

**Chief Financial Officer** 

Investor Roadshow with Evercore ISI, New York and Boston, 30 November – 2 December 2016



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## **VOLKSWAGEN**

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TOGETHER – Strategy 2025

Financials

Outlook 2016

Diesel Statu

Volkswagen going forward



STRATEGY 2025

#### **HOW OUR INDUSTRY IS CHANGING**

The key trends in the automotive world at a glance

NOVEL

#### **Future vehicle concepts**

Autonomous | Electrified | Connected







#### Today's vehicle concepts

SUV/CUV trends | Budget cars







#### Advanced mobility solutions

Robotaxi | PRT, GRT, FRT\*





#### **Sharing & Mobility On Demand**

Shared | Conventional drive system





**TRADITIONAL** 

**BUSINESS MODEL INNOVATION** 

REVOLUTIONARY

# "THE REVOLUTIONARY CHANGE IN OUR INDUSTRY IS A CHALLENGE, BUT AT THE SAME TIME A HUGE OPPORTUNITY"

M. Müller, CEO, June 16th 2016



### **OUR STRATEGY 2025**

The building blocks at a glance



Transform core business



Build mobility solutions business



Strengthen innovation power



Secure funding



#### STRATEGY 2025 - INITIATIVES AT A GLANCE

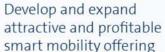




Build mobility solutions business



Improve operational excellence



Optimize business portfolio



Build mobility solutions business



Secure funding









#### THE ELECTRIFICATION INITIATIVE OF THE VOLKSWAGEN GROUP

- Goal: to position Volkswagen as a driving force behind the expansion of electro-mobility;
   e-car to become a new hallmark of the Group
- >30 new pure-electric vehicles by 2025
- Annual unit sales of 2 to 3 million e-cars by 2025, equivalent to 20–25 percent of total sales







#### **EFFICIENCY ENHANCEMENTS AS EARNINGS DRIVER**

- Goal: to boost operational excellence across all business divisions and brands
- Boost investment efficiency, moderately reduce capex ratio to around 6 percent by 2025 (convergence with industry level)
- Enhance efficiency of research and development expenditures, lower R&D ratio to around 6.0 percent
- Lower selling, general and administrative expenses (SG&A), relative to sales revenue, to under 12 percent





### **NEW FINANCIAL TARGETS ADOPTED: FOCUS ON PROFITABILITY**

Key financial targets	<b>2015</b> Actual	2025
Operating return on sales before special items	6.0%	7–8%
Return on capital Automotive Division	13.8%	>15%
Capex ratio Automotive Division	6.9%	~6%



## THE VOLKSWAGEN GROUP OF THE FUTURE WILL INSPIRE PEOPLE

#### TOGETHER...

... we will create smart mobility solutions that simplify and enrich our customers' lives

... we will reduce the environmental burden with eco-friendly drivetrain technologies

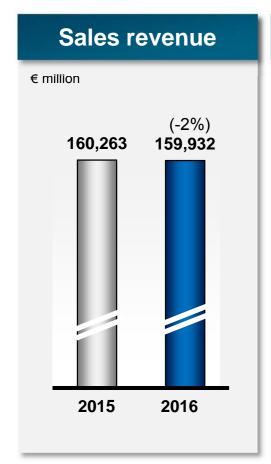
... we will continue to raise the bar in emotion and quality

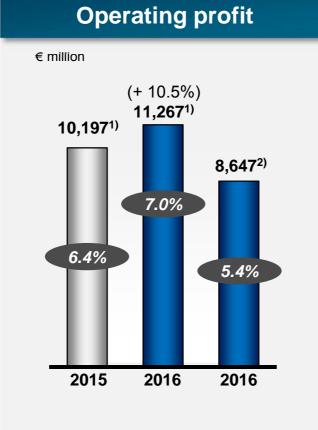
... we will shape the future of our industry

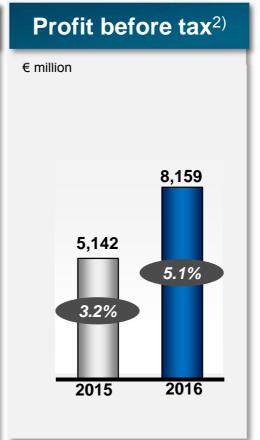
... we will build an enterprise of which we can be truly proud.

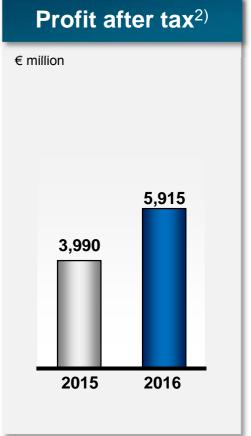
## Financial highlights – Volkswagen Group

(January to September 2016 vs. 2015)









After Special items

<sup>)</sup> Before Special items

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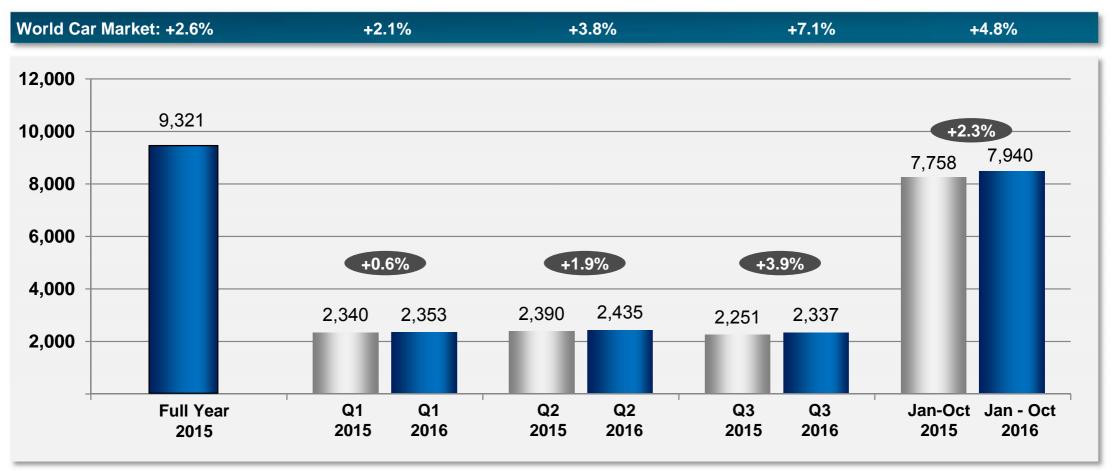
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#### Development Volkswagen Group car deliveries to customers<sup>1)</sup>

(in comparison to previous year)

In `000 units



 $<sup>^{\</sup>rm 1)}$  Figures excl. Volkswagen Commercial Vehicles, Scania and MAN.

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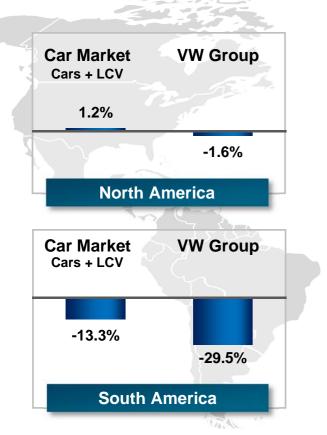
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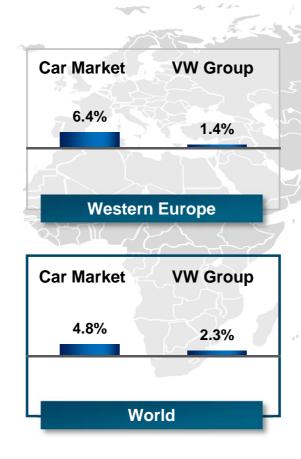
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## Development World Car Market vs. Volkswagen Group Car Deliveries to Customers<sup>1)</sup>

(Growth y-o-y in deliveries to customers, January to October 2016 vs. 2015)







