CLIMATRANS
Assessing Policies for the Transport Sector Climate Change Adoption and Mitigation in Indian Cities

Case cities: Delhi, Mumbai, Bangalore

Main Objectives
1) Assess climate change and environmental impacts in urban areas in India related to the passenger transport sector.
2) Develop mitigation and adaptation strategies related to the transport sector in urban areas in India

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Results relevant to politics, management and civil society

- Development of transport model systems for the case cities
- Prediction of occurrences of extreme weather (rainfall and temperature) under Climate Scenario RCP 8.5 for the case cities
- Development of flooding models for the case cities
- Identification of policy packages for mitigation and adaptation based on a DELPHI study and consultations with stakeholders, including electrification of passenger transport with different energy mix
- Predictions of CO2 emissions & emissions of other pollutants in the case cities for BAU and policy scenarios
- Conversions of PM2.5 emissions to concentrations & evaluation of mortality using WHO model
- Evaluation of policy scenarios
- Examination of barriers to implementations

Surprises (positive & negative)

- Interest in the project by partners and city and national stakeholders
- Lack of data or accessibility to data
- Cultural differences with deadlines of deliveries
Need for further research

- **Access to existing data and need for better data such as:**
  - Historical extreme events & frequency of extreme events
  - Economic costs of damages & health impacts due to extreme weather
  - More frequent ravel survey at national level and in urban areas

- **Further evaluations such as:**
  - Evacuation plans in response to extreme weather
  - Equity analyses related to socio-economic and gender

- **Study with focus on urban freight transport**

- **Study of intra urban modes of transport**