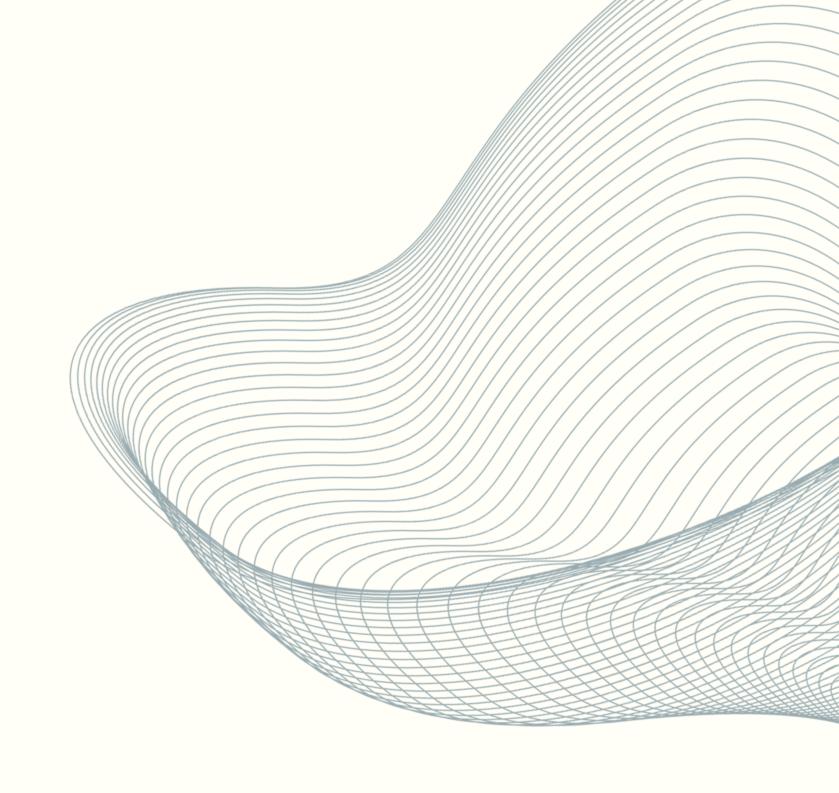


Global EV Transition

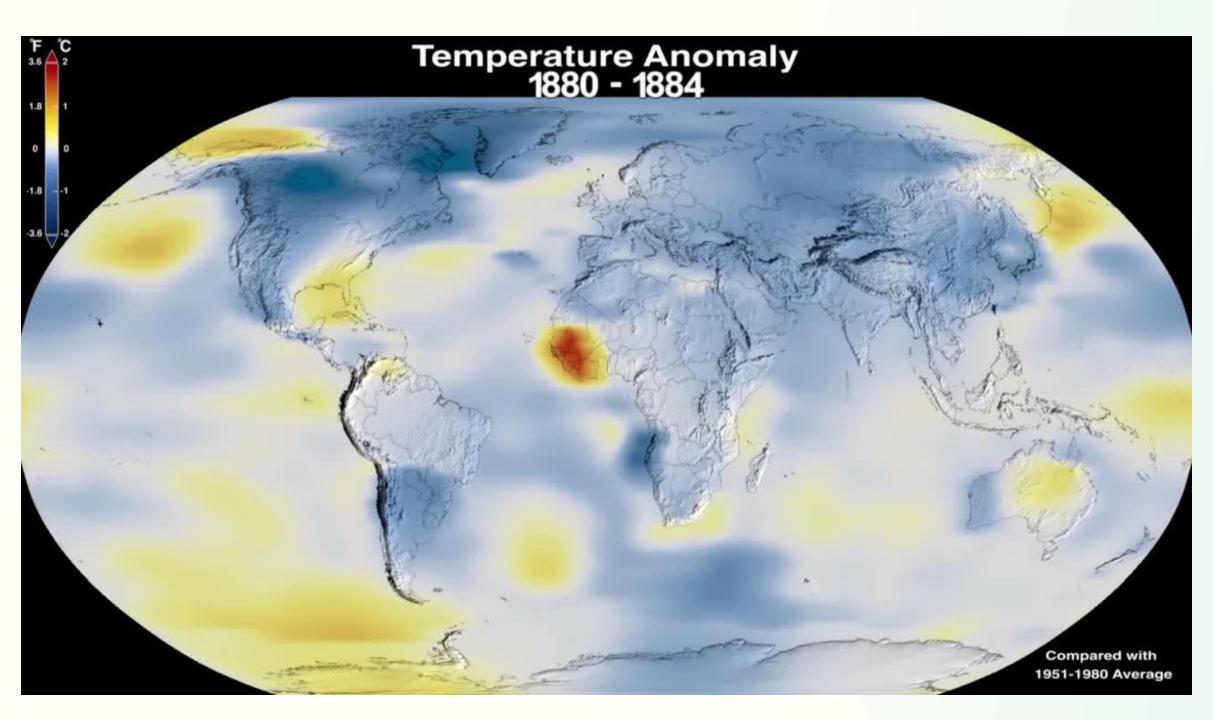
Mini-Mobility: An Emerging Segment



Nilesh Bajaj

A Reality Check

Climate Change



While Earth's climate has changed throughout its history, the current warming is happening at a rate not seen in the past 10,000 years.

From global temperature rise to melting ice sheets, the evidence of a warming planet abounds.

