

# Shaping the transformation together.

# **Volkswagen Group**

Volkswagen AG / Volkswagen Financial Services Investor Roadshow, Tokyo, November 2018



#### Disclaimer

The following presentations contain forward-looking statements and information on the business development of the Volkswagen Group. These statements may be spoken or written and can be recognized by terms such as "expects", "anticipates", "intends", "plans", "believes", "seeks", "estimates", "will" or words with similar meaning. These statements are based on assumptions, which we have made on the basis of the information available to us and which we consider to be realistic at the time of going to press. These assumptions relate in particular to the development of the economies of individual countries and markets, the regulatory framework and the development of the automotive industry. Therefore the estimates given involve a degree of risk, and the actual developments may differ from those forecast. The Volkswagen Group currently faces additional risks and uncertainty related to pending claims and investigations of Volkswagen Group members in a number of jurisdictions in connection with findings of irregularities relating to exhaust emissions from diesel engines in certain Volkswagen Group vehicles. The degree to which the Volkswagen Group may be negatively affected by these ongoing claims and investigations remains uncertain.

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# Development World Car Market vs. Volkswagen Group Car Deliveries to Customers<sup>1)</sup>

(Growth y-o-y in deliveries to customers, January to September 2018 vs. 2017)













<sup>&</sup>lt;sup>1)</sup> Figures excl. Volkswagen Commercial Vehicles, Scania and MAN.



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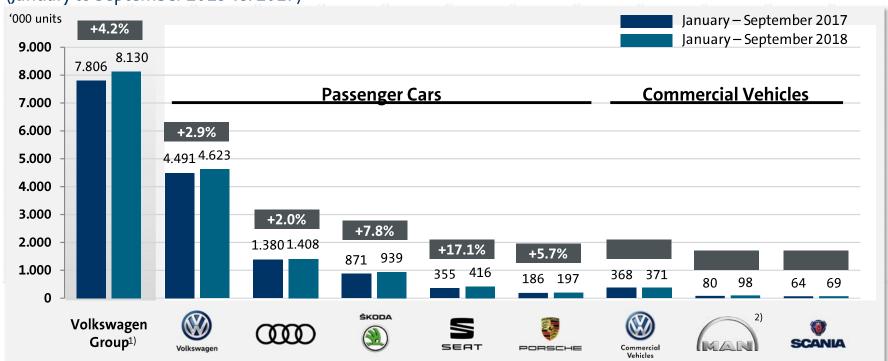
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# **Volkswagen Group – Deliveries to Customers by Brands**



<sup>1)</sup> Incl. all brands of Volkswagen Group (Passenger Cars and Commercial Vehicles); +4.1% excl. Volkswagen Commercial Vehicles, Scania and MAN.

<sup>2)</sup> MAN incl. MAN Latin America Trucks and Busses GVW > 5t.



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# Volkswagen Group - Deliveries to Customers by Markets<sup>1)</sup>



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# **Volkswagen Group – Key Financial Figures**<sup>1)</sup>

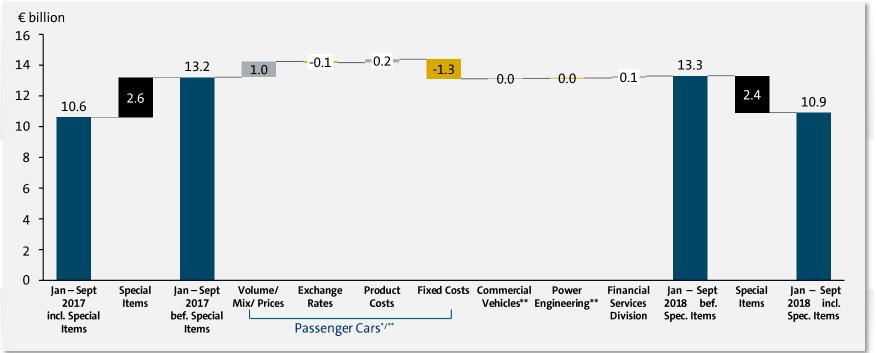
thousand vehicles / € million	2018	2017 <sup>2)</sup>	+/- (%)
Vehicle Sales <sup>3)</sup>	8,123	7,913	+2.7
Sales revenue	174,577	170,065	+2.7
Operating profit before Special Items	13,306	13,231	+0.6
% of sales revenue	7.6	7.8	
Operating profit	10,871	10,636	+2.2
% of sales revenue	6.2	6.3	
Financial result	1,647	-347	х
of which: At-equity result <sup>3)</sup>	2,448	2,378	+2.9
of which: Other financial result	-800	-2,725	+70.6
Profit before tax	12,518	10,290	+21.7
% Return on sales before tax	7.2	6.1	
Profit after tax	9,376	7,543	+24.3

<sup>1)</sup> All figures shown are rounded, so minor discrepancies may arise from addition of these amounts. Including allocation of consolidation adjustments between the Automotive and Financial Services divisions. 2) Prior-year figures were adjusted due to IFRS



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# **Volkswagen Group – Analysis of Operating Profit**1)



<sup>1)</sup> All figures shown are rounded, minor discrepancies may arise from addition of these amounts.") without FS ") including PPA



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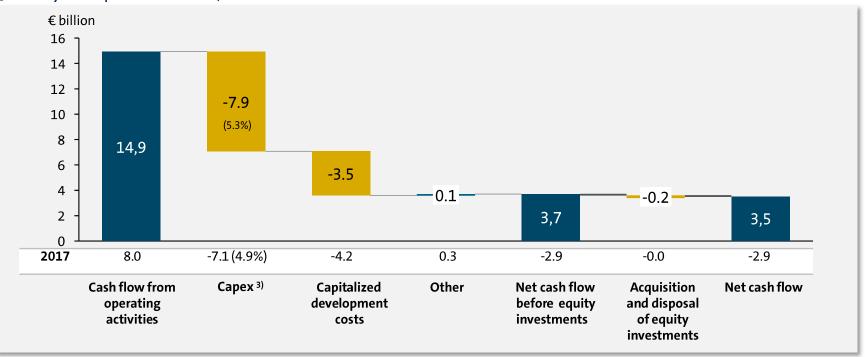
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## **Automotive Division Net Cash Flow Development**<sup>1)2)</sup>

(January to September 2018)



<sup>1)</sup> All figures shown are rounded, minor discrepancies may arise from addition of these amounts. 4) Including allocation of consolidation adjustments between Automotive and Financial Services divisions.

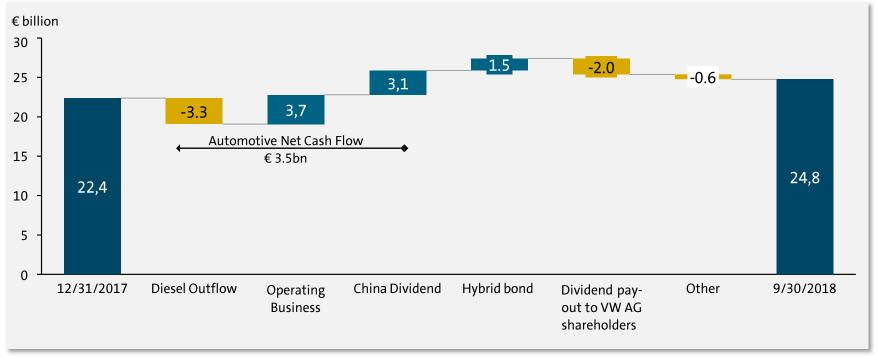
 $<sup>^{3)} \,</sup> Capital expenditure for property, plant and equipment in \, \% \, of \, Automotive sales revenue.$ 



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# Automotive Division – Net Cash Flow drives solid Net Liquidity<sup>1)</sup>

(January to September 2018)



 $<sup>^{1)}</sup> All \ figures \ shown \ are \ rounded, \ minor \ discrepancies \ may \ arise from \ addition \ of \ these \ amounts.$ 



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# Volkswagen Group – Analysis by Business Line<sup>1)</sup>

(January to September 2018 vs. 2017)

thousand vehicles / € million	Vehicle sales Sales revenue			evenue	Operating profit		
	2018	2017	2018	2017 <sup>7)</sup>	2018	2017	
Volkswagen Passenger Cars	2,753	2,632	62,508	58,278	2,330	2,504	
Audi	1,107	1,147	44,257	44,028	3,671	3,941	
ŠKODA	698	700	12,598	12,338	1,083	1,206	
SEAT	462	436	7,744	7,255	237	154	
Bentley	7	7	1,092	1,321	-137	31	
Porsche Automotive <sup>2)</sup>	190	180	17,507	15,703	3,197	2,890	
Volkswagen Commercial Vehicles	337	371	8,572	8,919	628	698	
Scania <sup>3)</sup>	69	65	9,634	9,304	991	947	
MAN Commercial Vehicles	98	80	8,599	7,970	222	269	
MAN Power Engineering	-	-	2,489	2,355	142	107	
VW China 4)	3,021	2,917	-	-	-	-	
Other 5)	-619	-623	-25,059	-21,272	-974	-1,277	
Volkswagen Financial Services	-	-	24,635	23,864	1,915	1,763	
Volkswagen Group before Special Items	-	-	-	-	13,306	13,231	
Special Items	-	-	-	-	-2,435	-2,595	
Volkswagen Group	8,123	7,913	174,577	170,065	10,871	10,636	
Automotive Division 6)	8,123	7,913	148,424	144,754	8,832	8,717	
of which: Passenger Cars	7,625	7,400	119,646	116,642	7,393	7,308	
of which: Commercial Vehicles	498	513	26,289	25,757	1,486	1,484	
of which: Power Engineering	-	-	2,489	2,355	-46	-75	
Financial Services Division	-	-	26,153	25,311	2,039	1,919	

All figures shown are rounded, minor discrepancies may arise from addition of these amounts. 2 Porsche (Automotive and Financial Services): sales revenue € 19,117 (17,12) million, operating profit € 3,329 (3,006) million. 3 Including financial services. 4 The sales revenue and operating profit of the joint venture companies in China are not included in the figures for the companies of the point venture and recorded proportionate operating profit of € 3,330 (3,305) million. 5) in operating profit of € 3,330 (3,305) million. 5) in operating profit of € 3,340 (3,005) million operating profit of € 3,340 (3,005) million. 5) in operating profit of € 3,340 (3,005) mil



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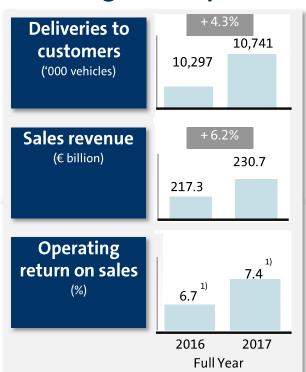
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# Volkswagen Group – Outlook for 2018





#### **Deliveries to customers**

moderately above prior year



#### Sales revenue

by as much as 5% year-on-year



# **Operating return on sales**

between 6.5% to 7.5% before Special Items 2)

<sup>1)</sup> before Special Items. 2) Operating return on sales after Special Items is expected to be moderately below that range.

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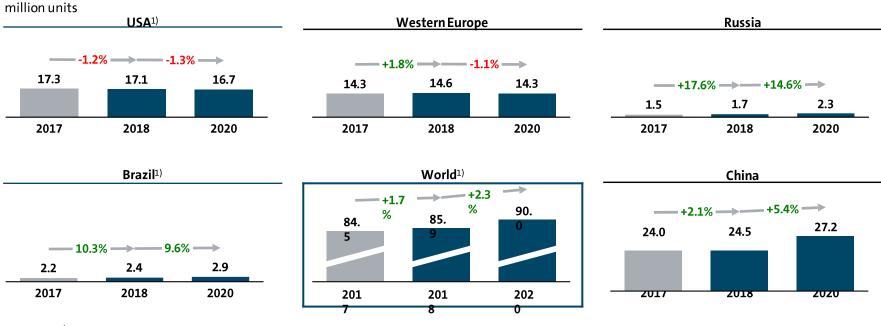
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### Global Passenger Car Market 2017/2018/2020

Slowdown in Western Europe due to falling demand in UK; Stagnation in USA at a high level; Recovery in Brazil and Russia from a low level; China remains largest driver of passenger car demand





Data source: IHS Automotive (10.2018)



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# New and upcoming Premium and Luxury models enhancing our portfolio offer







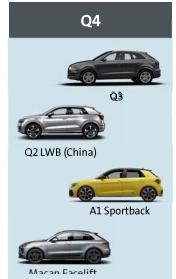














Source: Internal planning.

