

#### **AGENDA**

Growing demand for sustainable transports and infrastructure

Well invested with strong assets to build on

Improving financial performance

Martin Lundstedt, President and CEO

Martin Lundstedt, President and CEO

Jan Gurander, Deputy CEO & CFO

Improving operational performance Martin Lundstedt, President and CEO

#### **COFFEE BREAK** 10:00-10:30

Building a strong North American truck business

Leveraging Financial Services

Lead in technology

Summary and Q&A

Dennis Slagle, EVP Volvo Group and **President Mack Trucks** 

Scott Rafkin, President Volvo Financial Services

Lars Stengvist, Chief Technology Officer Volvo Group

12:30-13:00 LUNCH



# Growing demand for sustainable transports and infrastructure

### **Martin Lundstedt**

PRESIDENT AND CEO







### Growing demand for sustainable transports and infrastructure

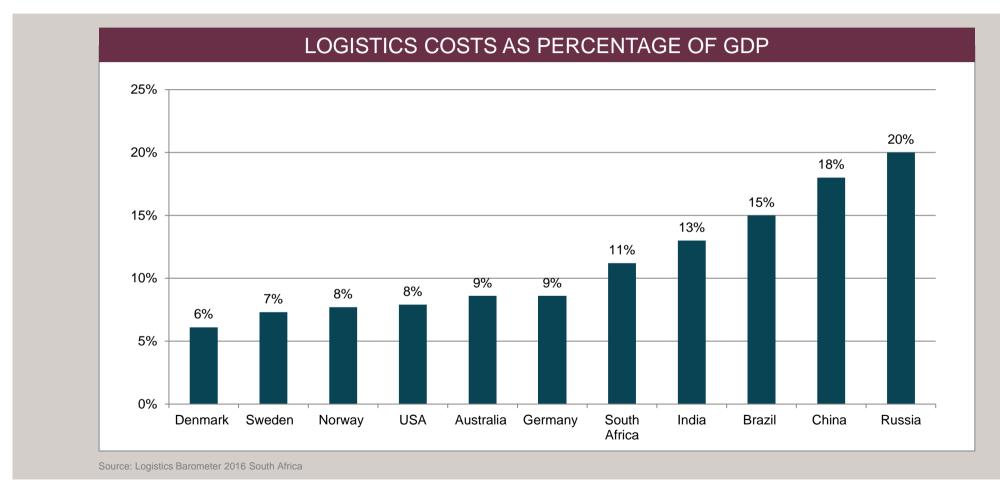




Middle class growth: WB MIC forum

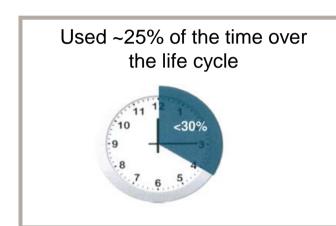
Volvo Group

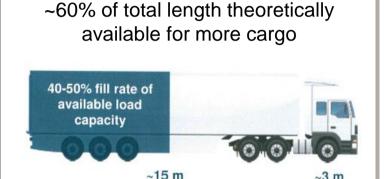
# Efficiency and sustainability gap in emerging markets

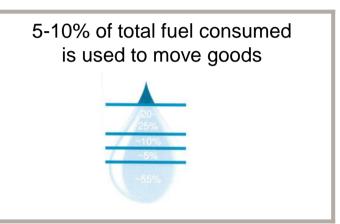


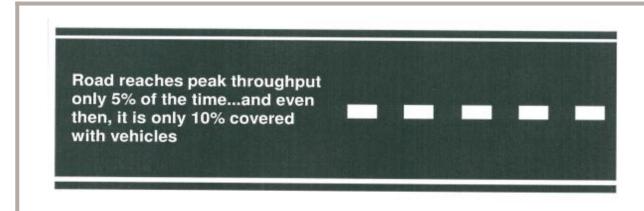


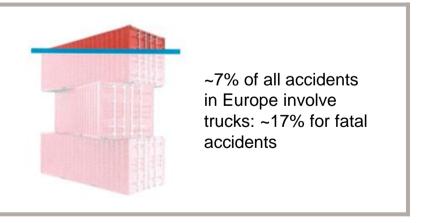
## Large improvement potential in the logistics systems











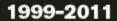
Source: Mckinsey







THE JOURNEY



# **Acquisition- driven growth**

Scale, synergies and geographical expansion.



#### 2012-2015

# **Transformation to close the gap**

Product renewal, restructuring and cost efficiency.



#### 2016 >

# Improving performance

Customer focus, simplicity, speed, continuous improvements and organic growth.

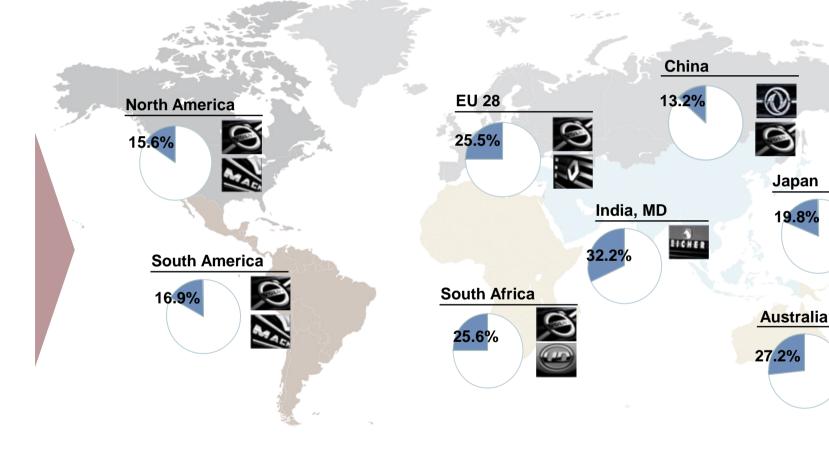




#### TRUCK SALES NETWORK AND MARKET SHARES 2017

#### Sales and service points

North America	615
South America	208
Europe	1452
South Africa	57
India	438
China	964
Japan	210
Australia	85





Investor Day

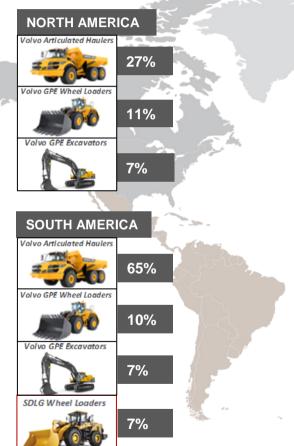
9 May 17, 2018



#### **VOLVO CE SALES NETWORK AND MARKET SHARES 2017**

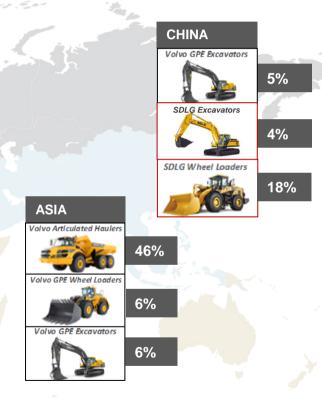
#### Sales and service points

	•
North America	230
South America	92
Europe	483
Africa & Oceania	122
Asia	339
China	288











Investor Day

10 May 17, 2018



ADDRESSING A BROAD SPECTRUM OF CUSTOMER SEGMENTS



SEGMENT AND APPLICATION EXCELLENCE





POSITIONED TO CAPTURE OPPORTUNITIES IN CHINA, INDIA AND BEYOND

- China: Dongfeng Commercial Vehicles
- India: VE Commercial Vehicles
- Growing demand for Volvo Trucks along with e-commerce trend in China
- Volvo CE leveraging the Asia growth both through Volvo and SDLG brands



