Activities of the Group of Experts on Assessment of Climate Change Impacts and Adaptation for Inland Transport (2020-2025)

WP.5, 36th session 4-6 September 2023

Lukasz Wyrowski, secretariat





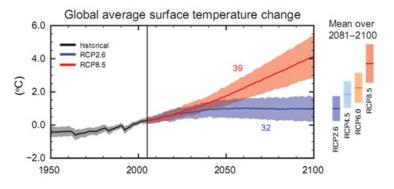
Group of Experts on Assessment of Climate Change Impacts and Adaptation for Inland Transport (2020-2025)

Focus:

- Future climate change impact analysis
- Framework for stress test to climate change hazard
- Guide for adaptation pathways
- Analysis of losses due to climate change for transport
- Guide for transport network criticality assessment (initial stage)
- Awareness-raising and knowledge sharing

Future climate change impact analysis





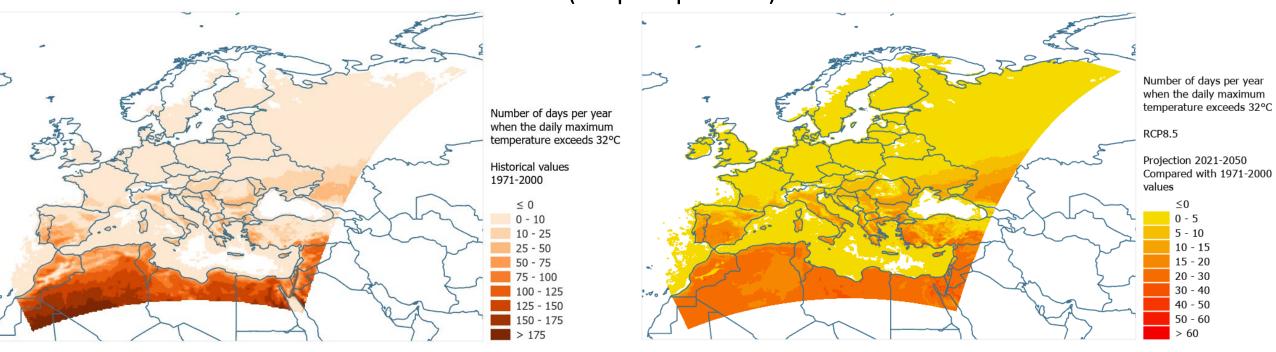
In focus:

- High temperatures
- Heavy precipitation

In consideration:

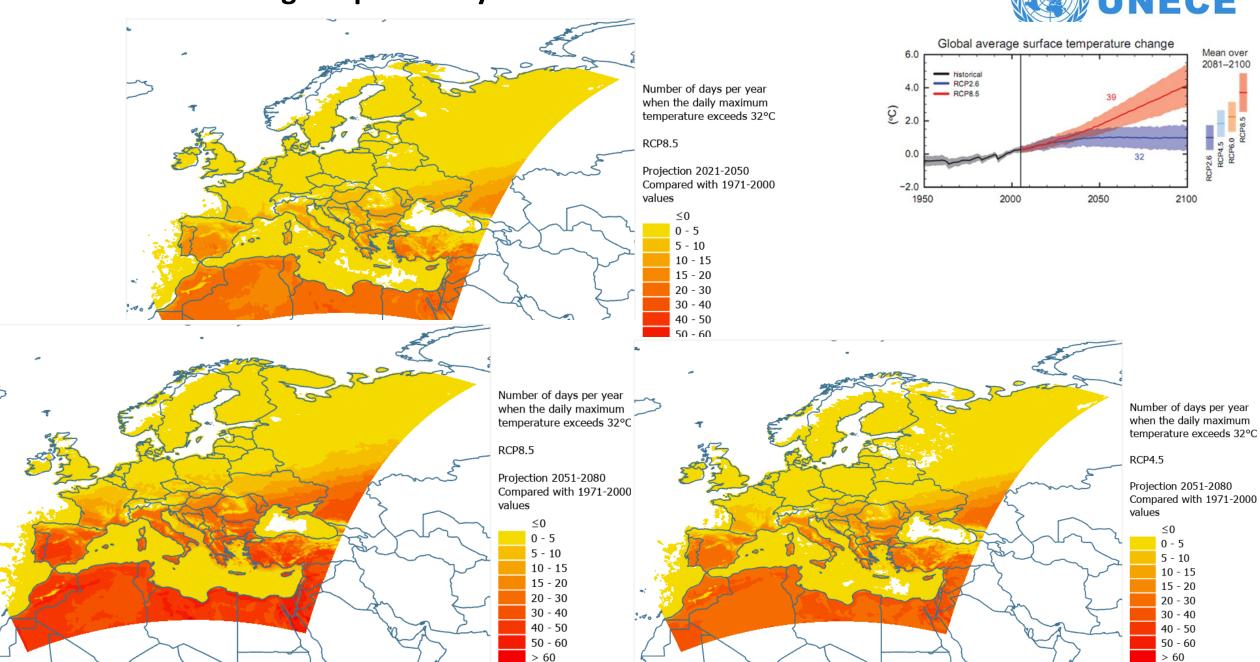
- Windstorms

Analysis is done looking at weather phenomena thresholds such as 25, 32 and 43°C (for temperatures) and 50, 100 and 150mm (for precipitation) to relate it to infrastructure relevant