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# **Strong product momentum continues in Volume segments**

















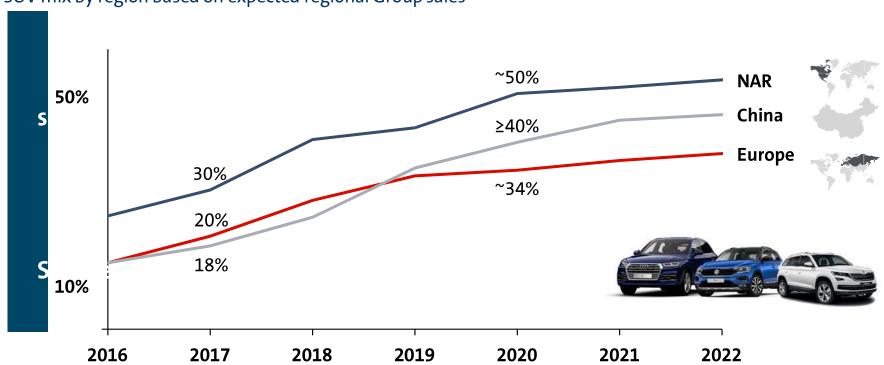




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## **Strong Increase in our SUV mix**

SUV mix by region based on expected regional Group sales



Source: Internal planning. 17



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# WLTP – Worldwide Harmonized Light Vehicles Test Procedure

#### **SCOPE**

- In EU-28 States + 6 countries (Norway, Switzerland, Iceland, Turkey, Israel and Liechtenstein) 1)
- Legally binding registration requirements for all OE W's
- Effects taxation:
  - EU recommendation crossover from Jan. 1, 2019

#### **IMPACT**

- CO<sub>2</sub> / exhaust emissions and fuel consumption figures are calculated under more realistic conditions
- CO<sub>2</sub>-values vehicle-specific and therefore very precise
- Should close tolerances regarding different test conditions





<sup>1)</sup> Different implementation of timelines between countries 2) NEDC: New European Driving Cycle



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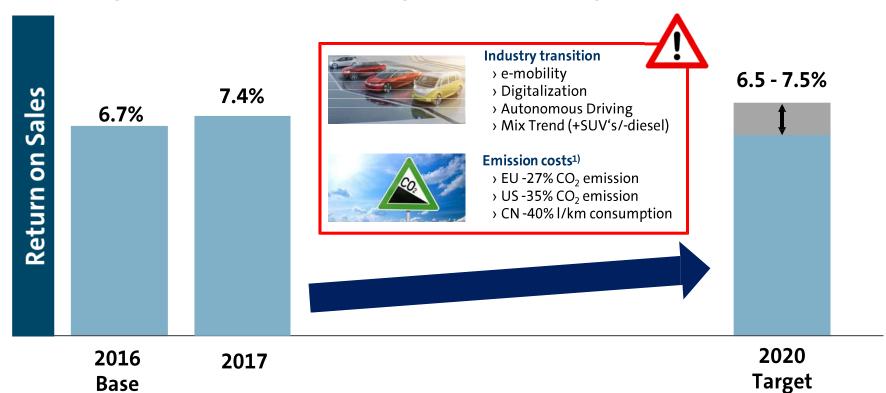
# **Clear Financial Targets and Milestones**<sup>1)</sup>

Key financial targets	2016 Actual	2017 Actual	2018 Outlook	2020 Targets	2025 Targets	
Operating return on sales Before Special Items	6.7%	7.4%	6.5-7.5%	6.5-7.5%	7-8%	
<b>Return on investment</b> Automotive Division <u>before</u> Special Items	13.9%	14.4%	12-14%	13-15%	> 15%	
Capex ratio Automotive Division	6.9%	6.4%	6.5-7%	6%	6%	
<b>R&amp;D cost ratio</b> Automotive Divison	7.3%	6.7%	6.5-7%	6%	6%	
Cash a) Net Cashflow <sup>2)</sup> Automotive Division	€ 7.2 bn	€ 10.1bn	≥ € 9 bn	≥€10 bn	> € 10 bn	
b) Net Liquidity	€ 27.2 bn	€ 22.4 bn	> € 20 bn	> € 20 bn	~10% of Group turnover	

<sup>1)</sup> As of 1st August, 2018. 2) Ex diesel payments; cash outflows of around € 3 bn in 2016, € 16.1bn in 2017 and € 2.6 bn in H1 2018.

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# Improving Group results despite significant challenges<sup>1)</sup>



<sup>1)</sup> Calculation based on 2016 figures.



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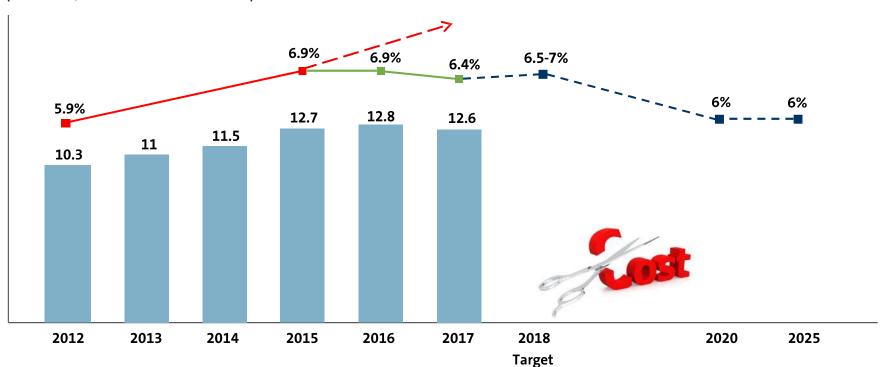
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#### **CAPEX Automotive Division**

(€ billion, as % of sales revenue)





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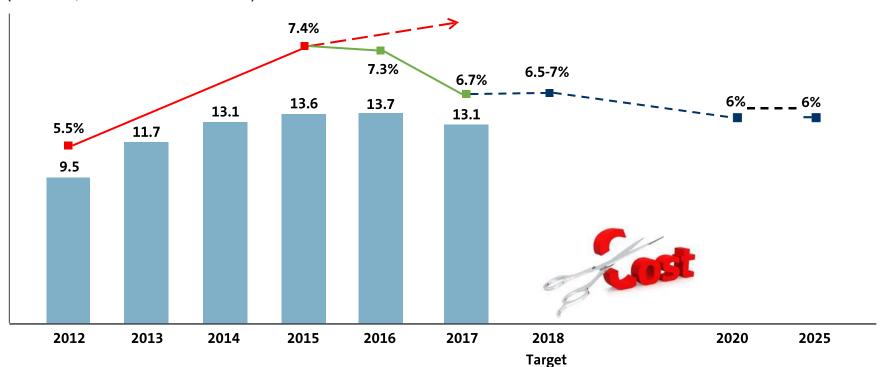
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#### **R&D Costs Automotive Divison**

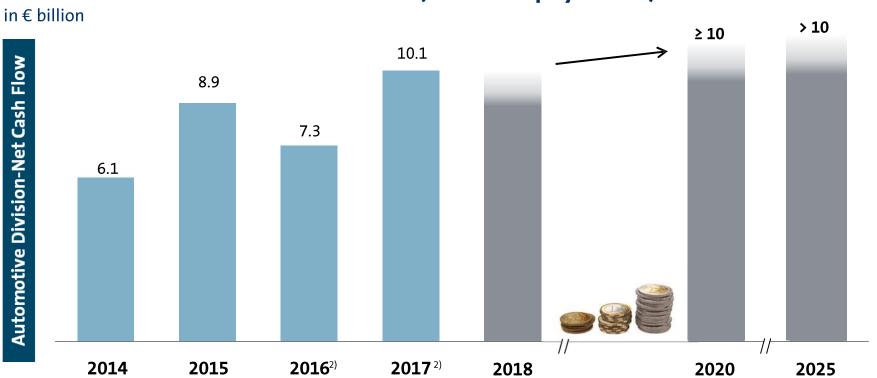
(€ billion, as % of sales revenue)







# Automotive Division-Net Cash Flow (ex Diesel payments)1)

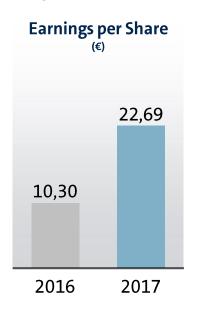


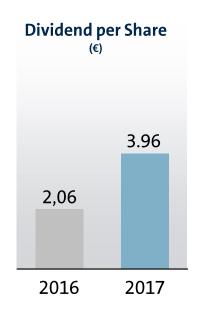
<sup>&</sup>lt;sup>1)</sup> Incl. allocation of consolidation adjustments between Automotive and Financial Services divisions.
<sup>2)</sup> Before around € 3 bn in 2016 and € 16.1 bn in 2017 Diesel related outflow.

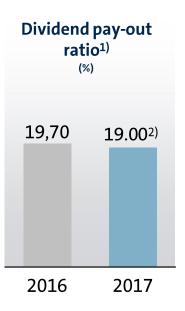




# Volkswagen AG – Attractive Dividend for Preferred Shares; almost doubled<sup>1)</sup>







Target EPS 2020 over € 25

Within current planning round / next 5 years
30% Dividend pay-out ratio1)

<sup>1)</sup> Total dividend in percent of net income attributable to shareholders of Volkswagen AG.

<sup>&</sup>lt;sup>2)</sup> Business year 2017 adjusted for non-recurring effects related to the tax reform in the USA of €1 bn.

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# STRATEGY 2025 – Initiatives at a glance







Develop winning vehicle and drivetrain portfolio



Streamline modular architectures





Partner with regional players to win in economy segment



Develop self-driving system for autonomous vehicles and artificial intelligence in-house



Develop battery technology as new core competency



Develop best-in-class user experience across brands and customer touchpoints

ENHANCE ENTREPRE-**NEURIAL SPIRIT** 



Implement model line organization



Realign "Components" business



Transform core business



**Build mobility** solutions business



Develop and expand attractive and profitable smart mobility offering



Build mobility solutions business



Improve operational excellence



Optimize business portfolio



Secure funding



Drive digital transformation



Create organization 4.0



Strengthen innovation power



Better integrated and strategic planning process



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# The Volkswagen Group is speeding up its transformation with the organizational realignment

Distributed Group Functions	Brand Groups	Subsidiarity		
Group steering	Strong brands	Independence		
Lean and effective Group steering by trans- ferring responsibilities to Group BoM members	Use and develop core competences of each individual brand	Maximum subsidiarity for responsibility at all levels		
Focusing	Synergies	Decision-making		
Group BoM focuses on strategic challenges	Closer cooperation between brands by bundling in brand groups	Efficient decision-making through swifter processing in committees, etc. and use of fewer resources		
"All for one and one for all"	High maturity level	Stability		
Shared goals	More intensive exchange, synchronization and harmonization on strategy issues	Strategy process with clear targets, content and workflows		



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# Creation of Brand Groups will reduce the complexity of the Group structure

Vol	Volume		Premium		Sport & Luxury		c & Bus	Procurement/ Components	Finance & IT	China
vw	Volkswagen	Audi	0000	Porsche	PORSCHE	MAN	MAN	Procurement	VOLKSWAGEN FINANCIAL SERVICES THE KEY TO MOBILITY	Region China
Škoda	ŠKODA	Lamborg	hini* 🕡	Bentley	BENTLEY	Scania	SCANIA	Components**		
SEAT	SEAT	Ducati*	DUCATI	Bugatti	BUGATTI	Power Enginee	ring*			
VW LCV	Commercial Vehicles									
MOIA	WOIV									

<sup>\*</sup> Allocation will be verified

<sup>\*\*</sup> Temporarily responsibility of Group CEO, will be a combined Board of Management function

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# Focus on strategy: Resolutely making progress toward sustainable mobility





Efficient combustion engines and alternative drives



Battery technology



Charging infrastructure



E-mobility



Mobility services



Self-driving system (SDS)

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# Paving the way for sustainable mobility

Up to the end of <u>2022</u>: We will be putting more than €34 bn into e-mobility, digitalization, autonomous driving and mobility services – thereof in 2018: €6.6 bn

Up to the end of <u>2022</u>: Volkswagen Group and its **joint-venture partners in China** will be making around **€15 bn** available for e-mobility, autonomous driving, digitalization and new mobility services.

