

#### AUTOMOTIVE

## Luxury/Premium Portfolio Expansion in light of Regulation

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# Changing market framework causes a shift in information requests in the premium/luxury segment



How will **markets develop** and what are key drivers?



How does **regulatory pressure** and changing customer requirements affect the segment?

How much volume opportunity exists for a new vehicle or version?



Which alternative powertrain applications will emerge?

How do increasing product offers and competition shape the segment? Who are the **segment benchmarks** for new technology and **powertrain** adoption?



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#### **Presentation Agenda**

#### **Luxury Segment**

- Market insights and trends
- Segment development in light of regulation

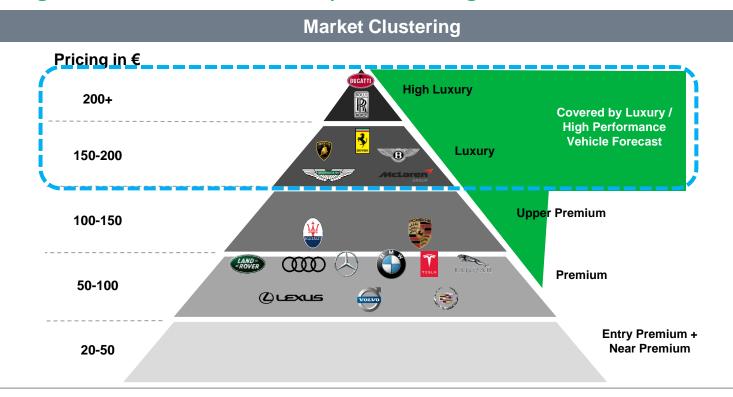
#### **Premium High Performance Segment**

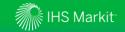
- Market insight and trends
- Segment development in light of regulation





#### **Luxury/ Premium Segment View** Growing IHS Forecast and Analysis Coverage





#### **Growth Drivers**

Product expansion appeals to growing rich with multi-car ownership

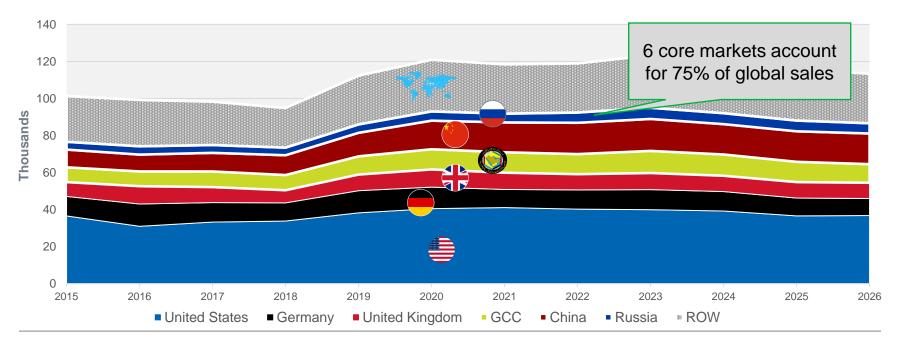




### **Luxury Forecast Insight**

US single biggest market, China offers opportunities despite headwinds

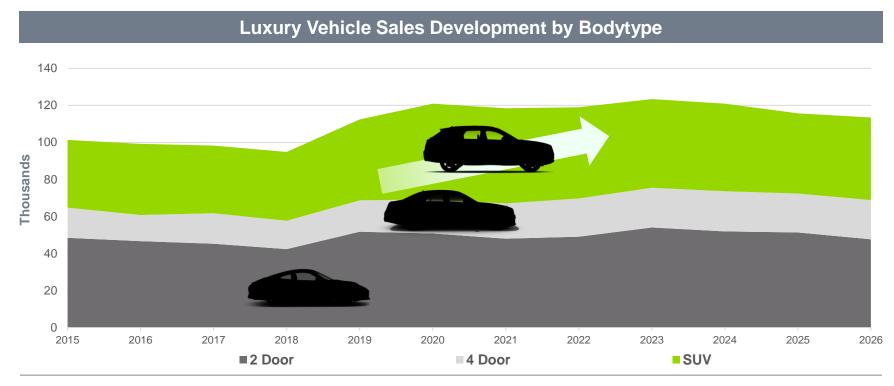
Luxury Vehicle Sales Development by Market

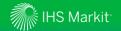




### **Luxury Forecast Insight**

#### SUV expansion as growth driver, traditional 4-door under pressure





#### **Electrification to maintain the traditional engine business**

## *"All Ferraris sold from 2019 will have some hybrid elements."*

Sergio Marchionne Ferrari CEO, Nov. 2016



"A totally electric Urus is a maybe, depending on how technology and regulations develop"

Stefano Domenicali Lamborghini CEO, Sept. 2016



*"In the latter part of this business plan to 2022, more than half our cars will be hybrids."* 

Mike Flewitt McLaren CEO, May 2016

McLaren

"So the way to keep the V12 and V8... is to create the opposite ... – pure electric..."

