

# Action plan for Road Technology

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

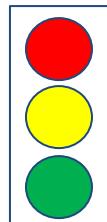
Chairperson:

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



### Terms of reference

A working group will be established to exchange experience in road technology. The working group should address the following matters:

- a) 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.
- b) 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.
- c) Aging infrastructure, Prioritization of the road network

Focus Areas and Planned Actions 2025		
Reporting and follow-up on the action plan		
Focus Areas 2025	Planned Actions 2025	Short Report on the Completed Plans dl 1 <sup>st</sup> November 2025
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.	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	[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.

<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>where are we going in sustainable construction and maintenance.</p>	<p>For further discussions on some topics, we held another working group meeting. January WG meeting 31. January 2025.</p>																										
<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>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>Each country held a webinar that focused on the main theme of the working group regarding:</p> <p><i>Sustainable approach to choose and recycling of materials in the road sector</i></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>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><b>Iceland webinar - Bio-binders in wearing course - 20. January</b></p> <p><b>Norway webinar - Green Asphalt Procurement - 12. February</b></p> <p><b>Sweden webinar - Transition to more sustainable road construction using waste materials - 13. March</b></p> <p><b>Finland webinar - Bearing capacity and long-term performance of crushed concrete in highway structures - 14. April</b></p> <p><b>Denmark webinar - Biobased binder for Asphalt - 27. May</b></p>																										
<p>In addition, we have the common theme with the other WGs, <b>Climate and environment</b>.</p>	<p>Webinars will usually be held 12:00-12:30 CET. 20 min. and 10 min questions.</p>	<p>Annual Meeting in Iceland 3-5. June 2025</p>																										
<p>We aim at linking those topics together throughout the period but have focus on one topic each year.</p>	<p>Online meetings 2025</p> <p>January</p> <p>April</p> <p>October – Status meeting for 2026.</p>																											
<p>For the first year (2025) we will have focus on the topic:</p> <p><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>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>The working groups SDGs are:</p> <p>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>		<table border="1"> <thead> <tr> <th>Time</th> <th>Tuesday 3<sup>rd</sup> of June</th> </tr> </thead> <tbody> <tr> <td>18:00</td> <td>Welcome drinks and dinner at Hotel Natura</td> </tr> <tr> <th>Time</th> <th>Wednesday 4<sup>th</sup> of June</th> </tr> <tr> <td></td> <td>Registration, coffee</td> </tr> <tr> <td>8:30</td> <td>Opening of the seminar Jón Helgi - Vegagerðin</td> </tr> <tr> <td>8:45</td> <td>Determining Pavement Layer Thickness for Back-calculation Using Ground Penetrating Radar Tatek Fekadu Yideti - Vegvesen</td> </tr> <tr> <td>9:15</td> <td>Super heavy transports – Bearing calculations, principles, controls and pictures Erik Oscarsson - Trafikverket</td> </tr> <tr> <td>9:45</td> <td>Coffee break</td> </tr> <tr> <td>10:00</td> <td>From Lab to Road: Development of a Fossil-Free Binder from Fungi for Pavement Applications Oleksii Rebrov - Visibuilt</td> </tr> <tr> <td>10:30</td> <td>Pavement-related research at DTU: an overview Eyal Levenberg - DTU</td> </tr> <tr> <td>11:00</td> <td>Break</td> </tr> <tr> <td>11:15</td> <td>New improved base course with BSM (Bitumen Stabilized Material), <i>What, where and why</i> Allan Bay - Arkil</td> </tr> <tr> <td>11:45</td> <td>Concrete foam as an insulation layer in a bike and pedestrian road Lars Persson - Trafikverket</td> </tr> </tbody> </table>	Time	Tuesday 3 <sup>rd</sup> of June	18:00	Welcome drinks and dinner at Hotel Natura	Time	Wednesday 4 <sup>th</sup> of June		Registration, coffee	8:30	Opening of the seminar Jón Helgi - Vegagerðin	8:45	Determining Pavement Layer Thickness for Back-calculation Using Ground Penetrating Radar Tatek Fekadu Yideti - Vegvesen	9:15	Super heavy transports – Bearing calculations, principles, controls and pictures Erik Oscarsson - Trafikverket	9:45	Coffee break	10:00	From Lab to Road: Development of a Fossil-Free Binder from Fungi for Pavement Applications Oleksii Rebrov - Visibuilt	10:30	Pavement-related research at DTU: an overview Eyal Levenberg - DTU	11:00	Break	11:15	New improved base course with BSM (Bitumen Stabilized Material), <i>What, where and why</i> Allan Bay - Arkil	11:45	Concrete foam as an insulation layer in a bike and pedestrian road Lars Persson - Trafikverket
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<p>Remember to address the overarching theme of Climate and Environment. The theme group will organize 1-2 seminars during the period 2024–2028. The working group should be prepared to</p>																												

<p>identify 1–2 suitable presentations on the theme and submit the presentation proposal papers to the theme coordinators.</p>	<p>Our objectives was to exchange knowledge and worked well with the webinars.</p>	12:15	Lunch at Hotel Natura
		13:15	Digital twins for pavement infrastructure Eyal Levenberg - DTU
		13:45	<b>Status in each country (20 min) *</b> - Iceland - Norway - Sweden
		15:00	Coffee break
		15:15	<b>Status in each country (20 min) *</b> - Faroe Island - Denmark - Finland
		16:30	<b>Discussions and summary</b>
		19:00	Dinner at Matarkjallarinn downtown Reykjavík
		Time	<b>Thursday 5<sup>th</sup> of June</b>
		9:00	Bus tour around the Reykjanes Peninsula, visiting recent volcanic eruption sites and new roads built on new lava
		12:00	Lunch at Hotel Natura
		13:00	End of seminar

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>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>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)</p> <p>December – Iceland (topic 2026)</p> <p><b>2026</b></p> <p>January – Norway</p> <p>February – Sweden</p> <p>March – Finland</p>	<p>[insert text here, dl 1<sup>st</sup> November 2026]</p> <p>Instructions: Here you can describe the progress the working group has made in achieving its objectives.</p> <p>You can also describe the activities that have supported the progress.</p> <p>Which events (seminars, meetings, etc.) has the working group organized? What was the purpose? What was achieved?</p> <p>Were there that kind of successes or practices in the activities that you could recommend to other working groups as well?</p>

<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>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 March - Status October – Status meeting for 2027.</p> <p>Physical meeting/seminar 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 and Planed Actions for 2027		
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>	<p>[insert text here, dl 1<sup>st</sup> November 2027]</p> <p>Instructions: Here you can describe the progress the working group has made in achieving its objectives.</p> <p>You can also describe the activities that have supported the progress.</p> <p>Which events (seminars, meetings, etc.) has the working group organized? What was the purpose? What was achieved?</p>

		Were there that kind of successes or practices in the activities that you could recommend to other working groups as well?
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Focus areas and Planed Actions for 2028		
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><i>d) Theme of the three earlier focus areas and Preparation of Via Nordica presentations.</i></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>	<p>[insert text here, dl 1<sup>st</sup> November 2028]</p> <p>Instructions: Here you can describe the progress the working group has made in achieving its objectives.</p> <p>You can also describe the activities that have supported the progress.</p> <p>Which events (seminars, meetings, etc.) has the working group organized? What was the purpose? What was achieved?</p> <p>Were there that kind of successes or practices in the activities that you could recommend to other working groups as well?</p>