



Decarbonising Transport In Emerging Economies

Argentina | Azerbaijan | [India](#) | Morocco

28-29 March 2024, Delhi

Transport needs Assessment and city-focused work in India

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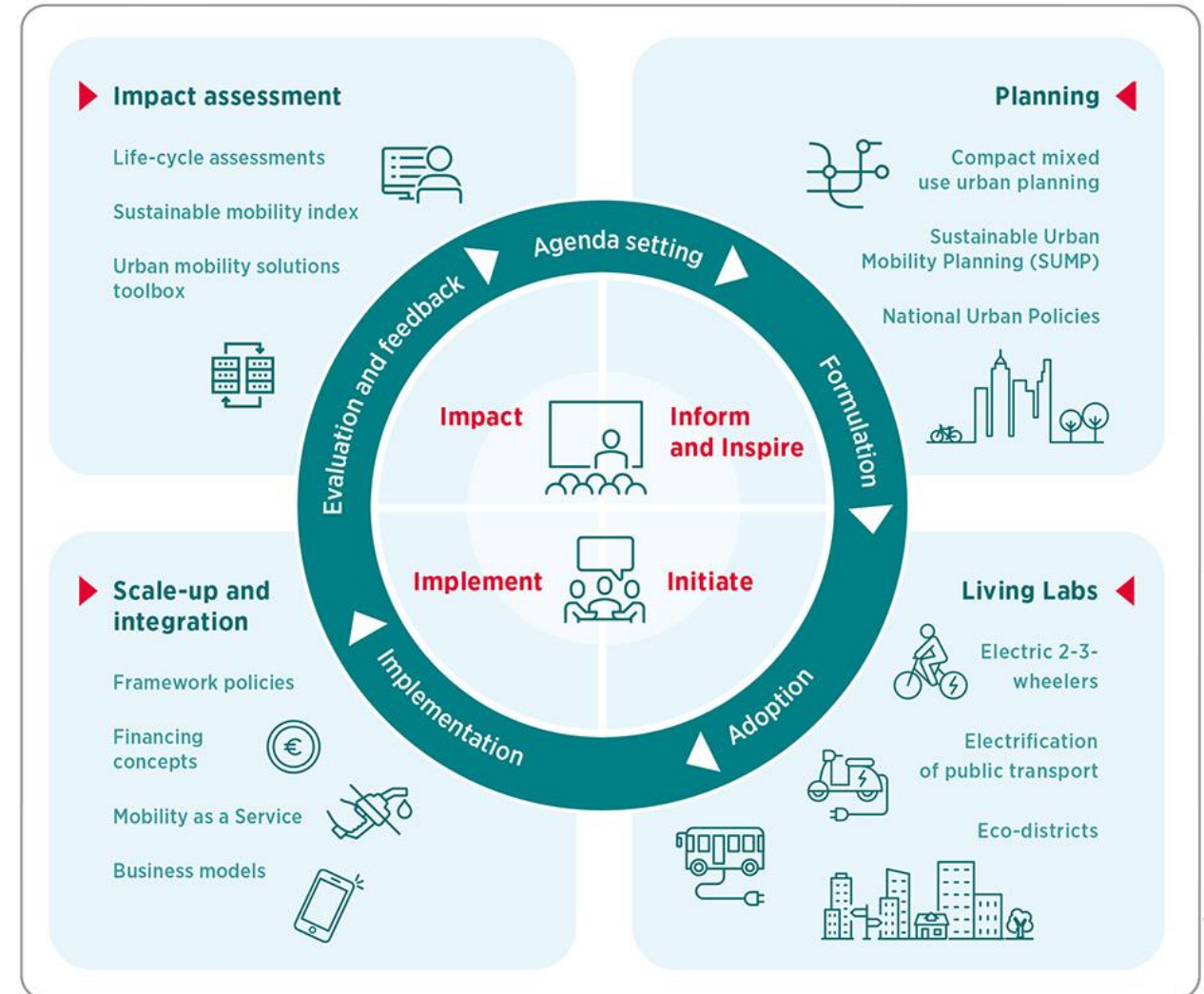
Implementing partners