Also putting more than €90 bn into the conventional vehicle and drive portfolio — thereof in 2018: €19.8 bn









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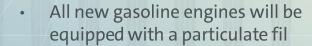
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# Efficient combustion engines and alternative powertrains play a major role for the future of sustainable mobility

 Significant improvements in consumption and emissions of gasoline engines





- The latest Euro 6 diesel engines deliver above-average performance in the new WLTP¹) cycle
- Significantly expanding the range of CNG<sup>2)</sup> vehicles
- Working on synthetic fuels produced from renewable sources

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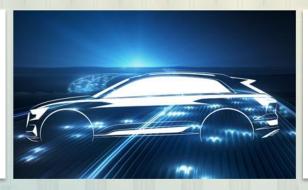
# **Responsibilities for Electric Toolkit Architecture**

#### **PPE**

Premium Platform Electric







- Common modules and scale effects save up to 30% development costs (compared to brand excl. developments)
- Flexibility: Architecture open for other brands to be used in the future

#### MEB Modular Electrification Kit





- Economies of scale from use of MEB across entire Group
- Higher productivity and shorter manufacturing time
- Lower material and distribution costs

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# Audi e-tron and Porsche Taycan will change the premium electric game











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# The Volkswagen Brand's I.D. family sets the new BEV benchmark in the volume segment



Market launch early 2020 and onwards.

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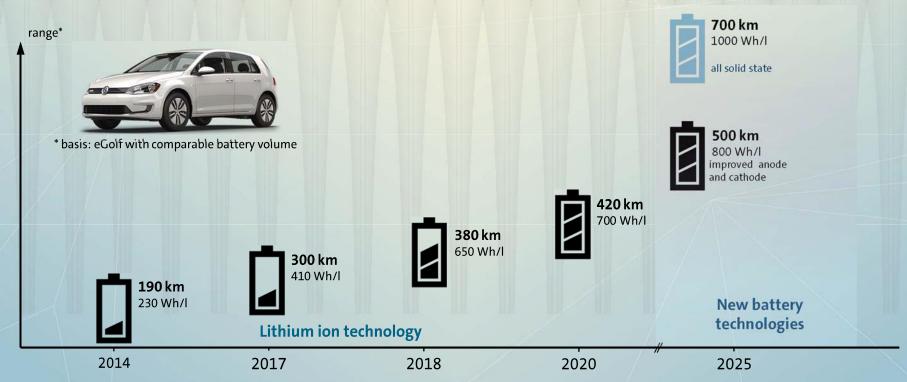
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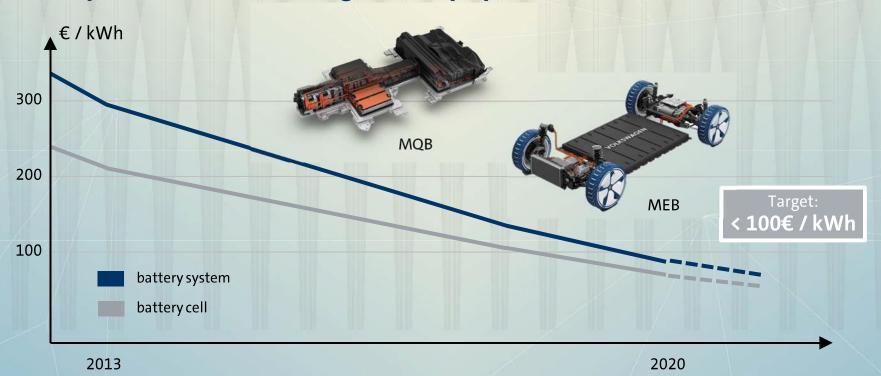
# Advances in battery technology will improve range, weight and costs





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# Battery costs will decrease significantly by 2020



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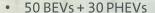
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# Roadmap E - E-mobility model offensive of the Volkswagen Group





 2-3m expected units or 20–25% Group sales intended to be purely batterypowered



Own e-fleet requirements over 150 GWh of battery capacity

 MEB: € 50 bn battery cell procurement volume up to 2025, of which € 40 bn has already been awarded to suppliers

2025

2030



At least one electrified version for each of the Group's 300 or so models

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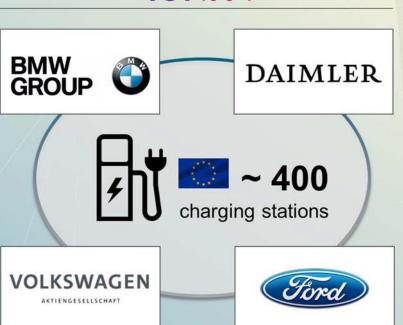
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# Launch of Pan-European High-Power Charging Network IONITY<sup>1)</sup>

## IONITY



- Joint Venture of automotive manufacturers enables electric mobility on long-distance journeys
- Building of a High-Power-Charging (HPC) Network for electric vehicles starts operation
- 20 stations in multiple European countries started in 2017
- IONITY will implement and operate about 400 fast charging stations across European major thoroughfares until 2020
- A charging capacity of up to 350 kW enables to reduce charging time significantly when compared to existing systems
- Multi-brand compatibility with current and future generations of electric vehicles through Combined Charging System (CCS)

<sup>1)</sup> The founding partners, BMW Group, Daimler AG, Ford Motor Company and the Volkswagen Group, have equal shares in the joint venture, while other automotive manufacturers are invited to help expand the network.



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# **Electrify America - Powering electric mobility**

Investment of \$2 billion over 10 years in Zero Emission Vehicle (ZEV) infrastructure and education programs in the U.S.

1st cycle:
We will establish a
network of ~4.700+ non-proprietary
electric vehicle chargers in 17 metros and
on highways in 39 states

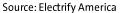
Open network for all (even group external) OEMs and business partners



Station chargers will be extremely powerful, capable of delivering 150 kW or 350 kW to vehicles

Highway sites every 70 miles on average, but no more than 120 miles apart, so shorter range ZEVs available today will be able to use this network

Public access for all ZEV drivers will be ensured through multiple technologies (Level 2 and DC fast charging: CCS Combo and Chademo connectors)





Strategy

Connected to backend

**Customized** interior

with high comfort/

# Successful launch of MOIA Shuttle at end of 2017, customers show a high demand for this alternative form of mobility



Prepared for Shadow/ security driver mode



MOIA branded



Unique recognizable design



<6 m

<3,5t



App-based ride pooling service 6 passenger seats with high privacy



Electric door concept



**BEV** with > 300 km real range

- Test phase in Hanover with **2,000 users** under way
- Project start in Hamburg at end-2018: fleet will be expanded to 200 vehicles in the first phase
- Further cities planned

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## Intensified efforts to develop autonomous vehicles

**Autonomous Audi TTS** "Shelley" climbs Pikes Peak



**SEDRIC** is Volkswagen Group's first Level 5 vehicle



2017

Strategic partnership with Aurora

AURORA

Urban Shuttle/Carrier/Pod



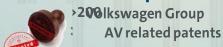
2021+

2005

"Stanley" Winner Darpa



2010



Foundation AID GmbH



2018

**MOIA Battery Electric Special Purpose Shuttle** 



**Personal Autonomous Vehicles** 



Deliverie

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# Driving forward Strategy 2025: Implementation is accelerating I

**ROADMAP E** launched



Center of Excellence for battery technology established



Joint ven <sup>t</sup>ure for rapid charging <sup>r</sup>ietwork in place







Joint venture with JAC created for e-mobility



Roadmap =



STRATEGY 2025

MOIA pilot started and shuttle presented





New technology partnerships agreed





Realignment of Group Components approved



**Positioning of Group brands** sharpened



**Board Digitalization Committee** established



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# **Driving forward Strategy 2025: Implementation is accelerating II**

Autonomy for Truck & Bus making good progress

TRATON

G R O U P

**Product & technology offensive in China** agreed





**Volkswagen Components** becomes independent entity from January 2019



Components



Fuel cell technology partnership agreed



**Strategic cooperation** in discussion







STRATEGY 2025





INDIA 2.0 project launched







Volkswagen becomes largest shareholder





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# Volkswagen AG and Ford to explore Strategic Alliance, extend Capabilities, strengthen Competitiveness and better serve Customers





#### Volkswagen AG and Ford Motor Company announced a Memorandum of Understanding

# **Explore Strategic Alliance**

Volkswagen AG and Ford are exploring a strategic alliance.

# Extend Capabilities & Better Serve Customers

The companies are investigating several joint projects – including joint development of a range of commercial vehicles to better serve the evolving needs of customers globally.

# Strengthen Competitiveness

Potential projects aim to strengthen each company's competitiveness; the companies will share updates as talks progress.

# **Equity Arrangements** not involved

Volkswagen AG and Ford said any strategic alliance would not involve equity arrangements, including cross ownership stakes.

<sup>1)</sup> As of June 19<sup>th</sup>, 2018.

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# Why our Value Proposition is one of the best in the Industry?

- 1. Unique and Compelling Brands and Products and Scale Potential
- 2. Convincing holistic TOGETHER Strategy 2025 with embedded financial KPI Targets
- 3. Comprehensive E-Strategy
- 4. Optimal Toolkit Infrastructure for conventional and alternative power trains
- 5. We intend to deliver **Self-driving** at the touch of a button and become **Software** leaders
- 6. Upside Potential in Core and Developing Markets
- 7. Lead Position in China
- 8. TRATON Global Champion Potential and clear plan to achieve Capital Market Readiness
- **9. Culture** of willingness to change: agile, innovative and integral backed by committed management and employees
- 10. Priority to work on protecting our **Society** and **Environment** for future generations also focusing on **Sustainable Supplier Relations**

Overarching vision is to become a World-leading Provider of Sustainable Mobility























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# **Overview Brand Targets (RoS, RoE)**

Return on Sales in %1)	<u>2016</u>	<u>Target 2017</u>	<u>2017</u>	<u>Target 2018</u>	2020	2025
Volkswagen Group	6.7	6-7 moderately exceed	7.4	6.5-7.5	6.5-7.5	7.0-8.0
Volkswagen Brand	1.8	3-5 moderately exceed	4.1	4-5	4-5	≥6
Audi	8.2	8-10	8.4	8-10	8-10	8-10
Porsche Automotive	17.4	>15	18.5	>15	>15	>15
ŠKODA	8.7	7-8	9.7	8-9	6-7	≥7
Volkswagen Commercial Vehicles	4.1	3-4	7.2	5-6	4-5	>6
Truck & Bus Business <sup>2)</sup>						
• Scania	9.5	6.7	6.0	6.7	<b>~</b> 31	<b>-</b> 21
<ul> <li>MAN Commercial Vehicles</li> </ul>	2.3	6-7	6.9	6-7	93)	<b>9</b> <sup>3)</sup>
Return on Equity (norm. 8%)	<u>2016</u>	<u>Target 2017</u>	<u>2017</u>	<u>Target 2018</u>	<u>2020</u>	<u>2025</u>
Volkswagen Financial Services	15.6%	14-16%	15.8%	14-16%	14-16%	20%

<sup>1)</sup> Before special items. 2) For peer-group analysis: Truck & Bus Business RoS is calculated as the sum of Scania and MAN Commercial Vehicles. 3) Through-cycle Target.