Time To Act

Before it's too late





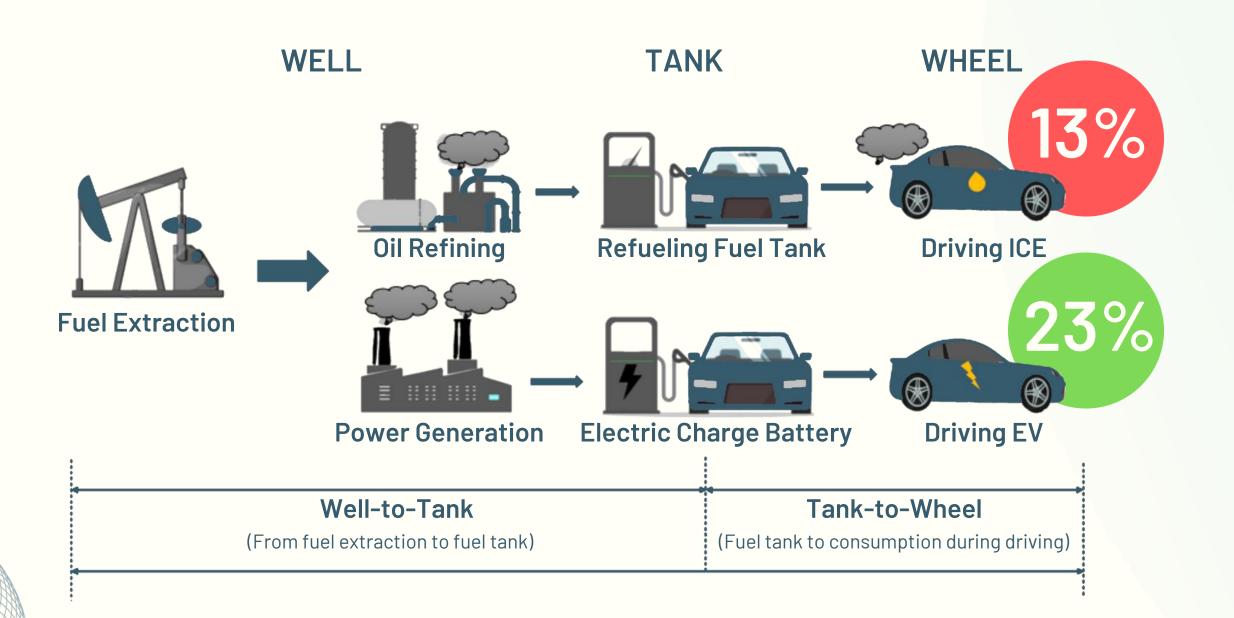


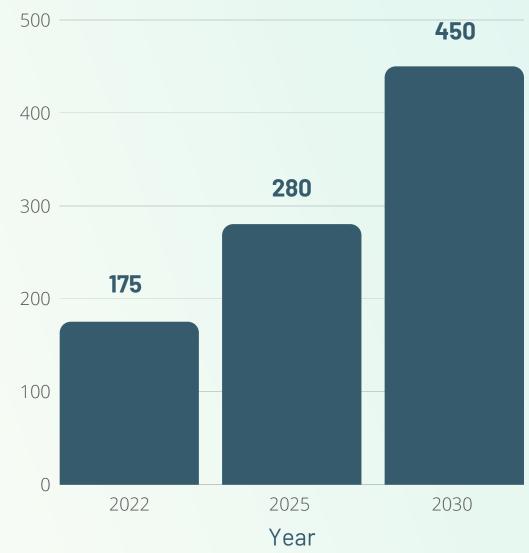




Well to Wheels

Internal Combustion Engines vs Electric Vehicles





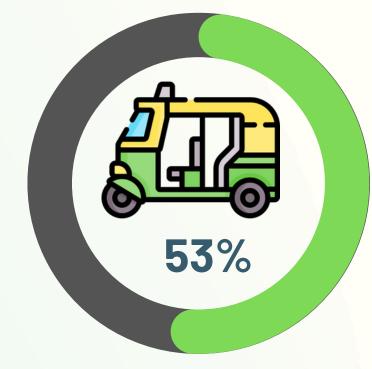
India Renewable Energy Targets 2030 (GW)

EV Adoption In India

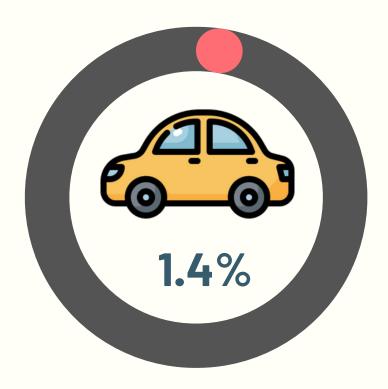
Sales Trends (FY 2022)



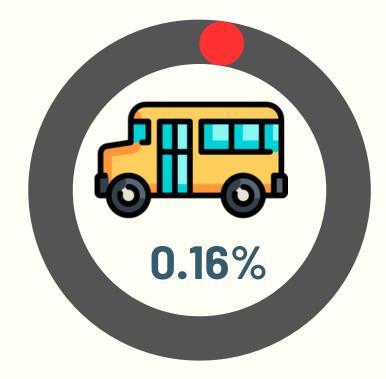
7,79,000 Two Wheelers



4,07,000
Three Wheelers