#### OUR JV'S ARE GEARED FOR PROFITABLE GROWTH





2017 FY		
Position (China)	No 4	
Volume	172,100 units	
Sales	SEK 49.6 bn	
Op. margin	3.4%	
Holding	45%	







Investor Day

14 May 17, 2018



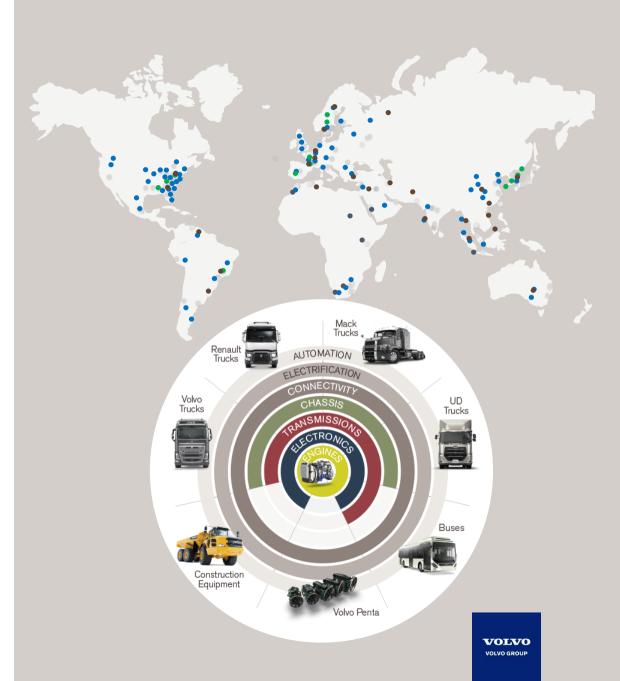
LEVERAGING 15 YEARS OF CREATING A COMMON ARCHITECTURE AND SHARED TECHNOLOGY SYSTEM (CAST)



VOLVO VOLVO GROUP

#### **KEY TAKE AWAYS**

- Strong customer base and rolling fleet
- Well performing sales and service networks
- Well invested industrial backbone
- Fifteen years of investments into CAST
- Segment and application excellence
- Scale where it matters
- People/talent





Jan Gurander

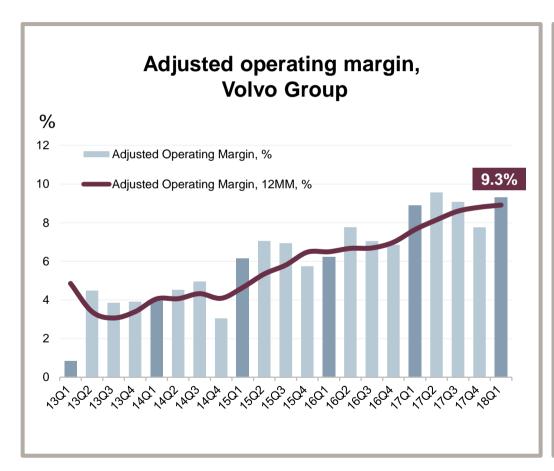
**DEPUTY CEO AND CFO** 

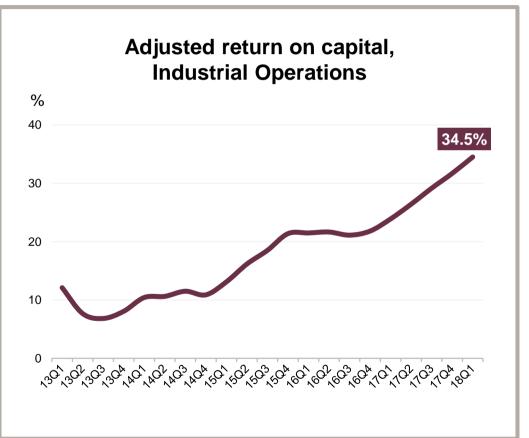






#### TARGETING >10% OPERATING MARGIN OVER A BUSINESS CYCLE



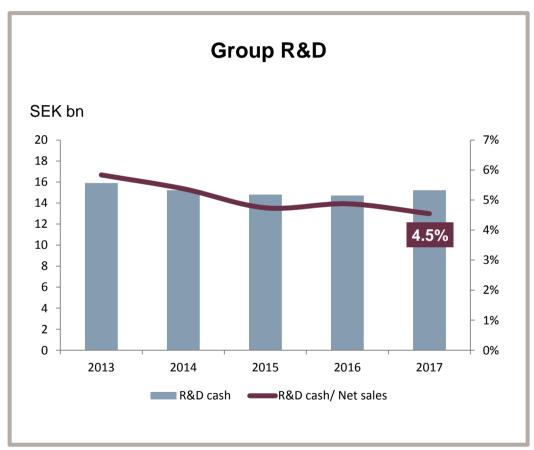


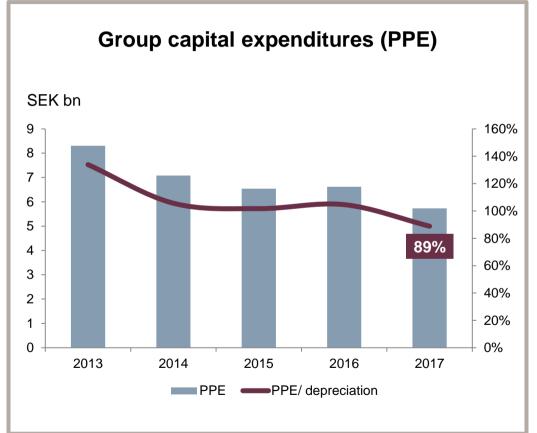


Investor Day 18 May 17, 2018



R&D AT ~5% TO SALES AND CAPEX DOWN TO DEPRECIATION

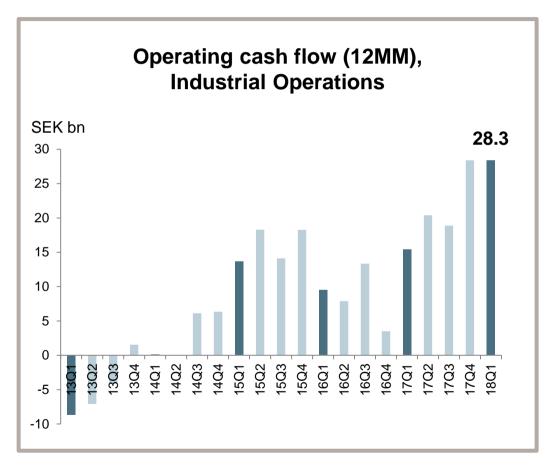


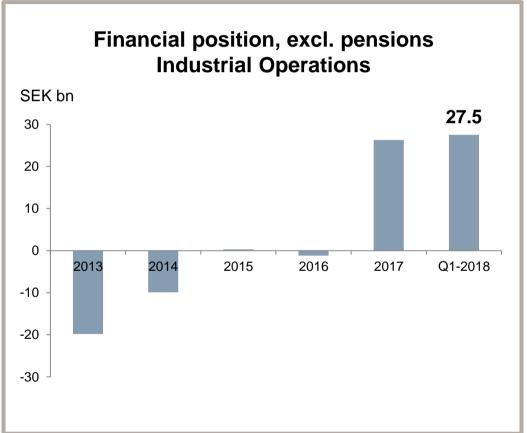




VOLVO VOLVO GROUP

STRENGTHENED FINANCIAL POSITION - NET CASH OF SEK 27.5 BN (excl. pensions)