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# Starting point "TRANSFORM 2025+" STRATEGY will put the Volkswagen Brand to the top of the automotive industry



1) Before special items.





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# **Volkswagen Brand Clear Financial Targets and updated Milestones**

	Forecast 2018	Target 2020
Sales revenue	up to +10 %	-
Operating return on sales	4–5 %	4–5 %
Capex ratio	4–5 %	4–5 %
R&D ratio	~4 %	4 %
Free cash flow	Positive operating cash flow <sup>1)</sup>	> € 1 bn

<sup>1)</sup> Before special items.





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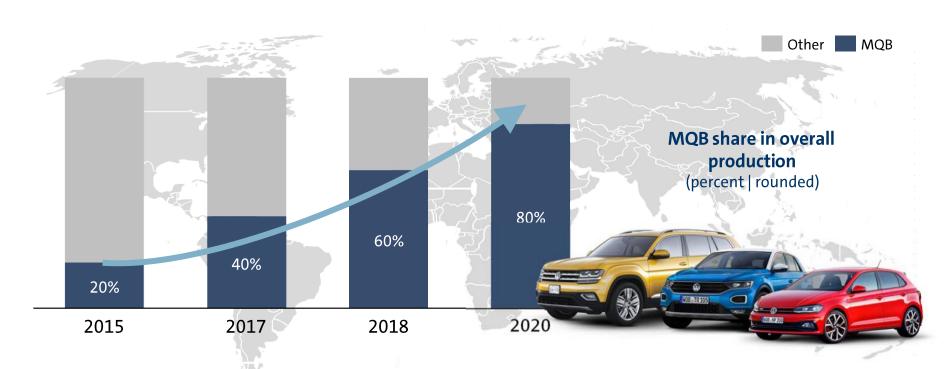
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# Further roll-out of MQB offers substantial benefits for Volkswagen Brand





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# Increase in competitiveness and safeguarding the future are the focus points of the Future Pact agreement

# Working Group 1 Production

- Increase of productivity by 25%
- Reduction of plant costs

# Working Group 2 Components

- Increase of productivity by 25%
- Discontinuation of unprofitable products

# Working Group 3 Technical Development

- Reduction of hardware-oriented development work
- Increased efficiency in development processes
- Working Group 4
  Administration
- Reduction of bureaucracy

#### Secure the Future

- 4 additional models:
   2 conventional and 2 MFB vehicles
- Investments in:
  - Electric drive trains
  - Pilot facility battery cell
  - Battery system
- Competency/capacity increase in autonomous driving, electrification, connectivity etc.
- Creation of employment in new business segments

Reduction in workforce based on demographic curve<sup>1)</sup>

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# Core challenges in the commercial vehicle industry

#### Cyclical markets



Strong correlation to GDP in developed world Not all regions hit by economic downturns at the same time

# Further globalization



The megatrend of globalization has a direct influence on future developments in freight transportation and the commercial vehicle industry

# Emission regulations



Europe with aggressive regulations, focus shifting to e-mobility and alternative fuels

Emerging Markets also have ambitious roadmap

# Connectivity & digitalization



Platooning and partly-autonomous driving as transition solutions

Data management for customers and traffic of broad interest (e.g. RIO for digital solutions)

After sales and future business models



After sales increasingly important as alternative source of revenues Future business models (e.g. connectivity, clean driving) to actively shape the future of transportation





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# **Shaping the future of the Commercial Vehicles business**









#### **Global Champion strategy**

- Striving to become a Global Champion of the truck and transport services industry.
- Further expanding brands' presence and utilizing strong network of strategic partners to access all major profit pools.
- Aiming to realize significant synergies through cooperation between TRATON's brands and strategic partners (e.g. Navistar in the USA, Sinotruk in China, Hino Motors in Japan and Asia).
- Goal is to become an industry leader in terms of profitability.
- Future business model: develop solutions for future transportation (in such areas as autonomous driving, electrification and connectivity).
- RIO, the digital brand, as connectivity environment, coordinating partner services within the Group.

#### **Project "Next Level"**

- Further increase the company's matureness, efficiency and innovativeness.
- Achievement of capital market readiness: meet technical and structural requirements of the capital market.
- Changed name and legal structure from Volkswagen Truck & Bus GmbH to TRATON AG and in a second step into a Societas Europaea (SE).
- Focus on Commercial Vehicles. Agreement on the sale<sup>1)</sup> of MAN SE's stake in MAN Energy Solutions SE and RENK AG to subsidiary of VW AG.
- IPO is just one of several options. Dependent on the market environment and economic conditions.
- Final decision of higher regional court (Oberlandesgericht) in appraisal proceeding to MAN SE regarding DPLTA<sup>2</sup>). In addition DPLTA has been terminated with effect as of January 1, 2019.

<sup>1)</sup> Sale is intended to be completed by year-end 2018. 2) Domination and Profit and Loss Transfer Agreement between MAN SE and TRATON AG.



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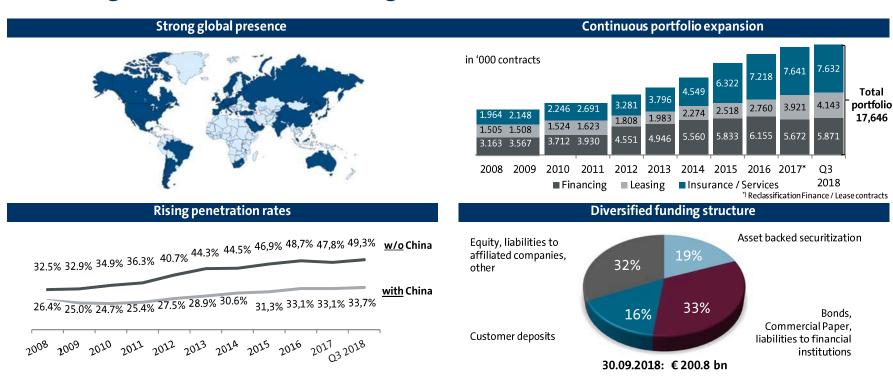
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## Volkswagen Financial Services<sup>1)</sup>: global, well diversified and successful



<sup>1)</sup> Excl. activities of Scania and Porsche Holding Salzburg; incl. Financial Services of Porsche AG and MAN Financial Services.





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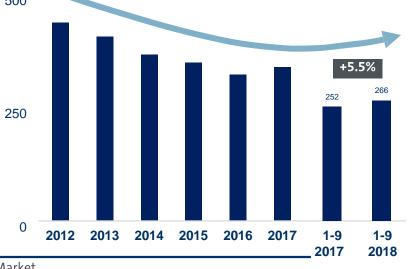
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SUV offensive #2

# Volkswagen Brand – Turnaround in the US with new products from 2017

onwards

Deliveries to US customers, '000' units
500



Market Share % 3.0 2.6 2.2 2.0 1.8 2.0



SUV offensive #1



**New Sedans** 





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# A product offensive is initiating a new growth phase in South America

#### Product offensive in South America



Polo G

Virtus



#### **Key measures**

- Restructuring: reduce capacities and fixed costs
- Increase productivity, align products to local requirements
- Product offensive, €2.5bn investment
- New brand positioning
- New growth strategy for Latin America





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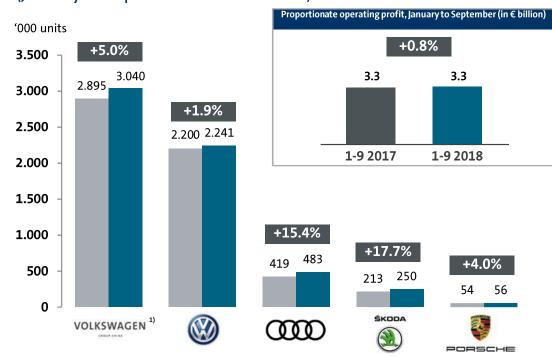
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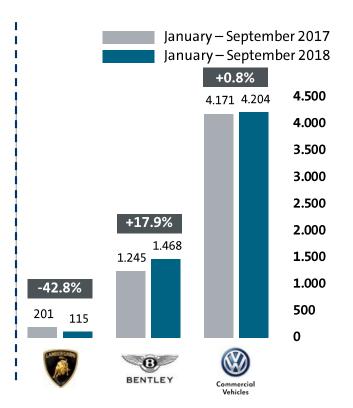
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# **Volkswagen Group China performance**

(January to September 2018 vs. 2017)





<sup>&</sup>lt;sup>1)</sup> Incl. Hong Kong, excl. Ducati. Group numbers incl. Volkswagen Commercial Vehicles, Scania and MAN.





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# Regulatory environment for NEV and Fuel Consumption Credits in China

#### CAFC<sup>1)</sup> and NEV Credit System

- Independent calculation of CAFC<sup>1)</sup> and NEV credits
- Companies need to fulfill both requirements

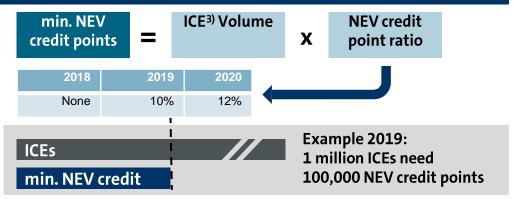
#### CAFC1) Credits:

- Transfer between affiliated companies only
- Credit carry-over to next 3 years with depreciation
- Negative results can be offset by NEV credits (own or free trading in market)

#### **NEV Credits:**

- No transfer from CAFC<sup>1)</sup> credits to NEV credits
- No Carry-over except for year 2016 and 2019
- Free Trading of NEV credits allowed

#### MIIT<sup>2)</sup> for NEV Credit Calculation



#### **NEV Credit Point Attribution per NEV Type**

BEV<sup>4)</sup>: Basic credit = 0.012 x Range + 0.8 (max. 5 basic credits) BEV additional factor for low electric consumption up to 1.2

PHEV<sup>5</sup>): Basic credit = 2 (min. e-Range 50km)

PHEV credit = 1 if e-range 50-80km and consumption under B-Test

≥70% ICE; or e-range ≥ 80km but high electric consumption





Our Markets

# Volkswagen Group China will be prepared to deliver around 1.5 million zero emission cars to Chinese customers by 2025

#### **Introduction of locally produced NEV**

#### Mass market BEV cooperation

#### Phase 1

Plug-in hybrids based on current toolkits

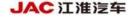














Pure electric vehicles based on current toolkits











#### Phase 3 (start 2020/21)

Pure electric vehicles based on scalable electric toolkit











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## New product offering with an expanded SUV line-up<sup>1)</sup>

#### China deliveries by bodystyle (in '000 units) SUV offensive of Volkswagen Group China **Volkswagen Group 2018** 3 of which are new ≥40% 4,184 models 3,982 Others Touareg T-Roc LWB 18% 14% +32% SUV 6 additional Audi SUVs in the MPV next 2-3 years Hatchback Sedan Q2L **3** new ŠKODA SUVs in 2018 ŠKODA Karoq Kamiq 2016 2017 Target 2020

<sup>1)</sup> Source: IHS. 2) Schematic overview – does not show all models.





