

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



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Climate change impacts and adaptation

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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

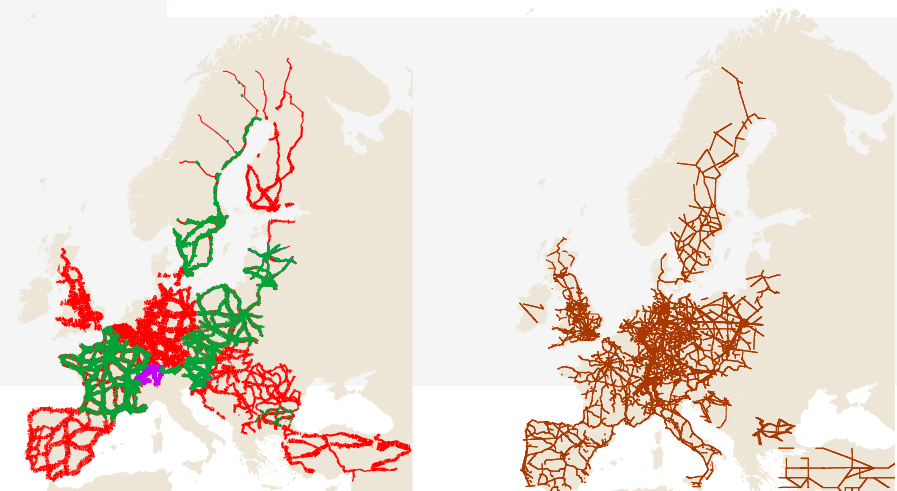
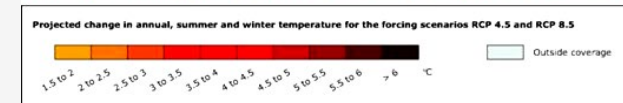
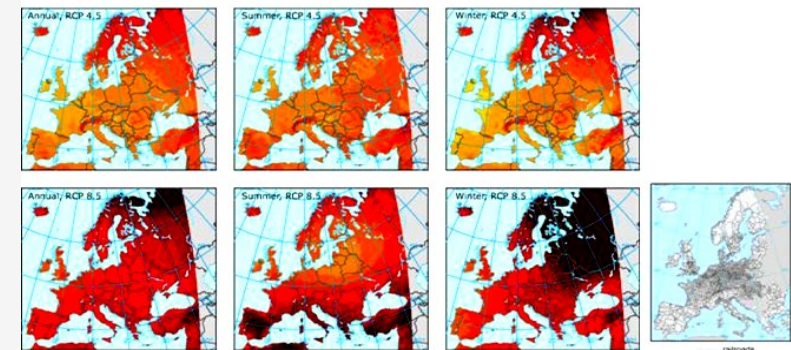
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Climate information and infrastructure networks and nodes