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

Financials

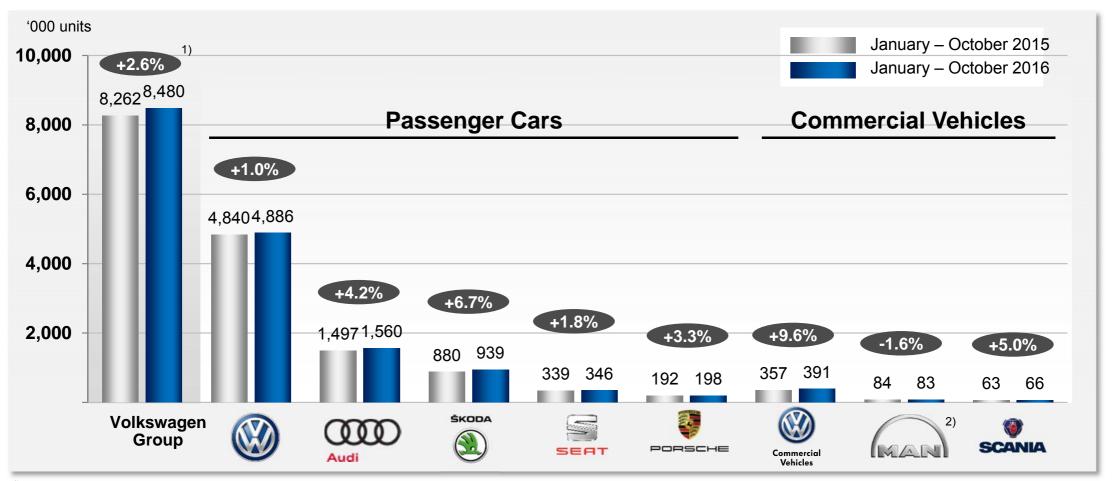
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## **Volkswagen Group – Deliveries to Customers by Brands**

(January to October 2016 vs. 2015)

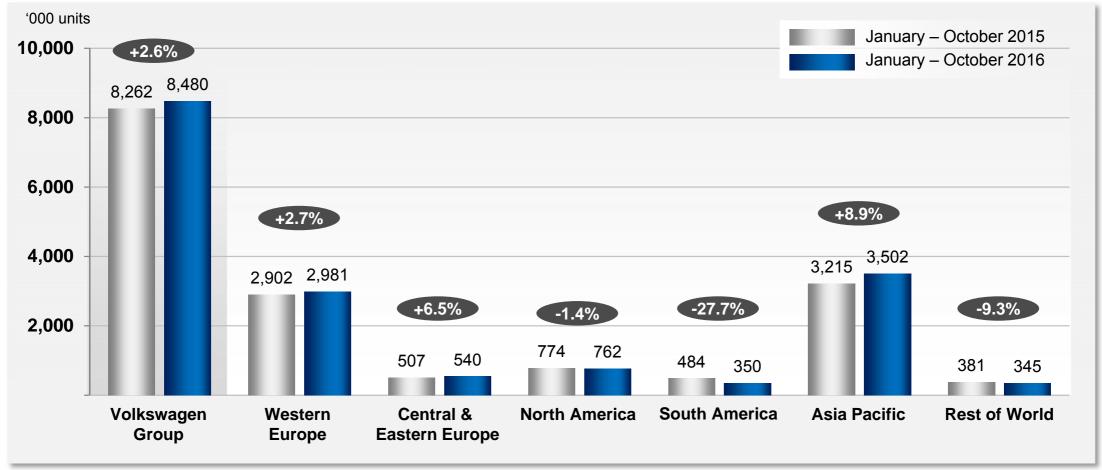


<sup>1)</sup> Incl. all brands of Volkswagen Group (Passenger Cars and Commercial Vehicles); +2.3% excl. Volkswagen Commercial Vehicles, Scania and MAN Commercial Vehicles.

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

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

(January to October 2016 vs. 2015)



<sup>1)</sup> Incl. all brands of Volkswagen Group (Passenger Cars and Commercial Vehicles); +2.3% excl. Volkswagen Commercial Vehicles, Scania and MAN.

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### **Volkswagen Group – Key financial figures**<sup>1)</sup>

(January to September 2016 vs. 2015)

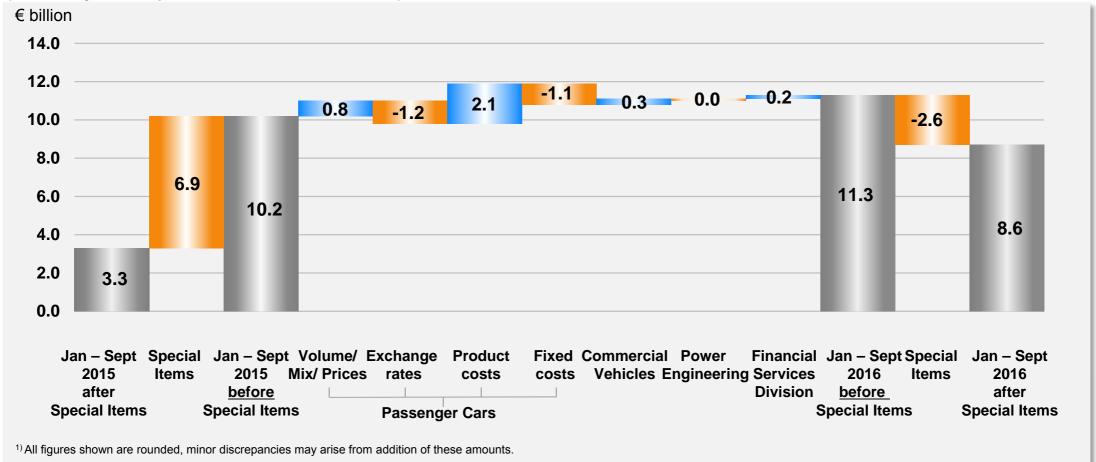
thousand vehicles / € million	2016	2015	+/- (%)
Vehicle Sales <sup>2)</sup>	7,653	7,440	+2.9
Sales revenue	159,932	160,263	-0.2
Operating profit before Special Items	11,267	10,197	+10.5
% of sales revenue	7.0	6.4	
Operating profit	8,647	3,342	х
% of sales revenue	5.4	2.1	
Financial result	-488	1,800	x
of which: At-equity result <sup>2)</sup>	2,627	3.128	-16.0
of which: Other financial result	-3,116	-1,327	х
Profit before tax	8,159	5,142	+58.7
% Return on sales before tax	5.1	3.2	
Profit after tax	5,915	3,990	+48.2

<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.

<sup>2)</sup> Volume data including the unconsolidated Chinese joint ventures. The joint venture companies in China are accounted for using the equity method and recorded an operating profit (proportionate) of €3,594 million (€3,777 million).

### **Volkswagen Group – Analysis of operating profit**<sup>1)</sup>

(January to September 2016 vs. 2015)



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### **Volkswagen Group – Analysis by business line**<sup>1)</sup>

(January to September 2016 vs. 2015)

	Vehicl	e sales	Sales r	evenue	Operatir	g profit
thousand vehicles/ € million	2016	2015	2016	2015	2016	2015
Volkswagen Passenger Cars	3,234	3,343	77,725	79,972	1,244	2,229
Audi	1,166	1,158	44,017	43,695	3,918	4,024
ŠKODA	606	605	10,113	9,280	940	734
SEAT	400	404	6,535	6,388	137	12
Bentley	8	7	1,411	1,364	54	57
Porsche <sup>2)</sup>	177	169	16,470	16,471	2,858	2,546
Volkswagen Commercial Vehicles	342	335	8,045	7,537	392	313
Scania <sup>2)</sup>	60	56	8,272	7,686	802	748
MAN Commercial Vehicles	74	74	7,213	7,247	204	52
MAN Power Engineering	-	-	2,567	2,756	176	227
VW China <sup>3)</sup>	2,803	2,492	-	-	-	-
Other	-1,217	-1,204	-42,771	-41,538	-993 <sup>4)</sup>	-2,126 <sup>4)</sup>
Volkswagen Financial Services	-	-	20,337	19,403	1,534	1,381
Volkswagen Group before Special Items	-	-	-	-	11,267	10,197
Special Items	-	-	-	-	-2,620	-6,855
Volkswagen Group	7,653	7,440	159,932	160,263	8,647	3,342
Automotive Division <sup>5)</sup>	7,653	7,440	136,889	138,302	6,841	1,726
of which: Passenger Cars	7,178	6,974	111,044	113,325	6,359	1,203
of which: Commercial Vehicles	475	466	23,278	22,221	491	489
of which: Power Engineering	-	-	2,567	2,756	-9	34
Financial Services Division	-	-	23,042	21,961	1,806	1,615

<sup>1)</sup> All figures shown are rounded, minor discrepancies may arise from addition of these amounts. 2) Incl. financial services. 3) Sales revenue and operating profit of the JV's in China are not included in the Group figures. The Chinese companies are accounted for using the equity method and recorded an operating profit (proportionate) of € 3,594 million (€3,777 million). 4) Mainly intragroup items, in particular from elimination of intercompany profits; incl. depreciation and amortization of identifiable assets as part of the PPA for Scania, Porsche Holding Salzburg, MAN and Porsche. 5) Including allocation of consolidation adjustments between Automotive and Financial Services divisions.