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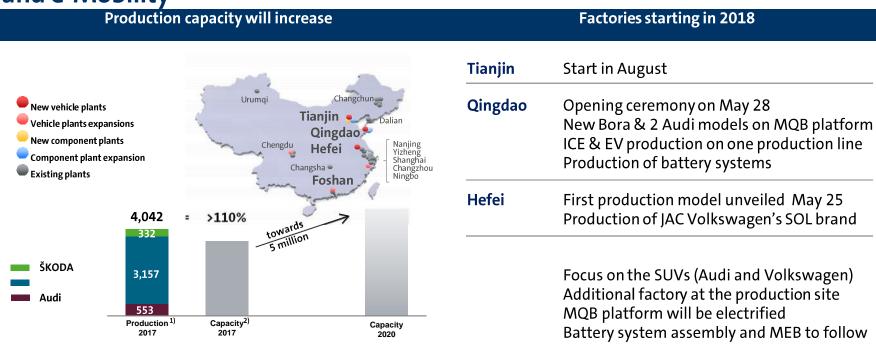
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# Volkswagen Group China opens new factories to strengthen SUV offensive and e-Mobility



<sup>1)</sup> Actual production volume in '000 vehicles 2) Available capacity on the basis of 250 working days.



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# **Special Items: Diesel related and other**

€ (bn)	Diesel		Other		Total
2015	Legal Other items	7.0 9.2 <b>16.2</b>	Restructuring: Truck Business Passenger Cars South America Airbags Takata	0.2 0.2 0.3 <b>0.7</b>	16.9
2016	Mainly legal risks	6.4	Scania Anti-Trust Proceedings Others	0.4 0.7 <b>1.1</b>	7.5
2017	Buyback/retrofit program Legal	2.2 1.0 3.2			3.2
2018 Total to date	Legal	2.4 <b>28.2</b>		1.8	30.0

A significant amount of the Diesel Dollar-related provisions are hedged and a further substantial amount of the provisions have been utilized. Cash outflows of around € 3 bn in 2016, € 16.1 bn in 2017 and € 3.3 bn in Q1-Q3 2018.



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# Resolving the diesel crisis: Substantial progress in all markets











#### Worldwide recall/service campaigns driven forward:

Software Flashes in Germany currently 96% complete; Substantial progress also in Europe (77%) and worldwide (71%)

#### Major progress in modifications in North America:

Around 90 percent of the 2.0l and 3.0l TDI vehicles affected in the U.S. have already been retrofitted, bought back, or otherwise remediated (as of June 2018)

We have reached the targets set by EPA and Carb for the 2.0L settlement and are on track to achieve the targets in the 3.0L settlement within the specified timeframe.

# Group environmental incentive made significant contribution to improving air quality in German cities:

More than 240,000 customers decided to switch to environmentally friendly vehicles (terminated by 30.06.2018)

#### **Electrify America underway:**

Investment plan for zero emissions vehicles (ZEV) approved by authorities and implementation has already started

#### Timeframe of legal proceedings expected to be long!

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# With "Together4Integrity" we have launched a Group-wide integrity and compliance program

#### **RISK MANAGEMENT**

Ethics and compliance risks are identified, owned, managed and mitigated

#### **SPEAK-UP ENVIRONMENT**

The organization encourages, protects and values the reporting of concerns and suspected wrongdoing

#### **STRATEGY**

Ethics and compliance is central to business strategy



#### **CULTURE OF INTEGRITY**

Leaders at all levels across the organization build and sustain a culture of integrity

#### **RESOLUTE ACCOUNTABILITY**

The organization takes action and holds itself accountable when wrongdoing occurs

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## We need to foster and live a new culture

















More **Pikes Peak** instead of **Le Mans** 

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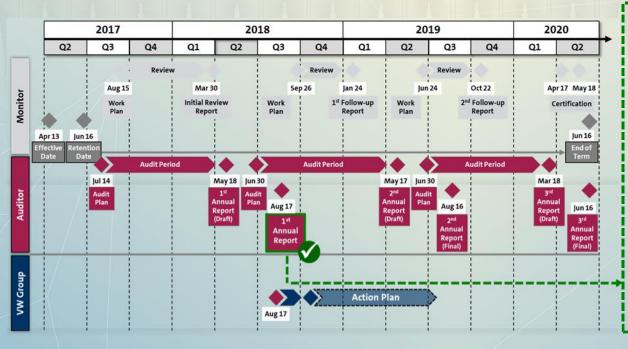
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# Overview of timeline and 1st Monitor Audit-Report



#### Structure

50 pages, 14 chapters+ 1 Appendix



- two violations are referenced
- seven "recommended actions to achieve compliance" with the Consent Decrees are separately embedded

		Volkswagen AG	Audi AG	VW GoA
Audit Date		Nov 2017 Dec 2017 (Wolfsburg)	Nov 2017 Dec 2017 (Ingolstadt)	Dec 2017 (Auburn Hills) Feb 2018 (Oxnard)
Number of Deviations	Minor	3	1	2
	Major	0	0	0
Number of Corrective Ac	tions	3	1	2
Implementat completion	ion	<b>Ø</b>	<b>Ø</b>	<b>Ø</b>

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# Upcoming tasks to master challenges and make use of opportunities



#### Continue to resolve the diesel crisis

- Conclude worldwide recall campaigns and service actions
- Manage legal proceedings worldwide



#### **Improving the Core Business**

- Profitability in NAR / SAM / Russia
- Drive Future Pact Brand Volkswagen further
- Cash Generation and Capex/R&D discipline



#### **Transformation towards more E-Mobility**

- CO<sub>2</sub> Compliance / WLTP implementation
- Profitability of Electric Vehicles
- Governance / Compliance / Culture



#### **Strengthen Innovation Power**

- Digitalization & Connectivity
- Profitable Mobility Services

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#### **Investor Relations Team**

We are pleased to answer your inquiries regarding Volkswagen shares and other capital market related questions.



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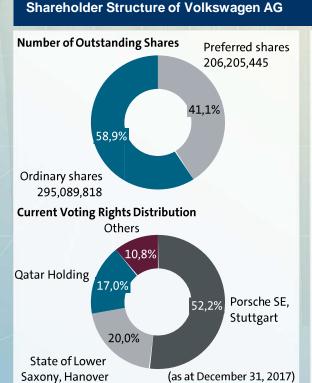
Monika Kowalski (Wolfsburg office) Investor Relations E-Mail: Monika.Kowalski@volkswagen.de Telephone: +49 5361 9 31106

AKTIENGESELLSCHAFT

# Shaping the transformation together.

**Appendix** 

# The Shareholder Structure, Supervisory and Management Board



Chairman	Hans Dieter Pötsch			
Porsche Automobil Holding SE	Dr. Louise Kiesling Dr. jur. Hans Michel Piëch Dr. jur. Ferdinand Oliver Porsche Dr. rer. comm. Wolfgang Porsche			
State of Lower Saxony	Dr. Bernd Althusmann Stephan Weil			
Qatar Holding	Dr. Hussain Ali Al Abdulla Dr. Hessa Sultan Al Jaber			
Others	Marianne Heiß			
Works Council	Bernd Osterloh Birgit Dietze Dr. Hans-Peter Fischer Jörg Hofmann Uwe Hück Johan Järvklo Ulrike Jakob Peter Mosch Bertina Murkovic Athanasios Stimoniaris			

**Supervisory Board of Volkswagen AG** 

Chairman of VW AG and VW Passenger Cars brand	Dr. Herbert Diess
Porsche AG	 Dr. Oliver Blume
China	Prof. Dr. rer. pol. DrIng. E. h. Jochem Heizmann
Human Resources	Gunnar Kilian
TRATON Group and Power Engineering	Andreas Renschler
Audi AG (interim)	Abraham Schot
Integrity and Legal Affairs	Hiltrud Dorothea Werner
Finance and IT	Frank Witter
Components and Procurement	Dr. Stefan Sommer

Board of Management of Volkswagen AG1)

<sup>1)</sup> Each Board Member is responsible for one or more functions within the Volkswagen Group. The work of the Board of Management of Volkswagen AG is supported by the boards of the brands and regions as well as by the other group business units and holdings.



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# **Volkswagen Group – Key Credit Ratings**

S&P Global

Moody's

Current Ratings <sup>1)</sup>				
	Long Term	Short Term	Long Term	Short Term
Volkswagen AG	BBB+	A-2	А3	P-2
Volkswagen Financial Services AG	BBB+	A-2	А3	P-2
Volkswagen Bank GmbH*	A-**	A-2	A1**	P-1
Outlook	Stable	(*Negative)	Sta	ble

<sup>1)</sup> as of August 31, 2018

<sup>\*\*</sup>S&P: BBB+ Senior Subordinated Rating; Moody's: A3 Junior Senior Unsecured Rating



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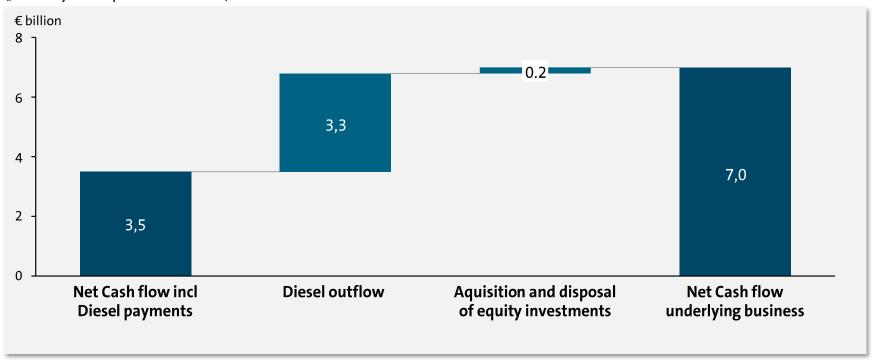
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# Automotive Division Net Cash Flow (ex Diesel payments)1)

(January to September 2018)



<sup>1)</sup> Including allocation of consolidation adjustments between Automotive and Financial Services divisions.



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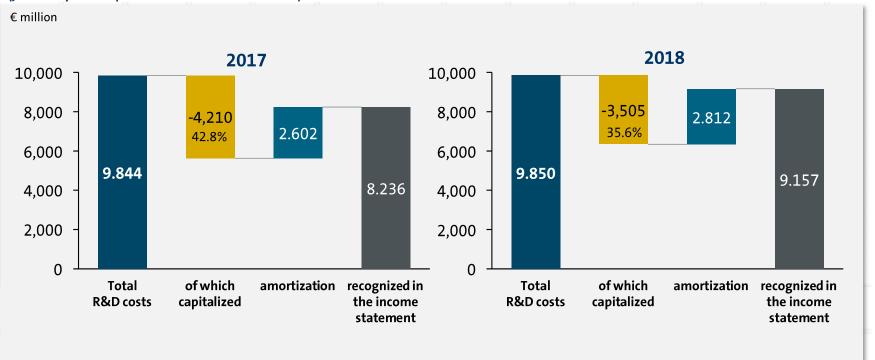
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# **Automotive Division – Research and Development Costs**

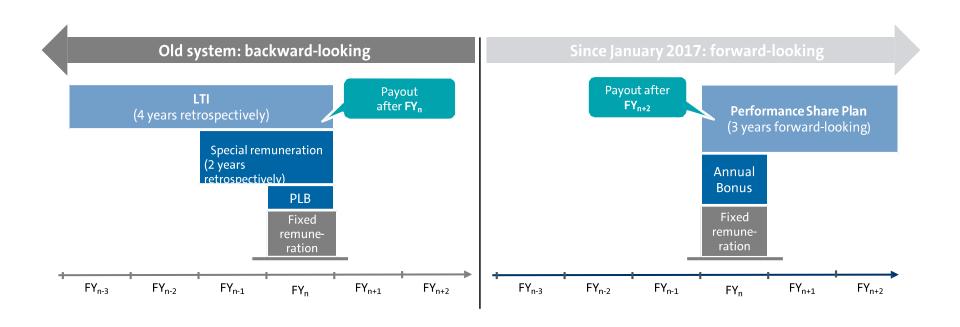
(January to September 2018 vs. 2017)





