Barriers to the implementation of climate mitigation and adaptation policies: A case study of Delhi, Mumbai and Bangalore

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Outline

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- Data and methods
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- Recommendations
Categories of barriers

1. Coordination issues, legal and institutional barriers
   - National regulations
   - Legislative- and administrative processes
   - Administrative costs
   - Lack of legal powers
   - Unclear roles and responsibilities among key actors

2. Financial barriers
   - Restrictions in terms of budget and finance

3. Political and cultural barriers
   - Acceptability problems
   - Resistance from pressure groups
   - Cultural attributes

4. Practical and technological barriers
   - Technological advancement
   - Information distribution
Indian institutional framework for urban transport

- **National level**
  - Ministry of Urban Development: responsibility of integrated planning of transport services

- **Regional level**
  - Urban development authorities: infrastructure and investments
  - Multiple agencies

- **Local level**
  - Urban local bodies
Data and methods

- Semi-structured interviews, stakeholders at national and the case city levels. Conducted in 2017.

- Delphi-study, conducted as a two round survey. Experts in New Delhi, Mumbai and Bangalore. Conducted 2016.

- Literature reviews
Barriers: Majority policies

Scattered advantages, scattered disadvantages

- Information Technology for Traffic Management
  - Funding
  - Technological issues
  - Fragmented institutional framework
Barriers: Entrepreneur Policies

Focused disadvantages, scattered advantages

- Electronic congestion pricing
  - Political will
  - Technical and practical barriers, e.g. lack of car register system
  - Economical barriers, e.g. potential losses for businesses in central areas

- Electric vehicles
  - Practical and financial barriers, e.g. charging infrastructure
  - Lack of clean energy
  - Lack of road capacity
Barriers: Client Policies

Scattered disadvantages and focused advantages

- Bus Rapid Transit
  - Land acquisition
  - Already limited and congested road space
- Metro Rail Transport
  - Expensive; ineffective use of funds?
  - Social acceptance of public transport over private transport
- Public private partnership
  - Formulation of contracts; level of flexibility
Barriers: Interest Group Policies

Focused disadvantages and focused advantages

- Car sharing
  - Inconvenience of sharing your car
  - Regulations
  - Incentives
Recommendations

- Combine measures into policy packages
- Integrate mitigation and adaptation policies
- Strengthen vertical and horizontal coordination
- Strengthen institutional competence
- Strengthen the local level of decision making
- Promote public private partnership
Thank you!

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