



Intercity Rail Transport & Climate Change: Issues and Options

Key Messages from Case Studies

Intercity Passenger Transport (Case: HSR)

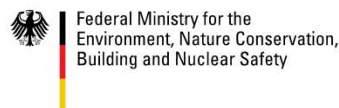
Freight Transport (Case: Dedicated Corridors)

Alternate Freight Infrastructure Choices (Case: Coal-by-Wire Option)

Adapting to Changing Climate (Case: Konkan Railways)

Subash Dhar, UNEP/DTU
Minal Pathak, CEPT University
P.R. Shukla, IIMA

Supported by:



based on a decision of the German Bundestag

Partner Organizations:



In collaboration with:



Transport and Climate Change: India's INDCs

- **Rail Transport**

- Enhancing the share of rail in total land transportation from 36 % to 45 %
- Dedicated Freight Corridors will reduce 457 million tonnes of CO₂ over a 30-year period

- **Coastal shipping and inland waterways**

- Implementation of a 1,620-km navigable channel for large commercial ships
- Establish waterway transportation grid connecting existing and proposed waterways to roads, railways, and ports.
- Improve and augment capacity in India's ports, promoting efficient transportation of goods.
- 7,000 km road network along the coast will provide further connectivity to these ports.

- **Mass transit**

- Focus on moving people and therefore investments in mass transit

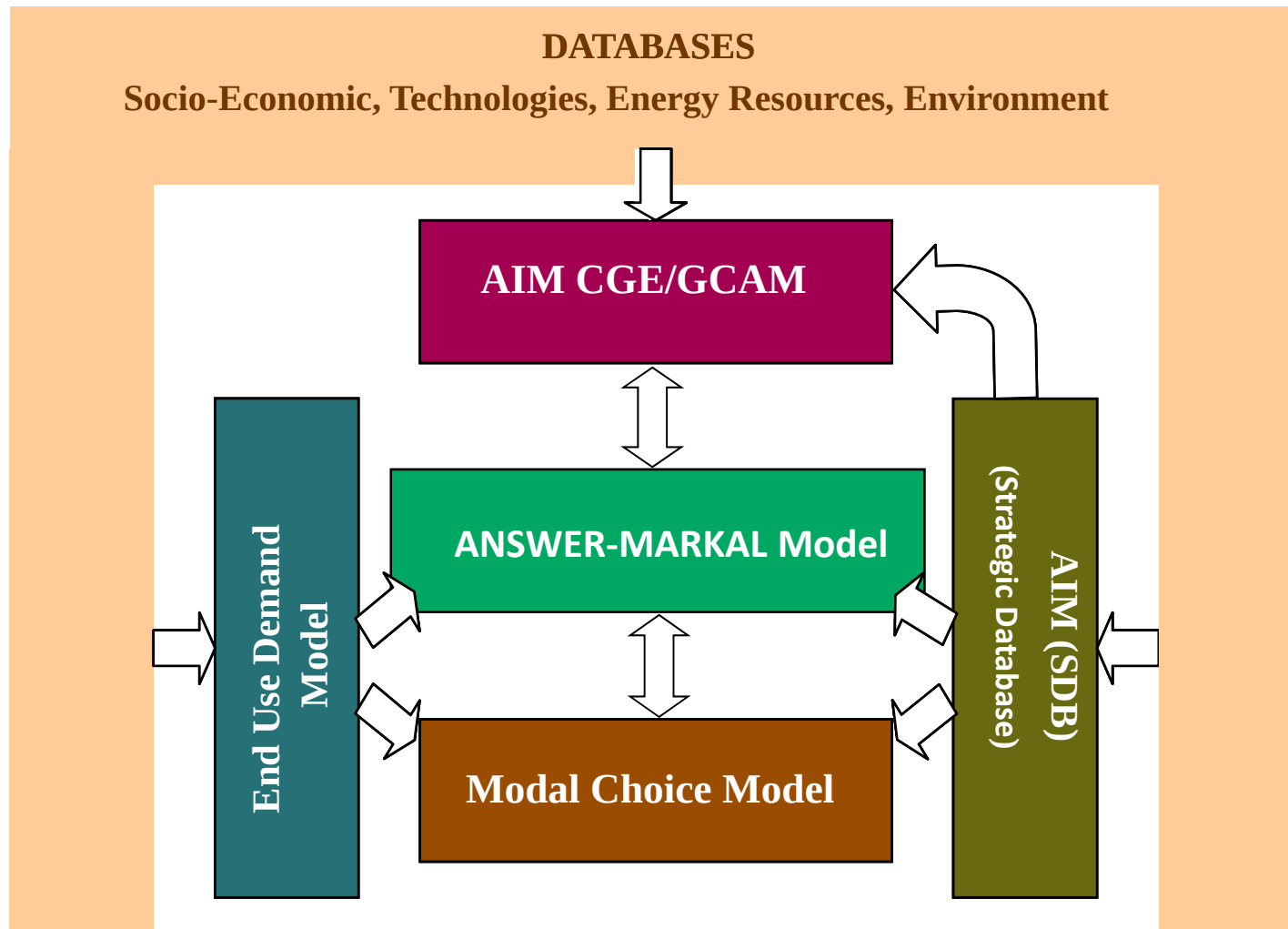
- **Vehicle efficiency**

- First passenger vehicle fuel-efficiency standards from April 2016, set efficiency targets for new cars