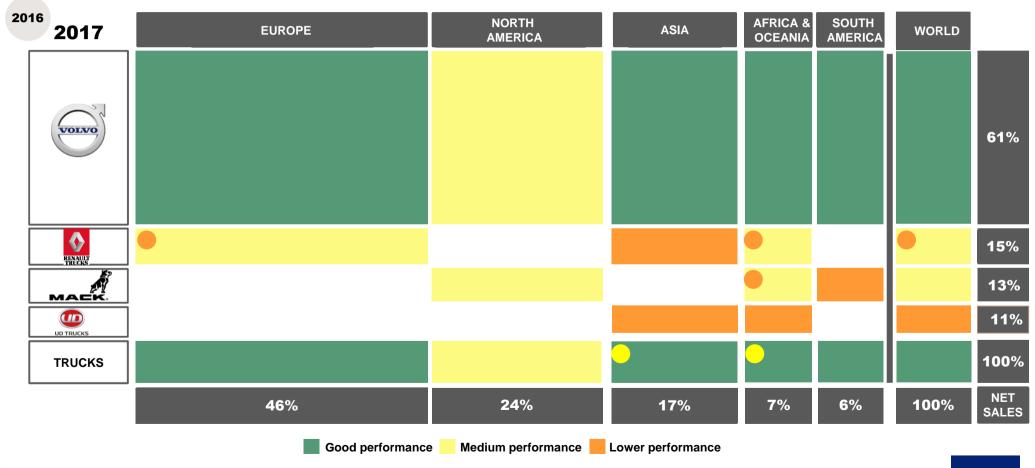


Volvo Group Investor Day

20 May 17, 2018



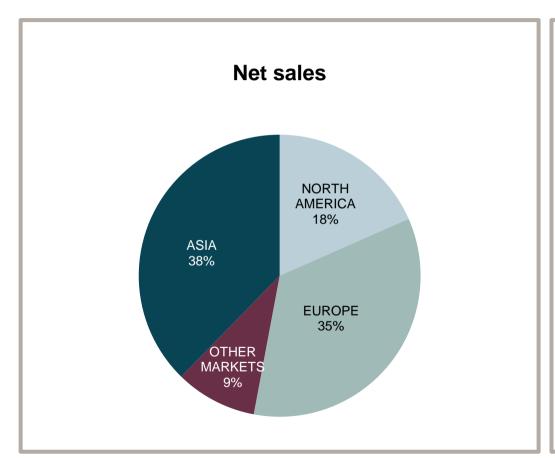
PROFITABILITY PER TRUCK BRAND AND REGION

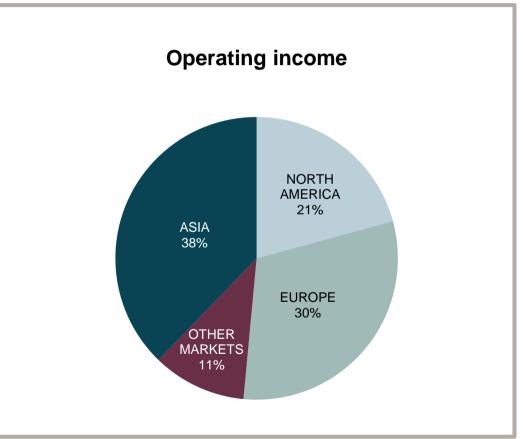




PROFITABILITY IN VOLVO CE WELL BALANCED



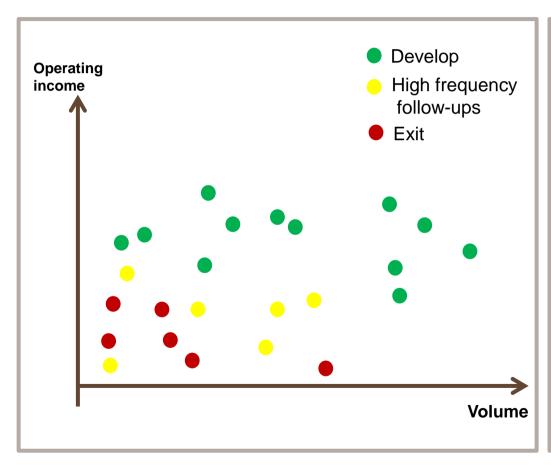








#### WE CONTINUE TO REVIEW PERFORMANCE AND TAKE ACTION



#### Review

- Business segments
- Products and variants
- Markets
- In-house/source
- Services

#### **Examples**

- Shares in Deutz divested
- Volvo CE dealer divestment in the UK
- Outsourced Japanese MD truck production
- Moved Eicher Pro 8000 production to VECV
- 16 liter engine discontinued in North America



# **Financial targets**

>10%

Operating margin over a business cycle

12-15%

RoE in Financial Services

Net cash

Industrial Operations, excluding pensions



#### What we want to achieve

#### IMPROVING PERFORMANCE AND INVESTING FOR THE FUTURE

Gradual and consistent earnings improvement

Reduced volatility in earnings and cash flow

Discipline
in capital
allocation/
investments

Continuous investments in innovation and new technologies





# Improving operational performance

### **Martin Lundstedt**

PRESIDENT AND CEO







## Improving operational performance

#### STRATEGIC PRIORITIES

- Reinforce Volvo as a global premium HD truck brand and regain position and market shares of Renault Trucks, Mack and UD as regional high-end truck brands
- Capture Asia growth through JV's and Group Trucks Asia in a separate value chain and leverage in other emerging markets
- Create the most desirable **HD product and service portfolio** tailored to selected premium, high-end and value segments
- Secure robust profitability through leading R&D, quality, purchasing and manufacturing operations using **Volvo Production System**
- Establish brand specific sales operations with focus on **retail excellence** and a **growing service business**
- Leverage Group assets in our non-truck Business Areas, creating additional profits, synergies and technology leadership
- Revitalize the Volvo Group culture with focus on Customer Success, Trust, Passion, Change and Performance







# Reinforce Volvo as a global premium HD truck brand and regain position and market shares of Renault Trucks, Mack and UD as regional high-end truck brands

#### **NORTH AMERICA**

- New product line-up for Volvo and Mack
- Uptime excellence through connectivity
- Good Financial Service operation
- Network expansion and investments



Volvo VNL



Mack Anthem





# Reinforce Volvo as a global premium HD truck brand and regain position and market shares of Renault Trucks, Mack and UD as regional high-end truck brands

#### **RENAULT TRUCKS**

- New range with higher used truck values
- Improving network performance
- Critical mass in targeted markets
- Engagement for the brand
- Backbone with the Group
- Improving financial performance







# Reinforce Volvo as a global premium HD truck brand and regain position and market shares of Renault Trucks, Mack and UD as regional high-end truck brands

#### **UD TRUCKS**

- New and broader UD Quon range
- Driving retail excellence
- Critical mass in targeted markets
- Engagement for the brand
- Backbone with the Group
- Improving financial performance





# Capture Asia growth through JV's and Group Trucks Asia in a separate value chain – and leverage in other emerging markets

#### **DFCV (Dongfeng)**

- Strengthening the product portfolio
- Engine range preparation for CN6
- Industrial footprint streamlining

#### **VECV** (Eicher)

- Growing HD market shares in India and export volumes
- Engine range preparation for BS6

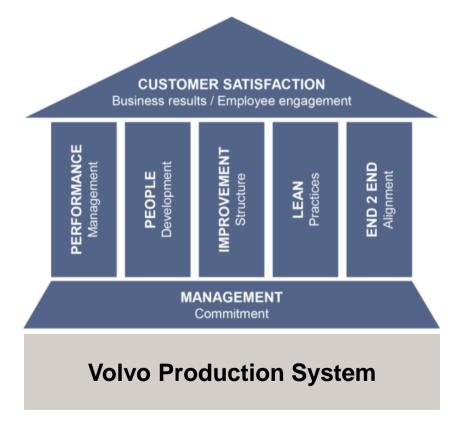
#### **Group Trucks Asia (UD)**

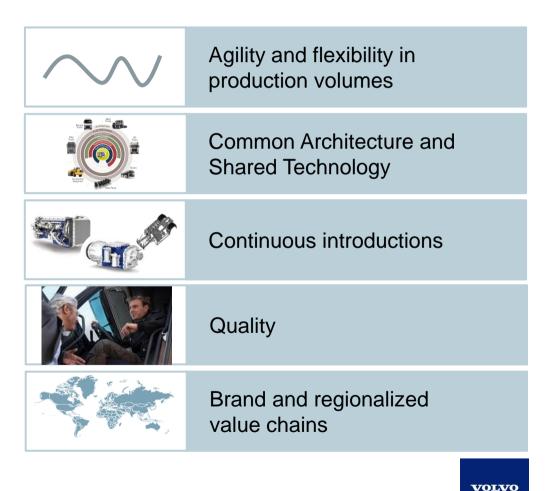
- Completed UD range of HD, MD and LD trucks
- Building vehicle population and service capability
- Reducing vehicle product cost