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# The remuneration system is designed to be completely forward-looking



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#### What's new with WLTP?



more realistic driving behaviour



higher average and maximum speeds



stricter car set-up and measurement conditions



a greater range of driving situations (urban, suburban, main road, motorway)



higher average and maximum drive power



optional equipment: CO<sub>2</sub> values and fuel consumption have to be provided for individual vehicles as built



longer test distances



shorter stops



instead of average values, WLTP can give best and worstcase figures – better representing highly diverging driving styles



more dynamic and representative accelerations and decelerations



more realistic ambient temperatures, closer to the European average



Volkswagen AG

**Lennart Schmidt – Investor Relations Manager** 

Volkswagen Financial Services

Bernd Bode – Head of Group Treasury and Investor Relations

Volkswagen Financial Services Japan Limited

Shuhei Kashimoto - Head of Treasury, Japan, Australia, Korea and Taiwan



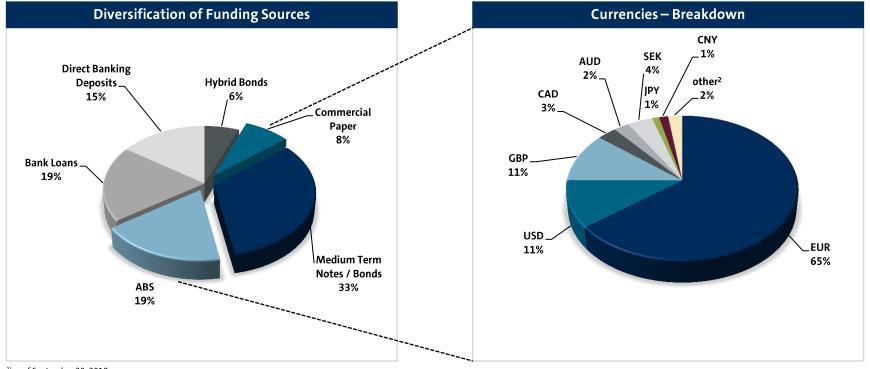
## **Volkswagen Group – Rating Volkswagen AG**

Rating Agency	S&P Global		Moody's
	Long Term	Short Term	Long Term Short Term
20 March 2018	BBB+	A-2	A3 P-2
	Outlookstable		Outlook stable
07 November 2017	BBB+	A-2	A3 P-2
	Outlook stable		Outlook negative
30 June 2015	Α	A-1	A2 P-1
	Outlook stable		Outlook stable

Volkswagen AG | November, 2018



## **Volkswagen Group Funding Strategy – Overview**<sup>1)</sup>



1) as of September 30, 2018

2) BRL, CZK, INR, MXN, NOK, NZD, RUB, TRY



## **Volkswagen Group – Funding Programs & Outstandings**

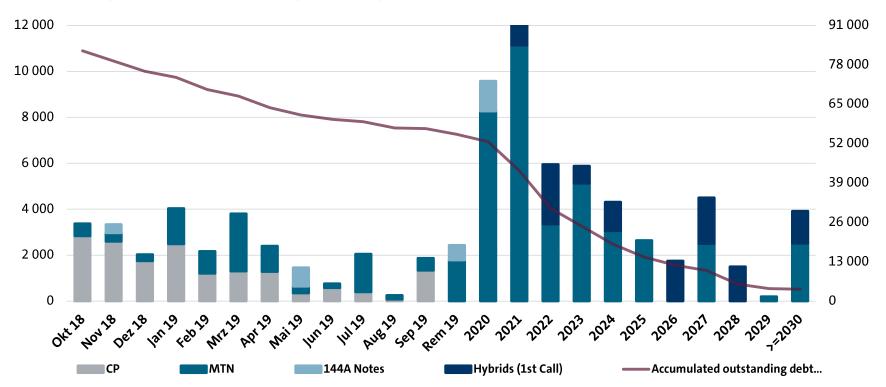
September 30, 2018 in € billion

Money and Capital Markets	Utilization		
Commercial Papers	16.2		
Medium Term Notes / Bonds		66.4	
thereof: Hybrid Bonds	12.5		
ABS	36.8		
Borrowings	Frame		
Committed Lines	18.3		3.2
Uncommitted Lines	26.9		11.3
Supranationals, development banks, government, other	24.2		24.2
Direct Banking Deposits	./.		30.7

Volkswagen AG | November, 2018

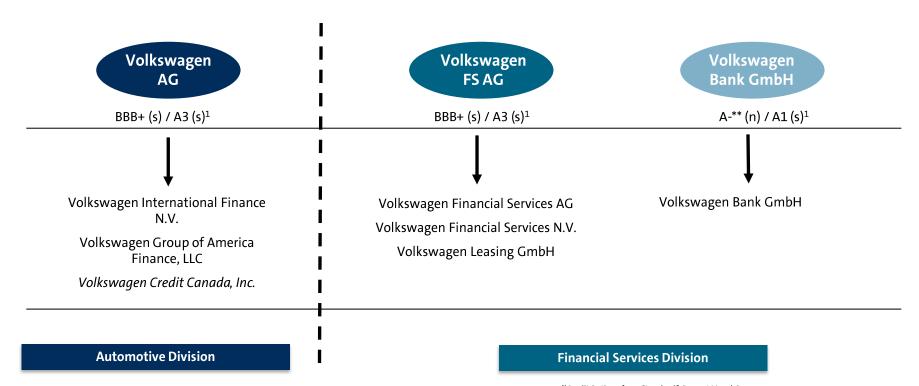


## Volkswagen Group Funding Strategy – Maturity Profile (in € million)<sup>1)</sup>





#### **Volkswagen Group Funding Strategy – Main Guarantors and Issuers**



<sup>1)</sup>Credit Ratings from Standard&Poors / Moody's \*\*) S&P: BBB+ Senior Subordinated Rating; Moody's: A3 Junior Senior Unsecured Rating



#### **Volkswagen Group Funding Strategy – Major Issuances in 2018**

March: CAD 1.50bn Volkswagen Credit Canada, Inc.

April: EUR 2.25bn Volkswagen Financial Services AG

June: EUR 2.00bn Volkswagen Bank GmbH

EUR 2.75bn Volkswagen International Finance N.V. - Hybrid Bond

August: EUR 2.50bn Volkswagen Leasing GmbH

Oktober: EUR 2.60bn Volkswagen Financial Services AG

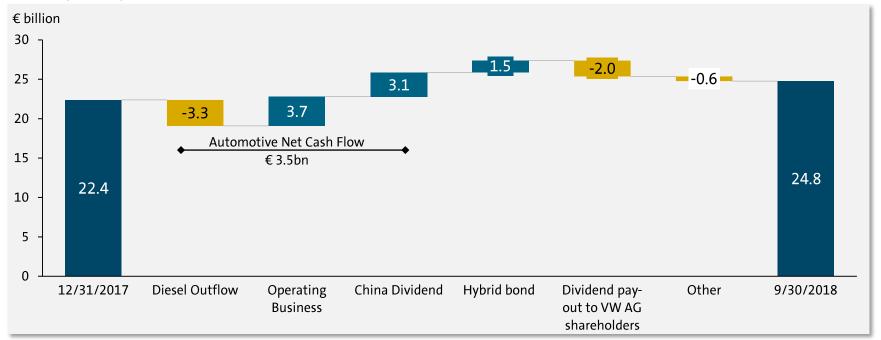
Volkswagen AG | November, 2018



Deliveries Key Financials & Cash Outlook & Operative Strategy Our Brands Our Markets Diesel Integrity & Compliance Commitment

## Automotive Division – Net Cash Flow drives solid Net Liquidity<sup>1)</sup>

(January to September 2018)



<sup>1)</sup> All figures shown are rounded, minor discrepancies may arise from addition of these amounts.

THE KEY TO MOBILITY



# The Key to Mobility Creating Value with Financial Services

Investor Update – Volkswagen Financial Services

THE KEY TO MOBILITY

#### **Disclaimer**

The following presentations contain forward-looking statements and information on the business development of the Volkswagen Group. These statements may be spoken or written and can be recognized by terms such as "expects", "anticipates", "intends", "plans", "believes", "seeks", "estimates", "will" or words with similar meaning. These statements are based on assumptions, which we have made on the basis of the information available to us and which we consider to be realistic at the time of going to press. These assumptions relate in particular to the development of the economies of individual countries and markets, the regulatory framework and the development of the automotive industry. Therefore the estimates given involve a degree of risk, and the actual developments may differ from those forecast. The Volkswagen Group currently faces additional risks and uncertainty related to pending claims and investigations of Volkswagen Group members in a number of jurisdictions in connection with findings of irregularities relating to exhaust emissions from diesel engines in certain Volkswagen Group vehicles. The degree to which the Volkswagen Group may be negatively affected by these ongoing claims and investigations remains uncertain.

Consequently, a negative impact relating to ongoing claims or investigations, any unexpected fall in demand or economic stagnation in our key sales markets, such as in Western Europe (and especially Germany) or in the USA, Brazil or China, will have a corresponding impact on the development of our business. The same applies in the event of a significant shift in current exchange rates in particular relative to the US dollar, sterling, yen, Brazilian real, Chinese renminbi and Czech koruna.

If any of these or other risks occur, or if the assumptions underlying any of these statements prove incorrect, the actual results may significantly differ from those expressed or implied by such statements.

We do not update forward-looking statements retrospectively. Such statements are valid on the date of publication and can be superseded.

This information does not constitute an offer to exchange or sell or an offer to exchange or buy any securities.

Under the brand "Volkswagen Financial Services – the key to mobility" the subsidiaries of Volkswagen Financial Services AG as well as its sister company Volkswagen Bank GmbH render various services under the joint brand "Volkswagen Financial Services". Such services are banking services (through Volkswagen Bank GmbH), leasing services (through Volkswagen Leasing GmbH), insurance services (through Volkswagen Versicherung AG, Volkswagen Autoversicherung AG) as well as mobility services (inter alia through Volkswagen Leasing GmbH). In addition, insurance products of other providers are offered.

## **Volkswagen Group Structure**

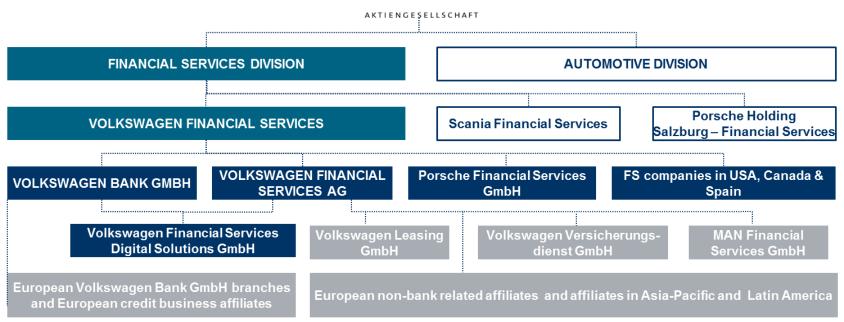
Vol	ume	Prei	mium	Sport 8	Luxury	Truck	c & Bus	Procurement/ Components	Finance & IT	China
vw	Volkswager:	Audi	ത്ത	Porsche	PORSCHE	MAN	MAN	Procurement	VOLKSWAGEN FINANCIAL SERVICES	Region China
Škoda	ŠKODA	Lamborg	ghini*	Bentley	BENTLEY	Scania	SCANIA.	Components**		
SEAT	SERT	Ducati*	DUCATE	Bugatti	BUGATTI	Power Enginee	ring*			
VW LCV	Commercial Vehicles									
MOIA	WOIN									

<sup>\*</sup> Allocation will be verified

<sup>\*\*</sup> Temporarily responsibility of Group CEO, will be a combined Board of Management function

## Volkswagen Group – Group structure of Volkswagen Financial Services

#### **VOLKSWAGEN**



## We offer the whole range of services under one roof\*

#### **Volkswagen Financial Services**

	BANK	LEASING	INSURANCE	_	_	MOBILIT	Y		PAYMENT
Bank	Direct Bank	Leasing	Insurance	Services	Fleet Management	Charge & Fuel	Rental	Parking	Payment
Retail Financing     Wholesale Financing     Factoring	<ul> <li>Deposits</li> <li>Instalment Credit</li> <li>Investment Products</li> </ul>	Finance Lease     Operating     Lease	Motor Insurance     Warranty Insurance     GAP Insurance     Credit Protection Insurance     Industry	Service & Full and Limited Maintenance     Tyres	<ul> <li>Multi-brand capability</li> <li>Reporting</li> <li>Fleet Consulting</li> <li>Telematics</li> <li>LifeCycle Services</li> </ul>	Fuel and Service Cards     Charge & Fuel Card	<ul> <li>Long- term Rental</li> <li>Short-term Rental</li> <li>Micro Rental</li> <li>Car sharing</li> </ul>	Payment for parking space     Services around parking     On- and off-street solution	Payment platform     Mobile Payments     Mobile Wallet

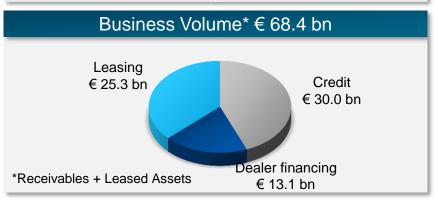
<sup>\*</sup>Displayed portfolio depends on the market; products offered or mediated by different operative subsidiaries.