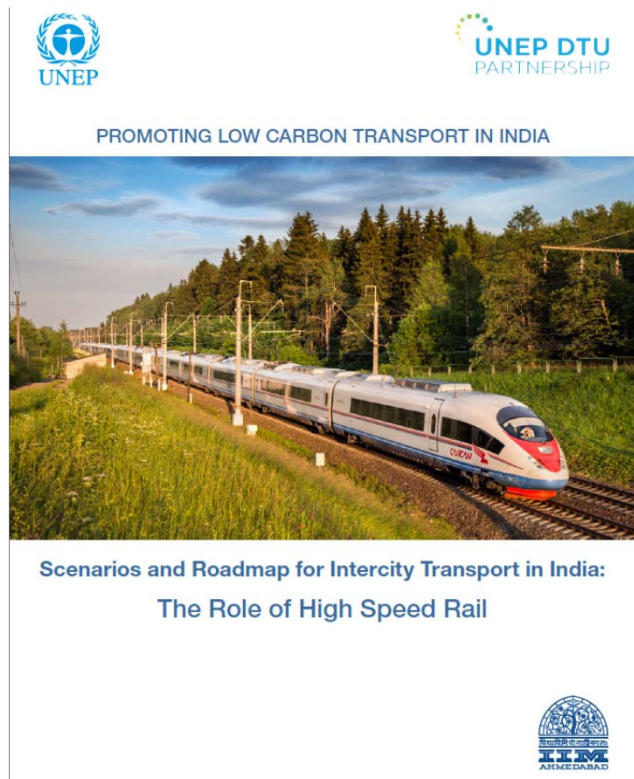
- **Alternate Fuels and Vehicles**

- Promote faster adoption & manufacturing of hybrid and electric vehicles by providing incentives.
- Promoting Biofuels