# Secure robust profitability through leading R&D, quality, purchasing and manufacturing operations using **Volvo Production System**

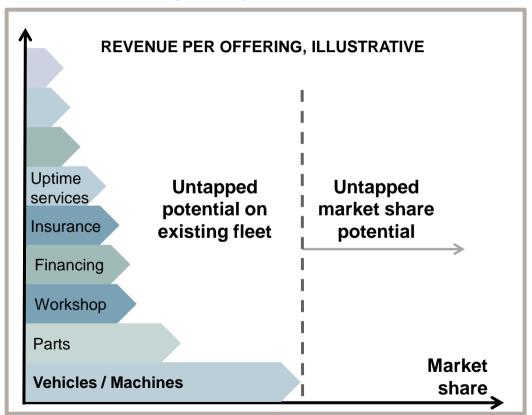


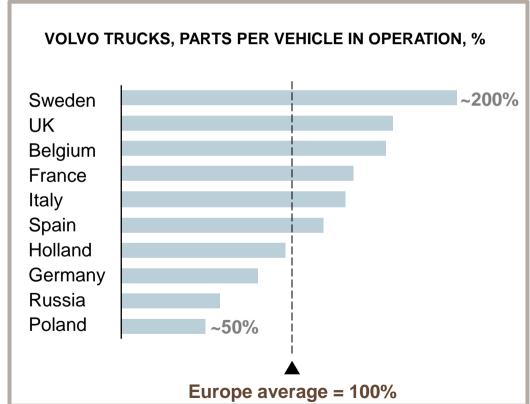


VOLVO GROUP

# Establish brand specific sales operations with focus on retail excellence and a growing service business

UNTAPPED POTENTIAL IN EXISTING POPULATION OF 2.8 MILLION TRUCKS, BUSES AND MACHINES



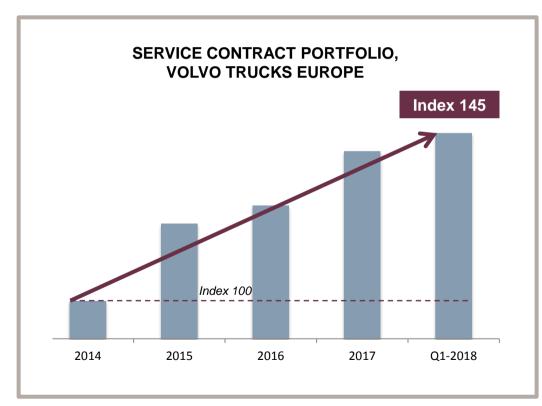


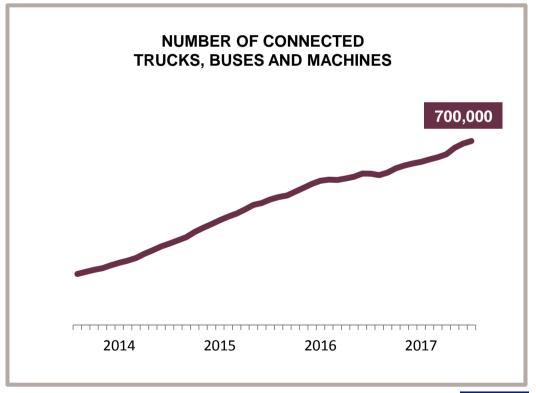




# Establish brand specific sales operations with focus on retail excellence and a growing service business

UNTAPPED POTENTIAL IN EXISTING POPULATION OF 2.8 MILLION TRUCKS, BUSES AND MACHINES







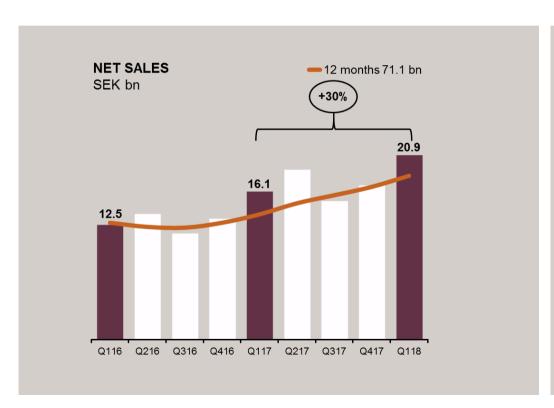




# Leverage Group assets in our non-truck Business Areas, creating additional profits, synergies and technology leadership



#### **Volvo CE**





\*Adjustments, see note 7 in Q1 report: Q1 2017: No adjustments

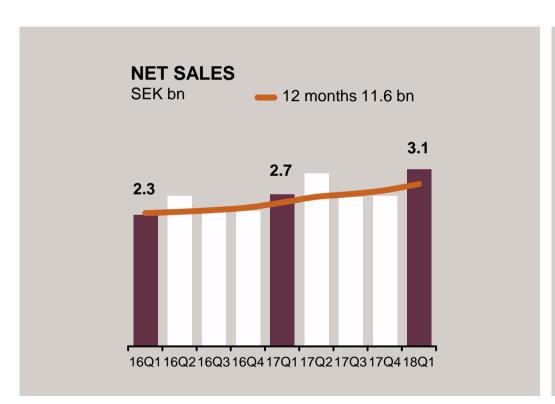
Q1 2018: No adjustments



# Leverage Group assets in our non-truck Business Areas, creating additional profits, synergies and technology leadership



**Volvo Penta** 







\*Adjustments, see note 7 in Q1 report: Q1 2017: No adjustments Q1 2018: No adjustments



6

# Leverage Group assets in our non-truck Business Areas, creating additional profits, synergies and technology leadership



#### **Volvo Buses**



- Profitability focus
- Improved commonality with Group modular system (CAST)
- European leader in electric buses
- Our installed electric bus population has accumulated ~600 million km on public roads





#### **Revitalize the Volvo Group culture**

WITH FOCUS ON CUSTOMER SUCCESS, TRUST, PASSION, CHANGE AND PERFORMANCE

- Clear leadership, entrepreneurship and profit & loss responsibility for each brand
- Those closest to the customer are empowered to make the right decisions
- More regionalized value-chain approach
- Simplicity, improved speed
- A mindset for continuous improvement





#### Improving operational performance

#### STRATEGIC PRIORITIES

- Reinforce Volvo as a global premium HD truck brand and regain position and market shares of Renault Trucks, Mack and UD as regional high-end truck brands
- Capture Asia growth through JV's and Group Trucks Asia in a separate value chain and leverage in other emerging markets
- Create the most desirable **HD product and service portfolio** tailored to selected premium, high-end and value segments
- Secure robust profitability through leading R&D, quality, purchasing and manufacturing operations using **Volvo Production System**
- Establish brand specific sales operations with focus on **retail excellence** and a **growing service business**
- Leverage Group assets in our non-truck Business Areas, creating additional profits, synergies and technology leadership
- Revitalize the Volvo Group culture with focus on Customer Success, Trust, Passion, Change and Performance