Wuppertal Institute for Climate, Environment and Energy



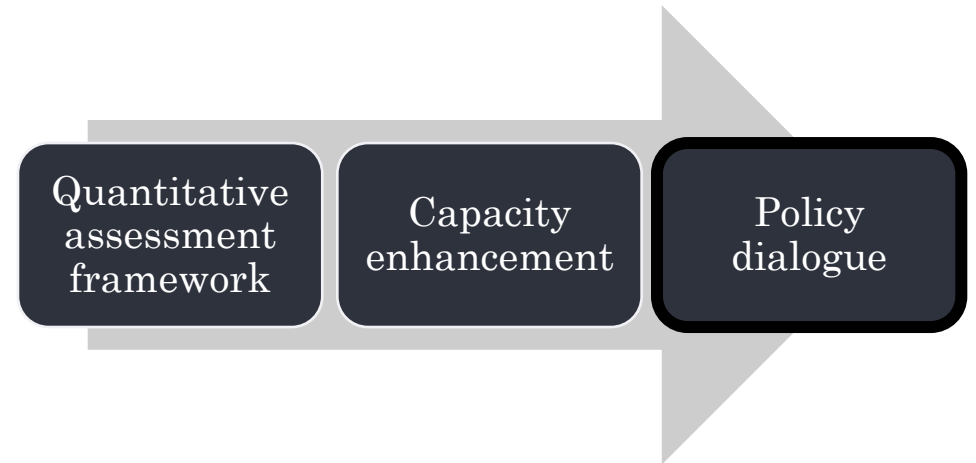
- Research Institute
- Owned by the State of North Rhine-Westphalia, Germany
- Working on Energy, Climate, Circular Economy and Mobility
- > 300 employees (>50% women)
- Offices in Wuppertal and Berlin



Project Background

- Project funding
 - International Climate Initiative (“IKI”) of the Federal Ministry for Economic Affairs and Climate Action (BMWK) in close cooperation with the German Ministry for the Environment, Nature Conservation and Nuclear Safety (BMUV)
- Project partners
 - International Transport Forum – main implementing partner
 - Wuppertal Institute, Germany – focus on work in cities
- Project countries:
 - *Azerbaijan, Argentina, India, Morocco*

Project Objective

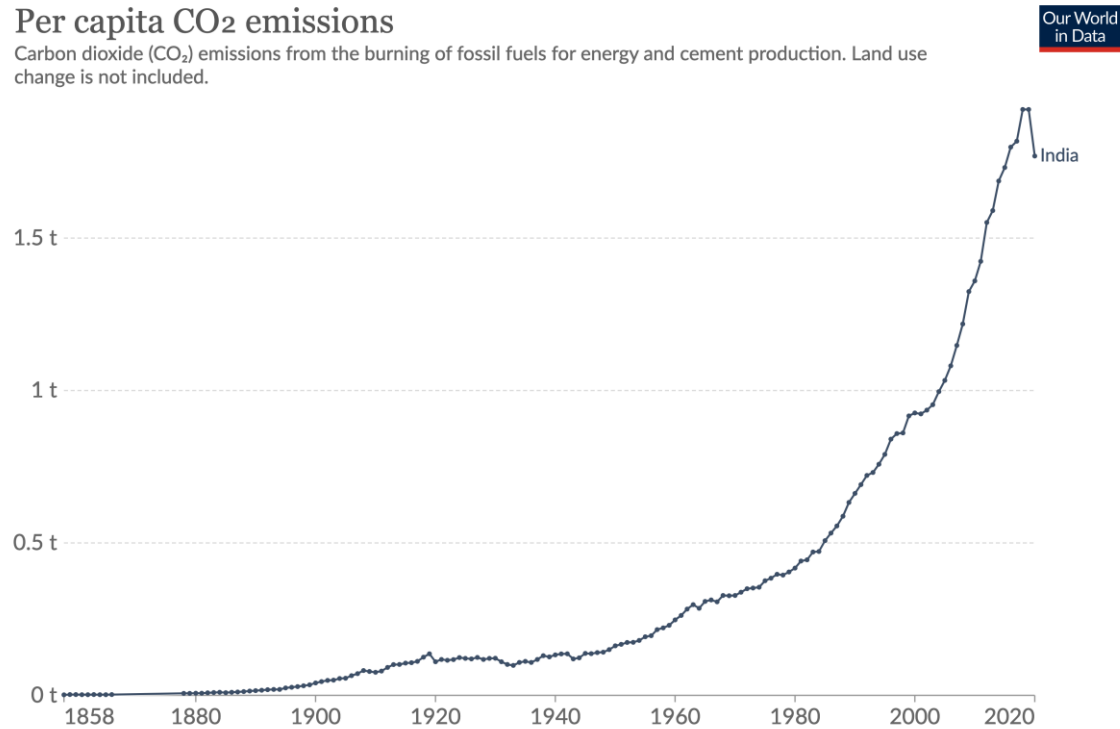


- Help countries identify effective measures and pathways to reduce transport CO₂ emissions

Decarbonising Transport in Indian cities: Why?

Per capita CO₂ emissions

Carbon dioxide (CO₂) emissions from the burning of fossil fuels for energy and cement production. Land use change is not included.



