PARATRANSIT TRANSPORT

Transforming Transportation 2024

SESSION TWO: Case Studies in Improving and Decarbonizing Popular Transportation

> Paratransit / Popular Transportation Day at Transforming Transportation 2024

> > Thursday, March 21, 2024

SESSION TWO | Paratransit / Popular Transportation Day: Case Studies in Improving and Decarbonizing Popular Transportation

Informal and Shared Mobility (ISM) in India: Linking Research and Policy Actions

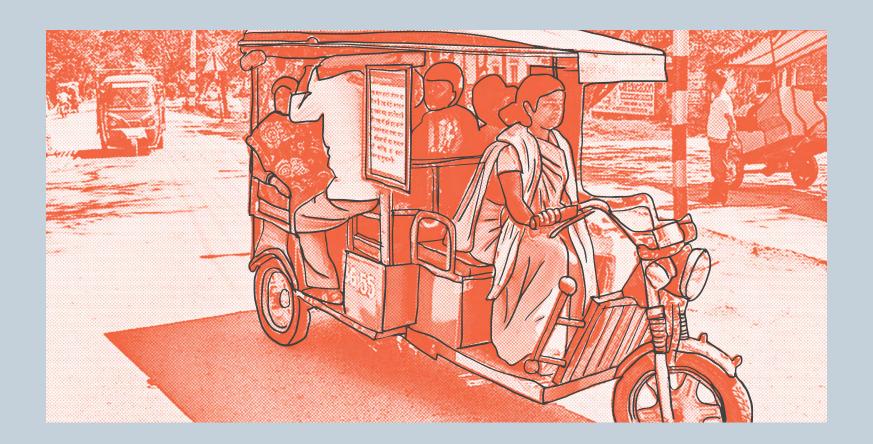
Dr. Rutul Joshi, Sr.

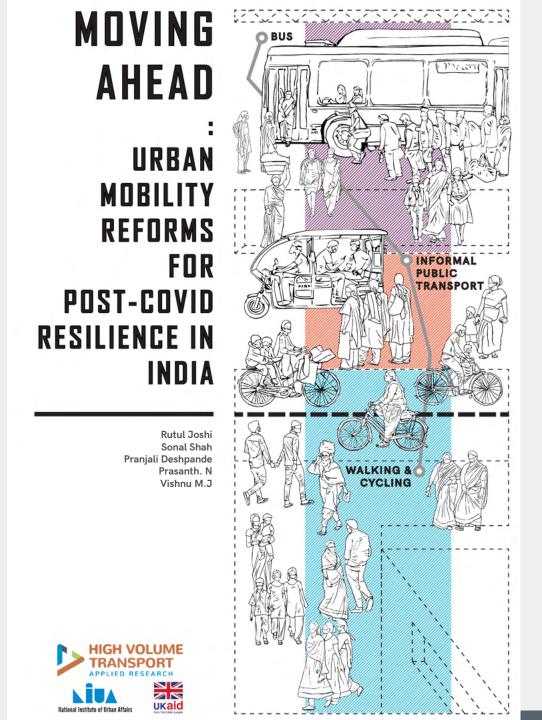
Associate Professor, CEPT University

Thursday, March 21, 2024 | World Bank Headquarters, Washington D.C.

Informal and Shared Mobility in India: Linking Research and Policy Actions

Rutul Joshi, PhD CEPT University March 2024 rutul.joshi@cept.ac.in







Informal and Shared Mobility: Status and Opportunities in India

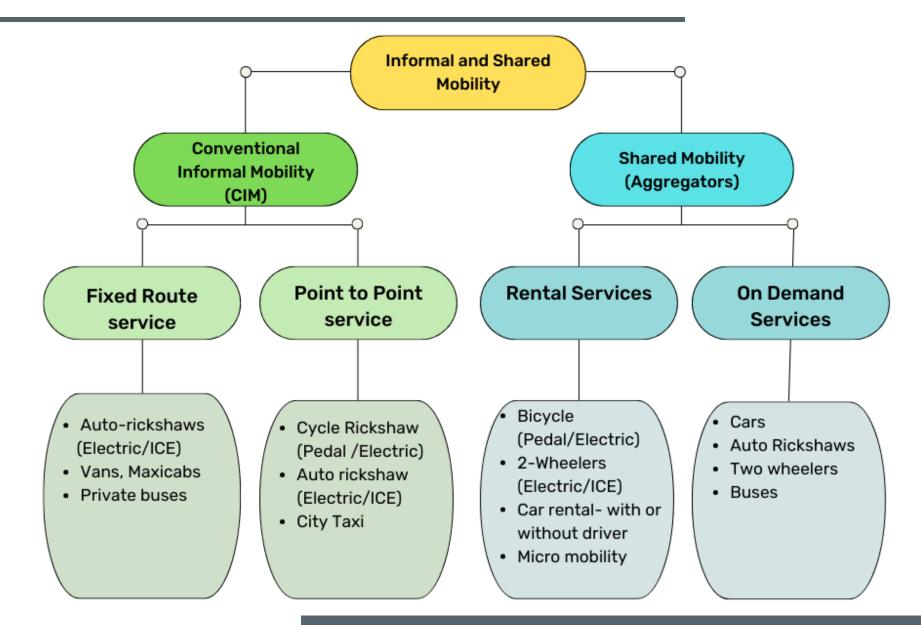
Rutul Joshi, Pranjali Deshpande, Subhasish Borah, Manisha Sharma







