

#### **Commercial Vehicle Solutions**

Department Finance

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Trading Symbol: ZFCVINDIA

**Scrip code: 533023** 

Date May 28, 2024

 ${\sf ZF\ Group\cdot ZF\ Commercial\ Vehicle\ Control\ Systems\ India\ Limited,\ Chennai\ 600058}$ 

The Manager Listing Department BSE Limited, Phiroze Jeejeebhoy Towers Dalal Street, Mumbai 400 001

Listing Department
National Stock Exchange of India Ltd
Exchange Plaza, C-1, Block G
Bandra - Kurla Complex
Bandra (E), Mumbai 400 051

ISIN: INE342J01019

Dear Sir(s),

Sub: Announcement under Regulation 30 of the SEBI (Listing Obligations and Disclosure Requirements) Regulations,2015 - Investor Meet Presentation attached

Ref: 1) Prior intimation dated May 27, 2024 on Analyst / Institutional Investor Meeting to be held on 31st May 2024

2) Prior intimation dated May 27, 2024 on Analyst / Institutional Investor Meetings to be held on 28<sup>th</sup>, 29<sup>th</sup> and 30<sup>th</sup> May 2024.

Pursuant to regulation 30 of the Securities and Exchange Board of India (Listing Obligations and Disclosure Requirements) Regulations, 2015 and in continuation of our earlier letters dated 27<sup>th</sup> May 2024 intimating schedule of Analyst / Institutional Investor meetings, please find attached the presentation to be made thereat.

Request you to take the above information on record.

Thanking you,

Yours sincerely, ZF Group

Muthulakshmi M Company Secretary ZF Commercial Vehicle Control Systems India Limited (Formerly known as WABCO INDIA Limited)

Encl.: as above

#### **ZF Group**

ZF Commercial Vehicle Control Systems India Limited (Formerly known as WABCO INDIA Limited)
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Ambattur Industrial Estate,
Chennai - 600058. India
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# **ZF Commercial Vehicle Control Systems India Limited**

May, 2024



# **Today's Presenters**



Periakaruppa Kaniappan
MD & CEO



Sweta Agarwal
CFO



# About ZF Group



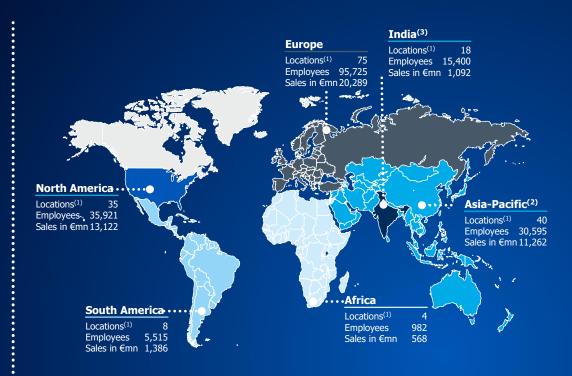
## **ZF: A Global Technology Company & Solutions Provider**

ZF is among the leading global technology groups and supplies advanced mobility products & systems for passenger cars, commercial vehicles and industrial technology. The company is a frontrunner in contributing to reducing emissions, protecting the climate as well as enhancing safe mobility.



# ZF's Leading Presence Globally Enables to Provide a Dense Network of Highly Qualified Contacts Close to Customers

#### **Key Highlights** 2023A 74% 18% 8% Construction and Cars and light agricultural machinery, rail drives, marine craft commercial Commercial vehicles <6t vehicles >6t and wind power €46.6bn €2.4bn €3.5bn Adj. EBIT Sales **R&D** Expenditure 168,700 162 **Employees Production Facilities**





