

DECARBONISATION & DIGITISATION OF PUBLIC TRANSPORT

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The **Volvo Group** and **Eicher Motors** came together with one common vision to form the VE Commercial Vehicles in 2008. VECV has always been ahead, with a continuous transformation of a holistic ecosystem which is based on progressive thinking, advanced technology & unshakable values

This partnership has helped modernize and evolve the industry in India and many other countries with emerging markets. VECV offers a wide range of over 150 fully built & bus chassis variants across light, medium and heavy-duty applications.

Shaping the future of the Indian Bus Industry



**Widest
Coverage**

Volvo and Eicher Brands

**Leveraging
Synergy**

**Product design, purchasing &
manufacturing**

**New
Opportunities**

New Segments & E-Mobility



VE COMMERCIAL VEHICLES
A VOLVO GROUP AND EICHER MOTORS JOINT VENTURE

VOLVO

EICHER

Passenger mobility in India at a glance



The passenger traffic in the railway sector amounted to over 8 billion across India in fiscal year 2020.

Overall, the railway network transported over 22 million passengers every day.



In FY'21 1,52,79,159 vehicles were registered in India.

Every year this number increases by almost 8%



3 out of 10 worst Traffic congested cities in the world are from India



Because of dependency on traditional modes of transportation, Indians consumed 195 million tones of petroleum product in FY'21

E-Mobility landscape in India

Positive trends

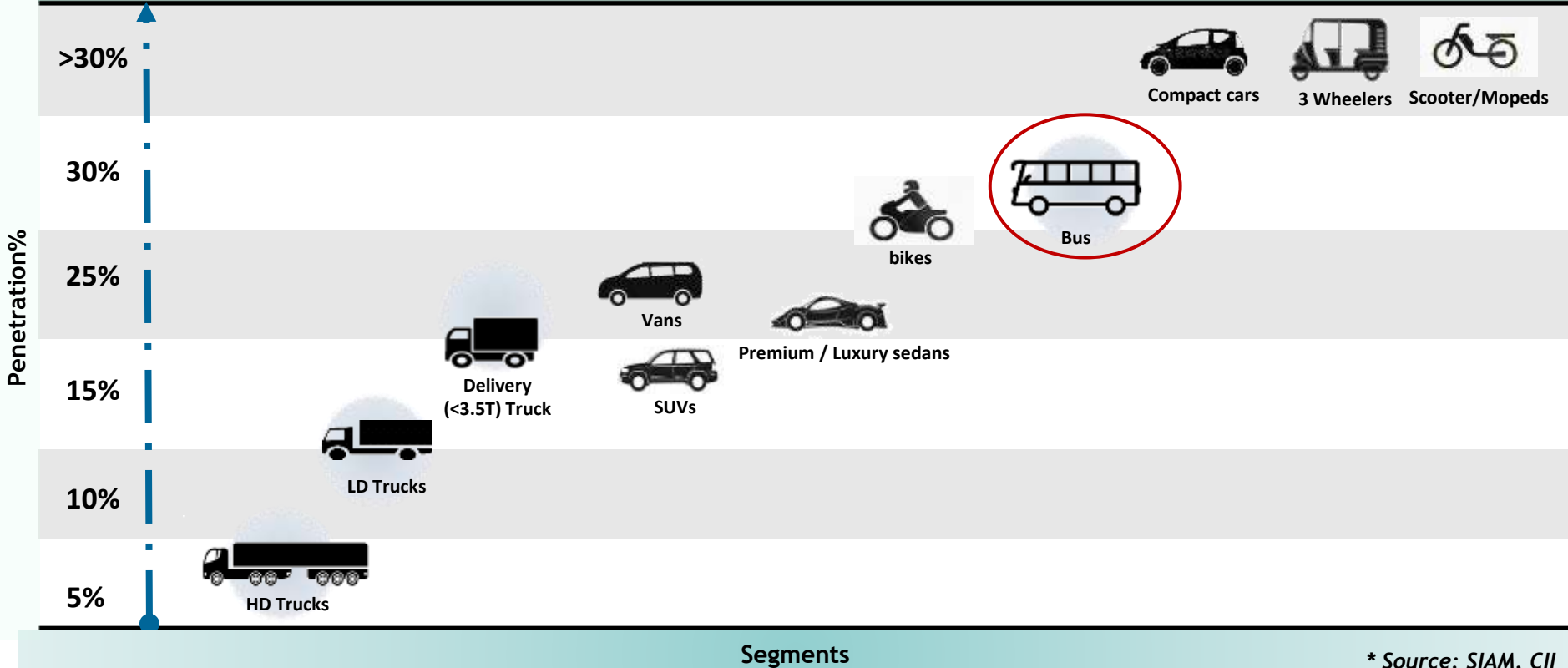
- FAME I & II
- Planned procurement under CESL
- Production Linked Incentives for battery production
- Increasing focus on clean energy generation
- Vehicle scrappage policy