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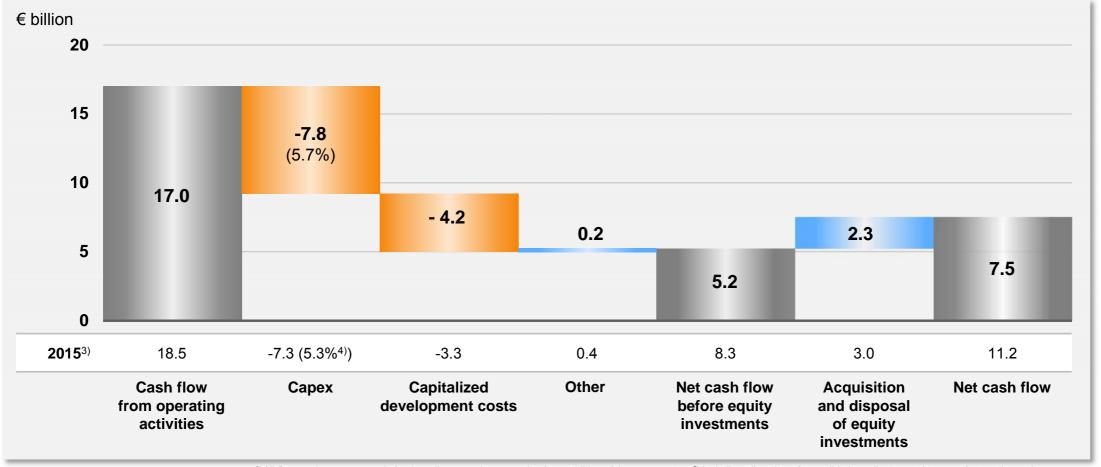
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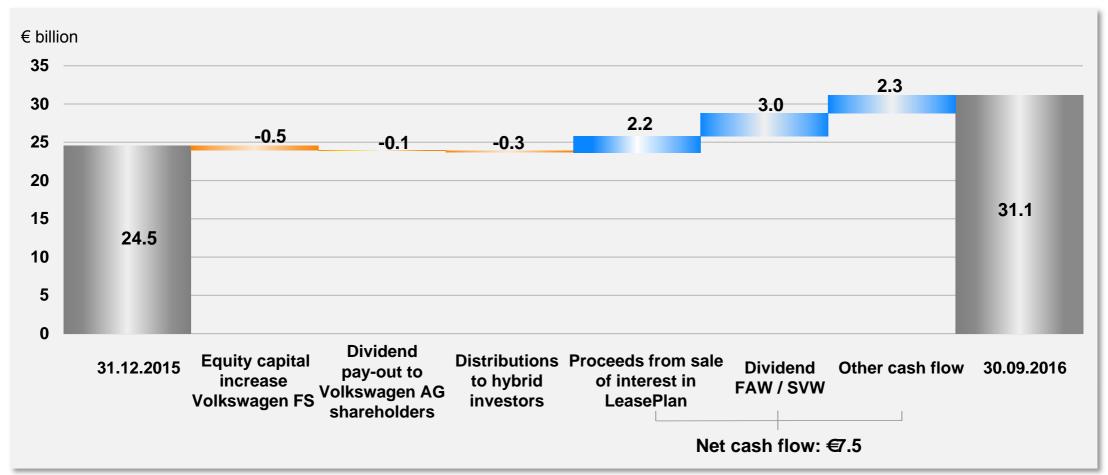
### **Automotive Division – Strong cash generation**<sup>1) 2)</sup>

(January to September 2016)



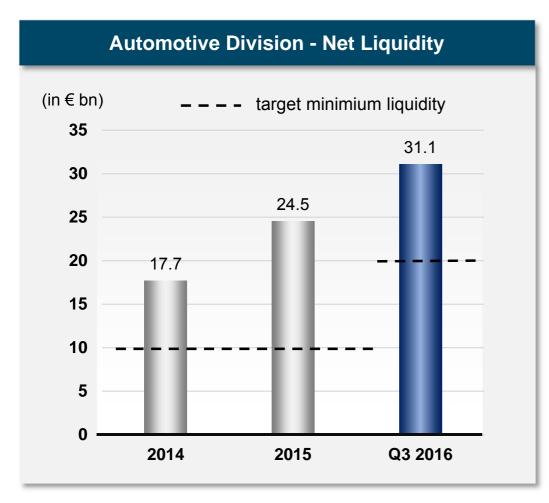
<sup>&</sup>lt;sup>1)</sup> All figures shown are rounded, minor discrepancies may arise from addition of these amounts. <sup>2)</sup> Including allocation of consolidation adjustments between Automotive and Financial Services divisions. <sup>3)</sup> prior- year figures adjusted <sup>4)</sup> Capital expenditure for property, plant and equipment in% of Automotive sales revenue.

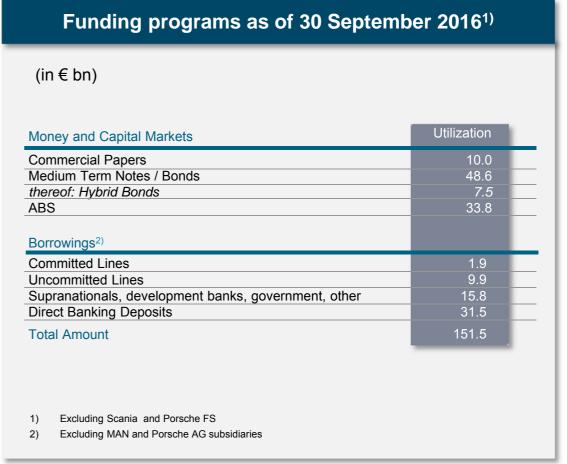
### **Automotive Division – Analysis of net liquidity**<sup>1)</sup>



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

## Volkswagen Group - Net liquidity and funding





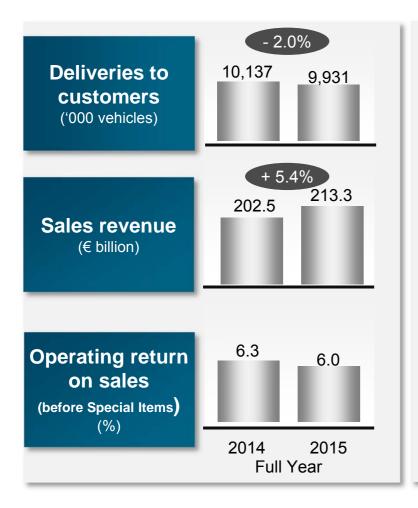
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#### **Volkswagen Group – Outlook for 2016**





## **Deliveries** to customers slightly above prior year



## Sales revenue may reach prior year level



## **Operating return on sales**

(before Special Items) between **5.0% and 6.0%** 

## Our 5 priorities: Focus on crisis management and realignment



## **Customer** solutions

- Implementation of technical solutions launched in Germany
- Schedule for further refits in Europe to be adapted in consultation with authorities
- Agreement in principle reached with U.S. authorities



#### **Investigation**

- Process audit by Group Audit already completed at 2015 year-end, proposed measures being rapidly implemented
- Detailed investigation of facts by Jones Day ongoing



#### **Structure**

- New management team in place
- Intensive work on new structures and leaner processes



#### **Mindset**

- Numerous individual changes made to renew corporate and leadership culture
- Structured change process initiated



#### **Destination**

- Development of "TOGETHER Strategy 2025" proceeding to plan
- Key financial targets with focus on profitability already communicated
- Milestones and brand specific KPI's will be implemented into next planning round

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### What do the 2.0I US settlement agreements cover?

With whom?

U.S. Federal and State Regulators (DOJ, CARB, FTC), and

Private Plaintiffs represented by the Plaintiffs' Steering Committee to resolve civil claims

Which engines?