# **ZF CVS Division is the CV Industry's One-Stop-Shop**

Vehicle Development **Vehicle Production** 

Repair & Maintenance

Upgrade & Update

Fleet Operations & Management







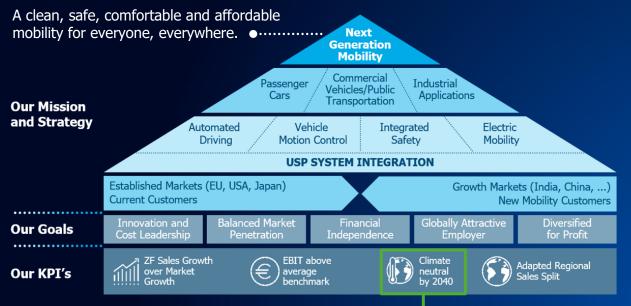






Addresses diverse commercial transportation applications A powerful advantage for customers world-wide

# **ZF's Next Generation Mobility Strategy: Climate Neutrality**



#### **Climate Neutrality:**

- Reduce CO<sub>2</sub> emissions by 80% (compared to 2019) by using green energy until 2030 (Scope 1 and 2)
- Reduce CO<sub>2</sub> emissions of upstream value chain & product use until 2040 (Scope 3)

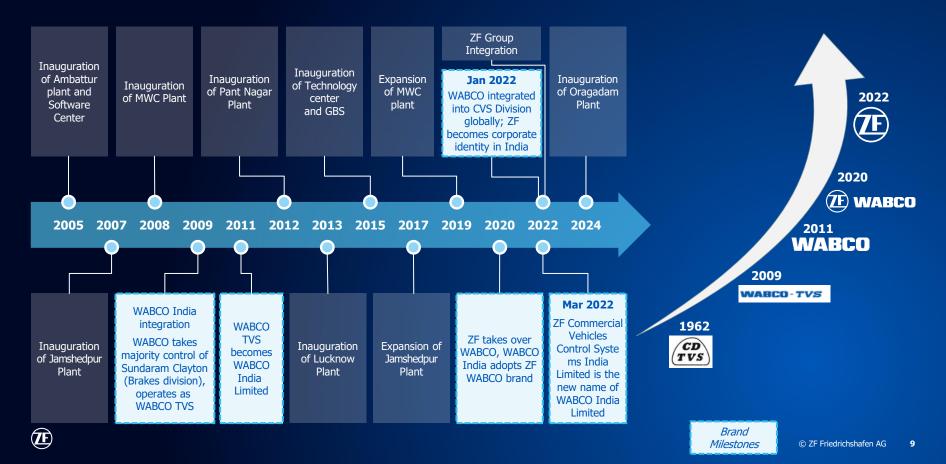
ZF's ambitious climate strategy: Climate neutrality across all emission categories by 2040



# 02

ZF Commercial Vehicle Control Systems
India Limited ("ZF CVCS"):
Introduction & Strategy

# **ZF CVCS:** Building on a Strong Heritage



## **ZF CVCS: At a Glance**

#### **Over 6 Decades as a Market Leader**

6

Manufacturing Plants

Global Engineering & Technology Centers

~270

Authorised Service **Partners** 

Test Track

~ 550

Aftermarket Dealers/ Distributors

> 1,000

Engineers, Global center for Digitalization and Software development

Over 3,200

Employees



# **ZF Industrial Park, Oragadam**

- ZF Industrial Park Oragadam inaugurated on February 14, 2024
- Inaugurated by Dr TRB Raaja, Hon'ble Minster for Industries Govt of Tamil Nadu
- ZF CVCS' 6<sup>th</sup> manufacturing facility in India
- Cornerstone of ZF's strategic intent for Make in India, for India and for the World
- Center for e-mobility and advanced mobility technologies
- Facility powered by 100% renewable energy; plant operated by ~80% women employees