53,843Passenger Vehicles



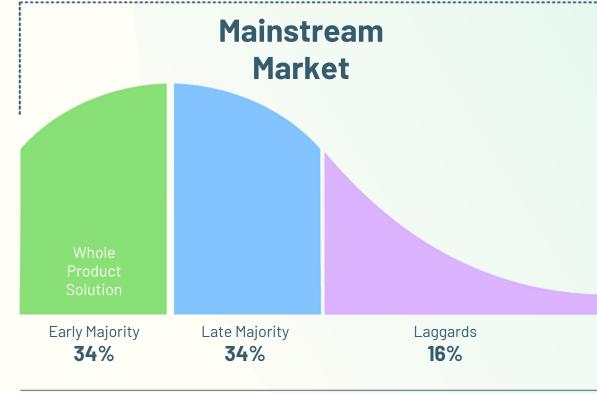
1,904
Commercial Vehicles (Bus)

Enabling EV Adoption

Crossing the Chasm







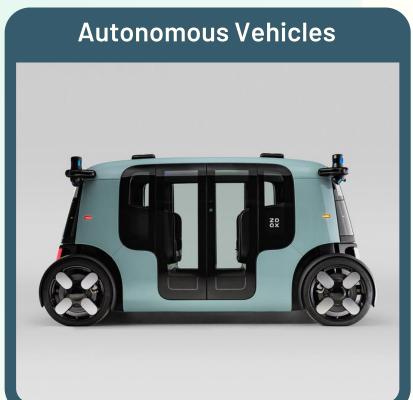
People Who Want Complete Solutions and Convenience

Reliability of battery Well technology Established charging infra Availability of financing Service network development Reduction in battery prices

Passenger Mobility

Top Four Upcoming Trends









• M....