2.0L TDI Diesel engines approx. 475,000 (thereof 460,000 Volkswagen and 15,000 Audi vehicles)

Granted Final Approval on October 25, 2016 Volkswagen establishes a maximum funding pool of \$10.033bn for vehicles currently in use and eligible for :

Buyback/Lease terminations; OR

Emissions modifications (if approved by regulators)

+ Cash payments for affected customers

Pay \$2.7bn over 3 years to an environmental trust to remediate excess NO<sub>x</sub> emissions

Invest \$2bn over 10 years in Zero emission infrastructure, access and awareness initiatives

States resolution

Agreement with 44 states, the District of Columbia and Puerto Rico to resolve existing and potential state consumer protection claims regarding both 2.0L and 3.0L engines (approx \$603m)

- Regarding the 3.0l TDI engines, the Court set the next status hearing for December 16.
- The Court has filed its order granting preliminary approval to the settlement with VW-branded franchise dealers on October 18.
- The Court will hold a fairness hearing to consider granting final approval on January 18, 2017

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#### How the NOx issue will be solved in Europe

#### **Diesel Status Europe** (approved by KBA)

- Fixes for around 8.6m vehicles approved
- Modifications started and effective
- Over 1m vehicles already fixed (as per end October 2016)

#### **EA189 2.0 I (EU5): ~ 5.2m units**

#### **EA189 1.2 I (EU5): ~ 0.3m units**

#### **EA189 1.6 I (EU5): ~ 3m units**

- Software fix only
- Working time ca 30 min.

- Software fix only
- Working time ca 30 min.

- Soft- and Hardware fix required
- Working time < 1h</li>







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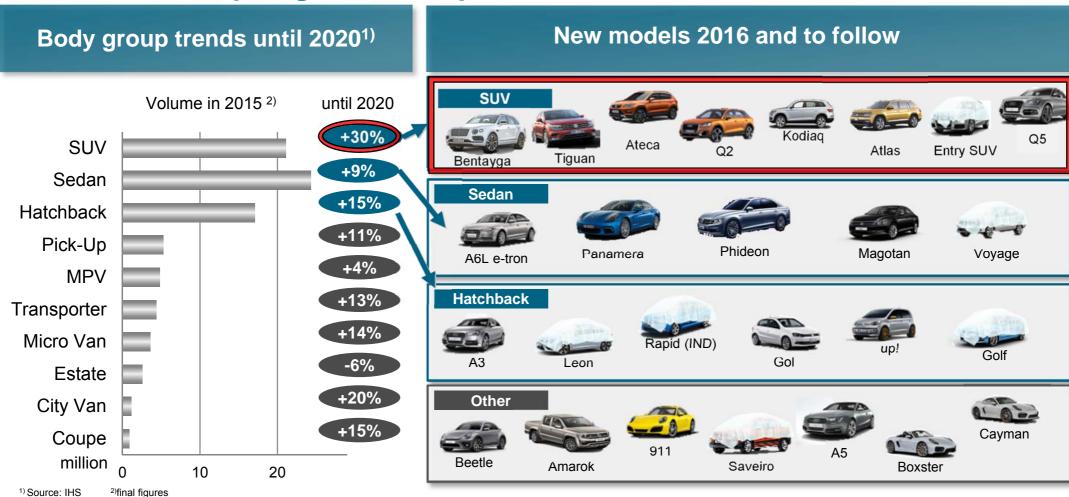
Volkswagen Brand Strategy 2025+

Volkswagen Truck & Bus

Regions / F

Γrends

### Product roadmap aligns with expected future market trends



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## Volkswagen brand has significant potential for improvement



No recipe for success for US automobile market

Disintegrating market shares in price-sensitive markets of Brazil, India and ASEAN

Inconsistent brand image in the regions



High increase in fixed costs

Growing productivity gap compared to competitors

High product complexity (similar to premium segment) is weakening ability to compete in volume segment

Product portfolio is lagging behind international trends and requirements of local customers

High level of vertical integration / need for investment in fields without differentiation from competitors

Centralised, functional and hierarchical organisation

Insufficient generation of returns/cash

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# Volkswagen brand has important qualities that enable it to take the lead in the volume segment



Globally acknowledged and established brand and strong customer loyalty

High-quality portfolio – cars with character Golf, GTI, Tiguan, Passat, Jetta and Magotan



Global presence and scalable platforms:

Volkswagen Group backbone

Unsurpassed market leadership in China, market leadership in Europe, and corresponding better price position of products

Committed, highly qualified workforce that identifies with the brand

Quality orientation, an eye for detail, and superb technical expertise



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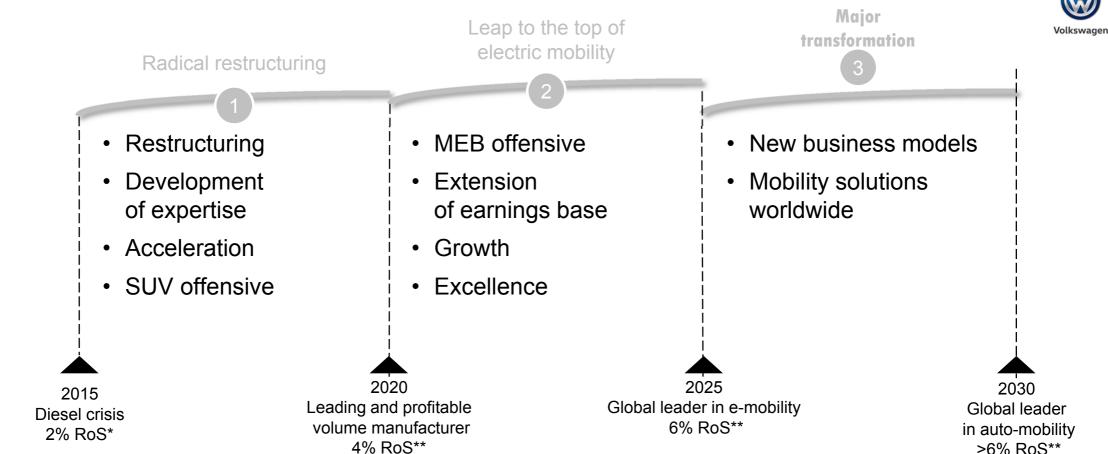
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## Strategic realignment of Volkswagen brand will take place in three phases



<sup>\*)</sup> before special items

<sup>\*\*)</sup> Operating return based on adjusted sales revenue (without turnover from multi brand sales companies)

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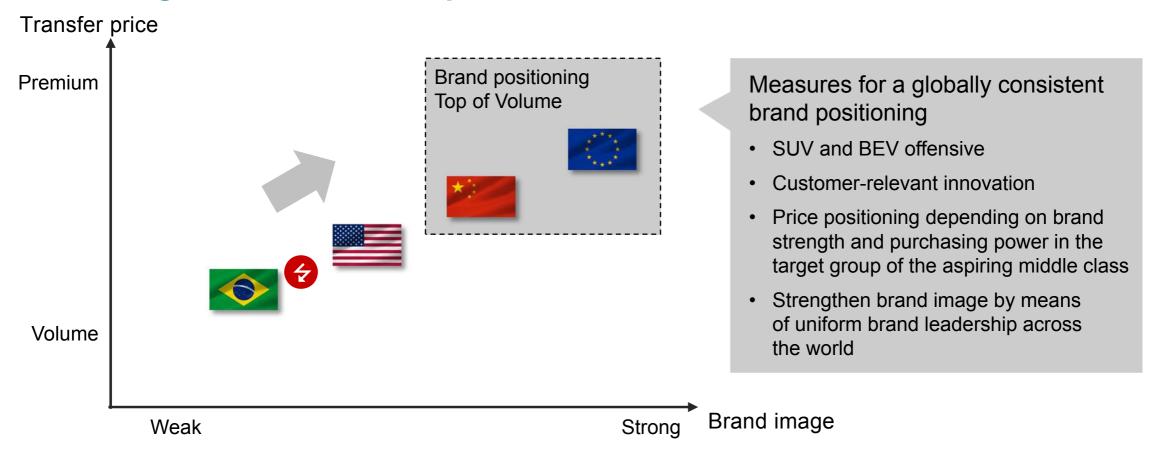
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# Volkswagen brand image in critical markets will be improved step by step and brought in line with Europe