Frequency of customer contact

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## At a Glance (06/30/2018)

Volkswagen Bank GmbH				
Total assets	€ 84.3 bn			
Equity	€ 11.4 bn			
Customer deposits	€ 33.7 bn			
Operating profit	€ 567 m			
Employees	3,584			
Contracts (units)	5.7 m			

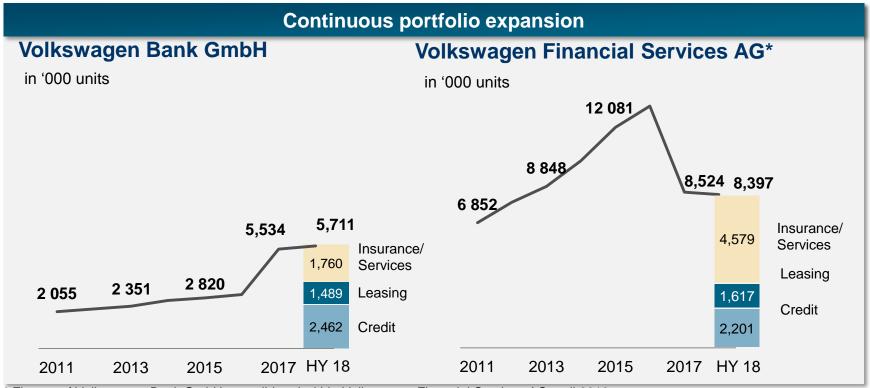


Volkswagen Financial Services AG				
Total assets	€ 73.6 bn			
Equity	€ 8.0 bn			
Customer deposits	68.5 m			
Operating profit	€ 329 m			
Employees	8,449			
Contracts (units)	8.4 m			



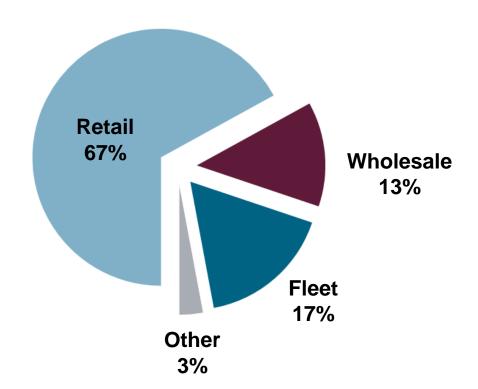
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#### **Contract Portfolio**



<sup>\*</sup> Figures of Volkswagen Bank GmbH consolidated within Volkswagen Financial Services AG until 2016

#### Portfolio Structure VWFS



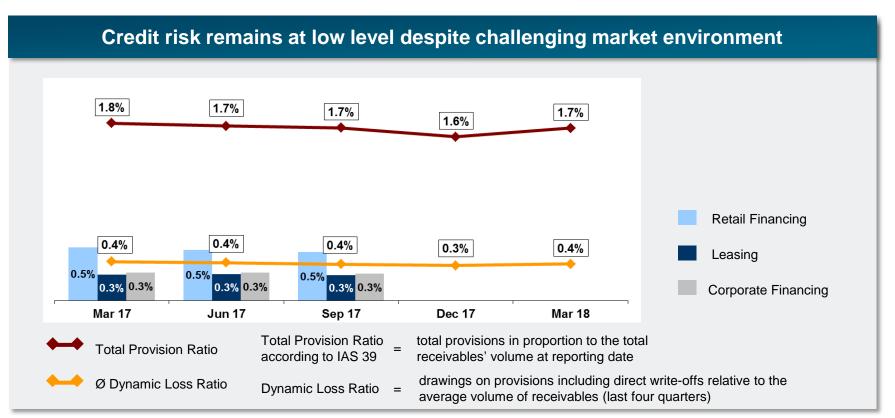
<u>Credit Risk</u> is the predominant risk type whereof the major share is originated from well diversified retail business with a low risk profile.

#### Other relevant risk types:

- Residual Value Risk
- Earning Risk
- Operational Risk
- Marketprice Risk
- Shareholder Risk

as of 12/31/2017

## Volkswagen Financial Services – Credit Risks as of 31.03.2018

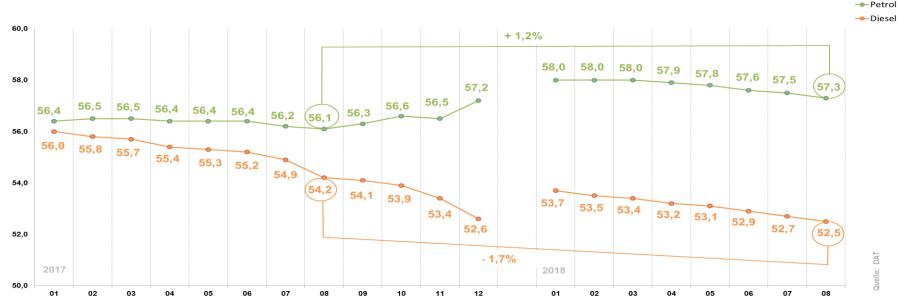


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## Report by Deutsche Automobil Treuhand (August 18)

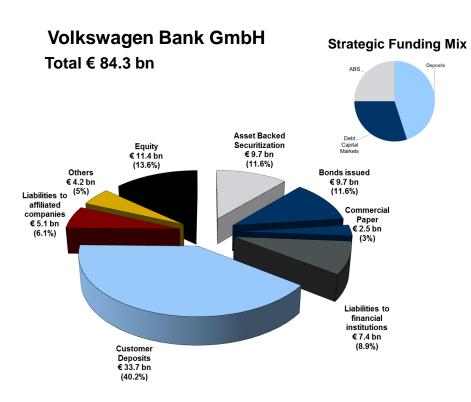
Residual Value Development from list price in %

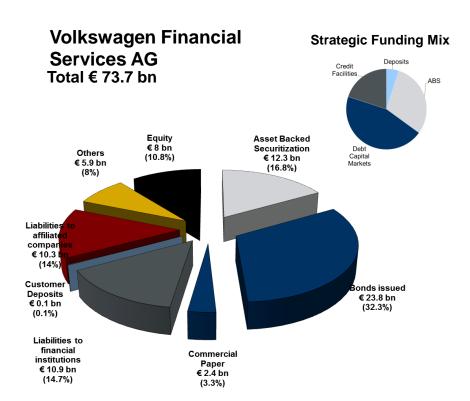
All segments and brands, 3 year old cars, mileage: 15/20k p.a.



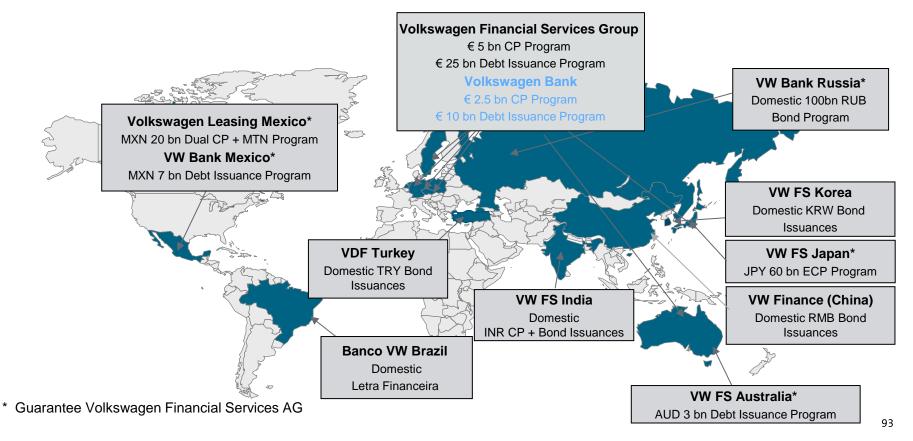
- Generally, Automotive and Financial Services Division are operating "at Arms Length" when setting residual values. Adequate provisioning for our existing portfolio is done on the basis of a regular portfolio assessment.
- All residual value risks are completely covered by provisions and equity according to IAS 36.

## Strategic Funding Allocation as of June 30, 2018



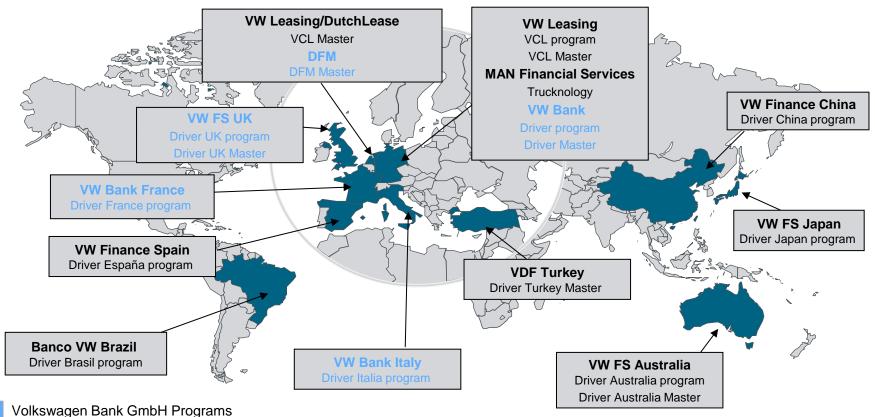


## **Worldwide Capital Market Activities**



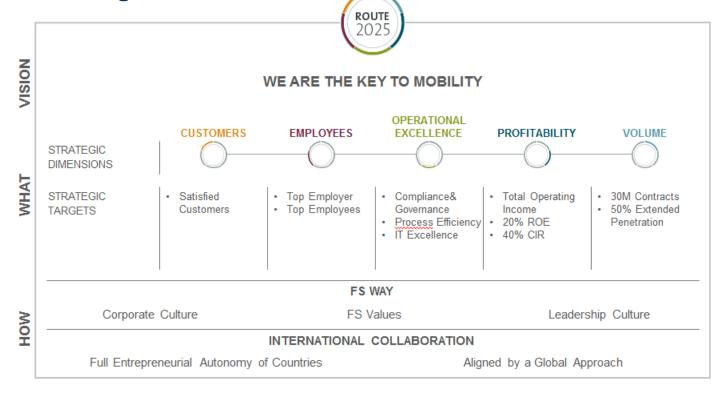
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#### **Worldwide ABS Activities**



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Volkswagen Financial Services follows consequently its vision and the targets of Route2025



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## **ROUTE 2025** | Our Focus Topics

**Digitalization** 





**Operational Excellence** 



**Mobility Services** 





**Used Car Business** 

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#### Outlook

#### Volkswagen Financial Services AG (Half-Yearly Financial Report 2018)

We anticipate that the trend toward an increase in new contracts and growth in the portfolio of current contracts from previous years will continue. In addition, we assume that we will be able to keep our 2018 penetration rate at 2017 levels in a vehicle market generally expected to expand more slowly. We expect the business volume to increase slightly.