# **ZFCVCS – A Leading Supplier of Technologies and Services to the Indian CV Industry**



# **CVS India Leadership Team**



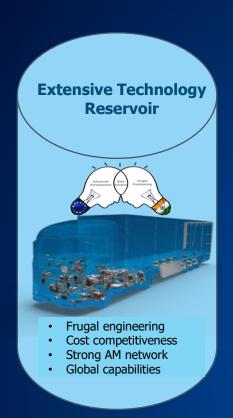
Kaniappan



Today's Presenters

## **Sustained Focus on Value Creation for Shareholders...**

# New Innovation Pipeline Global Capability Excellence in Execution Innovation & Technology Leadership Autonomous



#### Value creation

Partner of Choice for India's OEMs



**Partners for fleet** 



CoE for export manufacturing and services

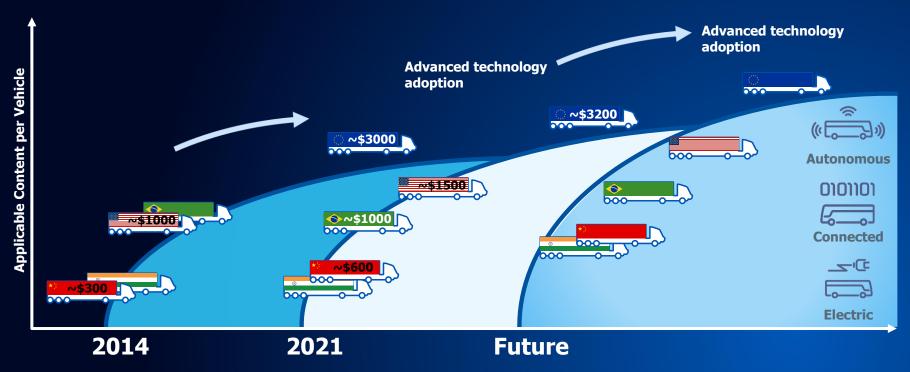


Readiness for service business





# ... by (1) Riding on India's Growth & Increasing Penetration of Advanced Technologies



\* At constant FX

# (2) Pioneering Customer & Market-oriented, Costoptimized Solutions

#### Solving the industry's key challenges

#### **Focused on efficiency**

Product and system solutions for the reduction of operational costs (**TCO**) as well as lower **CO2 emissions** 



#### **Focused on safety**

Assistance systems (ADAS) for the protection of road users, driver comfort and cargo integrity



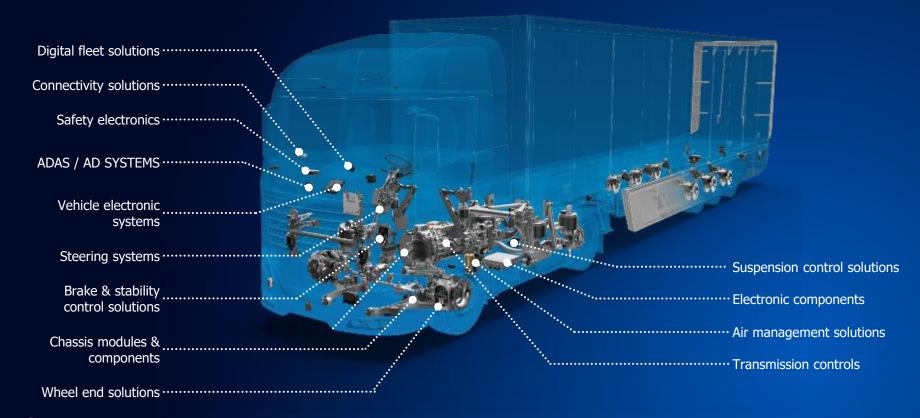
#### Focused on digitalization

Connectivity and **software solutions** for efficient processes (fleet mgmt. predictive maintenance, digital applications)





