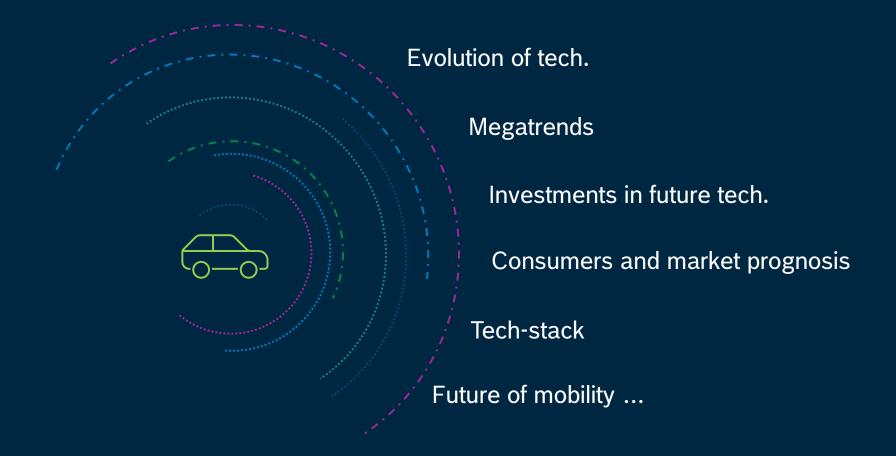


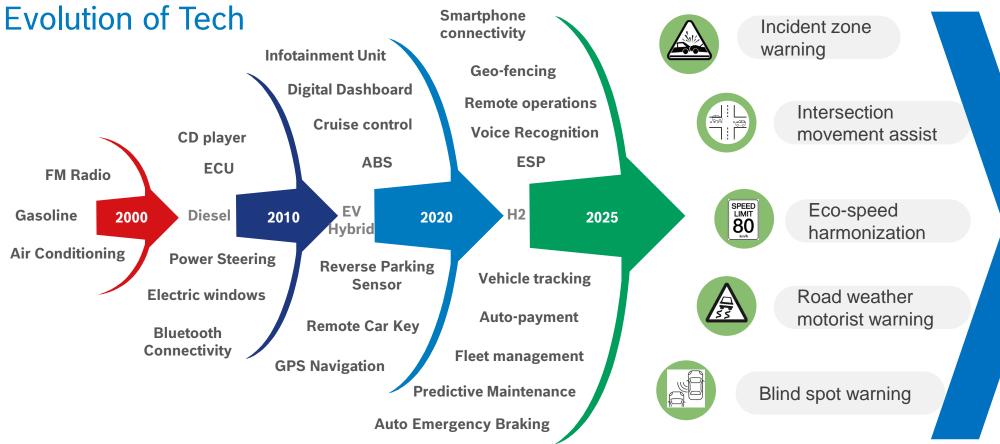
Motilal Oswal 20th Annual Global Investor Conference, 2024 – Future of Mobility

Safe Harbor Statement

At the outset, we would like to reinforce our Safe Harbor statement. In today's interactions and presentation, there may be some predictive statements that reflect our current views about Bosch Limited's future performance, but these are subject to risks and uncertainties







Moving towards cleaner and sustainable option

ECU : Electronic Control Unit ABS : Anti-Lock Braking System ESP : Electronic Stability Program EV : Electric Vehicle



Megatrends: "Disruptions & boundary conditions that are shaping the Indian Economy"

Renewables





Urbanization

Digitalization









~50% RE by 2030, Policy support

Doubling per capita income by 2030

~50% GenZ & Millennial's by 2030

2x rise in urban population by 2030

Digital economy will contribute to 20% by 2030



On ground technology changes: Major Investments across India focusing on new age technologies of strategic importance for the future

~USD 70 bn

Renewable Energy

•	Reliance	9.0 Bn\$
•	TATA Power	8.4 Bn \$
•	Torrent Power	5.7 Bn\$
•	ACME solar	4.3 Bn\$
•	GSECL	2.4 Bn\$
• 4	Jio bp	2.1 Bn\$
· /	JSW Energy	1.5 Bn\$