Source: Our World in Data based on the Global Carbon Project

OurWorldInData.org/co2-and-other-greenhouse-gas-emissions/ • CC BY

Per capita CO₂ emissions for India

Source: (Ritchie et al., 2020)



Morning walkers seen during a cold and hazy morning at Kartavya Path near India Gate on December 9, 2023 in New Delhi, India. Arvind Yadav/Hindustan Times/Getty Images

DTEE project in India: WI's role



- › Work with cities to identify their technical and capacity-building needs and develop appropriate capacity-building materials
 - › **Transport needs assessment (TNA)** from a local government perspective (survey, interviews, discussions with partner cities, desktop analysis using available/open data)
 - › **E-course on Low Carbon Urban Mobility**

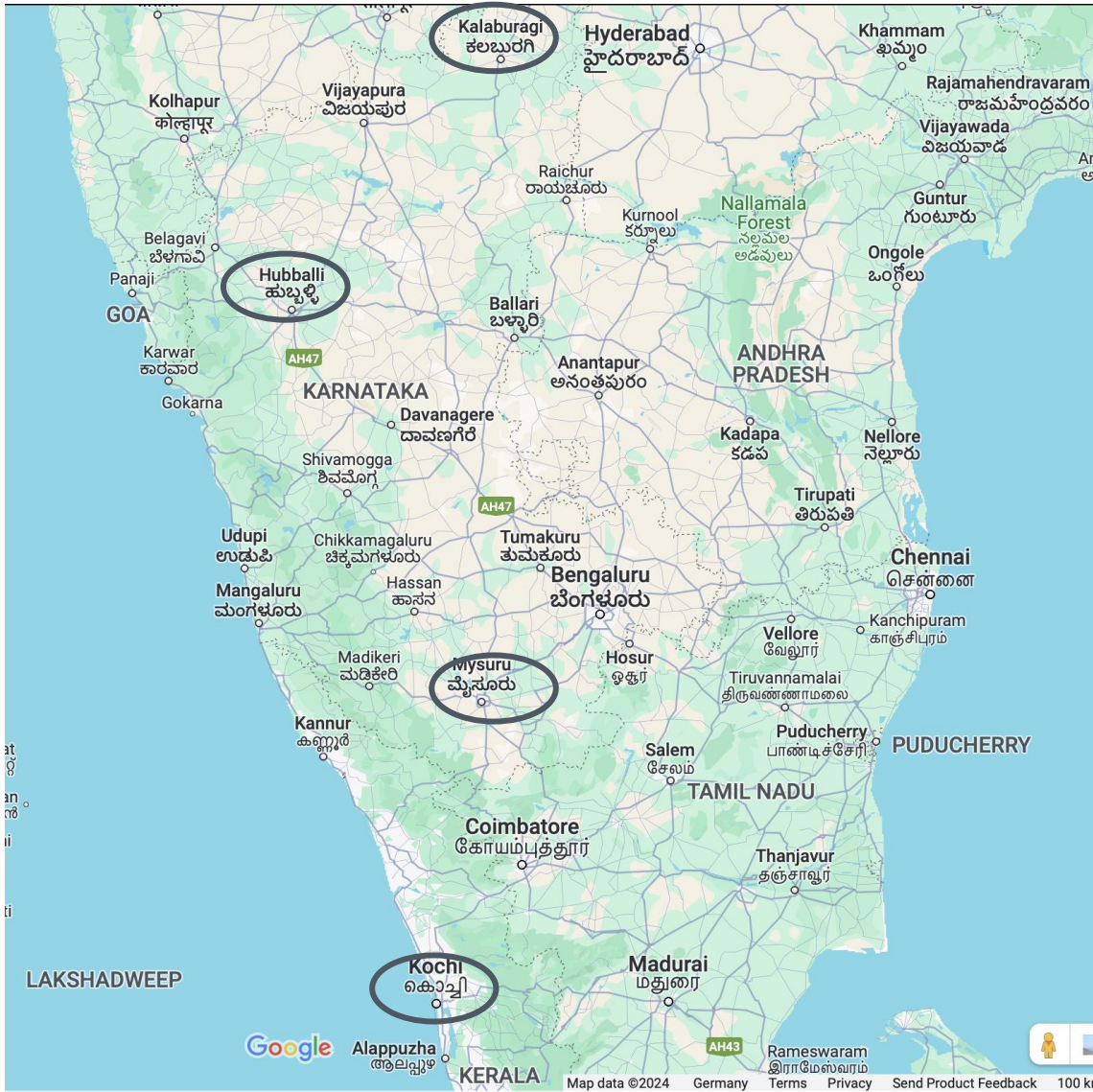


- › Facilitate policy dialogue between local & national government decision-makers to support the linkages between national and local policies and actions



- › Identify other cities and countries to share experiences

Transport Needs Assessment in Indian cities



Transport needs assessment of Indian Cities in the DTEE Project

Supported by:

- International Transport Forum
- Wuppertal Institut
- IKI
- Urban Living Lab CENTER
- Federal Ministry for Economic Affairs and Climate Action

Kodukula, S., Shrestha, S., Rony, Y, Mejia, A., Lah, O., Jain, D., & Tiwari, G. (2023). *Transport needs assessment of Indian Cities in the DTEE Project*. [Project Report - Decarbonising Transport in Emerging Economies - India]. Wuppertal Institute and International Transport Forum.