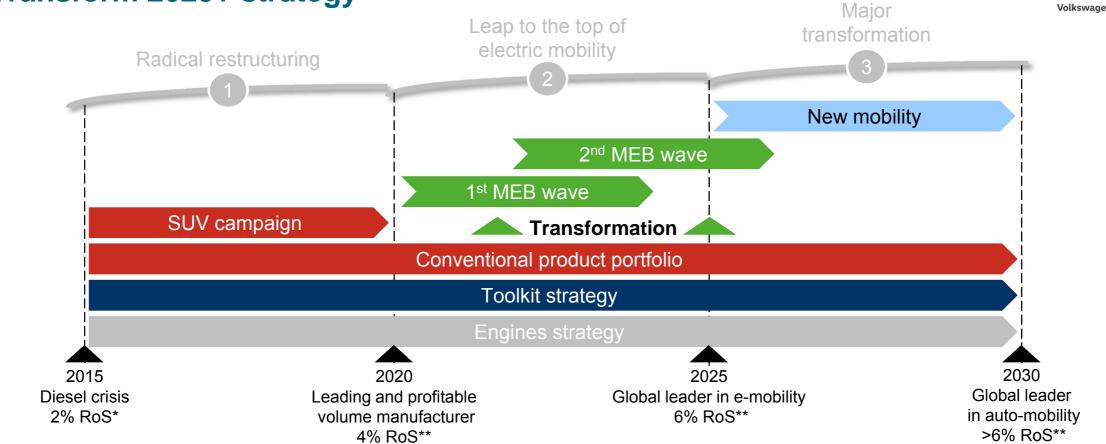






Volkswagen going forward Group Volkswagen Brand Strategy 2025+ Volkswagen Truck & Bus Regions / FS Trends

Realignment of product strategy oriented towards the three phases of the Transform 2025+ strategy



<sup>\*)</sup> before special items

<sup>&</sup>lt;sup>\*\*)</sup> Operating return based on adjusted sales revenue (without turnover from multi brand sales companies)

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## Reducing complexity leads to lower expenditure, frees up resources and increases productivity



Business field	Reduced number of variants
Sucessors / new vehicles	-30 to -60%
Platforms	-40%
Drivetrains	-30 to -40%

>15,000 fewer component variants



>€700 million lower initial investment



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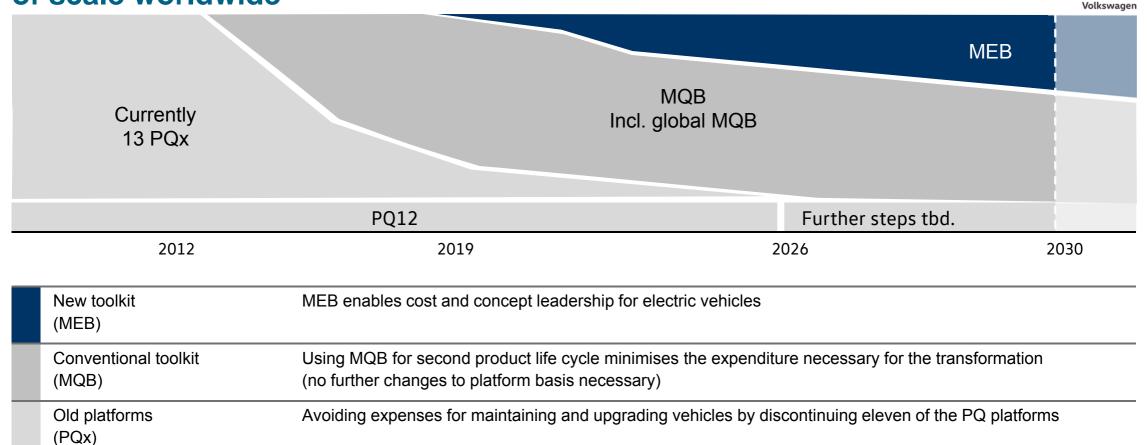
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**Trends** 

## The number of platforms will be reduced consistently to create economies of scale worldwide





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Trend

## The Volkswagen brand will implement MEB to make electric vehicles affordable and profitable





#### Key measures

- Concept determined by: customer benefit and package for cost-optimized implementation of e-components
- MEB: economies of scale from use of MEB across entire Group
- "Design for manufacturing": higher productivity, shorter manufacturing time
- Lower material and distribution costs
- Significant reduction in variants
- Early involvement of suppliers



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Trends

## Volkswagen passenger cars is planning a strong comeback in the USA

## Volkswagen

### Focus on US Core Segments



**Atlas** 



Tiguan



Jetta



Passat

### Key measures

- Extend SUV offering, focus on US core segments (SUVs, sedans)
- Market-oriented pricing
- Market-oriented alignment to local standards and customer expectations
- Reduce material, product and fixed costs
- "Electrify America": infrastructure and locally produced cars from 2021



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Trend:

## A product offensive will initiate a new growth phase in South America



### Product offensive in South America



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Polo Global



Polo Sedan Global



### Key measures

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



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Trends

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



	Competitivness	Secure the Future			
Working Group 1 Production	<ul><li>Increase of productivity by 25%</li><li>Reduction of plant costs</li></ul>	<ul> <li>4 additional models:</li> <li>2 conventional and 2 MEB vehicles</li> </ul>			
Working Group 2 Components	<ul> <li>Increase of productivity by 25%</li> <li>Discontinuation of unprofitable products</li> </ul>	<ul> <li>Investments in:</li> <li>Electric drive trains</li> <li>Pilot facility battery cell</li> <li>Battery system</li> </ul>			
Working Group 3 Technical Development	<ul> <li>Reduction of hardware-oriented development work</li> <li>Increased efficiency in development processes</li> </ul>	<ul> <li>Competency/capacity increase in autonomous driving, electrification, connectivity etc.</li> </ul>			
Working Group 4 Administration	Reduction of bureaucracy	Creation of employment in new business segments			
	Reduction in workforce based on demographic curve				



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## Volkswagen Brand new mission statement







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# 12 KPIs measure the achievement of the strategy in four targets



#### Enthusiastic customers

- Best-in-class recommendation from enthusiastic customers
- Top quality for the customer
- Direct customer contact in a digital environment

## A strong team that gets things moving

- Vibrant corporate culture and dedicated employees
- Employer of choice for top talents
- Great diversity and expertise in our team



- Secure operating return
- Secure return on investment
- Ensuring financial viability

### Sustainable mobility

- Global market leader in electric mobility
- Integrity as a guiding principle
- Reducing our carbon footprint



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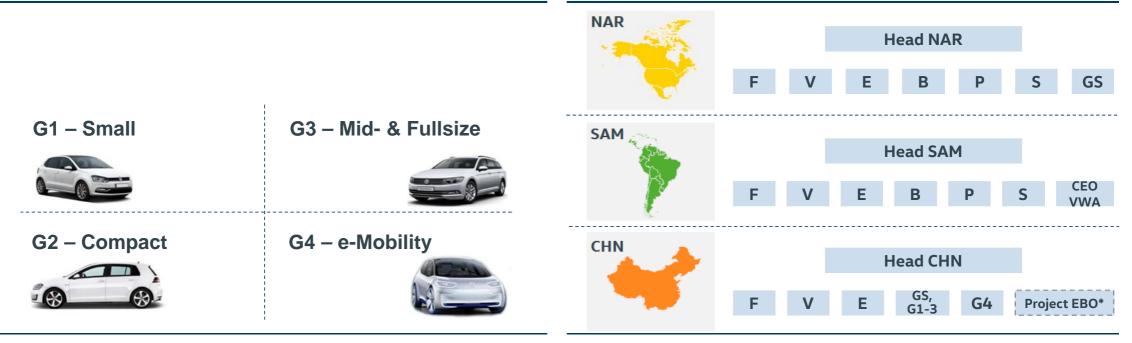
Trends

# Product line organisation and regionalisation are making us faster and more entrepreneurial



### Product line organisation

### Regionalisation



New organisation model implemented in all product lines

New organisation model implemented for the regions

<sup>\*)</sup> EBO = Budget Car Organisation



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Trends

# Core challenges in 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



Local OEMs dominating in BRIC markets

Improving infrastructure, stronger regulations open opportunities for Volkswagen

# **Emission** regulations



Europe with aggressive regulations, focus shifting to diesel lock-outs

BRIC trailing behind, but with ambitious roadmap

# Connectivity & digitalization



Platooning and partly-autonomous driving as transition solutions

Data management for customers and traffic of broad interest

# After sales and new business opportunities



After sales increasingly important as alternative source of revenues

New business models (e.g. enhanced telematics) can stabilize revenues



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Volkswagen Truck & Bus

# ... require Volkswagen truck brands to cooperate closely

Cyclical markets



**Further** globalization



**Emission** regulations



**Connectivity &** digitalization



After sales and new business opportunities



Global market reach to ensure sufficient volume in local up- & downturns

Reduced fixed costs through modularization and shared components

Combined R&D know-how for competitive product development

Additional value through customer services

**Close cooperation** going forward

**VOLKSWAGEN TRUCK & BUS** 











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Trends

## Volkswagen Truck & Bus enters strategic alliance with Navistar



Volkswagen Truck & Bus GmbH will purchase a 16.6% equity stake in Navistar International Corporation through a primary share issuance, purchase price of approx. \$256 m (≈ €229 m)