~USD 58 bn

Green Hydrogen

	•	NTPC	8.4 Bn\$
	•	Tata Power	8.5 Bn\$
١	•	Renew Fuel Energy	8.0 Bn\$
ì	•	Welspun	4.8 Bn\$
i	• /	JSW Energy	3.0 Bn\$
ı	•	Welspun	3.6 Bn\$
į		Inox Air Products	1.8 Bn\$
	•	Leap Green Energy	1.5 Bn\$
ı	•	L&T Energy	1.2 Bn\$

~USD 24 bn

Electrification

8		LIECU	IIICauc
r	•	Tata	5.1 Bn\$
Ì	•/	JSW & MG	4.8 Bn\$
ì	•	Hyundai	2.5 Bn\$
ı	•	Vin fast	2.0 Bn\$
ı	•	Gogoro	1.5 Bn\$
٩	•	Mahindra	1.4 Bn\$
1	1	Suzuki	1.4 Bn\$
1	•	Nexzu	1.0 Bn\$
	•	OLA	0.8 Bn\$
	•	Hyundai	0.7 Bn\$
	•	Stellantis	0.4 Bn\$

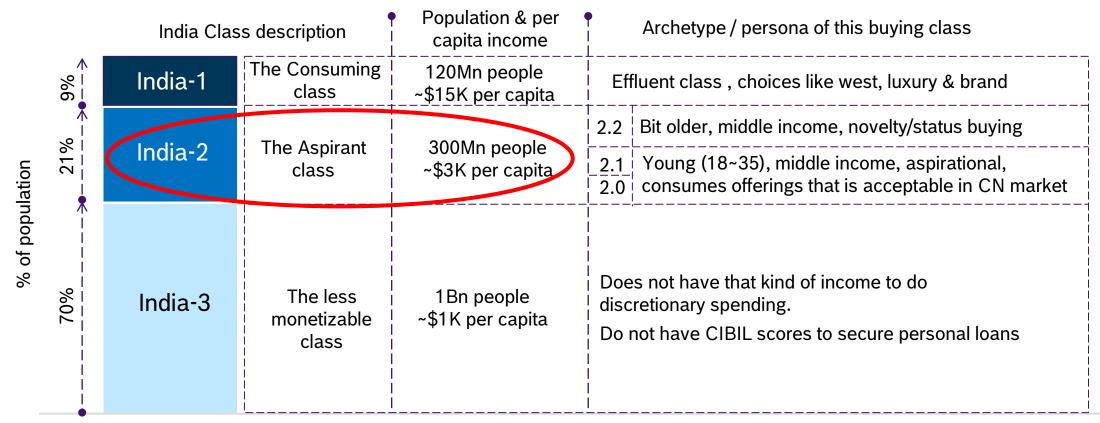
~USD 23 bn

Semi-Conductor

•	l ata Electronics	11 Bn\$
•	Vedanta	5 Bn\$
•	Tata & TSAT	3.3 Bn\$
•	CG Power Solutions	0.92 Bn\$
•	Micron	0.83 Bn\$
•	Foxconn & HCL	0.04 Bn\$

Recent Investment commitment in major states (TN, GJ, MH, UP, Others)