Integrated Modeling Framework

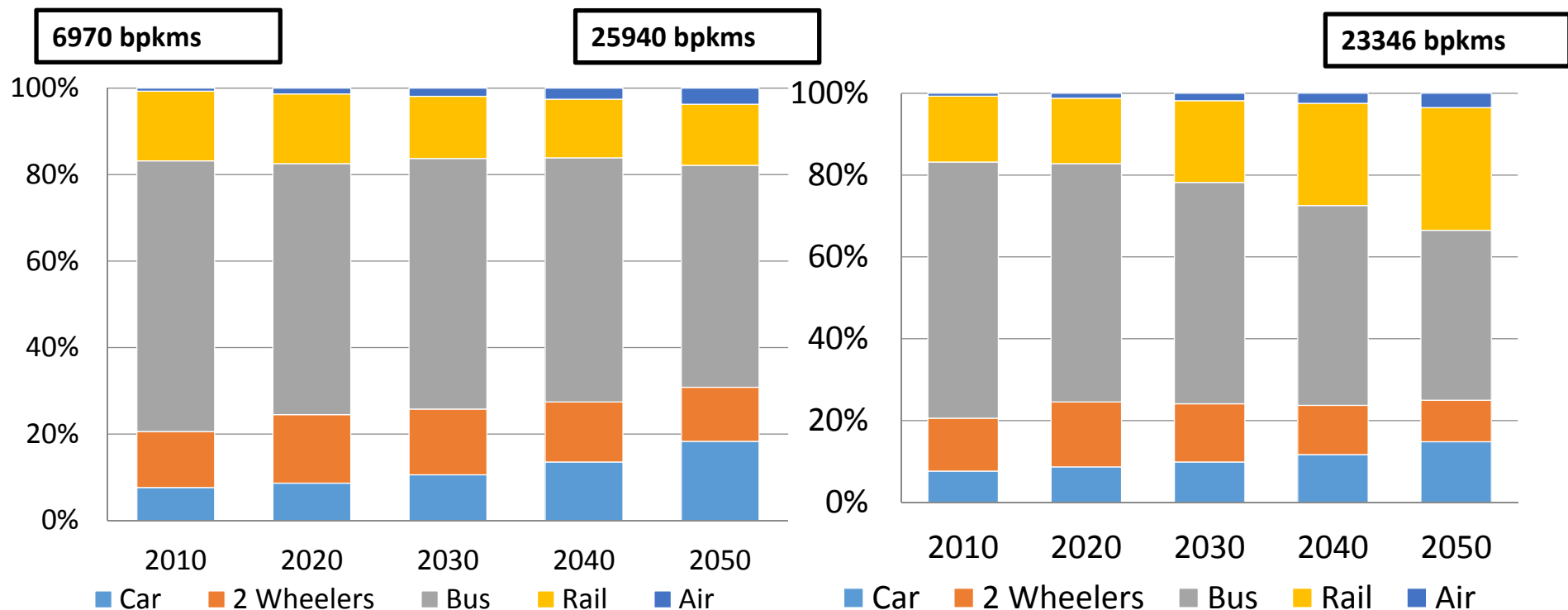


Intercity Passenger Transport (Case: HSR)



