

Mediterranean Conference
for
Raising awareness on adaptation of transport infrastructure
to climate change and on setting up an effective
intervention programme

Date 15-16 May 2023

Hôtel de Région, Marseille, France

Programme

First day. 15 May	
9:00	Welcome coffee
9:30-10:00	<p>I. Opening</p> <p>Opening statements and welcome address</p> <ul style="list-style-type: none"> - Mr. Thierry Coquil, Director General of Infrastructure, Transport and Mobility, France - Mr. Jean-Pierre Serrus, Vice-President of the Provence-Alpes-Côte d'Azur Region, in charge of transport and sustainable mobility - Ms. Els de Wit, Chair of the UNECE Working Party on Transport Trends and Economics (online) - Ms. Teodora Popescu, Vice-chair of the Group of Experts - Mr. Lukasz Wyrowski, UNECE - Mr. Tarek Sadek, UNESCWA - Mr. Alberto Palacios, CETMO
10:00-10:40	<p>II. Climate variability and change and implications on transportation systems</p> <p>Moderator: Mr. Jean-Pierre Serrus, Vice-President of the Provence-Alpes-Côte d'Azur Region, in charge of transport and sustainable mobility</p> <p>Key notes:</p> <p>Climate variability and change, observed changes and projected trends (presentation of different possible scenarios and corresponding impacts)</p>

	<p>regarding the evolution of climate hazards) with focus on Mediterranean region, – Mr. Joel Guiot, Senior Scientist, European Center for Research and Education in Environmental Geosciences France and prof Fatima Driouech, Mohammed VI Polytechnic University, Morocco (online)</p> <p>Implications for transport from climate variability and change today and projections for the future – prof Adonis Velegrakis, University of the Aegean, Greece</p>
10:40-11:00	Coffee break
11:00-12.30	<p>Panel to discuss observed and assessed implications of climate change, examples from countries</p> <p>Moderator: Ms. Marlene Tomasziewicz, ESCWA</p> <p>Country speakers for presentations on events which resulted in impacts from climate hazards on transport networks or nodes. Impacts such as extended heat periods which may have resulted in fires, heavy precipitation which may have led to flash flooding, sea surge leading to port inundation may be presented):</p> <ul style="list-style-type: none"> - Ms. Somaya Ben Rached, Head of Climate Change Division, National Institut of Meteorology, Tunisia – Climate change and extreme weather events in Tunisia, impacts from flooding on transport sector - Mr. Salah Sahabi Abed, Director of Operations and Climatology, National Office of Meteorology, Algeria – Assessment of future climate projections in Algeria using CMIP5 and CMIP6 models - Mr. Florent Moretti, Head of the transport department at the regional directorate for the environment, development and housing (DREAL Provence-Alpes-Côte d'Azur) – The impacts of Alex storm on road and railway infrastructure in the Roya Valley (South of France) - Mr. Mladen Marković, Chief Engineer for the National Integration Program for Road Infrastructure, Public Enterprise Roads of Serbia – Natural hazards and climate impact that endanger the state roads network - Ms. Eneida Elezi, Foreign Affairs, Ministry of Infrastructure and Energy, Albania – How Albania can devote more attention to adaptation <p>- Presentations will be followed with discussion on:</p> <ul style="list-style-type: none"> - Lessons learned from the events presented - Action taken to restore the transport service - Negative impacts from future events of similar type and on how they can be prevented

	Lunch break : buffet provided by the French Ministry of Ecological Transition and Territorial Cohesion
14:00-15:00	<p>III. Transport asset assessment</p> <p>Moderator: Mr. Alberto Palacios CETMO</p> <p>Key notes:</p> <p>Transport assets to enable people’s mobility and trade flows in the Mediterranean region – International Transport Infrastructure Observatory – Mr. Lukasz Wyrowski, UNECE</p> <p>What is the transport asset, why do we need to think in terms of asset characteristics, asset environment, asset manager’s organizational environment for understanding the degree of asset resilience – prof Bryan Adey, ETH Zurich</p> <p>Analysis of the risks incurred by extreme climate events on transport assets and service (vulnerability and criticality analysis) – Ms. Teodora Popescu, Directorate General of Infrastructure, Transport and Mobility, France</p>
15:00-15:15	Coffee break
15:15-17:20	<p>Panel to discuss transport asset, characteristics, criticality</p> <p>Moderator: prof Andrew Quinn, University of Birmingham</p> <p>Country speakers for presentations on main corridors and nodes in the Mediterranean region with focus on what standards they have been built against, ie. temperature. precipitation levels, sea surges and how resilient to climate change they are, as well as on how critical they are for moving people and cargo:</p> <ul style="list-style-type: none"> - Dr. Kassem Rahal, Minister’s Advisor, Ministry of Public Works and Transport, Lebanon – Climate change risks on the transport sector in Lebanon, and the proposed adaptation measures for mitigation - Eng. Mona Kotb, Head of Central Department for Studies and Development, Ministry of Transport, Egypt – Climate Change and transport sector in Egypt - Eng. Adil Bahi, Director of strategy and coordination of transports, Ministry of Transport and Logistics, Kingdom of Morocco – Transport and climate risks in Morocco - Mr. Rui Velasco Martins, Head of Studies, Evaluation and Foresight Services Department, Instituto da mobilidade e dos transportes, I.P., Portugal – Inland Transport Adaptation in Portugal <p>- Presentations will be followed with discussion on</p>