TNA in project cities: Findings



Key findings from the assessment:

- › Increase in the use of private vehicles, especially two-wheelers (70% of total trips)
 - › *Led to problems –congestion, road safety hazards, and inefficiencies in mobility*
- › Public transport systems are inadequate, lacking reliability, comfort, and coverage
 - › *discouraged ridership and made shifting away from private vehicles difficult*
- › Infrastructure for active travel modes such as walking and cycling is underdeveloped and often unsafe
 - › *Lack of use of these modes but initiated effort to reverse the trend*
- › Transport planning is siloed across sectors
 - › *Disjointed infrastructure and services that hinder seamless travel experiences*

A coordinated, multi-modal approach prioritising public transport, walking, and cycling is essential to achieve sustainable mobility goals

TNA in project cities: Recommendations

- › Key recommendations:
 - › Accelerate Electric Vehicle Adoption
 - › Utilise Technology and Data to Enhance Mobility
 - › Strengthen Capacity and Governance
 - › Discourage Private Vehicle use
 - › Prioritise and Invest in quality Public transport
 - › Promote Active Travel and Safe Infrastructure



TNA in project cities

- › A short factsheets on:
 - › Urban transport data
 - › Active Travel as a viable alternative
 - › Accessible, affordable and attractive public transport
 - › Integrated transport
 - › Land-use and Transport Integration
 - › Innovative vehicles and fuels
 - › Innovative Financing Mechanisms
 - › Using Urban Living Labs for participatory approaches



Image: ULLC

E-Course: Low carbon urban mobility



- Low carbon mobility in decarbonising transport
- Key transport modes in low carbon mobility
- Factors that need to be considered while designing for low-carbon mobility options
- Funding opportunities for implementing low-carbon mobility
- Planning and implementing electric urban mobility

Private: Decarbonising Transport in Emerging Economies (India)

The course is designed to introduce participants to low-carbon urban mobility. The concept focuses on decarbonising urban mobility and promoting environmentally friendly travel with minimal impact on the climate while generating positive effects on society and the local economy. Comprised of ten videos, it covers essential topics such as planning, designing, financing, implementing, and assessing low-carbon urban mobility modes.

Teacher: Yash Umral Roy | Co-ordinator: Shweta Dwivedi | 1 student enrolled

DECARBONISING TRANSPORT IN EMERGING ECONOMIES
Argentina | Azerbaijan | India | Morocco

Course overview
The course is designed to introduce participants to low-carbon urban mobility. The concept focuses on decarbonising urban mobility and promoting environmentally friendly travel with minimal impact on the

INCLUDES

- 14 lectures
- Online lessons
- Certificate of participation upon successful completion

1 Introduction Text lesson

2 A global overview: The sustainability challenge Text lesson

3 Urban design and transport for low carbon cities Text lesson

4 Planning for active mobility - Walking Text lesson

5 Planning for active mobility - Cycling Text lesson

6 Modelling demand for active mobility - Part 1 Text lesson

7 Modelling demand for active mobility - Part 2 Text lesson

8 Understanding demand for active mobility - Part 1 Text lesson

9 Understanding demand for active mobility - Part 2 Text lesson

10 Planning for public transport Text lesson

11 Sustainable electric mobility Text lesson

12 Mobility as a service Text lesson

13 E-mobility in SUMP Text lesson

Regional exchanges



DULT colleagues in Baku, Azerbaijan (2021)



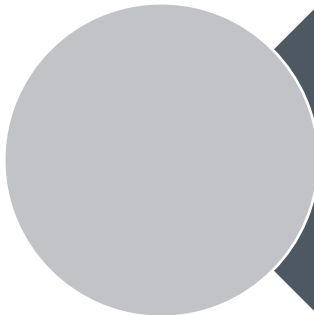
Next Speakers



Ms Sylvia Prakash

Directorate of Urban Land Transport, Gov. of Karnataka

“Building Active and Healthy Cities”



Ms Simmi Sashi

Centre for Heritage, Environment and Development

“Low carbon mobility actions in Kochi ”



Dr Rahul Goel

Indian Institute of Technology Delhi

“Road safety is the key to low-carbon and active mobility transition in India”