Informal and Shared Mobility



Informal and Shared Mobility (ISM) is an umbrella term

encompassing a diverse range of mobility options characterized by

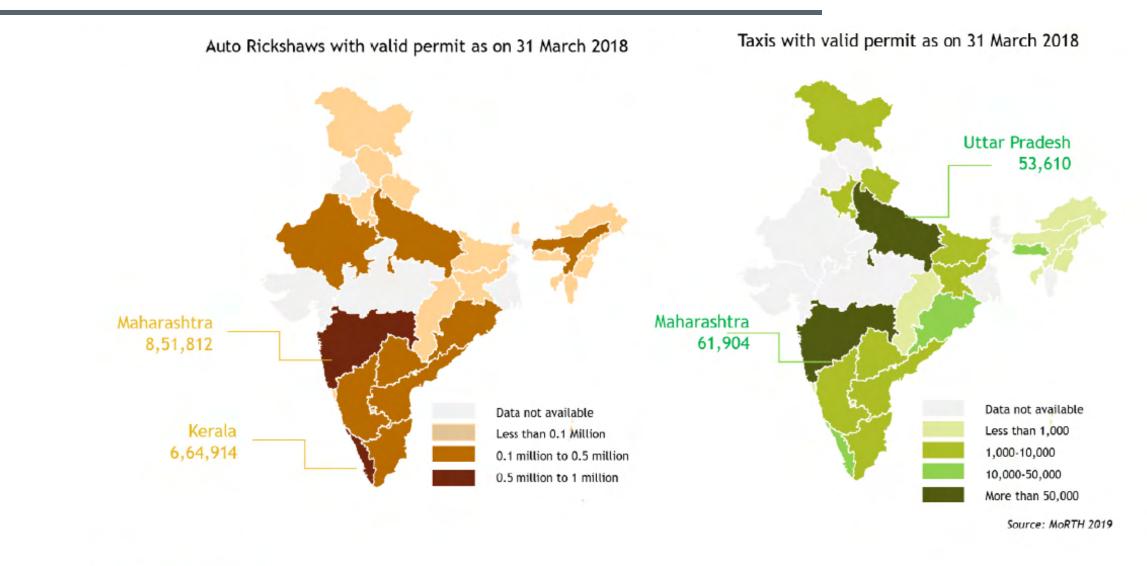
informal and semi-formal regulatory nature and

the sharing of vehicles or services among multiple commuters in

urban and peri-urban areas in India.

Not just the gap-fillers but primary mode in many cases...

ISM with contract carriage permits



Source: MoRTH, 2021

Informal and Shared Mobility in India

- As 'service providers'
- As 'nuisance'
- As 'partners'

 Regulatory dilemma – how to ensure better service, safety, and efficiency without exploitation, abuse or disruptions?