Promises

The global

Alternative

Minimobility

What is Minimobility?







100-500 KGS



25-90 KMPH





















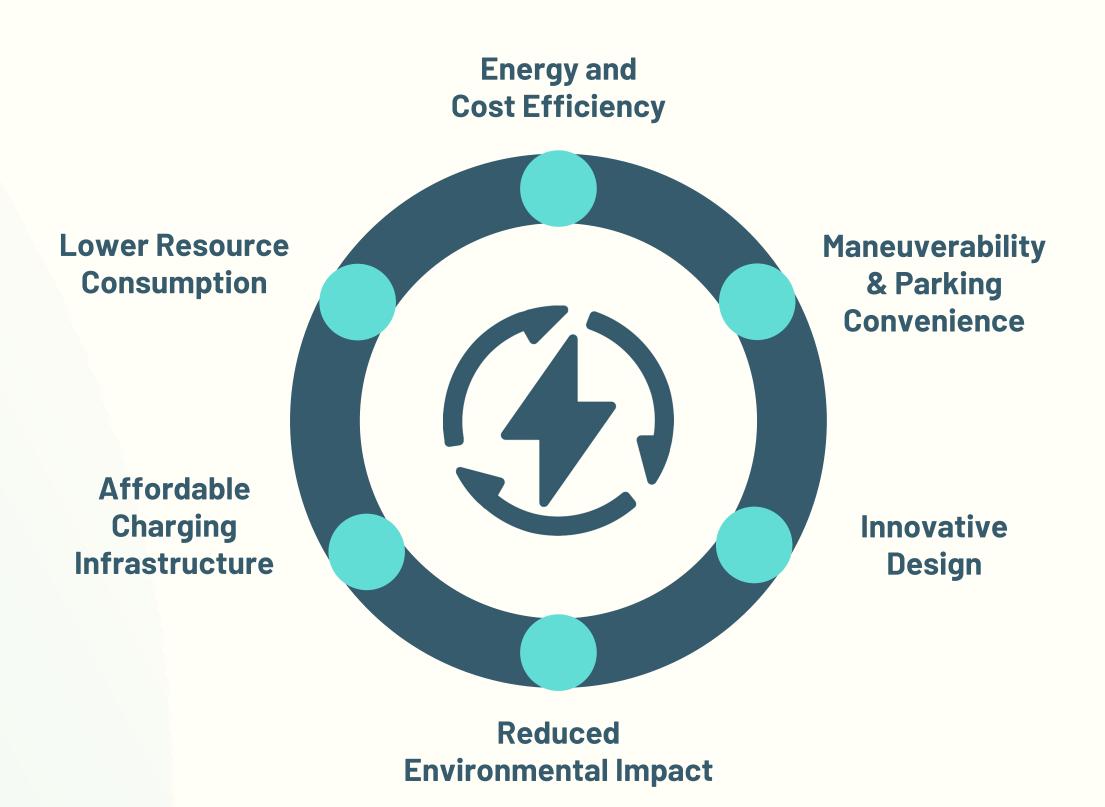








Minimobility Advantages



Smart EVs

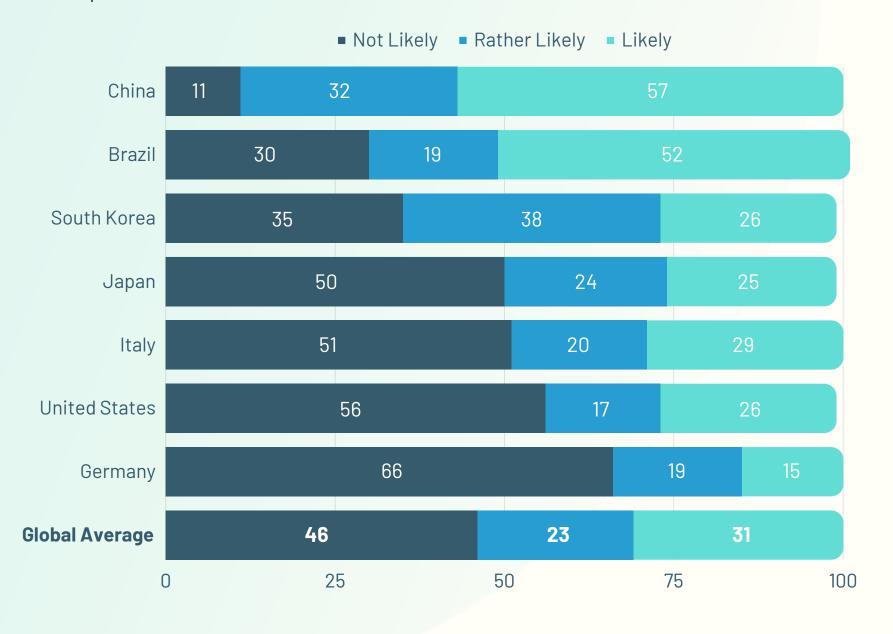
Worldwide



Comparative Analysis

Region Wise

Consideration of minimobility usage and implied private-vehicle replacement, % of respondents:



More than 30 percent of surveyed global consumers would use a minimobility vehicle in their future mobility mix.

Question: How likely are you to consider using a minimobility vehicle as part of your future mobility mix?

Commitments by OEMs

Target for 100% Electric Vehicles (All Types) Worldwide



















Impact Of EVs



- GHG emissions avoided annual 1-2 ton CO2e/vehicle
- Air pollution zero tailpipe emissions
- Petrol / diesel / CNG fuel use



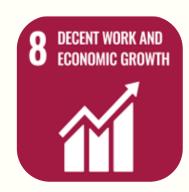
- Urban air & noise pollution
- Ride comfort
- Health outcomes/lower costs



- Energy use 20 km/kWh
- Materials per car 550 kg curb weight