Opportunities to improve performance in existing business

# Profit and cash generation funding:

- Leading technology position
- Good shareholder returns





# **Building a strong North American** truck business

### **Dennis Slagle**

EVP VOLVO GROUP AND PRESIDENT MACK TRUCKS







Proprietary driveline penetration

Strengthened dealer networks

Used trucks/ remarketing

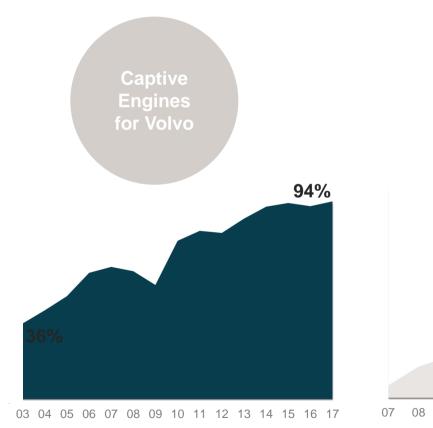
Uptime/connectivity leadership

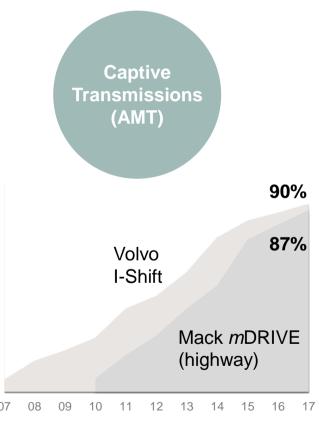
New products

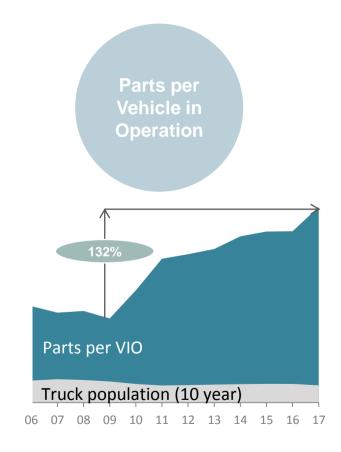


#### Proprietary driveline penetration

#### SERVICE BUSINESS FULLY ABSORBING SALES AND MARKETING COSTS









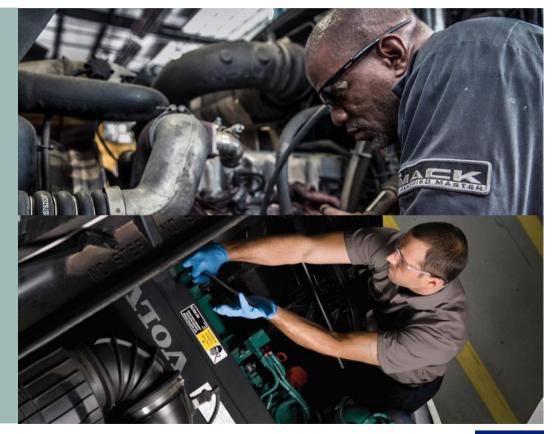
42 May 17, 2018

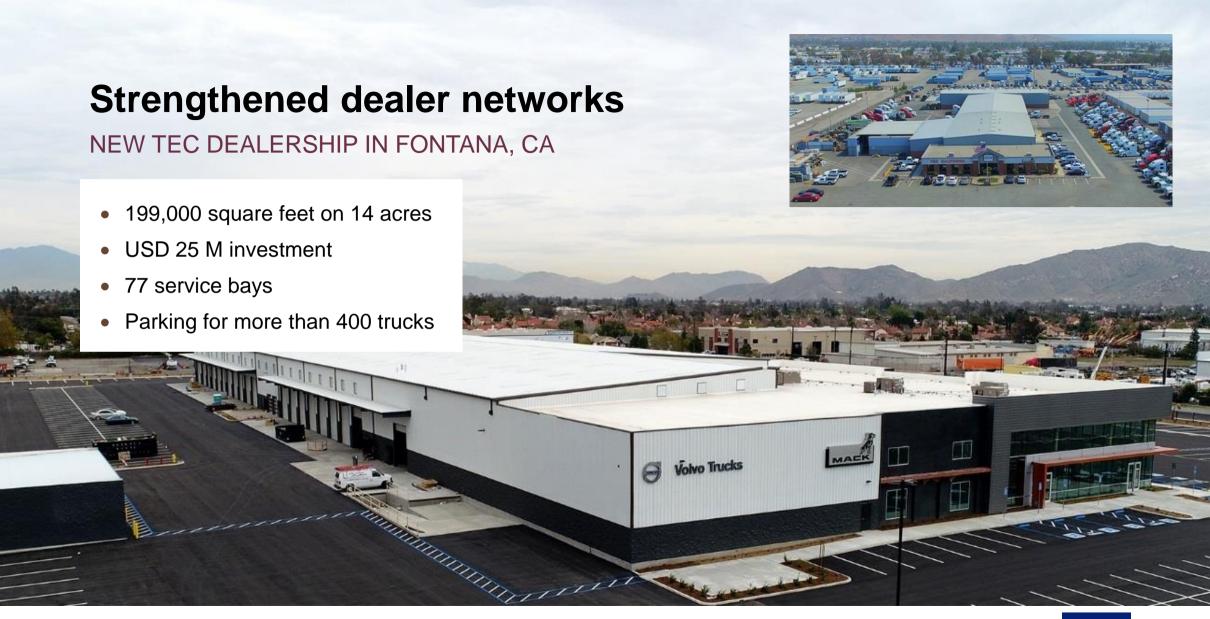


#### Strengthened dealer networks

#### CONTINUED INVESTMENT AND EXPANSION

- 74 additional outlets since 2010
- USD 680 M+ in private investment
- 55% increase in bay capacity
- 124% more technicians
- 65% increase in service capacity
- 248% increase in master technicians
- 60% more sales people







### **Used trucks and remarketing**

ARROW IS LARGEST USED TRUCK OPERATION IN THE U.S.

- 18 locations, all makes
- Profitable through downturn
- Capacity to handle large trades

- Builds dealer competence
- In-house financing optimizes retail values
- Concept expanding to Europe





### **Uptime/Connectivity Leadership**

CERTIFIED UPTIME CENTERS – A SUCCESS STORY

#### 143 Certified Uptime Centers

- Reduced diagnostic times by an average of 70 %
- Reduced repair times by an average of 21%
- Increased shop efficiency by 24%
- Reduced 'check-in' time by over 40 minutes





### **Uptime/Connectivity Leadership**

#### VOLVO REMOTE PROGRAMMING AND MACK OVER THE AIR

#### **Updates performed through telematics:**

- Updated software for powertrain components
- Revised vehicle parameters for duty cycle optimization

**Customers update based on their schedules** 

Available on all 2018 model year Volvo and Mack trucks





### **Uptime/Connectivity Leadership**

#### VOLVO REMOTE PROGRAMMING AND MACK OVER THE AIR

#### Since October 2017:

- More than 6,000 vehicles
- Performed nearly 600 updates
- Average 23 minutes
- More than 500+ days of downtime saved
- Very positive customer feedback





# The final pieces...







## **Leveraging Financial Services**

**Scott Rafkin** 

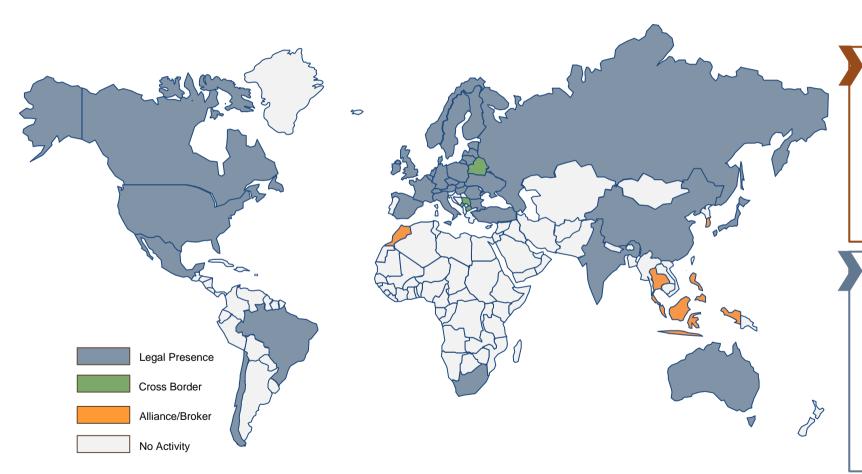
PRESIDENT VOLVO FINANCIAL SERVICES







#### Strong position to support >90% of Group sales



#### **VFS**

- Over 1,400 employees
- Offering financial solutions in 46 countries around the world
- Serving all Volvo Group brands
- Financing approximately 25% of Volvo Group products in markets served