# (3) Preferred Technology and Systems Solutions Partner to CV OEMs and Fleets

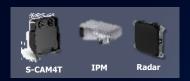




# (3A) Leading the Path to ACE

Solutions for each technology path in place

Leading player in ACE technologies and solutions



Increase of vehicle automation to higher safety and regulatory levels



Extend intelligent control system towards improving efficiency of the system



Transform braking, air Management technology from ICE to eMobility



Extend Digital products & Solution offerings



**Connected** 

**Today** echnolog

Technology leader in conventional products □□□ Safety & Autonomous 8 Effi

Efficiency & Comfort

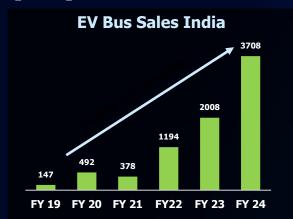


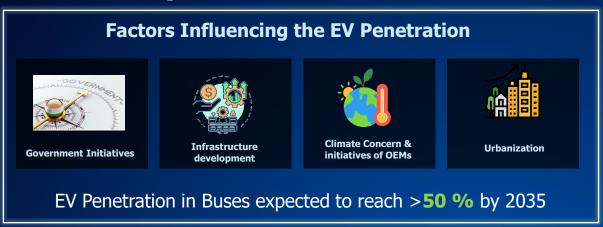
**Electric** 

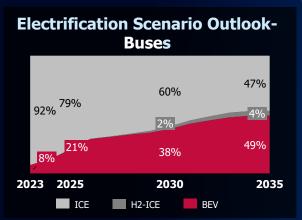
Offering solutions across diverse customer needs



# (3B) EV Market Poised for Exponential Growth









Key Government initiatives to boost the EV penetration

# (3B) Technology Solutions Ready for EV Migration



#### Conventional ICE



**Engine Driven compressor** 



**ABS Based ESC System** 



Conventional Air Processing



Conventional Air Suspension



#### Electrified



**eCompressor** 



EBS based ESC



**EC APU** 



**ECAS** 

Electric compressor solution dedicated to electric & hybrid CV applications

EBS based ESC with improved regenefficiency & range

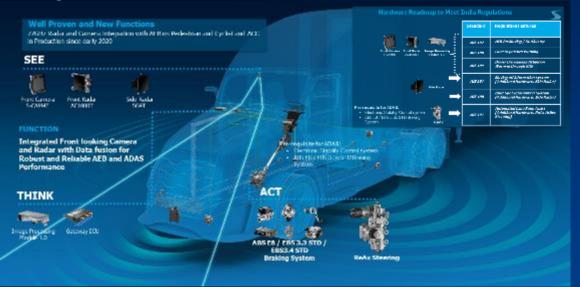
Electronic controlled air processing for better efficiency & intelligent air management

Electronic control air suspension with intelligent control & efficiency



# (3C) Advanced Driver Assistance Systems (ADAS)

Driving into the future



- Advanced driver assisted system towards improving safety
- Draft regulation approved by technology committee. Govt notification expected in H2 2024 (possible implementation time frame 24 to 36 months)
- Launched in 2018 with TATA Motors; successful market launch by TML in 2022
- AEBS regulation expected from 2026
- Targeting release with key OEMs

- "One Stop Shop" for ADAS solutions incl. MOIS, ISA, DDAW, BSIS, REIS and TPMS to comply with the regulations
- Applies to truck, bus and coach applications