- Lithium used per vehicle 50% of current smallest Indian electric car









India's Challenges

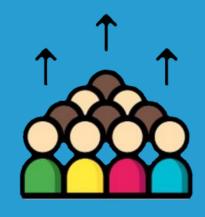
Transport sector's contribution to GHG emission

23%



World's most polluted cities in India

14 out of 20



Oil import bill for India in 2022

USD 158bn



The cost of serious health impacts from air pollution

5.4% GDP



Traffic Index Ranking

Average Travel Time per 10 KM





India Body Type Development From 2015 to 2023

Drastic shift from Hatchback to SUV models, rendering these primary vehicles all the more unsuitable for daily urban use.

India's Urban Mobility

A Nielson Survey



of Indian car owners either travel alone or with one passenger.

of commuters carry only a laptop bag on their daily commute.

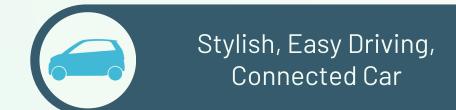


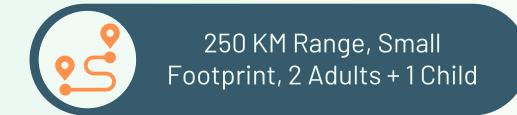
90%

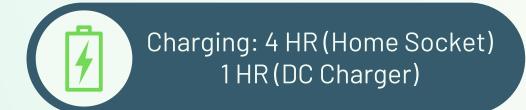
of respondents feel that a compact smart car can reduce their travel time and parking hassle.

Introducing EVA

Redefining City Commute











Thank You

