

**Economic Commission for Europe**

Inland Transport Committee

**Working Party on Transport Trends and Economics**

**Group of Experts on Climate Change impacts and adaptation for international transport networks**

**Second session**

Geneva, 8 November 2011

Item 8 of the provisional agenda

**Questionnaire for collection of information on existing and potential climate change impacts on transport as well as degree of preparedness and relevant policies for adaptation**

**UNECE GROUP OF EXPERTS ON CLIMATE CHANGE IMPACTS AND ADAPTATION IN INTERNATIONAL TRANSPORT NETWORKS**

**QUESTIONNAIRE**

**DRAFT FOR DISCUSSION**

The questionnaire is divided into five main parts

- I. General information and background
- II. Level of awareness and availability of information and data on climate change impacts on transport
- III. Level of preparedness and existing and planned transport adaptation policies, measures and initiatives
- IV. Information, data and research needs and other requirements, including financing
- V. Collaboration mechanisms at national/local, regional and international levels.

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**I. General information and background [depends on sample targeted]**

Please provide some information about your country [addressed to governments] and/or your organization/company [addressed to transport operators, planners, or industry]

Name and location:

Type of entity/organization:

Function within Government/Organization/Company:

Role in making decisions about transport planning, operations, management and maintenance:                                    YES                                    NO

If yes, please specify and indicate the extent of your involvement?  
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**II. Level of awareness and availability of information and data on climate change impacts on transport**

*Q1: On a scale of 1-10 (1= not at all, 10= very much) to which extent do you consider climate change to be a problem for transport in your country region [organization/company]?*

1	2	3	4	5	6	7	8	9	10
Not at all									Very much

*Q2: On a scale of 1-10 (1= no knowledge at all, 10= very good knowledge on all topics) how would you rate knowledge and level of awareness about the impacts of climate change on transport in your country region [organization/company]?*

1	2	3	4	5	6	7	8	9	10
No knowledge at all									Very good knowledge on all topics

*Q3. In your view, who should be the main target audience when raising awareness about climate change impacts on transport (e.g. transport ministry, industry managers, operators, investors, etc.).....*

*Q4: As applicable, please indicate whether transport in your country [for which your organization/company is responsible] has been impacted by any of the climate change factors (rising temperatures, extreme weather events, drought, sea level rise and storm surges, melting permafrost, etc.).*                      YES                      NO

*Please explain.....*

*Q5. As applicable, please indicate whether the impacts relate to a specific mode/modes of transport or a network linking together various modes and interchange platforms?*

*Please explain.....*

*Q6. Has your country [organization/company] undertaken any specific assessment of the vulnerabilities of transport (segments, modes, networks, operations, infrastructure, etc.) to various climate change factors (rising temperatures, extreme weather events, drought, sea level rise and storm surges, melting permafrost, etc.)?*                      YES                      NO

*Please explain.....*

**Q7: Has your country [organization/company] conducted studies evaluating the implications of climate impacts on transport or estimated the costs of actual or potential damages to transport, in particular infrastructure? YES NO**

**As applicable, please indicate which specific climate change impacts on transport have/are being studied? [circle appropriately]**

- 1. Impacts of rising temperatures on transport infrastructure Yes.....No
- 2. Impacts of extreme weather events on transport infrastructure Yes.....No
- 3. Impacts of drought on transport infrastructure Yes.....No
- 4. Impact of sea level rise and storm surges Yes.....No
- 5. Impact of melting permafrost Yes.....No
- 6. Other impact (explain).....

**Q8: If there has been little or no study of climate change impacts on transport in your country, please indicate what in your view are the main reasons: select one or more of the following**

- 1. Lack of financing.....
- 2. Lack of interest from the responsible institutions.....
- 3. Lack of awareness in the general public.....
- 4. Lack of scientific expertise and human resources.....
- 5. Though interest on the topic existed, other more pressing needs took precedence. (explain).....
- 6. Other reasons.....

**Q9: On a scale of 1 - 10 (1=least important, 10= most important) to what extent do you consider is involvement of the following types of actors/entities important for the study/research/dissemination of information on climate change impacts on transport?**

1 2 3 4 5 6 7 8 9 10

- Ministry of the Environment
- Ministry of Transport
- International organizations
- Universities
- Private companies
- NGOs
- Other (please specify)

*Q10: In your view, what, if any, are the opportunities that may arise for transport in your country [for which your organization/company is responsible] in connection with climate change?*

*Please explain.....*

**III. Level of preparedness and existing and planned transport adaptation policies, measures and initiatives**

*Q11: Has your country adopted or is planning to adopt a general adaption strategy to climate change impacts (not sector specific)?*      YES      NO

*Please explain.....*

*Q12: Has a cost-benefit analysis been conducted with regard to any climate change adaptation plans/strategy?*      YES      NO