Assuming that margins remain stable, the operating profit in fiscal year 2018 is expected to **be at the level achieved** in fiscal year 2017.

(This forecast is based on the current corporate structure of Volkswagen Financial Services AG and does not take into account any future changes that may result from the restructuring program that has been initiated.)

#### Volkswagen Bank GmbH (Half-Yearly Financial Report 2018)

We anticipate that we will be able to sustain stable levels of new contracts, current contracts, penetration and volume of business in 2018. The volume of deposits is also projected to remain stable in 2018.

We expect the operating profit for fiscal year 2018 to be **moderately below the level** achieved in fiscal year 2017 because of the positive nonrecurring items recognized in 2017.

(This forecast is based on the current corporate structure of Volkswagen Bank GmbH and does not take into account any future changes that may result from the restructuring program that has been initiated.)

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Volkswagen AG

**Lennart Schmidt – Investor Relations Manager** 

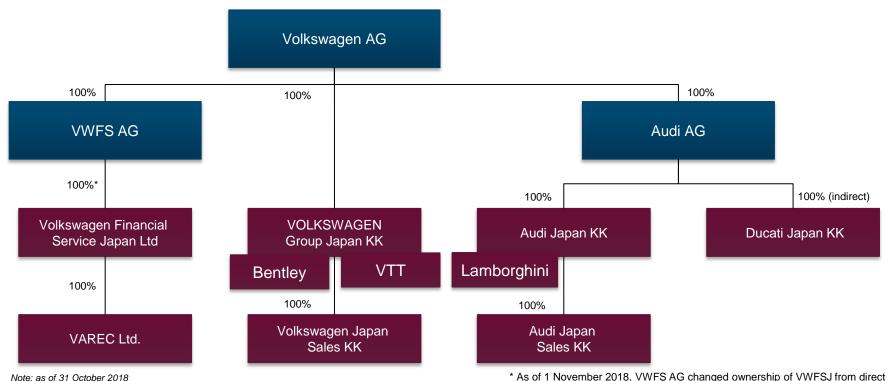
Volkswagen Financial Services

**Bernd Bode – Head of Group Treasury and Investor Relations** 

Volkswagen Financial Services Japan Limited

Shuhei Kashimoto - Head of Treasury, Japan, Australia, Korea and Taiwan

## **Volkswagen Affiliates in Japan**



\* As of 1 November 2018, VWFS AG changed ownership of VWFSJ from direct one to indirect one (through Volkswagen Finance Overseas B.V.).

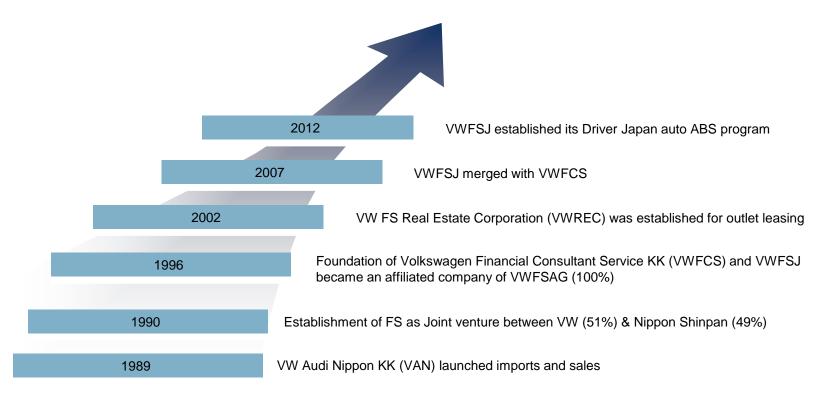
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## **Corporate Summary**

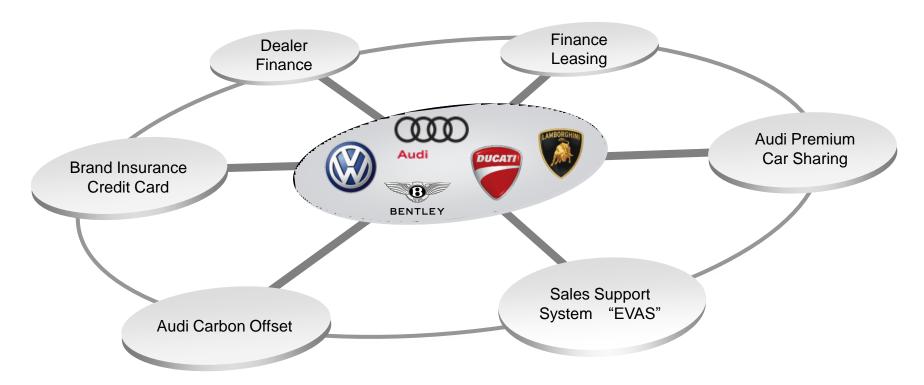
Company Name	■ Volkswagen Financial Services Japan Ltd.
Head Office Address	■ Gotenyama Trust Tower 17F, 4-7-35 Kitashinagawa, Shinagawa-ku, Tokyo 140-0001, Japan
Date of Establishment	■ September 1990
Paid-in Capital	■ ¥1.01 billion (100%-owned and consolidated subsidiary of Volkswagen Financial Services AG)
Total Assets	■ ¥357.36 billion
Representative	■ Masayuki Yokose
Number of Employees	■ 79
Partner Dealer Network	<ul> <li>Volkswagen: 256</li> <li>Audi: 126</li> <li>Bentley: 9</li> <li>Lamborghini: 9</li> <li>Ducati: 46</li> </ul>
Corporate Website	■ http://www.vfj.co.jp

Note: as of 30 September 2018

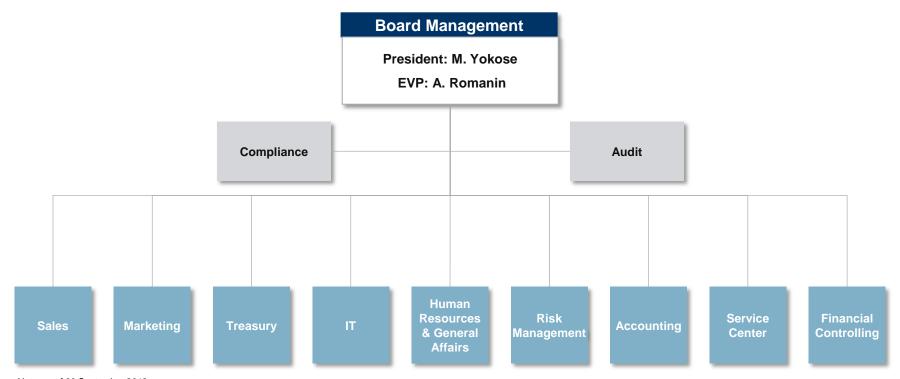
## **Corporate History**



#### **Innovative Financial Products and Services**

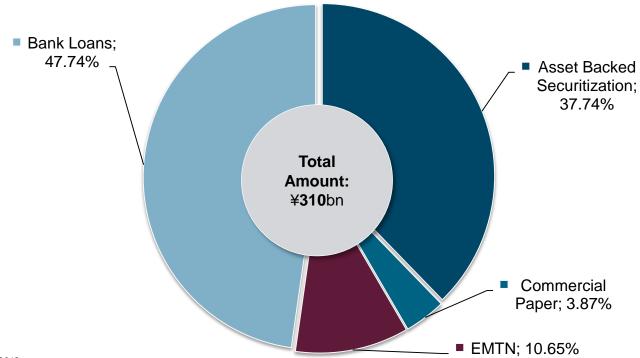


## **Organization Chart**



Note: as of 30 September 2018

## **Domestic Funding Sources**<sup>1</sup>



Note: as of 30 September 2018

#### **Domestic Automotive Market**



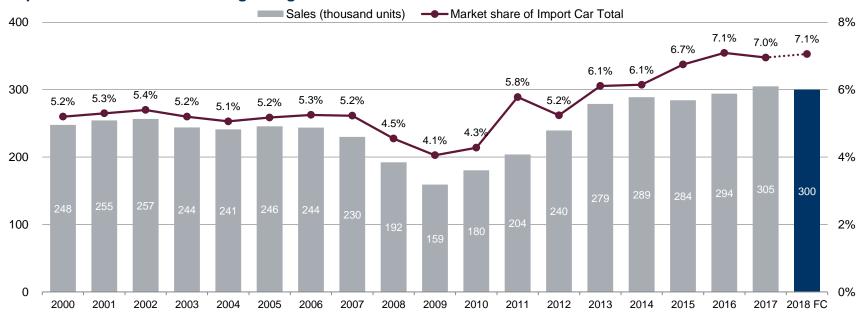


Source: JAMA, JADA . "2018 FC" stands for VWFSJ's forecast for 2018.

<sup>\*</sup>Light passenger cars meet regulations for owners to enjoy tax and other benefits. Typically light vehicles with engines under 660cc.

#### **Domestic Automotive Market**

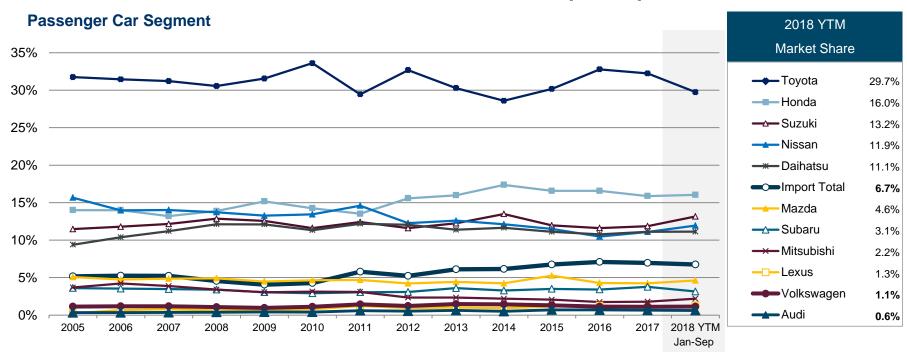
#### **Import Auto Sales and Passenger Segment Market Share**



Source: JAIA. "2018 FC" stands for VWFSJ's forecast for 2018.

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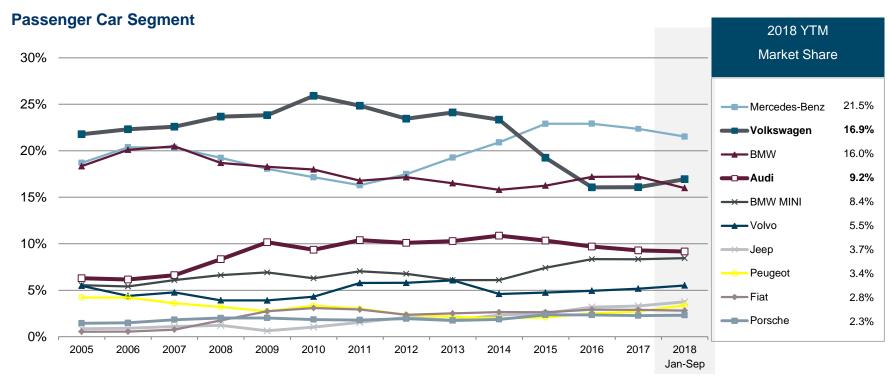
## **Domestic Automotive Market Share Trend (Total)**



Source: JAMA, JADA, JAIA

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## **Domestic Automotive Market Share Trend (Import Only)**



Source: JAIA

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#### **Contacts**



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