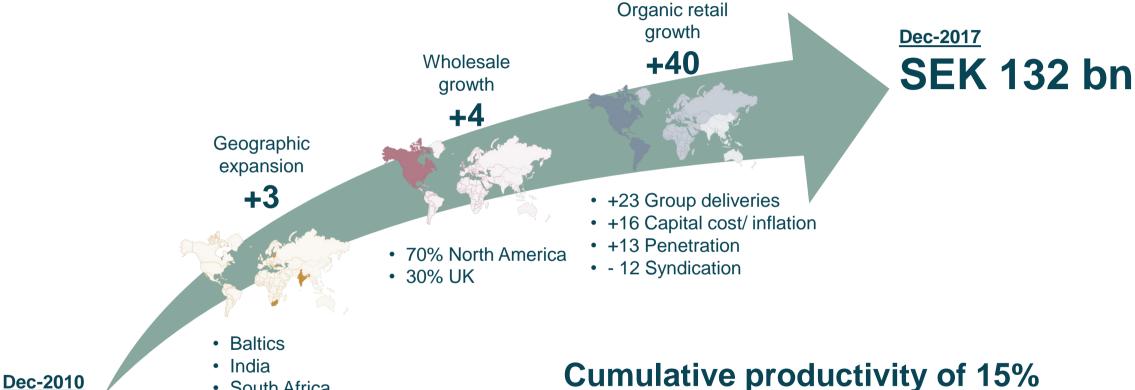
#### Market expansion (past 3 years)

- India (owned)
- South Africa (owned)
- Bulgaria (owned)
- Indonesia (broker)
- Morocco (alliance)
- Philippines (broker)
- South Korea (broker)



#### Good portfolio growth

South Africa



**Cumulative productivity of 15%** 



SEK 85 bn

## Supporting sales with profitable growth



Gross Credit Portfolio (SEK bn) →ROE

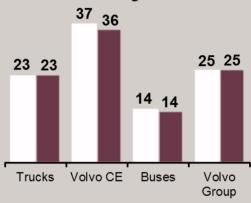


## **Opportunities for improvement**

- Underperforming markets
- Commercial effectiveness
- New markets
- Operational leverage

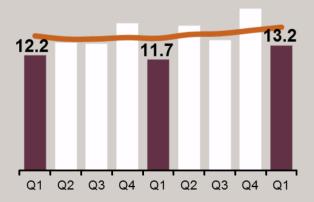
#### PENETRATION RATE, %

12 months moving



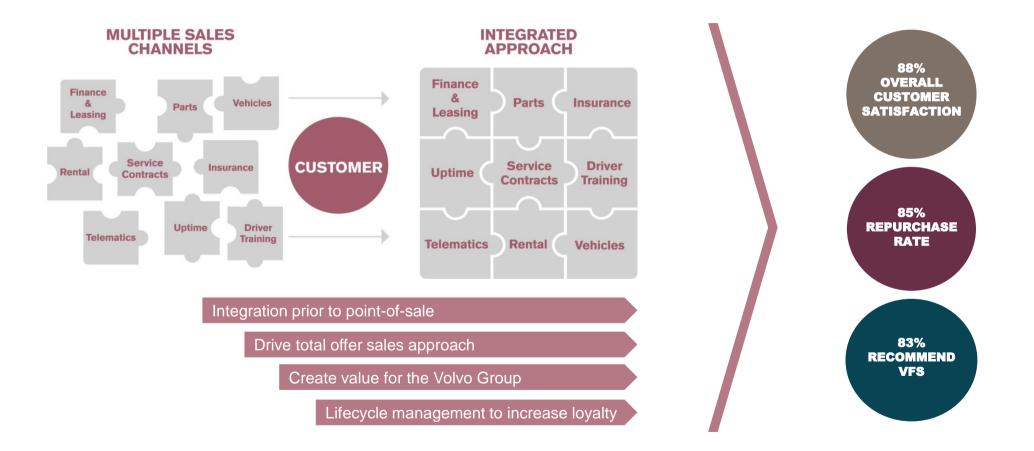
#### **NEW RETAIL FINANCING**

SEK bn — 12 months 59.4 bn





#### Focus on growing services/solutions





# Digital innovation to meet new demands and business models



- Identity management
- Payments
- Property/vehicle history
- Back-office finance & operations

Telematics

- Connected insurance
- Wholesale audits with geo fencing
- Usage-based offers
- · Uptime integration



- Predictive analytics
- Customer service (chatbots)



- WeChat (China)
- Digital marketplace / E-wallet



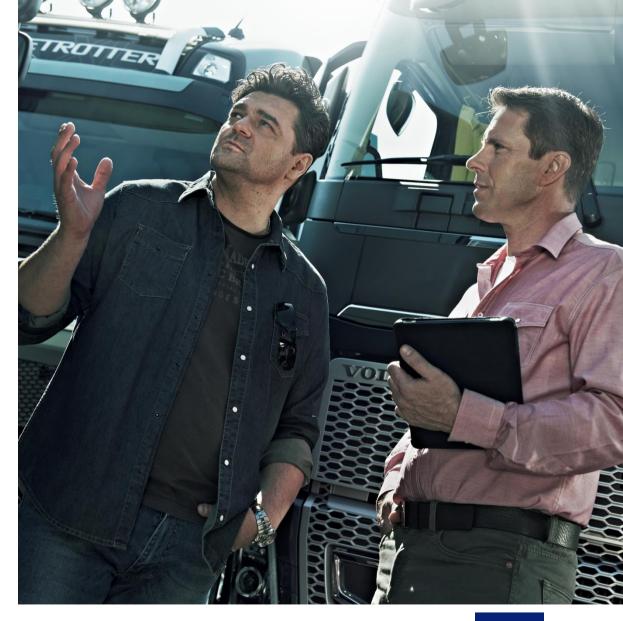
 zApps Fintech partnership





# Leveraging Financial Services

- Center of expertise for solution sales
- Vital to the customer's experience and loyalty towards the Group
- Instrumental in providing solutions for changing customer demands and business models
- Continued focus on profitable growth and commercial performance