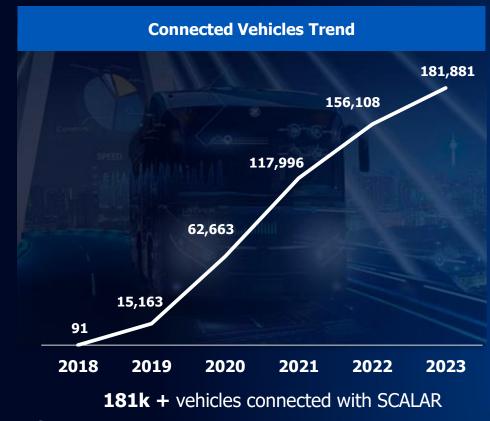




# (3D) SCALAR: Digital Fleet Orchestration Solution



# (3E) Connectivity Solutions to OEMs





Highly secure hardware to meet the regulation



Data ingestion & API service to OEM cloud



SIM & KYC management



 $\langle$  State level empanelment & vehicle tagging

#### **Features in Pipeline**

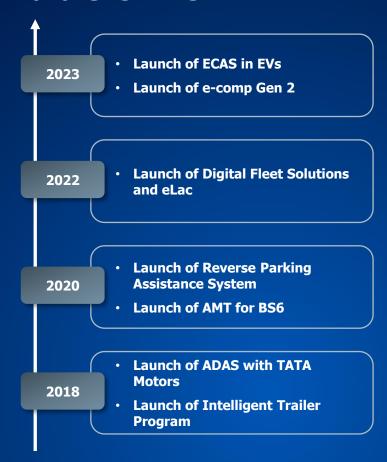
- Vehicle & prognostic service
- Logistics & load connectivity solutions from SCALAR
- Multi brand diagnostics
- Software vehicle management system

# **ZFCVCS:** Key Moats



### Trusted Innovation Partner for India's OEMs

- First to bring advanced technology tailored for Indian CV market
  - ABS, AMT, ESC, ADAS, ECAS, Intelligent Trailer
     Program
- Advancing trailer safety and efficiency in India
- Development partner with deep local knowledge
- Serving industry through localized supply chain and countrywide service network
- Gateway to global operations to support Indian OEMs' export ambitions
- Proven technology ready to support advancing legislation



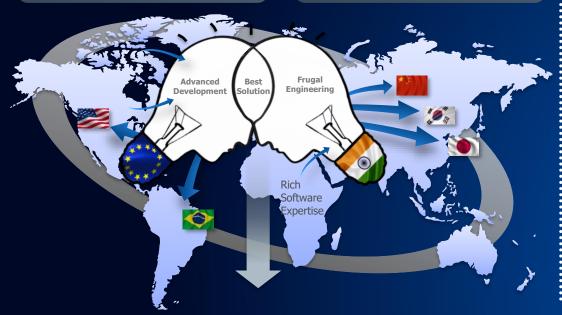


# **Excellently Positioned to Deliver Advanced Technologies at Best Cost**

Frugal engineering expertise with an ability to redesign advanced technologies and mature products for price sensitive markets

Skilled application engineers
provide excellent customer connectivity
and support for adapting and

and support for adapting and homologating new technologies







## **EBS and ESC for EV applications**

Applicated across all OEMs thus improving safety and regen efficiency





- Optimal grip under tough environmental conditions
- Ensures driving stability and steering ability
- Maintain control of vehicle even on slippery surface



- Increased road safety
- Control vehicle under slippery conditions
- Improved vehicle stability



- Optimized regeneration and range improvement
- Lower insurance cost





+5-10% regen efficiency



Ready for **AEBS** 



**Closed loop** system



Fully supports **EV/Hybrid** vehicles



# Aftermarket Empowering Fleets with Retrofit and Digital Solutions

**End-to-end solutions and services** 

Spare parts along the lifetime of the vehicle

#### **Digital Services**

Fleet Management Solutions encompassing all requirements of the fleet eco-system





Genuine Spare Parts

OE certified premium quality parts

#### Pan India Sales & Service Networ

700+ authorized service centers, and channel partner points



Delivering a complete range of product and service offerings



#### **Retrofit Solutions**

State-of-the-art technology upgrades and updates for fleets

#### **Workshop Solutions**

Remote diagnostics, predictive maintenance to improve fleet productivity and reduce down-time