# U.S. Portfolio Strategy: Growing in core segments, optimization and a major transfer to electrification







Compact/Midsize SUV and Sedan with

>1.5 mil. per segmentIncrease segment coverage/volume

Portfolio Optimization /
enter new segments

US total market							
Segment	2015 (m units)	Market share 2015 (%)	FC Volume Δ until 2019 (%)				
Sedan	5.9	33.6	-12.6				
Hatchback	0.9	5.0	+8.6				
Coupe	0.5	2.8	+2.1				
Wagon	0.1	0.3	+6.5				
Cabrio/Roadster	0.2	0.9	+17.5				
SUV	6.4	36.6	+10.9				
Pick-Up	2.5	14.6	+1.7				
MPV	0.7	3.8	-15.9				
Transporter	0.3	1.9	-2.3				
City Van	0.1	0.5	-0.0				

• Leverage portfolio opportunities

Transfer to Electrification /
new customer experience



- Expand e-Golf
- Introduce BEVs
- Introduce HEV



**Build profitable volume base** 



Improved portfolio for market



**E-Mobility rollout** 



Group

Volkswagen Brand Strategy 2025+

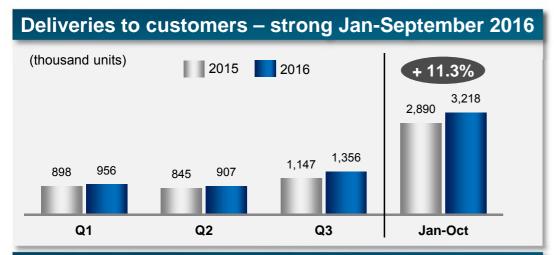
Volkswagen Truck & Bus

Regions / FS

Trends

# Deep roots and strong market position combined with further growth potential continues robust performance in China













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Volkswagen Brand Strategy 2025+

Volkswagen Truck & Bus

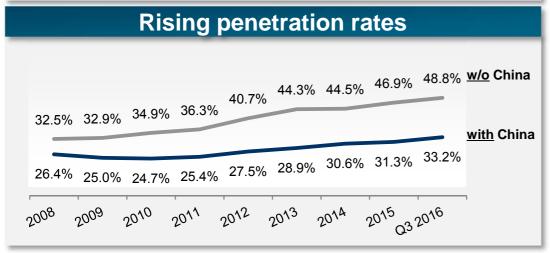
Regions / FS

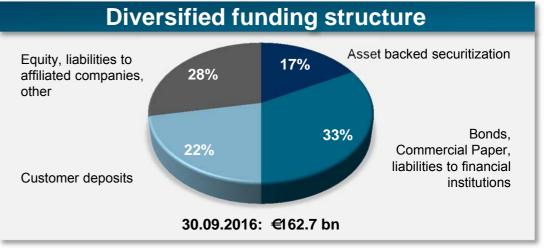
rends

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









<sup>1)</sup> excluding financial service activities of Scania, Porsche AG and Porsche Holding Salzburg; including MAN Financial Services



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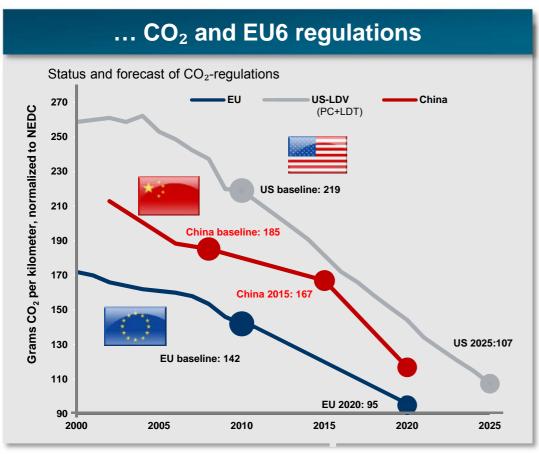
Volkswagen Brand Strategy 2025+

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**Trends** 

# Challenging emission regulations, trends and business transformation opportunities





Source: based on ICCT



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Regions / FS

**Trends** 

Volkswagen is making digital transformation a top priority concentrating on digitalization and autonomous driving

#### **Volkswagen Group Future Centers**



- Three new Volkswagen Group Future Centers in Silicon Valley, Potsdam and Beijing
- Approach: designers and digitalization experts work hand in hand to create the car of the future
- Goal: best in class customer experience, interface design and user friendliness, new interior concepts, integration of infotainment and entertainment systems

### **Autonomous driving**

- 91% of accidents caused by human error → reduce number of accidents
- People spend more than 4 years of their life in the car on average → make that time usable for the driver
- Huge potential for trucks → significantly higher productivity
- Car parked most of the day → customer achieves best return on investment by fully utilizing the car
- Infrastructure limited → has to be used more efficiently

20<sup>th</sup> Century: Engine is the core of the automobile

21<sup>st</sup> Century: Self-driving system is the core of the automobile

#### Top fields of use

Individual urban mobility

Commercial vehicles

Premium cars

Public transport-

Group is building on strong knowledge base – initiative started to get to market ahead of competitors



Group

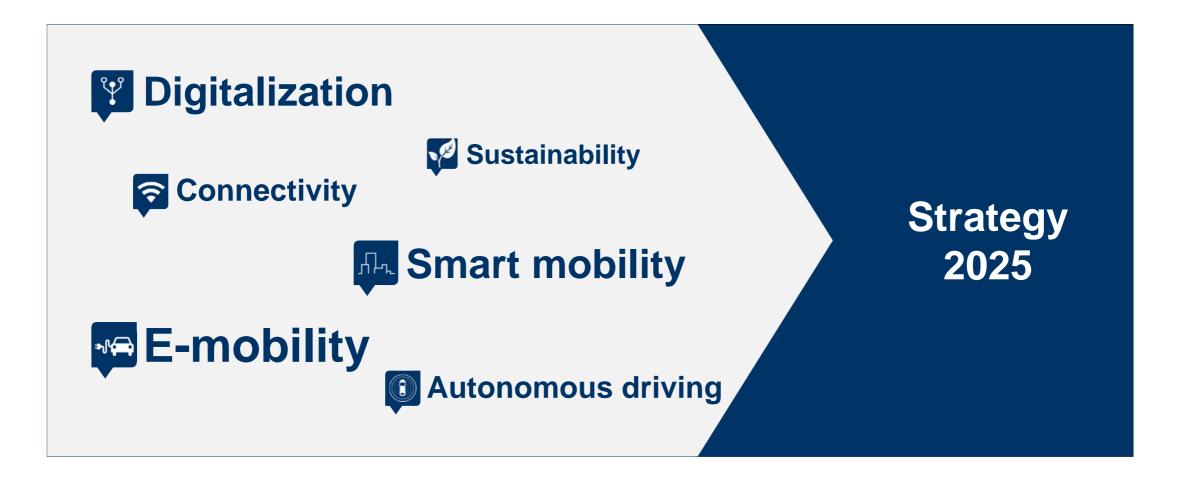
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Regions / FS

**Trends** 

# We are working on the key trends in our industry ...





Group

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Trends

# **New co-operations and initiatives**













# "Together, we will create



# a new Volkswagen

and play a key role in designing

the mobility world of tomorrow"

M. Müller, CEO, June 16th 2016



#### **Investor Relations Team**



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## **Events 2017**

14. March 2017	Annual Media Conference, Investor and Analyst Conference 2017	
3. May 2017	Interim Report January - March 2017, Investor and Analyst Conference Call	
10. May 2017	Annual General Meeting 2017	
27. July 2017	Half-Yearly Financial Report 2017, Investor and Analyst Conference Call	
27. October 2017 Interim Report January - September 2017, Investor and Analyst Conference Call		
A DESCRIPTION OF THE PROPERTY		

