Group of Experts on Climate Change Impacts and Adaptation for Transport Networks and Nodes
Current focus

- Preparation of the report
  - Background and introduction (implications for transport from climate change)
  - Climate information and infrastructure networks and nodes
  - Country policies, practices and studies (case studies)
  - Conclusions and recommendations

Report will be submitted to WP.5 32nd session in September 2019
Climate change impacts and adaptation

Climate information and infrastructure networks and nodes

- Climate trends and projects
- Developments in climate modelling
- Infrastructure networks and nodes
- Identification of higher risks areas
Climate information and infrastructure networks and nodes

- Identification of higher risks areas

<table>
<thead>
<tr>
<th>Climatic factor</th>
<th>Proxy variable</th>
<th>Network</th>
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</thead>
<tbody>
<tr>
<td>Heatwave</td>
<td>WSDI, Warm spell duration index: Annual count of days with at least 6 consecutive days when TX &gt; 90th percentile</td>
<td>Road and rail networks</td>
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<tr>
<td>Downpours/ flashfloods</td>
<td>R20mm (annual count of days pc &gt; 20mm)</td>
<td>Road and rail networks</td>
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<tr>
<td>Flooding</td>
<td>Rx5day (maximum 5-day consecutive precipitation (6h) amount)</td>
<td>Road and rail networks</td>
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<tr>
<td>Permafrost thaw</td>
<td>ID. Number of icing days: Annual count of days when TX (daily maximum temperature) &lt; 0°C</td>
<td>Road network</td>
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<tr>
<td>Heat on rail</td>
<td>Tropical days 30 degrees (SU, Number of summer days: Annual count of days when TX (daily maximum temperature) &gt; 30°C.)</td>
<td>Rail network</td>
</tr>
<tr>
<td>Low river flow</td>
<td>Annual precipitation with Consecutive dry days</td>
<td>Waterways</td>
</tr>
</tbody>
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Climate change impacts and adaptation

West Asia

Country policies, practices and studies (case studies)

• National approaches to assessing potential impacts from climate change

• Case studies on socioeconomic impacts from climate change linked to transport
  • Winter maintenance of roads
  • Winter roads
  • and many others
Outlook into the future

The report will be a step of many in this important work

Hotspots needs to be identified locally taking into account geomorphology, infrastructure conditions and quality

It will be important to:
- Raise awareness and expertise in countries, and when doing so
- Promote the methodology developed
- Start from the identified higher risk areas
Thank you!