*Please explain.....*

*Q13: Has your country [organization/company] adopted or is planning to adopt a transport specific strategy for adapting to climate impacts?*      YES      NO

*Q14: If yes, please provide further details about the objectives and modalities of such adaptation strategy.*

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*Q15: On a scale of 1 to 4 where 1 means not effective at all and 4 means very effective, please indicate how would you rate the results/effectiveness of any transport specific adaptation strategy adopted?*

1. Not effective at all
2. Somewhat effective
3. Effective
4. Very effective
5. Not applicable/Do not know

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*Q16: How are or will the effectiveness of adaptation measures taken currently or in future be monitored and evaluated?*

*Please explain .....*

**Q17: What concrete actions, if any, have been taken or are being planned with a view to building the resilience of transport networks to climate change impacts in your country [for which your organization/company is responsible]?**

*Please explain*.....

**Q18: Please explain and clarify the extent to which these relate to transport planning, investment, design, construction, operation, management and maintenance?**.....  
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**Q19: If new transport infrastructure developments are being undertaken/planned, do relevant plans take into account climate change drivers (e.g. extreme events, increased rainfall, rising sea levels, etc )?** YES NO

*Please explain* .....

**Q20: Based on the experience of your country [organization/company] what are, in your view, some of the main best practices and lessons that could be drawn with respect to adaptation action in transport?**

*Please explain* .....

**Q21: Has your country [organization/company] developed or is planning to develop and emergency response systems for transport.**

*Please explain* .....

**Q22: Has the insurance industry in your country integrated climate change considerations into their products offered to the transport sector/industry?** YES NO

*Please explain* .....

**IV. Information data and research needs and other requirements, including financing**

*Q23: What are, in your view, the type of information, data or measures that would be most valuable for achieving effective preparedness to climate change impacts and designing adequate adaptation responses in transport? (Multiple answers possible)*

*Please explain.....*

*Q24: What are the main data/information sources that are currently used for the purposes of studying climate change impacts/developing adaptation measures in transport?*

*Please explain.....*

*Q25: How do you rate the availability of relevant data/information in your country [organization/company], on a scale of 1 – 5 where 1 is Poor and 5 is excellent:*

- 1. Poor
- 2. Bad
- 3. Good
- 4. Very Good
- 5. Excellent
- 6. Not applicable/Do not know

*Please explain, as appropriate .....*

*Q26: How do you rate the suitability/ relevance/ quality of relevant data/ information and in your country [ organization/company], on a scale of 1 – 5 where 1 is Poor and 5 is excellent:*

- 7. Poor
- 8. Bad
- 9. Good
- 10. Very Good
- 11. Excellent
- 12. Not applicable/Do not know

*Please explain, as appropriate .....*

*Q27: Are specific models/software tools used and, if so, for which purpose (e.g. forecasting storm surge impacts on ports)?*

YES                      NO      Do not know

**Q28: If yes, please list the models/software tools and indicate for each one the level of aggregation (Tier 1, 2 or 3 according to the Intergovernmental Panel on Climate Change - IPCC)**

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**Q29: Please identify any existing or potential funding mechanisms that could support further adaptation action in transport (including study of impacts)?**

**Please explain.....**

**Q30: Overall, please indicate the specific priority areas that require further attention to enable effective adaptation strategies in transport and that are tailored for your local conditions?**

**Please explain.....**

**V. Collaboration mechanisms at national / local, regional and international levels**

**Q31: Which existing or potential mechanism(s) for cooperation do you consider most useful in addressing the issue of climate change adaptation for transport? Please briefly also state your reasons, the type of cooperation/partners involved and the mode or type of transport infrastructure/service/operational aspect you are referring to?**

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**Q32: Do you consider the current level of cooperation at the national or local level adequate/sufficient**

YES NO

**As appropriate, please indicate any specific suggestions for improvements/enhanced cooperation**

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**Q33: Are regional or sub-regional cooperation and information exchange on climate change part of existing practice and policy in your country [organization/company]? If so, how much of this cooperation addresses transport in particular and in what ways?**

**Please explain.....**

**Q34: Do you consider the relevant current level of cooperation at the regional/sub-regional level adequate/sufficient**

YES NO

**As appropriate, please indicate any specific suggestions for improvements/enhanced cooperation**

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**Q35: Do you think that possibility of amendments to existing UNECE infrastructure agreements (AGR, AGC, AGN, AGTC) merits serious consideration with a view to promoting/facilitating climate change adaptation of transport networks?**

**Please explain.....**  
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**Q36: Do you consider the current level of cooperation at the international level adequate/sufficient**

YES NO

**As appropriate, please indicate any specific suggestions for improvements/enhanced cooperation**

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**Q37: In your view, which type of further international cooperation would be of value in addressing climate change impacts and adaptations requirements?**

**Please explain.....**

**Q38: Please provide any additional comments/suggestions (Please attach additional sheets if necessary):**

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Contact details: