Needs for further research

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Data: Access to existing data and need for better data

- Historical data on extreme events (extreme rainfall and temperature)
- Measurement data: PM, NO2, O3 and background measurement data
- Time resolution off the data on measurement of pollutants (is very coarse), important for mitigation strategies
- Data on ammonia emission (important component of PM2.5)
- Environment: Emissions (all sectors) at national level and at urban areas
- Measurements of concentration of all local pollutants in urban areas
- Health impacts due to extreme weather, in particular due to high temperature
- Land use data: Work locations and settlement patterns by socio-economic categories
- Income distributions in urban areas
- Travel survey: At national level and in urban areas
- Car ownership data, car fleet
- Traffic counts: All modes at network level
- Transport related injuries and fatalities

Modelling efforts

- Climate and environment:

  Modelling for the calculations of concentration of pollutants at city levels

  Flooding

  Evacuation plans

- Health impacts:

- Transport model systems:

  Improvements in the developed model systems based on better data

- Unit values for evaluation

  Values of travel time savings by mode

  Economic (monetary) values of mortalities due to exposure to pollutants and extreme heath

  Economic (monetary) values of fatalities and injuries related to traffic accidents

Further need for evaluation

- Equity analyses
  - Environmental justice
  - Socio-economic
  - Related to gender
  - Accessability
- Livabilty
- Economic impacts

Further suggestions are welcome

Thank you