http://www.unep.org/transport/lowcarbon/PDFs/Role_of_High_Speed_Rail_Final.pdf

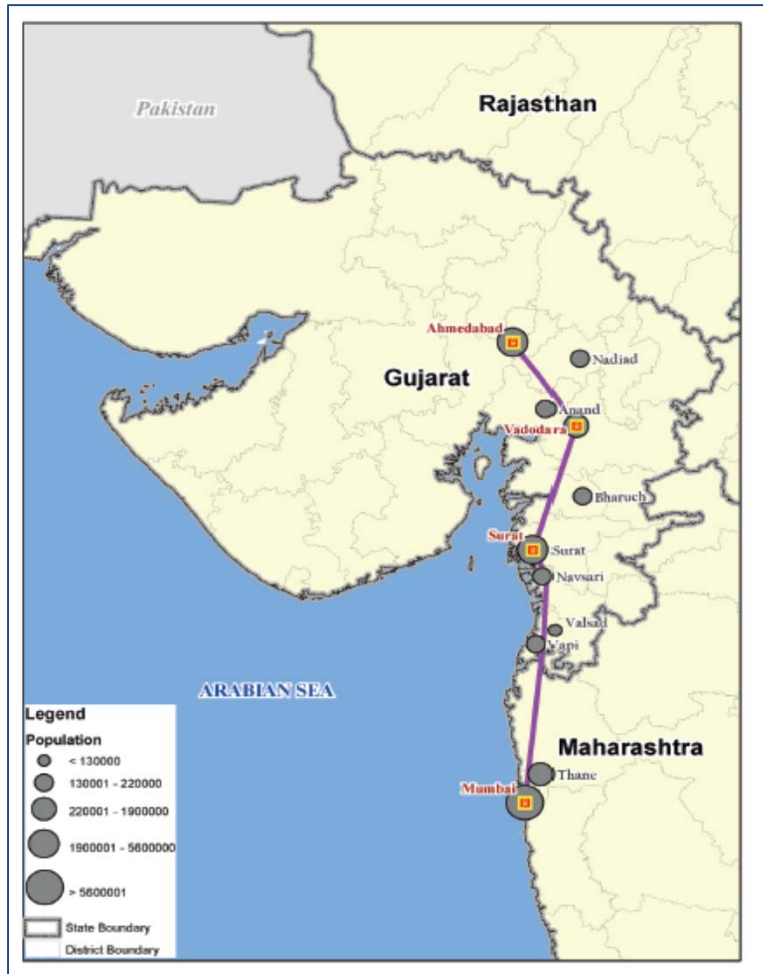
Mode Share: Intercity Transport



BAU

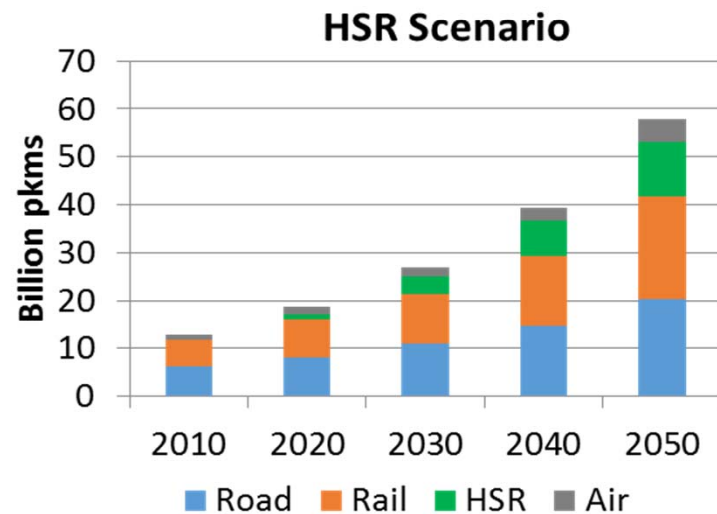
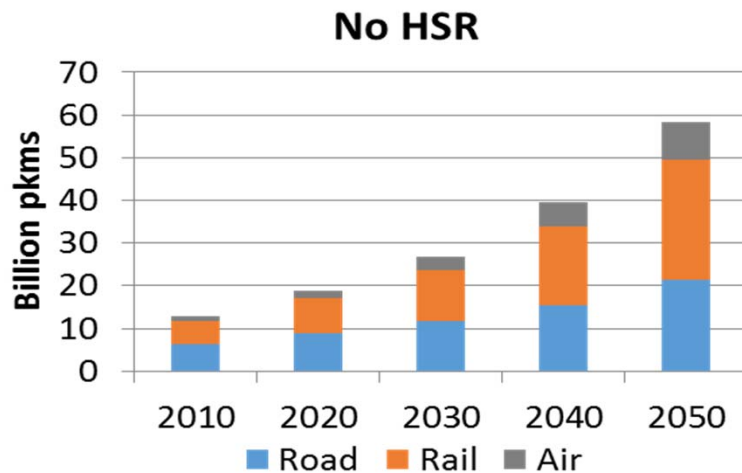
Sustainable Mobility

Ahmedabad Mumbai HSR Corridor



- HSR between Ahmedabad and Mumbai
- Will connect large and intermediate cities
- Reduce travel time
- Financing through governmental funds, multilateral funding and by alternative means of resource mobilization, incl (PPP)
- Support from JICA

Mode Share for Ahmedabad Mumbai corridor



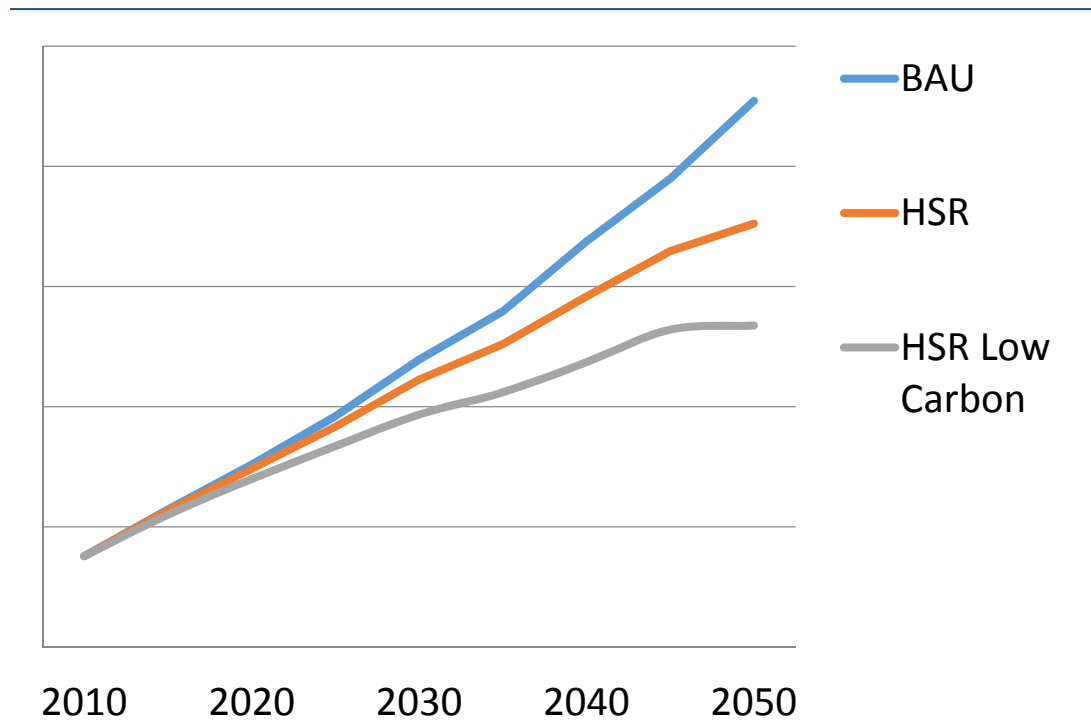
- Compete with air and increase share of rail
- Reduced Energy Demand
- Connect small and medium cities promoting a balanced regional development

https://www.yunbaogao.cn/report/index/report?reportId=5_15885

预览已结束，完整报告链接和二维码如下：



missions (Million tCO₂)



Share of railways in BAU and HSR Scenario

Scenario	2010	2020	2030	2040	2050
BAU	16.1%	16.1%	14.4%	13.6%	14.1%
HSR Scenario	16.1%	16.1%	20.0%	25.0%	30.0%