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



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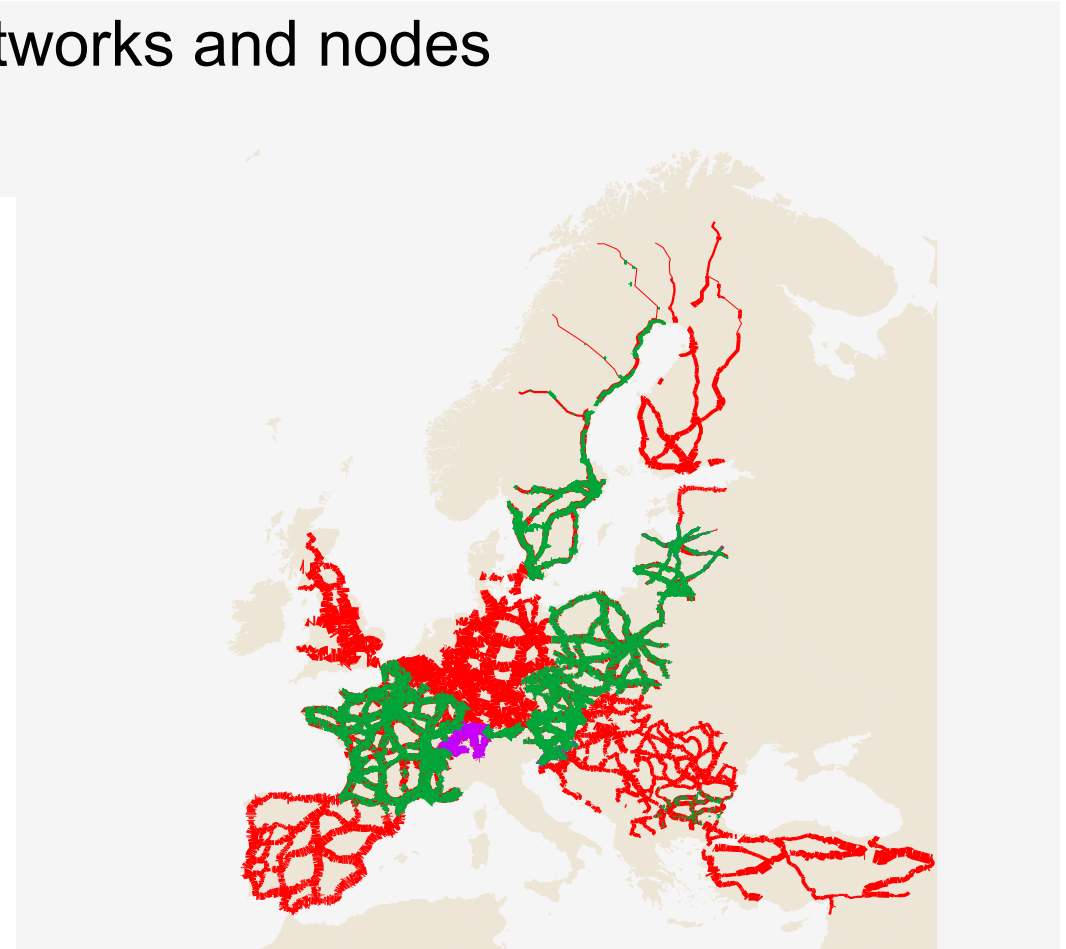
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Climate information and infrastructure networks and nodes

- Identification of higher risks areas

<i>Climatic factor</i>	<i>Proxy variable</i>	<i>Network</i>
Heatwave	WSDI, Warm spell duration index: Annual count of days with at least 6 consecutive days when TX > 90th percentile	Road and rail networks
Downpours/ flashfloods	R20mm (annual count of days pr > 20mm)	Road and rail networks
Flooding	Rx5day (maximum 5-day consecutive precipitation (pr) amount)	Road and rail networks
Permafrost thaw	ID, Number of icing days: Annual count of days when TX (daily maximum temperature) < 0oC	Road network
Heat on rail	Tropical days 30 degrees (SU, Number of summer days: Annual count of days when TX (daily maximum temperature) > 30oC.)	Rail network
Low river flow	Annual precipitation with Consecutive dry days	Waterways



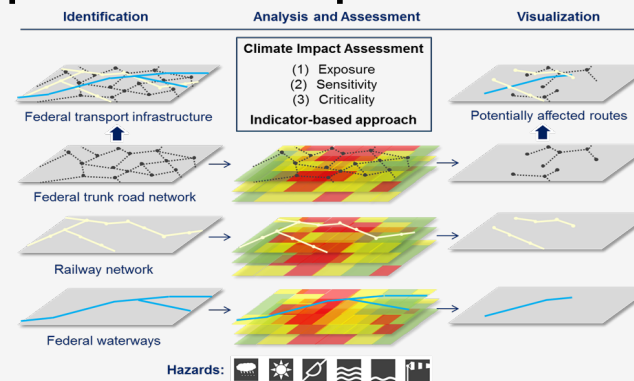
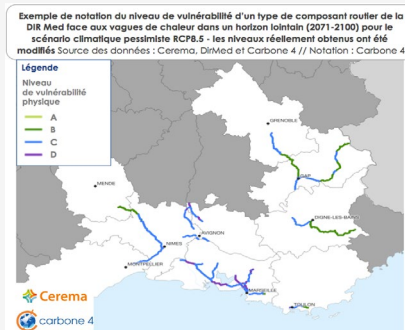
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Country policies, practices and studies (case studies)

- 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

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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!



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