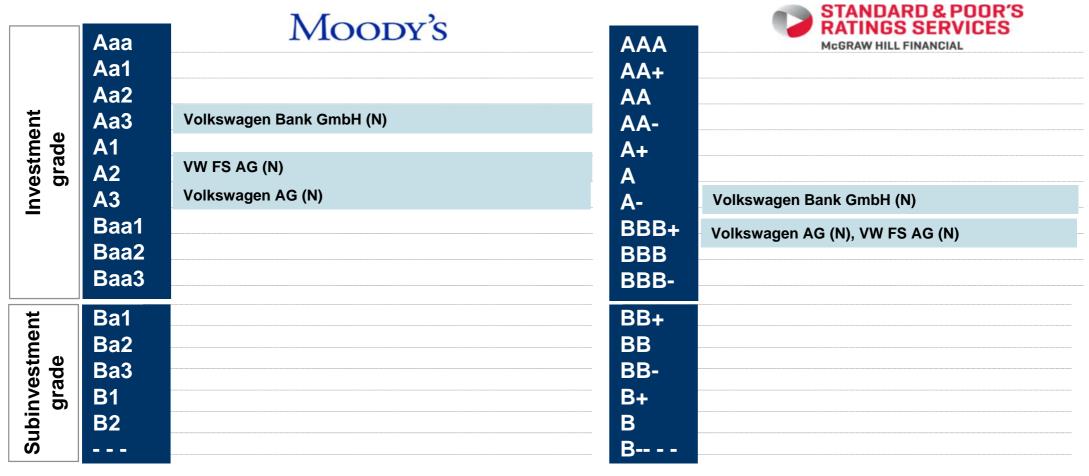




# Volkswagen Group Appendix



## Rating Volkswagen Group

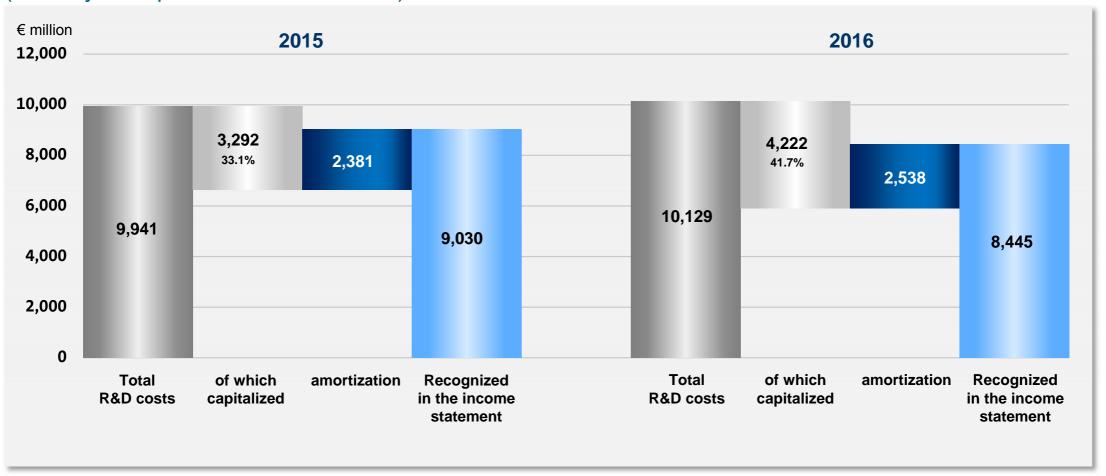


Outlook -> (P)ositive, (S)table, (N)egative, RfD = Ratings under review for Downgrade, RfU = Ratings under review for Upgrade



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

(January to September 2016 vs. 2015)



TOGETHER – Strategy 2025

Financials

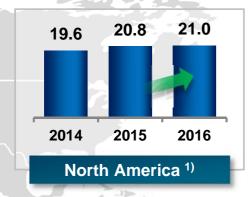
Outlook 2016

Diesel Statu

Volkswagen going forward

# Passenger car market forecast 2016 – Overall growth expected

(in million units)















Source: IHS Economics as of October 2016

1) Passenger cars and Light Commercial Vehicles



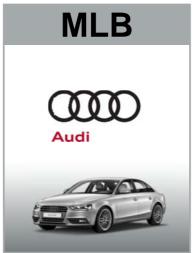
# **Special Items: Diesel related and other**

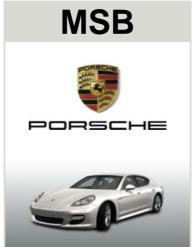
(In € bn)	Diesel	Other		Total
2015	Legal 7.0 Other items 9.2	Truck Business South America Passenger Cars South America Airbags Takata	0.2 0.2 0.3 <b>0.7</b>	16.9
Q1-Q3 2016	Mainly legal risks 2.0	Airbags Takata	0.4 0.2 <b>0.6</b>	2.6
Total to date	18.2			



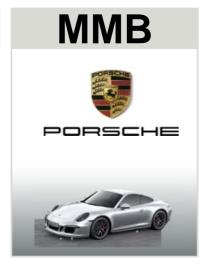
# Modular toolkits – Brand responsibilities











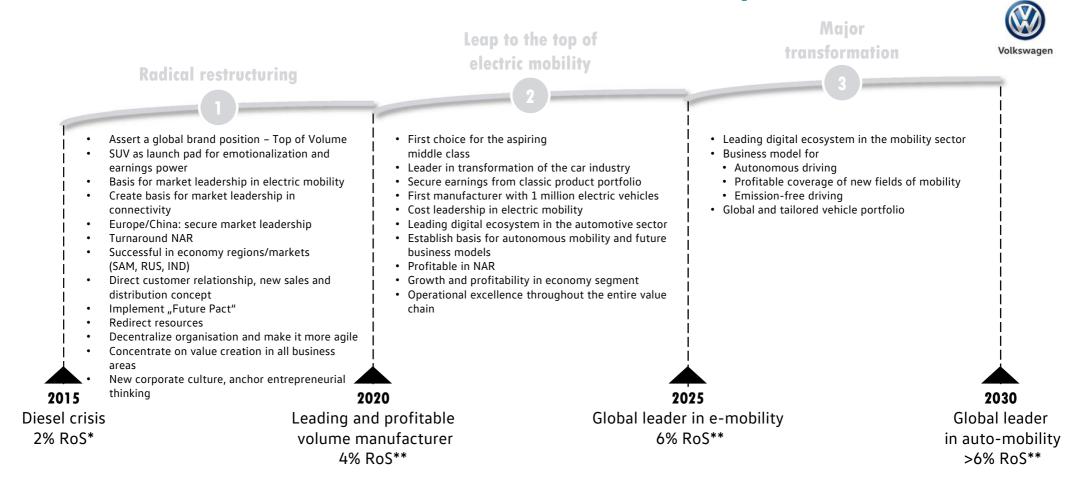


Modular Transverse Toolkit Modular Longitudinal Toolkit Modular Standard
Drivetrain
Toolkit

Modular Light Commercial Vehicle Toolkit Modular Mid-engine Toolkit Modular Electric Toolkit



# We have defined central fields of action for each phase



<sup>\*)</sup> before special items

<sup>\*\*)</sup> Operating return based on adjusted sales revenue (without turnover from multi brand sales companies)





