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Mobility Revolution in India? – Inclusive, Sustainable and Transformational

**Guenter Butschek, CEO & MD, Tata Motors** 



### Indian economy is well placed to become one of the largest automotive hubs







**Auto Industry** 



Competition

7.4%GDP Growth rate ~
Fastest growing economy in the world
IMF report) 18 FY)
Rising per capitaincome

of GDP 7.1% Auto contributing
of manufacturing GDP 49%
million people employed29
people1000 Cars/21 Huge latent demand with

Price sensitivemarket Level playing field with global players Disruption by new market entrants

## **Growth story well supported by Government Initiatives**











Make InIndia

**FAME Incentives** 

**SMART Cities** 

**Automotive Mission** 

Foster Innovation
Facilitate Investment
Enhance Skill Development
Build Best in Class Manufacturing
FDI100%

Faster Adoption & Manufacturing of Electric Vehicles in India

Subsidies, tax heavens for promoting EVs

Comprehensive development of institutional, physical, social and economic cities 100 infrastructure of

years5 growth in next 10-15%

2026By
rd largest inworld3
million passenger vehicles 9.4
billion in annual revenue300 US\$
million additional jobs 65

### However, there are some fundamental challenges







Road Accidents minutes4 fatality every 1

(?)Reinforcement by law

(!)Behavioral & Discipline issue

Traffic congestion (Km/hr20average speed)



Environment

Auto contribution to 15% Pollution ~

most polluted 15 out of 14 cities globally are in India 94 level > 2.5 (PM (micrograms/cubic m



Regulatory Framework

L 2Higher cess on Diesel engine > , 2020transition coming in 6 BS to catch up with RoW



Infrastructure

nd largest road network, but 2 low quality

# To be solved by leapfrogging & leveraging the CESS ecosystem



















Connected Vehicle Platform, advanced electronics, comfort & convenience Lead in EVs,
- alternative fuels
Invest in tech & powertrain

Ride sharing, freight aggregation, BRTS

Solve India's problems at root, adapting global NCAP measures











### Evoking a strong focus on IST approach to Mobility









#### nclusive

### All ecosystem partners' alignment to • enjoy best value (Govt., OEMs, Suppliers, ( Customers, drivers, community Joint platform for policy making •

- Implementation enabled by Govt/PPP •

#### Sustainable

- Better fuel economy, light weighting
  - Improving efficiencies in value chain
    - Alternate fuels, xEV solutions •

#### **Transformational**

- Diffusion of advanced technologies
  - Crashing timelines •
  - Use of Digital, Big Data •
- New business models, revenue pools •

### We are actively looking for partnerships to lead the mobility future