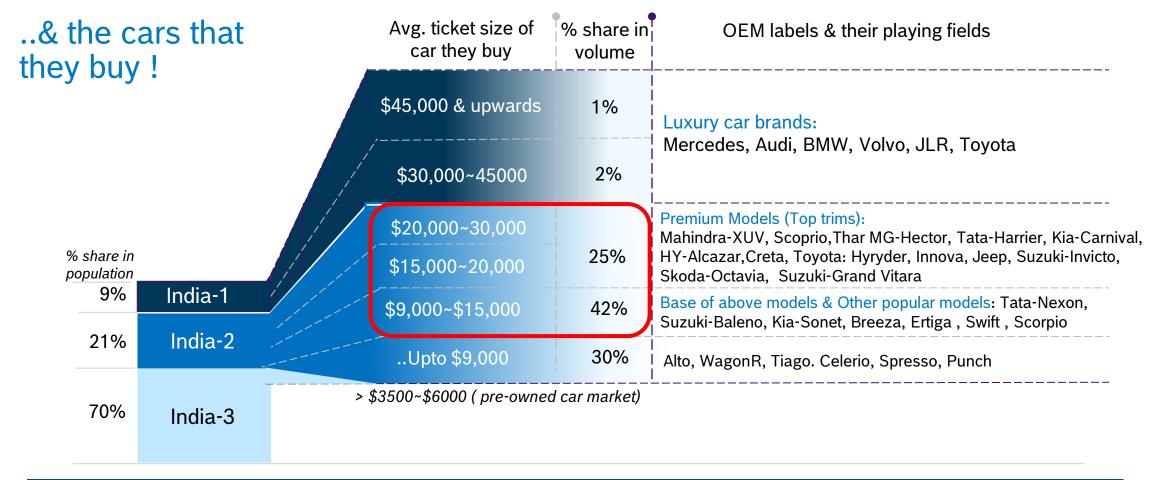
India's Consumer Stack - Buying capabilities (current view)



Concept of India Stack, Ref: Kishore Biyani's book, "It Happened in India"

Aspirant class represents majority of the target consumer



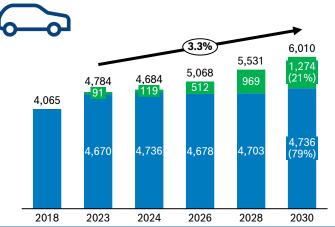


India 2 population is growing: Premiumization as a trend due to the consumer spread

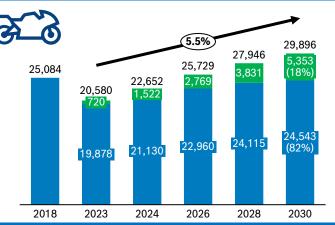


ICE Volumes in '000
EV Volumes in '000
H2 Volumes in '000
Source: (A)MP24

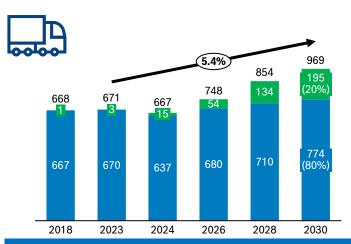
Indian Automotive market prognosis | Overall market expected to grow annually at 3% - 4% in long term



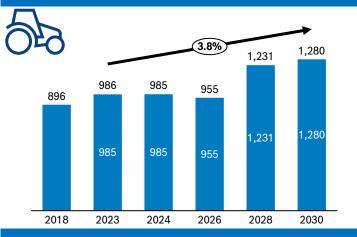
High %of BEV in 2030 driven by TCO & Infra development



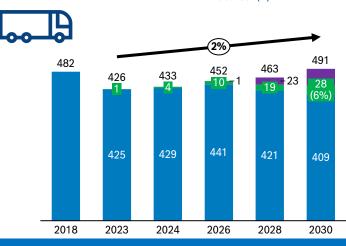
EV Adoption driven by PMPs and reducing battery prices



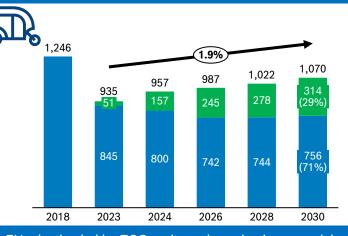
EV penetration mainly in < 2T LCVs | Last mile TCO benefit