## Lead in technology

## **Lars Stenqvist**

CHIEF TECHNOLOGY OFFICER VOLVO GROUP





## New technologies transforming the transport system





## Balancing well-known and new technologies



Mack Anthem Volvo VNL

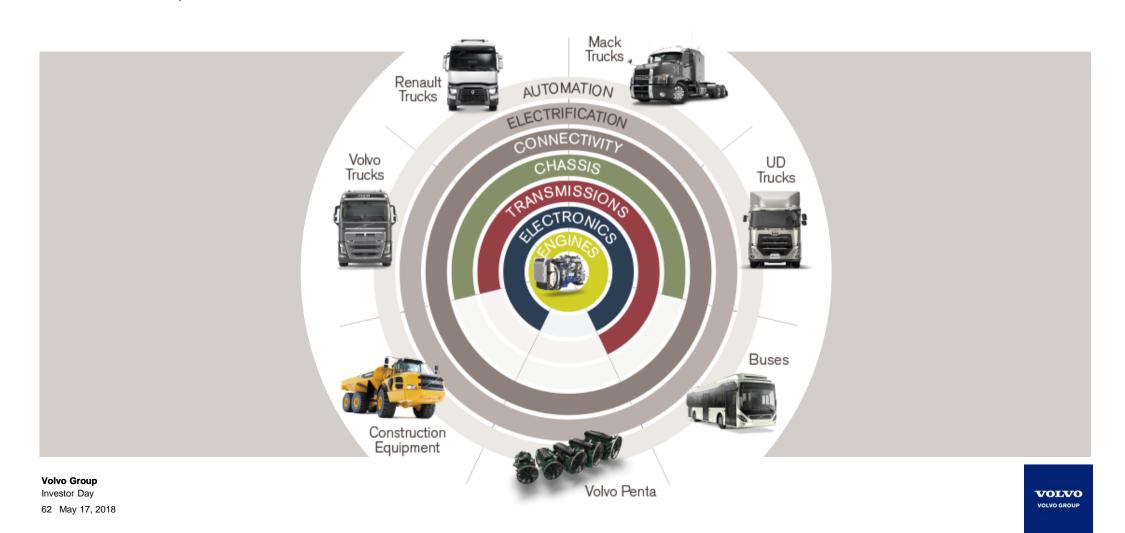
## New technologies transforming the transport system





#### **Common Architecture and Shared Technology**

SOFTWARE, ELECTRICS/ ELECTRONICS ARE KEY FOR NEW TECHNOLOGIES



CONTINUOUS COMMERCIALIZATION OF FULLY ELECTRIC VEHICLES ONGOING















Plug-in hybrid electric vehicles (PHEV)

Hybrid electric vehicles (HEV)