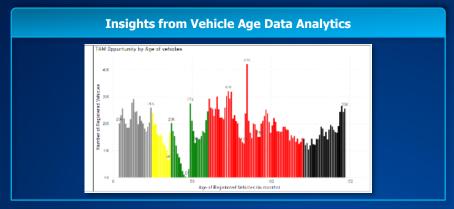
## Professional Training and Consulting

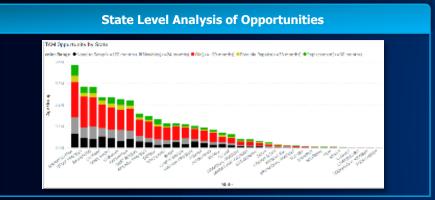
Skill enhancement for fleets, OEM dealers and mechanics



# Leveraging Digitalization & Data Analytics to Unlock Growth Opportunities in Aftermarket









# **Broad Market Focus Well-positioned for a Bright Future**



## **Recognition for Excellence in Execution**

- Strong relationship with customers for over six decades
- Recognized by leading customers for innovation, technology partnership, cost competitiveness, quality and excellence
- Recipient of 30+ customer awards over the last decade+
  - 9 awards from Ashok Leyland supplier samrat; overall quality excellence
  - 8 awards from TATA Motors supplier of the year; innovation and technology award
  - 8 awards from VECV best quality supplier; outstanding contribution in technology innovation
  - 3 awards from Daimler Q Prime, best supplier for innovation, partners for Asia
  - 1 award from Mahindra Best technology partner



## **ESG Focused Business Model**

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# **Driving Decarbonization** for a Greener World

- Implementing technologies to improve vehicle efficiency and reduce carbon footprint
- Use of renewable energy sources and water conservation across our facilities

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# **Empowering Communities Through Upskilling**

 Focused on road safety;
 10,000+ drivers upskilled in partnership with RTOs and STUs C



# **Building Success Through Governance**

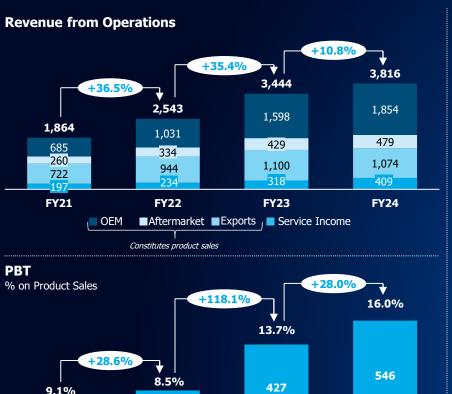
- Robust & effective corporate governance is the cornerstone of our business practices
- 4 highly qualified, well-acclaimed independent directors<sup>(1)</sup>

# 04

**ZFCVCS: Q4FY24 and FY24 Performance** 



## **ZF CVCS India Annual Performance**



**FY23** 

FY24



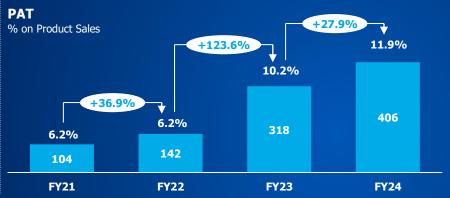
**FY23** 

290

FY22

245

**FY21** 





152

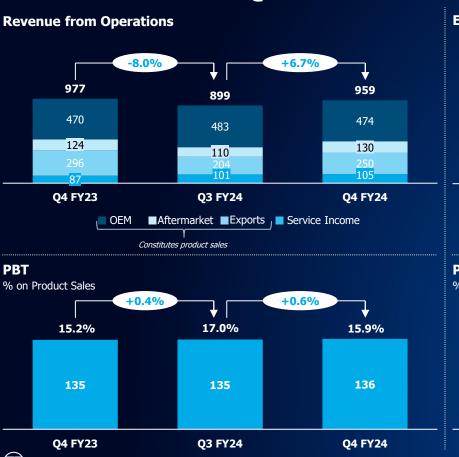
FY21

196

(Rupees in crore)

**FY24** 

## **ZF CVCS India Quarter Performance**



#### **EBITDA**







(Rupees in crore)

Thank you.

Welcome your questions and feedback.