Imperatives for success

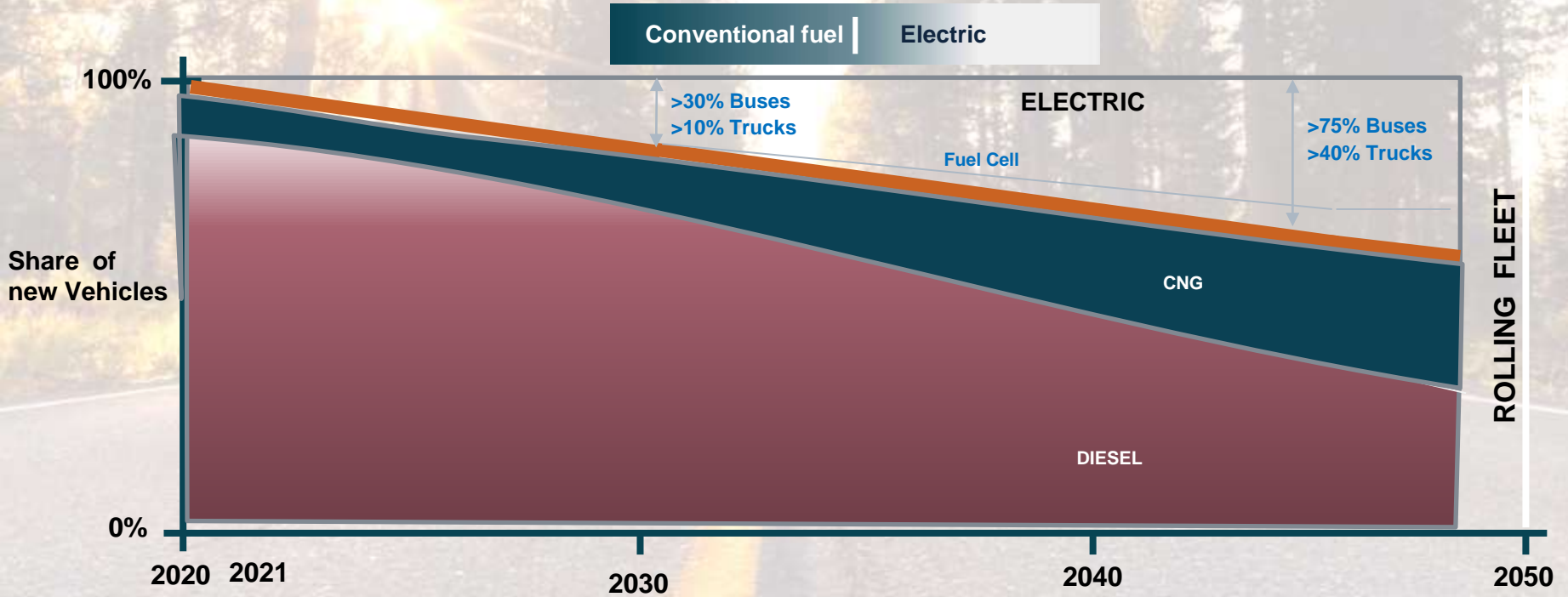
- Need for standardisation of vehicle, battery specifications & charging protocols
- Made-in-India buses and batteries
- Turnkey approach to e-bus project management
- Subsidies welcome but assured and regular large purchases more important for scale
- Infra status for green buses
- Charging and power infra to be strengthened