Steady growth over long term | TREM V delay possible



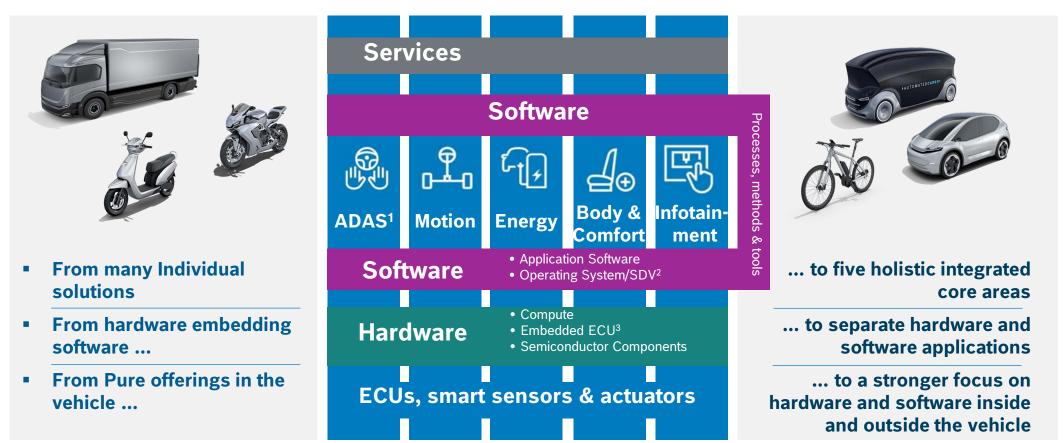
Long haul fleets will be part of the hydrogen ecosystem



EV adoption led by TCO parity and new business models



The market of future calls for new approaches to business – "Tech-stack"



ADAS : Advanced Driver Assistance System SDV : Software Defined Vehicle ECU : Electronic Control Unit



Emerging mobility trends in India - "No more just a owner based segment"

Changing Paradigm of urban mobility

Mobility as a Service (MaaS)

Electrification

Technology



Mobility

eoble

Mobility

Goods













Urbanization in India

2030 40%



O OLASHARE UberPool

Subscription

Ownership of vehicle through rentals or subscriptions

Self Drive(3)



















Electric

SHOK LEYLAND ERISHA

H2-ICE

Alternate Fuel



ADAS



V2X



E/E Arch





Infotainment



SaaS

Change drivers

Energy Independence

Fleet Optimization

Asset utilization

Competitive Logistic cost

Logistic and Transportation Services

Logistics Aggregators













Last mile





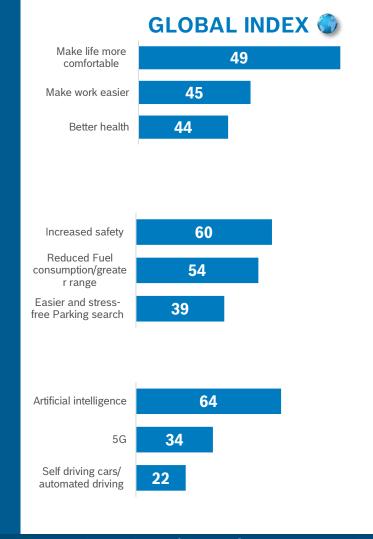
^{* 1.} Rider hires a vehicle and a driver for personal use | 2. Rider shares the vehicle with other riders travelling | 3. Rider hires a vehicle for personal use for 'self-driving | 4. Subscription offered by OEMs in partnership with firms

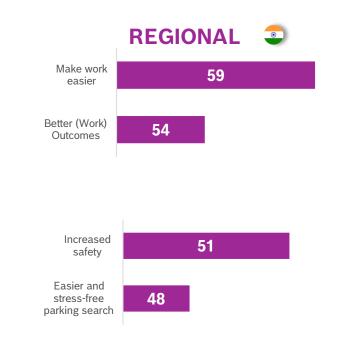
(BOSCH Tech Compass 2023-24)

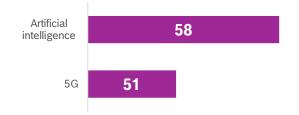
BENEFITS OF AI

MOBILITY BENEFITS OF AI

TECH OF THE **FUTURE**







India is ranked higher towards adoption of new trends on the technology (AI) front



Future of Mobility Summary



Who will define the future?

- Regulators
- Consumers
- Stakeholders



- E & E Architecture
- Compute



Key factors

- Simple and solid foundation tech
- Cheaper compute
- Gen Al





Thank you!

Guruprasad Mudlapur

Managing Director and Chief Technology Officer, Bosch Liminted and President Bosch Group, India August 19, 2024



BOSCH