Joint UNECE-UNCTAD Workshop:

# Climate Change Impacts on International Transport Networks

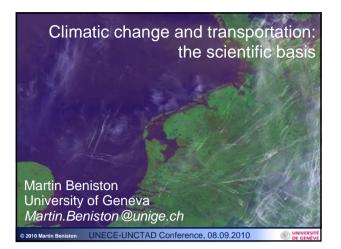
08 September 2010, Geneva

## Climate Change and transportation: the scientific basis

Presentation by

Mr. Martin Beniston University of Geneva

This expert paper is reproduced by the UNCTAD secretariat in the form and language in which it has been received. The views expressed are those of the author and do not necessarily reflect the view of the United Nations.



## Overview

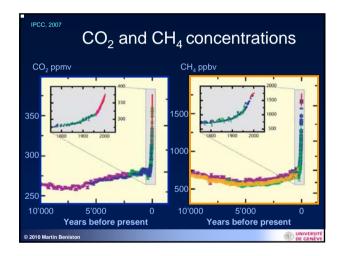
UNIVER

- Anthropogenic climate change
- Climate projections to 2100
- Impacts relevant for the transport sector
- Conclusions

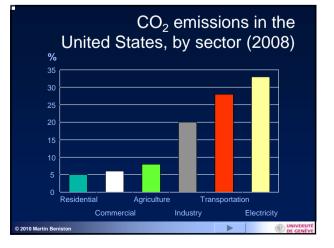
a 2010 Martin Be

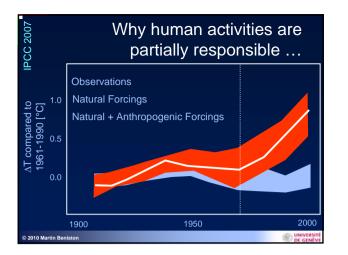
- Anthropogenic climate change
- Climate projections to 2100
- Impacts relevant for the transport sector
- Conclusions

2010 Martin Beniston

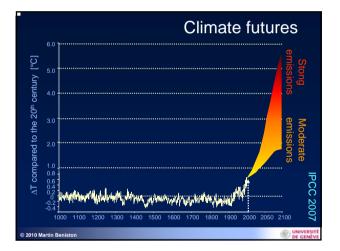


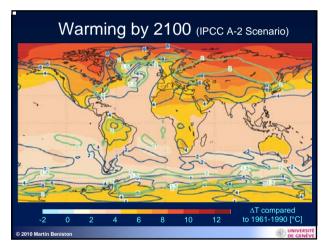


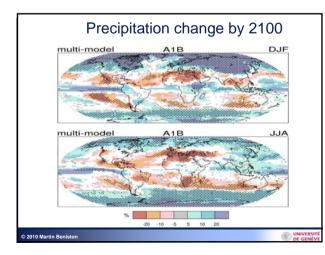


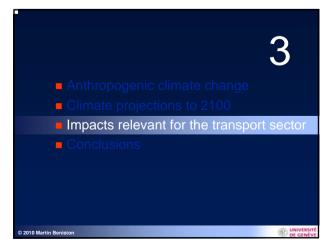


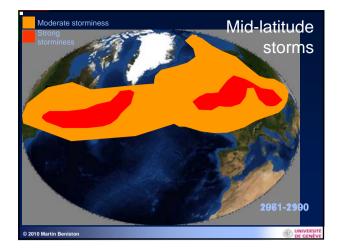








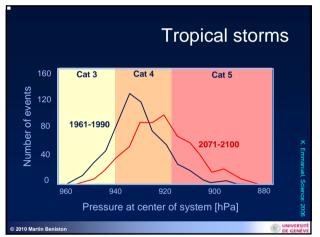




#### New coastal geography in the US Gulf States: sea-level rise and storm surges









### Outlook for the transport sector

- Transport is particularly sensitive to extremes of weather that could increase in a future, warmer,
- Positive changes can also be anticipated, such as longer periods without frost or snow that today often lead to disruptions and accidents
- The evolution of the transportation sector is highly dependent on changes in other sectors of
  - As a result, climate impacts on transportation may be less important than structural changes in transportation systems in the future