## Meeting customers' demands in various regions and segments



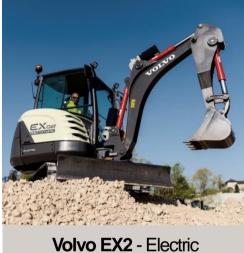




Renault Trucks - Electric



**UD Quon Vision** - Electric





**Volvo FE** - Electric



Mack LR Waste - Electric



**Articulated Volvo Bus** - Electric



Volvo LX1 - Electric



## Modular system serving many segments and applications









#### ELECTRIC MODULAR PLATFORM – HARDWARE AND SOFTWARE

HEV, PHEV, BEV

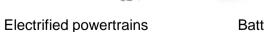














**Batteries** 



Power electronics



Charging components



Electrified auxiliaries



Future interfaces

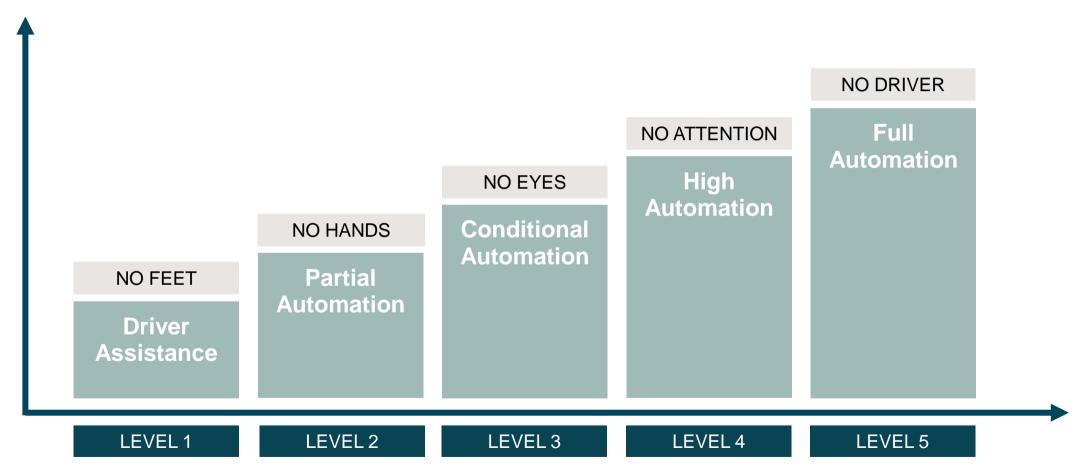


**Partners** 



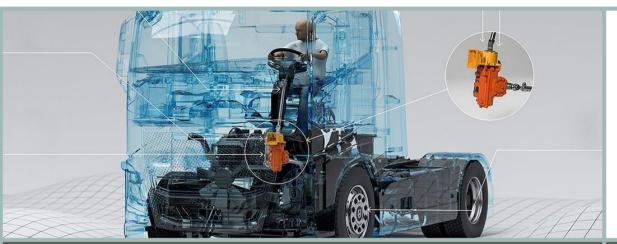
#### Five levels of automation

LEVELS 4-5 ARE THE TRUE GAME CHANGERS IN THE TRANSPORT INDUSTRY





CORNER-STONES FOR AUTOMATION IN PLACE AS COMMERCIALIZED SOLUTIONS





DYNAMIC STEERING

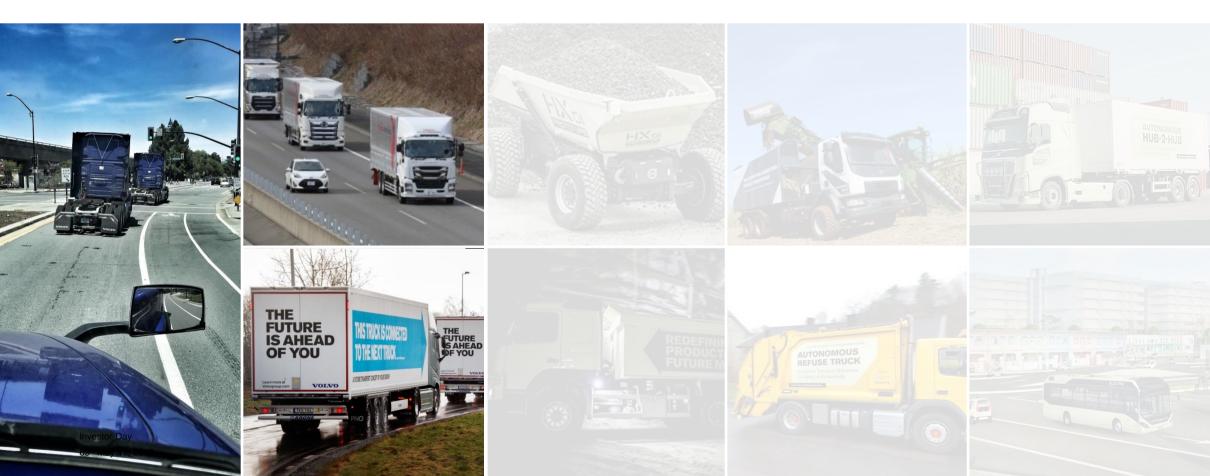


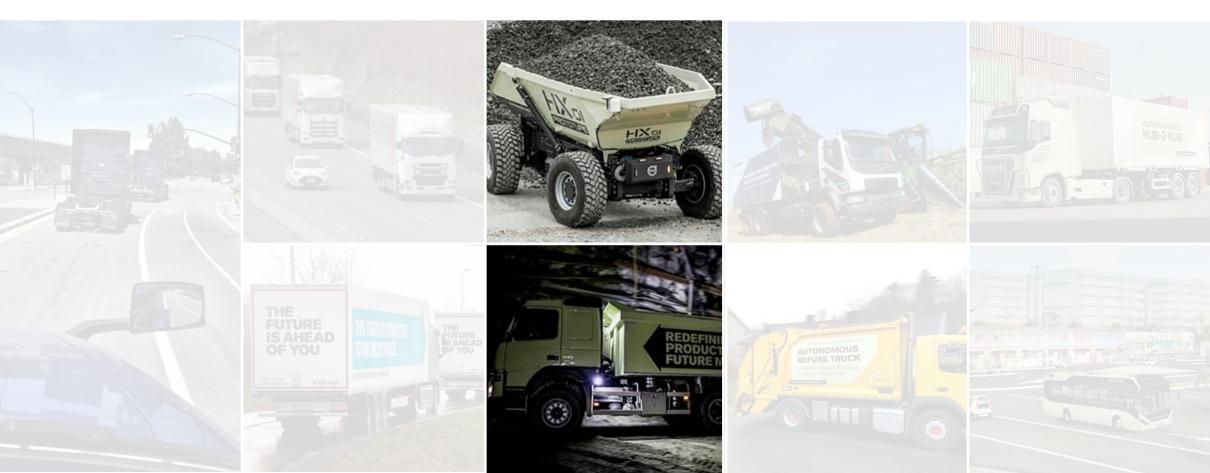
ADAPTIVE CRUISE CONTROL

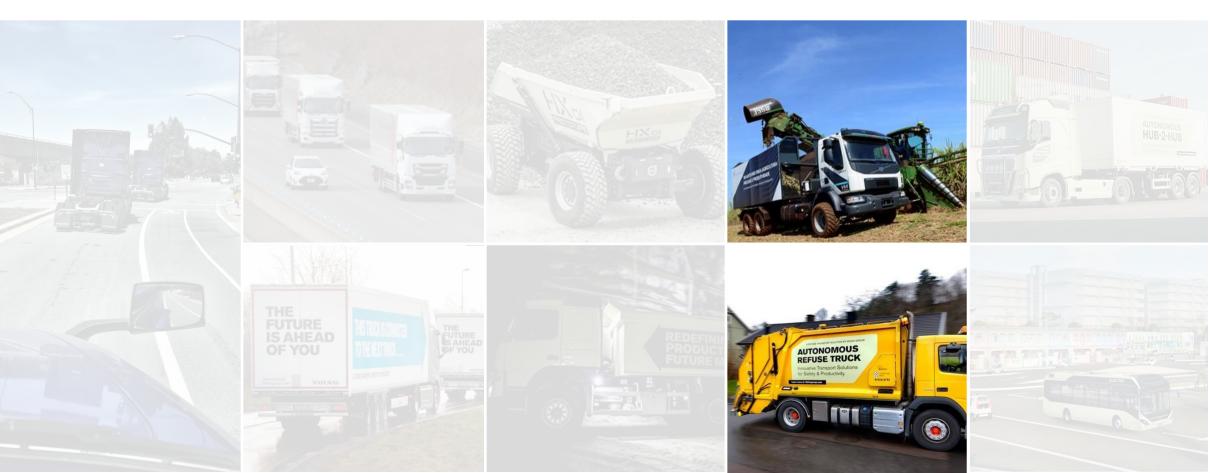
AUTOMATED MANUAL TRANSMISSION

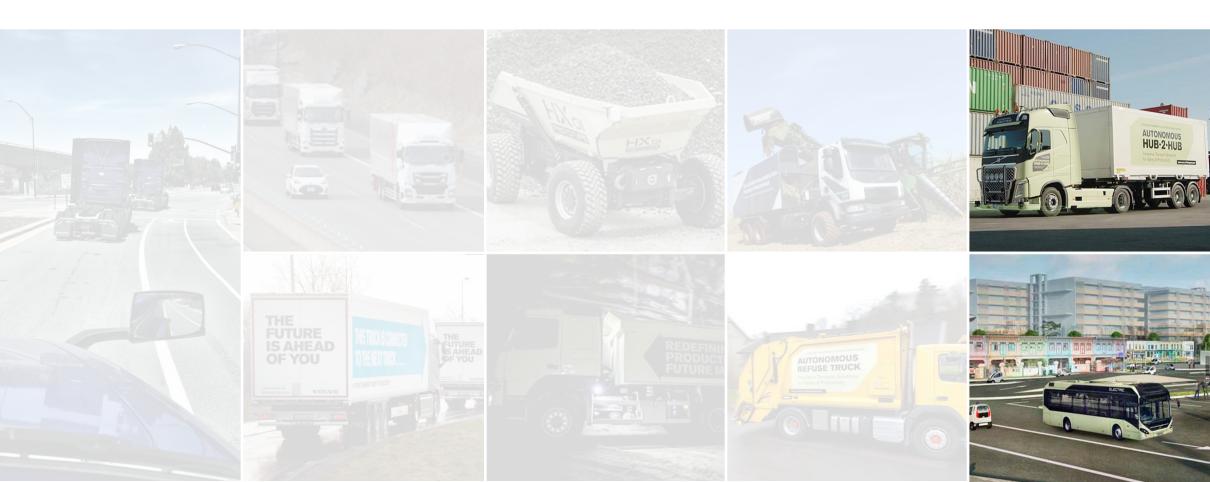
**AUTOMATED EMERGENCY BRAKE SYSTEM** 











## Modular system serving many segments and applications



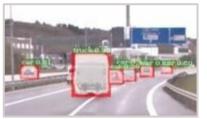






#### VOLVO GROUP AUTOMATION PLATFORM – HARDWARE AND SOFTWARE

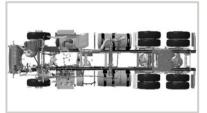












Perception

V2X communication

Cyber security

Fleet & Mission management

Redundant vehicle with automation interface



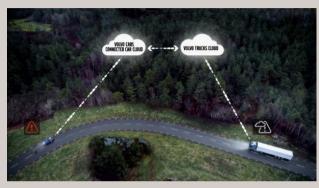
#### CONNECTIVITY

# Connected ecosystem is enabling business opportunities here and now

#### **Example of enabled capabilities:**

- Uptime services
- Vehicle automation
- Vehicle-to-infrastructure communication
- Vehicle-to-vehicle communication

#### **CONNECTED SAFETY**







# Highly efficient and integrated transport system









Volvo HX2 - Autonomous electric hauler



**Volvo FMX** - Autonomous



Volvo EX1 - Electric excavator



Volvo LX1 - Hybrid wheel loader



## **Summary and Q&A**

#### **Martin Lundstedt**

PRESIDENT AND CEO

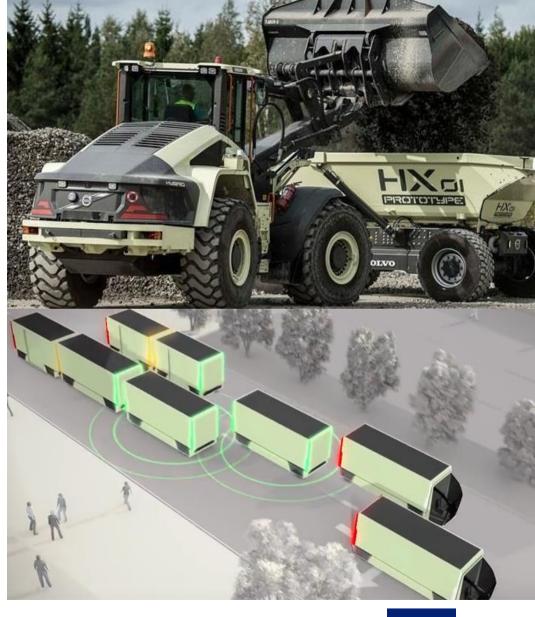






## **Exciting times ahead**

- Growing demand for sustainable transports and infrastructure
- Our strategy serves our customers and other stakeholders well
- Well positioned:
  - Strong assets
  - Well invested
- Still potential with continuous improvements
- Lead in technology and innovation
- Growing solution-based business





77 May 17, 2018

#### **QUESTIONS AND ANSWERS**

Growing demand for sustainable transports and infrastructure

Well invested with strong assets to build on

Improving financial performance

Improving operational performance

Building a strong North American truck business

Leveraging Financial Services

Lead in technology