	<ul style="list-style-type: none"> - What degree of knowledge we have about the transport asset, its surroundings and asset manager operational capabilities - Criticality of the road/railway line, port in terms of societal needs – citizens mobility, freight supply chain - What type of knowledge about the asset is crucial to assessing the degree of asset resilience to climate change hazard
17:20-17.30	End of the first day
17:30 – 19h	Cocktail provided by the Regional Council of Provence-Alpes-Côte d’Azur

Second day, 16 May	
9:00	Welcome coffee
9:30-11:00	<p>IV. Climate projections and corresponding impacts – case studies</p> <p>Key note (15-20 min): Ms. Marlene Tomasziewicz, ESCWA</p> <p>Case-study material on climate-related hazards and examples of projections for climate change impacts on Mediterranean transport (with predefined hypotheses regarding the evolution of emissions or global warming level) networks and nodes, with focus on</p> <ul style="list-style-type: none"> - Very hot days/heat waves/fires - Extreme precipitation/flash flooding, droughts - Sea level rise and shoreline retreat - Extreme winds and sand/dust storms <p>Work in groups to discuss modelled projections and what they mean in terms of impacts on the Mediterranean transport networks and nodes</p> <ul style="list-style-type: none"> - Group on very hot days/heat waves/wildfires/droughts (starting with impacts on road/rail): <u>Group lead:</u> Marlene Tomasziewicz and Teodora Popescu - Group on extreme precipitation/flash flooding (starting with impacts on road/rail): <u>Group lead:</u> Bryan Adey and John Dora - Group of sea level rise (starting with impacts on maritime ports and coastal infrastructure) – <u>Group lead:</u> Adonis Velegarakis and Jan Brooke - Group on strong winds, gusts and sand/dust storms (starting with impacts on road/rail):

	<p><u>Group lead:</u> Syeda Anam Hashmi and Andrew Quinn</p> <p>The work in groups should discuss and conclude on:</p> <ul style="list-style-type: none"> - What do the projections tell us and how one should link this information (also taking into account the thresholds considered for various weather phenomena reflected in the projections) with the knowledge about the infrastructure (resilience of existing infrastructure to the considered thresholds) - What should be the steps taken following the initial analysis if any - What can be done to minimize the future risks
11:00-11:15	Coffee break
11:15-11:45	Continuation of work in groups
11:45-12:30	<p>Presentations of group work (by each group) and summary of what this exercise taught us</p> <p>Moderator: prof John Dora, <i>Climate Sense</i></p>
12:30-14:00	Lunch break : buffet provided by the French Ministry of Ecological Transition and Territorial Cohesion
14:00-16:00	<p>V. Adaptation to climate change in practice: how to set up an effective adaptation programme once the impacts of climate change on the infrastructure have been assessed</p> <p>Moderator: Lukasz Wyrowski, <i>UNECE</i></p> <p>Key notes:</p> <p>Range of adaptation measures – which types of measures for which type of situations – structural/physical measures/maintenance-related measures/institutional adaptation, adaptation pathways approach – prof Andrew Quinn, <i>University of Birmingham</i></p> <p>How to evaluate and select adaptation measures (economic assessment) – prof John Dora, <i>Climate Sense</i></p> <p>Panel to discuss effective adaptation/intervention programme:</p> <p>Moderator: Ms. Teodora Popescu, <i>France, Vice-Chair of the Group of Experts</i></p> <p>Country speakers for presentations on experience with adaptation programmes for transport networks and nodes:</p> <ul style="list-style-type: none"> - Mr. Thibaut Limon, <i>Expert in ecological transition at the Prospective Mission of the Infrastructures and Superstructures</i>

	<p><i>Department of the Provence-Alpes-Côte d'Azur Region – Example of a systemic approach to transport resilience</i></p> <ul style="list-style-type: none"> - Ms. Mercedes de Juan Muñozerr, Innovation and Cluster Development. Fundacion Valenciaport – Towards a Resilient Port Network. Adaptation of ports to the effects of climate change - prof Emma Ferranti, <i>University of Birmingham</i> – Outcomes from the project on adaptation of transport in Africa - Presentations will be followed with discussion on <ul style="list-style-type: none"> - When an adaptation programme is effective - How can we devote more attention to adaptation
16:00-16:15	Coffee break
16:15-17:00	<p>VI. Tools under development by the Group of Experts</p> <p>Moderator: Mr. Tarek Sadek, ESCWA</p> <ul style="list-style-type: none"> - Framework for stress testing – prof Bryan Adey, <i>ETH Zurich</i> - Guidance on criticality assessment – Ms. Teodora Popescu, <i>France, Vice-chair, Group of Experts</i> - Guidance on adaptation pathways – Dr Syeda Anam Hashmi, <i>University of Birmingham</i> - Understanding the business case for transport asset adaptation – Ms. Jan Brooke, <i>PIANC</i> and Dr Syeda Anam Hashmi, <i>University of Birmingham</i> <p>Questions and answers</p>
17:00-17:20	<p>VII Conference conclusions and way forward</p> <ul style="list-style-type: none"> - Mr. Lukasz Wyrowski, <i>UNECE</i> - Mr. Tarek Sadek, <i>ESCWA</i> - Mr. Jordi Selfa, <i>CETMO</i>
17:20-17:30	<p>VIII Conference closure</p> <ul style="list-style-type: none"> - Mr. Clément Beaune, <i>Minister of Transport (recorded video)</i> - Mr. Renaud Muselier, <i>president of the Provence-Alpes-Côte d'Azur Region, Delegate President of Régions de France (recorded video)</i> - Ms. Teodora Popescu, <i>Vice-chair of the Group of Experts</i>