Electric Vehicle Market Outlook... Buses Will Lead the Way of EV Adoption in CV industry*

Expected BEV penetration across vehicle segments, 2030 (%)



Sustained Reduction In Diesel Fleet... Our Wanted Picture



A hand in a dark suit jacket is pointing towards the center of the image. The background is a dark blue grid of hexagons. The central hexagon is highlighted in a lighter blue and contains the text "DIGITAL TRANSFORMATION". Surrounding this central hexagon are several other hexagons, each containing a white icon: a laptop, a database cylinder with arrows, a robotic arm, a smartphone with a bar chart, a microchip, a network node, a bar chart with a line graph, a gear, and a binary code "10101010" with circuit lines.

DIGITAL TRANSFORMATION



Key technologies and drivers of digitisation

Operations	Maintenance	HR management and work organisation	Customer services
Autonomous vehicles	Condition-based maintenance	HR automation	MaaS
Automated metros / busses	Sensor-based maintenance	HR planning, recruitment, retention	Mobility platforms, apps
Driver assistant systems	Remote maintenance	Virtual teams, mobile work	E-tickets, contactless payment
Digital control systems	Automated diagnosis of cause of failure	Qualification, skills, competences	On-demand services
Automated depots	Internet of Things (IoT)	Leadership and corporate culture	Real-time passenger information
Mobile devices	Computer-analysis and use of tablets	Health, well-being, working time	Passenger data analysis
	Stock and missing part management		

Source: UITP

MY EICHER & EICHER LIVE+

Fleet Management (Eicher Live+)

- Predictive Uptime
- Fleet tracking & Route playback
- Manage Drivers, Users
- Driver App
- Fleet Performance Insights
- Vehicle Productivity
- Fuel Efficiency Analytics
- Safe Driving

Fleet Uptime

- Breakdown Assistance
- Maintenance Alerts
- Service Booking
- Renewal Reminders
- Service Network
- Service History

Value Offerings

- Product information
- Informative tutorials
- Maintenance tips & guides
- Digital documents
- Help & support
- Eicher Events

100% Connected Buses



Website



Android app



IOS store

Uptime Centre: Offering unique support services



1

Remote Diagnostic Services : Pro active support to dealer technicians through advanced tools



2

Predictive Diagnostics Services: Telematics driven fault code prediction & service intervention



3

Eicher On Road services: Real time support for 24X7 Road Side breakdown assistance



4

Field support services: Pro-active support services to workshop Technicians for faster turnaround



5

Vendor Support services: Support services through Vendors for Proprietary aggregates repairs



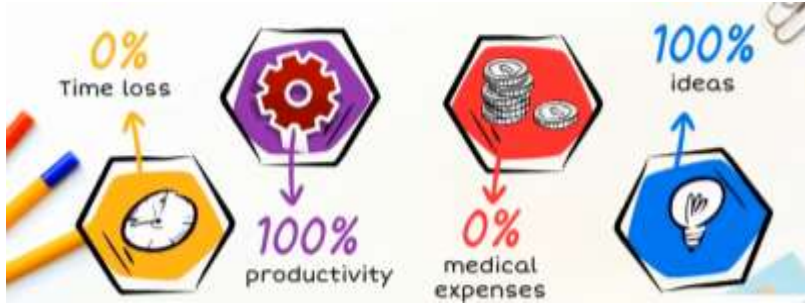
6

Parts support: Pro-active monitoring of VOR/ Accidental orders and Pats related query management



Digitisation in Manufacturing

Near Miss Reporting



Implemented at VBI

Report an Incident by Scanning a QR Code

Automated message is sent to stakeholders

Near Miss Incident Reporting

Safety always comes first at Volvo Buses, and it guides us towards our vision of zero accidents. It's a core value and has been our guiding star since 1927.

Safety experts consider that a serious/fatal injury can happen when there are 80,000 acts or unsafe conditions. The only way to avoid accidents or a minor injury is by reporting them immediately and take steps by investigating further. In this process, employees on the shop floor play a significant role in reporting these potential risks and work closely with the Management team to improve the working conditions.

Required

1. Name the main area of incident *

Select your answer

Submit

