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Economic Commission for Europe**Inland Transport Committee****Working Party on Transport Trends and Economics****Group of Experts on Climate Change impacts and adaptation for transport networks and nodes****Eight session**

Geneva, 14–15 January 2016

Item 4 of the provisional agenda

Preliminary discussion on the structure of the final report of the Group of Experts**Draft Outline of the contents of the final report****Note by the secretariat*****I. Mandate**

In accordance with its Terms of Reference (ECE/TRANS/2015/6), approved by ITC on 24–26 February 2015 (ECE/TRANS/248, paras. 32–35) the Group of Experts is expected to complete its work within two years (2015–2017) and to submit a full report of its accomplishments. The Group of Experts should base its considerations on the previous work of United Nations Economic Commission for Europe (UNECE) in this field, in particular, the output of the Group of Experts on Climate Change Impacts and Adaptation for International Transport Networks and its final report (ECE/TRANS/241) and recommendations published in 2013 and adopted by the Inland Transport Committee at its seventy-sixth session (ECE/TRANS/240, para. 20).

II. Draft Outline of the Contents of the Final report

Contents

Executive summary

Background and Introduction [previous work, TOR of EG, aims and objectives, work plan]

* The present document was not edited before being sent to the United Nations translation services.

Chapter 1 Climate Change: an overview of Climate Change projections in the ECE region

- 1.1 Introduction
- 1.2 Climate Change and Variability: The Physical Basis
 - 1.2.1 Precipitation and floods: Trends and projections
 - 1.2.2 Sea level changes: Trends and projections
 - 1.2.3 Temperature, including extremes: Trends and projections
 - 1.2.4 Winds: Trends and projections
 - 1.2.5 Permafrost: Trends and projections
 - 1.2.6 Other extreme weather events

Chapter 2 Identification of criticality and sensitivity of transport infrastructure in the ECE region

- 2.1 Introduction
- 2.2 Identification of parameters that determine criticality and sensitivity of transport infrastructure
 - 2.2.1 Road networks
 - 2.2.2 Rail networks
 - 2.2.3 Inland Water Transport
 - 2.2.4 Ports
 - 2.2.5 Airports
 - 2.2.6 Other transport nodes
- 2.3 Considered critical Infrastructure in ECE region *(on the basis of the information provided by the member States, including the Questionnaire survey)*

Chapter 3 Mapping of hot spots: critical infrastructure meets Climate Change projections *(depending on availability of appropriate funding and specialized support by the member States)*

- 3.1 Introduction
- 3.2 Climatic "hot spots"
 - 3.2.1 Models/methodologies used for the projections
 - 3.2.2 Climatic hot spots for transport infrastructure in the ECE region
- 3.3 Implications for critical transport infrastructure for the UNECE Member States

Chapter 4 Case Studies

- 4.1 Introduction
- 4.2 Analysis of previous relevant studies
 - 4.2.1 Economic consequences
 - 4.2.2 Social consequences

4.2.3 Environmental consequences

4.3 Cost / benefit analysis: Available methodologies and tools

4.4 Case Studies (upon available funding and/or Member States integrated inputs)

Chapter 5 Conclusions and Recommendations

Annexes

- Members of the Expert Group/List of Participants
 - List of relevant UNECE documents (as appropriate with analytical summary)
 - TOR and Programme of Work for EG (ECE/TRANS/WP.5/GE.3/2011/1)
 - Questionnaire
 - References
 - Additional literature of relevance to climate change impacts and adaptation in transport
 - [List of useful websites]
 - [List of useful contacts]
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