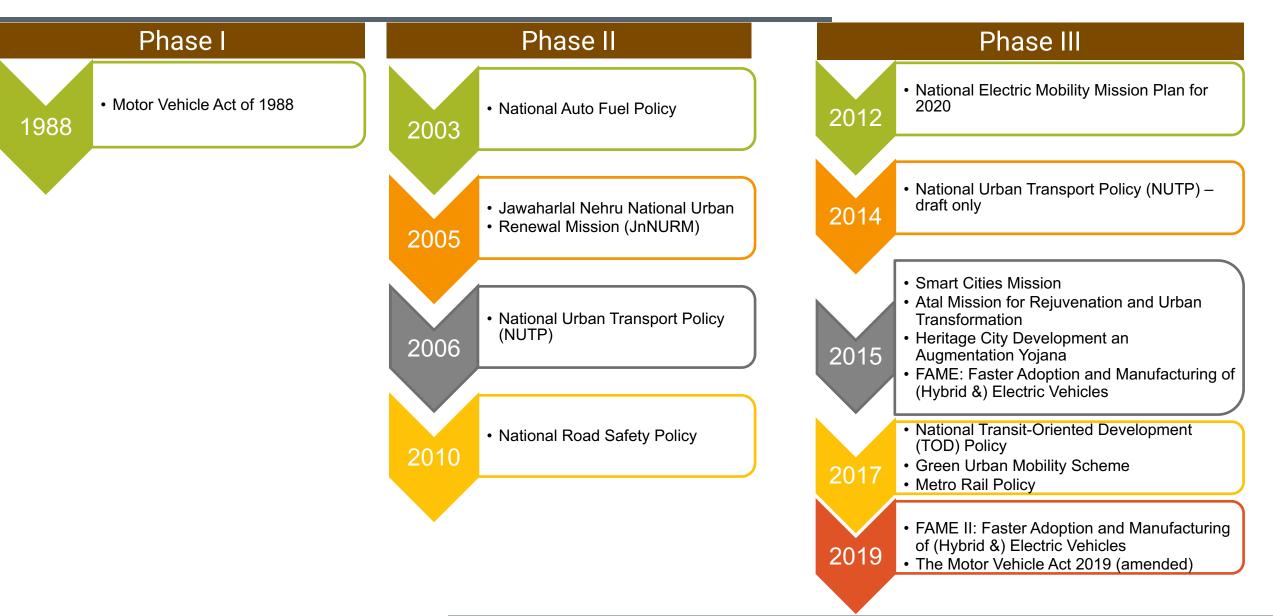
Aggregators: Market share

Aggregator Started In		Services	Geographical Coverage – Cities (2022)	Market Share (2022)	
All modes ava	ilable				
Ola	2010	Cabs (shared & rental), auto-rickshaw, two-wheeler taxi	75 (Tier 1 & 2)	41%	
Uber	2013	Cabs (shared & rental), auto-rickshaw, two-wheeler taxi	100 (Tier 1 & 2)	37%	
Cabs - Shared	d & Rental				
Meru	2006	Cabs (shared & rental)	24 (Tier 1 & 2)	22%	
BluSmart	2019	Cabs(shared & rental)	10 (Tier 1 & 2)	-	
Quick Ride		Cabs (shared & rental), carpooling	9 (Tier 1)	-	
Lyft	2021	Cabs & bike taxi	West Bengal	-	
Bike, taxi and	auto-rickshaw			-	
Rapido	2015	Auto-rickshaw, two-wheeler taxi	Bike taxi: 100 Auto: 26	-	
Jugnoo	2014	Cabs(shared)& auto-rickshaw	30	-	

Predominant Aggregators in Indian Cities

Source: Market share data from Anupam (2023); geographical coverage data from the websites of respective aggregators for 2022.

Policy overview in India



City level policy actions

ACTIONS		TIME - PERIOD						
		0-6 m	6 m- 1 yr	1-3 yrs	>3 yrs			
Set up a 'Mobility Department' at the city level								
1	State Government directs cities to work on IPTreforms	///						
2	ULB sets up a 'Transport Committee'	///						
3	Transport committee sets up a 'Mobility department'	///						
Acknowledge the role of IPT								
1	Bring statutory reforms: Mobility department facilitates the formation of IPT co-operative society							
2	Identify other aligned objectives: Mobility department identifies long term objectives							
Generate Political Will for investing in IPT								
1	Mobility department makes a case to support IPT reforms							
Conduct Social Impact assessment								
1	Prepare gender equity and social inclusion plan							
2	Prepare a Communications and Outreach plan							
Prepare IPT modernisation plan								
1	Create a Detailed Project Report (DPR) on the Transition							
Implementation of the DPR								
1	DPR implementation							

Gaps in existing research

- Limited Data and research
- Comprehensive data fleet, operations, routes, frequency
- Understanding of user behavior
- Attention to social equity and gender
- Attention to technological innovations
- Focus on sustainability life-cycle analysis, social impact analysis

Gaps in policy

- Regulation and formalization
- Investment and support
- Inclusive planning and decision-making
- Skill development and training
- Social security and livelihoods
- Attention to innovation potential
- Connecting to local contexts
- Monitoring and evaluation
- Inadequate charging infrastructure for e-informal modes
- Customization and adaptation incentives

Opportunities

- Digital aggregators Shared mobility services are an opportunity to improve informal services.
- Electric mobility upscaling and improving the informal transport services.



PARATRANSIT / POPULAR TRANSPORTATION DAY 2024

co-presented and organized by the Africa Transport Program (SSATP) **Center for Sustainable Urban Development at Columbia's Climate School (CSUD) UNFCCC Climate Champions (CCT) Digital Transportation for Africa (DT4A) Global Network for Popular Transportation (GNPT)** International Transport Forum (ITF) International Transport Workers Federation (ITWF) **Shared-Use Mobility Center (SUMC) Volvo Educational and Research Foundations (VREF)** the World Bank (WB) and WRI Ross Center for Sustainable Cities (WRI)