# The SUV offensive has a global impact: Investment channeled into high earnings and high growth segments

Small SUV



T-Roc



Compact SUV



Compact SUV











Tiguan



Tiguan LWB



Touareg



Atlas











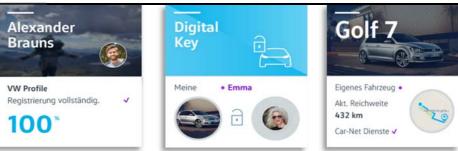




# Volkswagen brand is planning an industry-leading ecosystem



### **Platform**



# **Apps/ Services**







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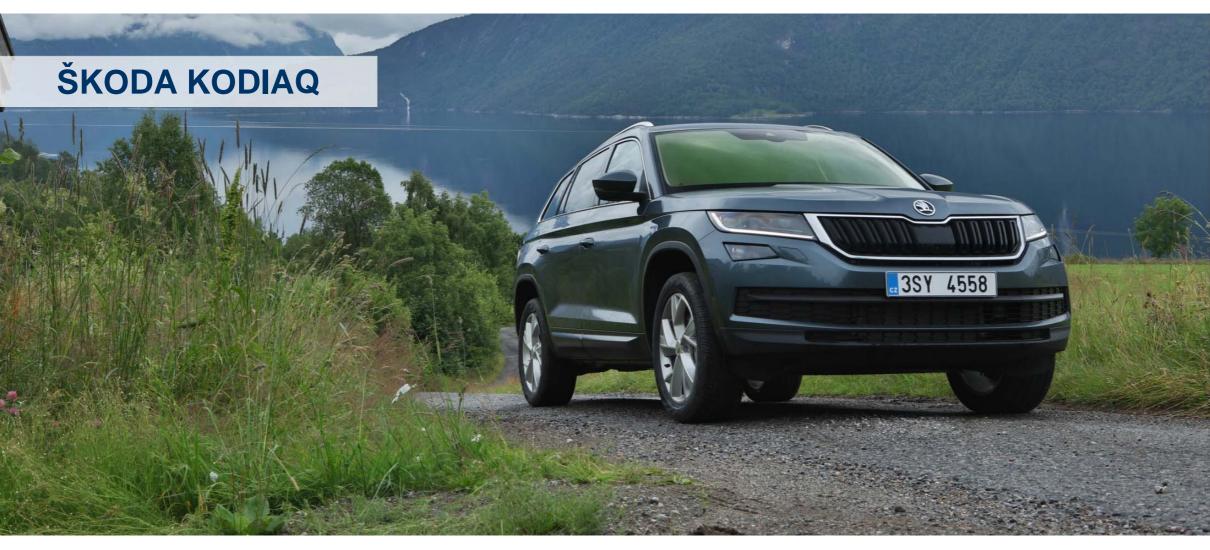






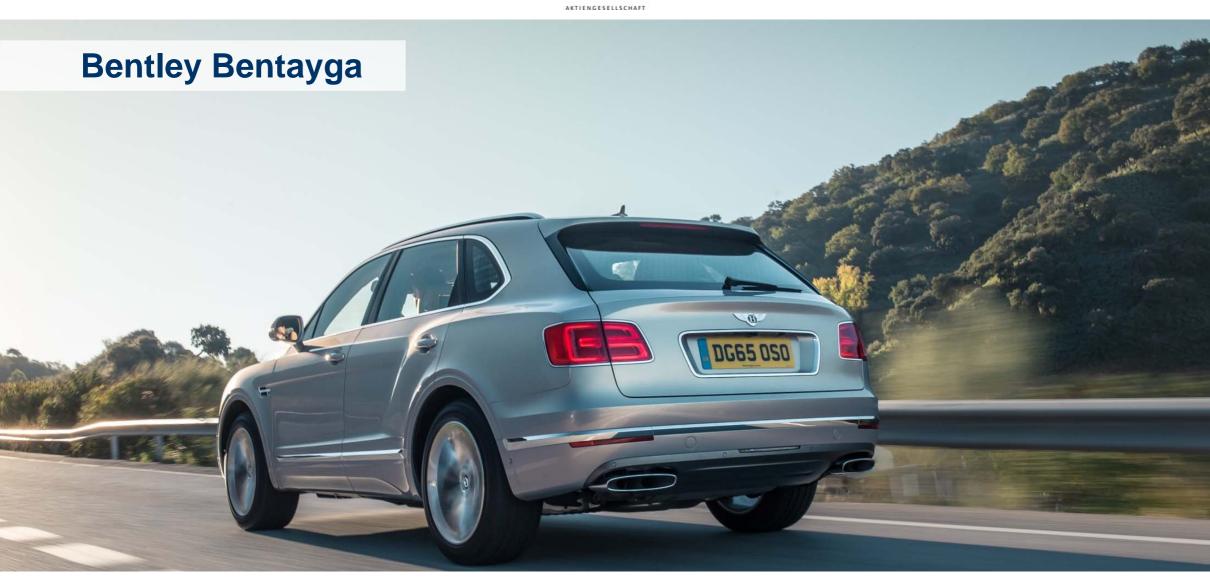


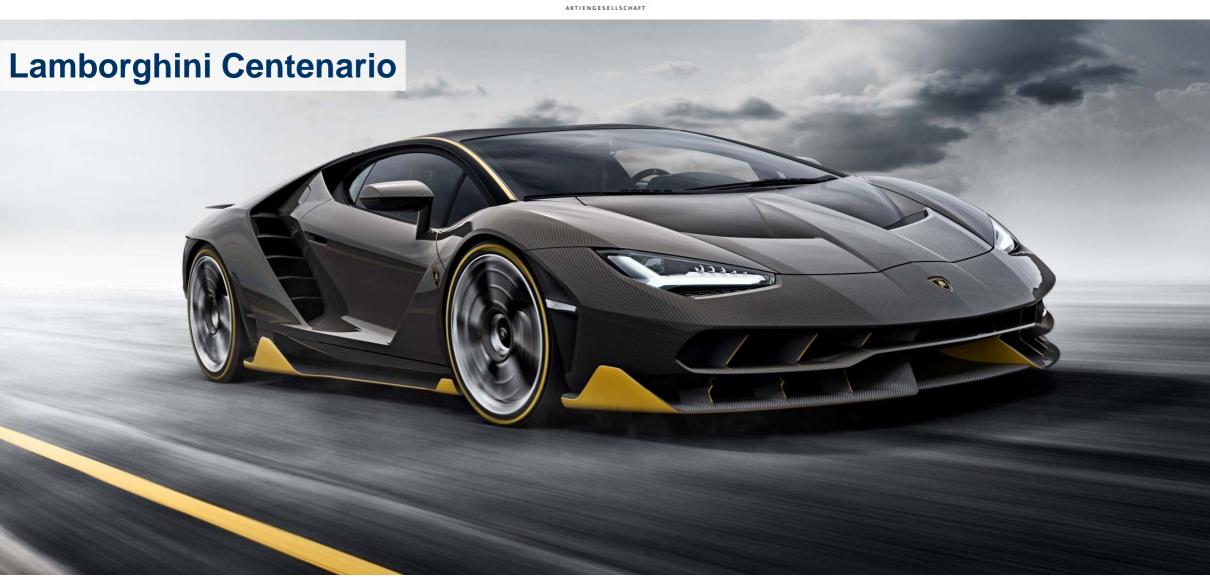


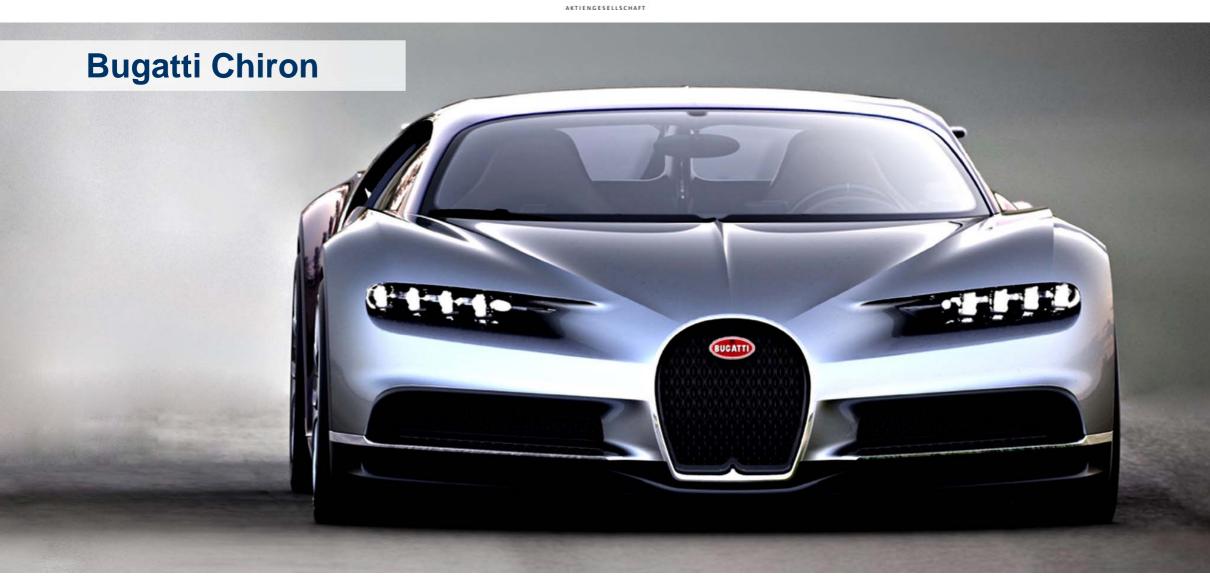














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# VOLKSWAGEN AKTIENGESELLSCHAFT





**Chief Financial Officer** 

Investor Roadshow with Evercore ISI, New York and Boston, 30 November – 2 December 2016