b>Short Report on the Completed Plans</b> <b>Deadline 1st November 2027</b>
<p>Combined transports (road rail maritime) and transport hubs, where should these be located in order to create strategic mobility?</p> <p>The choice of means of transport, housing area, business areas, destination and travel times, just as various groups of individuals (age, gender, social group, etc.) have qualitative preferences.</p>	<p>The working group will be arranging two seminars during 2027.</p> <p>The first is planned to be arranged in <b>Gothenburg, Sweden</b>. A city that acts as a transport hub with the biggest harbour in Scandinavia.</p> <p>The second will be arranged in <b>Denmark</b> (place tbc).</p> <p>Added to this, there will be several webinars during 2027. Topics tbc.</p>	

<b>Focus areas and Planed Actions for 2028 Urban transport</b>		
<b>Focus Areas 2028</b>	<b>Planned Actions 2028</b>	<b>Short Report on the Completed Plans</b> <b>Deadline 1st November 2028</b>
<p>New lines in order to reach the sustainability goals.</p>	<p>We are planning to arrange several webinars during Spring 2028. They will have different topics but will also include preparation ahead of Via Nordica.</p>	

# Action plan for Climate and Environment - Matrix Theme

## Plan for period 1<sup>st</sup> July 2024 – 30<sup>th</sup> June 2028

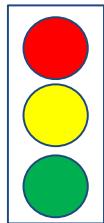
Chairperson: Karoliina Saarniaho

[Karoliina.saarniaho@vayla.fi](mailto:Karoliina.saarniaho@vayla.fi)

Vice-Chairperson: Hannah Sutton

[hannah.sutton@arup.com](mailto:hannah.sutton@arup.com)

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### Terms of reference

A theme group is established to exchange experience in climate and environment. The group should address the following matters:

Two coordinators will find a common theme about climate and environmental issues. After that they will contact all the working groups to plan a common workshop, webinar or seminar where many if not even all the working groups may have a presentation for this common theme.

### Focus Areas, planned Actions and reporting 2025

Focus Areas	Planned Actions	Short Report on the Completed Plans
<p>The Climate and Environment focus group is committed to addressing critical issues through an interdisciplinary approach that spans all Sustainable Development Goals (SDGs). Our overarching objective is to contribute to carbon reduction and build adaptation and resilience within the Nordic context, ensuring that our work not only addresses environmental sustainability but also considers social and economic aspects.</p> <p>Our focus will be on two central themes: carbon reduction and adaptation/resilience, which have been identified as common priorities across the various working groups and their action plans. These themes reflect the urgent need to mitigate climate change while also preparing our societies for its impacts, particularly in the Nordic region.</p> <p>The group will also aim to host two webinars, starting with the first at the end of 2025. These webinars will include all working groups and foster collaboration on shared</p>	<p>The Climate and Environment working group will first focus on <b>carbon reduction</b> as the central topic for the initial webinar, followed by <b>adaptation and resilience</b> for the subsequent one. To achieve these objectives, the following steps are in place:</p> <ol style="list-style-type: none"><li><b>1. Common Topic:</b> For the first webinar, the focus will be on <b>carbon reduction</b>. This theme has been selected due to its relevance and urgency across the Nordics, aligning with the region's goals for significant emissions reduction by 2030.</li><li><b>2. Event Scheduling:</b> The first webinar is tentatively scheduled for <b>autumn 2025</b>, with adaptation and resilience planned for the second webinar.</li><li><b>3. Call for Papers:</b> A "Call for Papers" will be issued, inviting each working group to submit 1–2 papers related to carbon reduction for the first webinar.</li><li><b>4. Proposal Review:</b> Once submitted, the group will assess the proposals to identify which papers and presentations are most relevant.</li></ol>	<p>The Climate and Environment group has prepared to host its first webinar on <b>carbon reduction</b> in <b>November 2025</b>. This event will bring together experts, youth representatives, and stakeholders from across the Nordics to explore innovative solutions and collaborative approaches to reducing carbon emissions.</p> <p>The webinar has been prepared with the other NVF working groups by Teams and emails.</p>

<p>challenges. We are committed to an inclusive and interactive format, where participants will have the opportunity to contribute ideas for future webinars by sharing which topics they feel are most pressing.</p> <p>Additionally, we recognize the importance of integrating youth perspectives. By including students and youth organizations, we aim to foster fresh insights and ensure that the voices of younger generations, who will inherit the future of climate action, are heard. Gender and diversity balance will also be a key focus in the selection of speakers, ensuring that there is broad representation from across the Nordics, including Greenland and the Faroe Islands.</p>	<p><b>5. Preliminary Program:</b> We will develop a preliminary agenda that includes presentations on carbon reduction, discussions, and an interactive session where participants can contribute ideas for future webinar topics, including those related to adaptation and resilience.</p> <p><b>6. Event Organization:</b> Logistics, such as managing registrations and organizing the webinar, will be coordinated by the working group, with support from the wider organizing team.</p> <p><b>7. Debriefing &amp; Future Planning:</b> Following the carbon reduction webinar, we will hold a debrief session to gather feedback and assess interest in organizing the second webinar on <b>adaptation and resilience for autumn 2026 or spring 2027</b>.</p> <p>In addressing the <b>SDGs</b>, the first webinar will focus on SDG 13 (Climate Action) and SDG 7 (Affordable and Clean Energy) through discussions on carbon reduction strategies.</p>	
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Focus areas and Planed Actions for 2026 <i>Climate and Environment</i>		
Focus Areas 2026	Focus Areas 2026	Short Report on the Completed Plans Deadline <b>1st November 2026</b>
<p>To prepare the second webinar with the working groups. The webinar will take place in the Spring 2027.</p> <p>The second webinar will cover SDG 13 and SDG 11 (Sustainable Cities and Communities) by focusing on building resilience and adaptation strategies.</p>	<p>Cooperation with the other NVF working groups by Teams</p> <ul style="list-style-type: none"> <li>- <b>Event Scheduling:</b> The second webinar is tentatively scheduled for <b>spring 2027</b>.</li> <li>- <b>Contacting the other working groups:</b> inviting each working group to submit 1–2 presentations.</li> <li>- <b>Preliminary Program</b></li> <li>- <b>Event Organization:</b> managing registrations and organizing the webinar</li> </ul>	

Focus areas and Planed Actions for 2027 <i>Climate and Environment</i>		
Focus Areas 2027	Planned Actions 2027	Short Report on the Completed Plans Deadline <b>1st November 2027</b>

<p>The second webinar is planned to focus on <b>adaptation and resilience</b> and will take place in the Spring 2027</p> <p>The second webinar will cover SDG 13 and SDG 11 (Sustainable Cities and Communities) by focusing on building resilience and adaptation strategies.</p>	<p><b>Webinar, spring 2027</b> Cooperation with the other NVF working groups by Teams</p> <p><b>- Debriefing &amp; Future Planning:</b> Following the webinar to gather feedback and assess interest in organizing a possible session in Via Nordica 2028.</p>	
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<b>Focus areas and Planed Actions for 2028 Climate and Environment</b>		
<b>Focus Areas 2028</b>	<b>Planned Actions 2028</b>	<b>Short Report on the Completed Plans</b> <b>Deadline 1st November 2028</b>
To prepare Via Nordica	Cooperation with the other NVF working groups by Teams	