Future climate change impact analysis



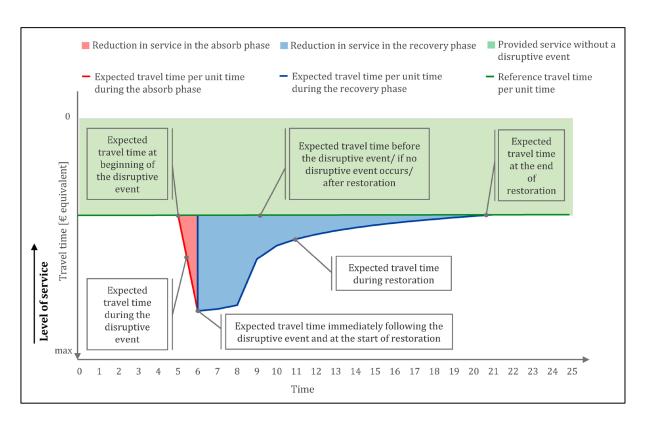


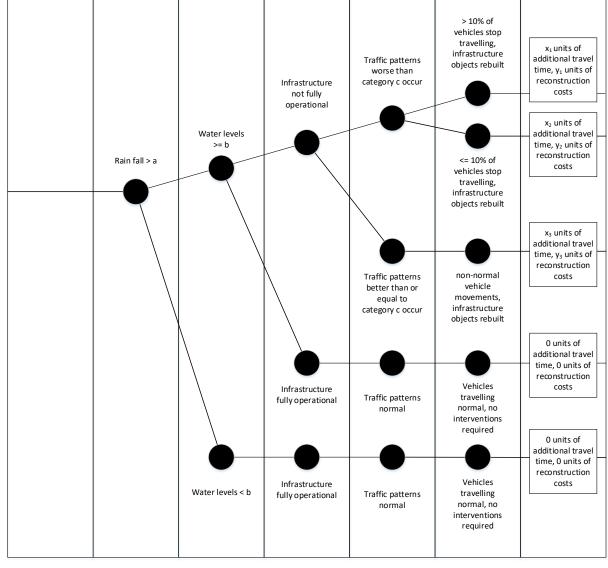
Framework for stress test to climate change hazard



Societal event

Consequences





Infrastructure event

Network use event

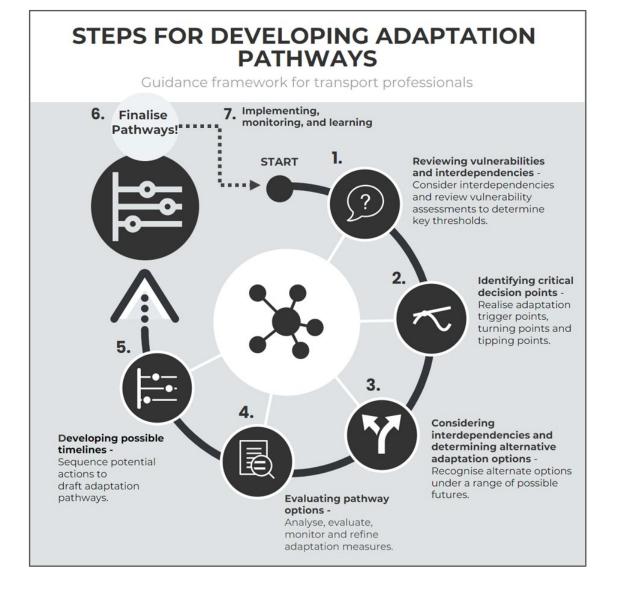
Initial system state

Source event

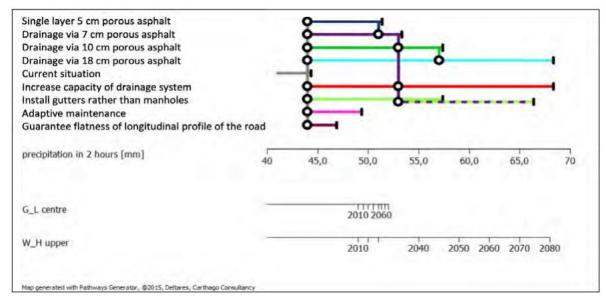
Hazard event

Source: Adey, B.T., et al., (2021), CEN/CLC/WS 018 "Guidelines for the assessment of the resilience of transport infrastructure to potentially disruptive events"

Guide for adaptation pathways

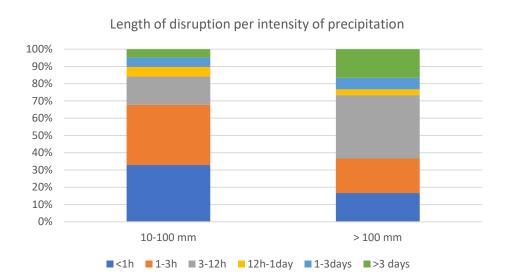


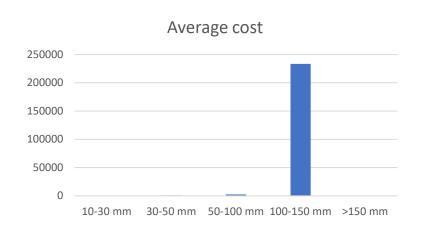


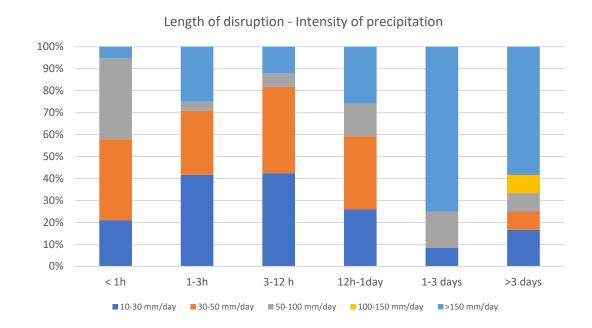


Analysis of losses due to climate change for transport









Awareness-raising / knowledge sharing



- France, UNECE, UNESCWA and CETMO conference on climate change and climate adaptation for the Mediterranean region



Source: UNESCWA

Thank you

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