Andy Palmer Aston Martin CEO, April 2016



ASTON MARTIN

"From my point of view, plug-in hybrid technology provides the best of two worlds"

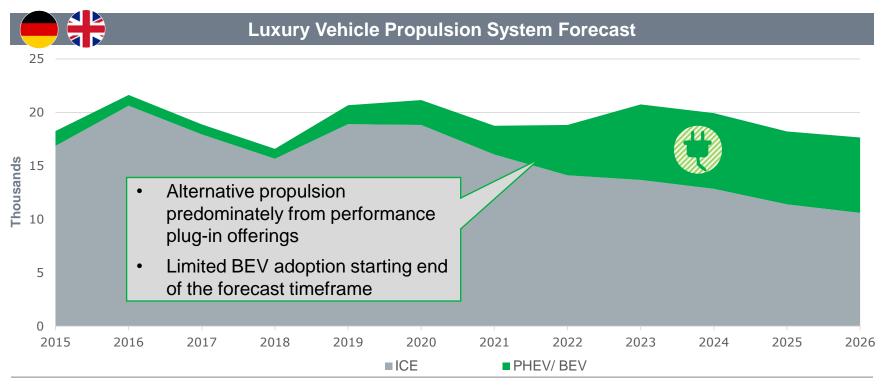
Wolfgang Dürheimer Bentley CEO, Jan. 2017





## **Luxury Segment Powertrain Outlook**

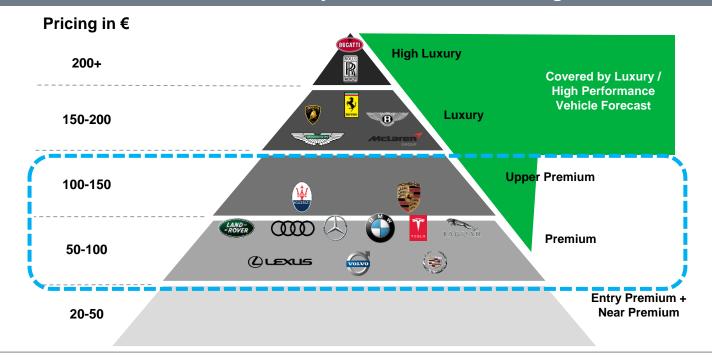
Growing offering range and customer acceptance to change the mix





#### **Luxury/ Premium Segment** Growing IHS Forecast and Analysis Coverage

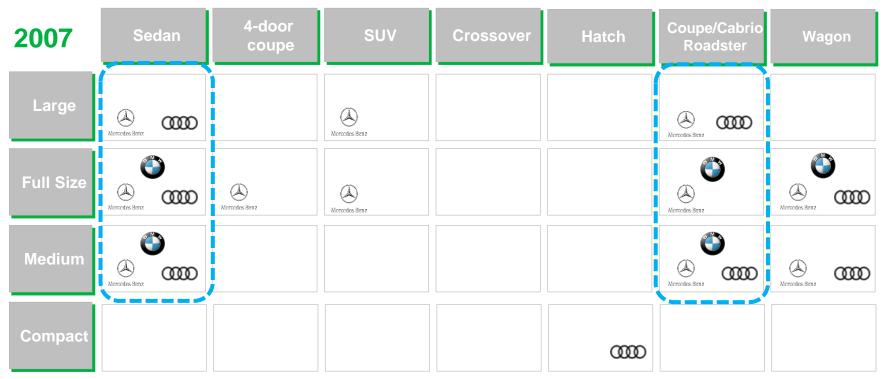
Premium/ Luxury Vehicle Market Clustering





### **German 3 Performance Vehicle Lineup**

#### From emphasis on 2 main vehicle clusters and higher size groups...

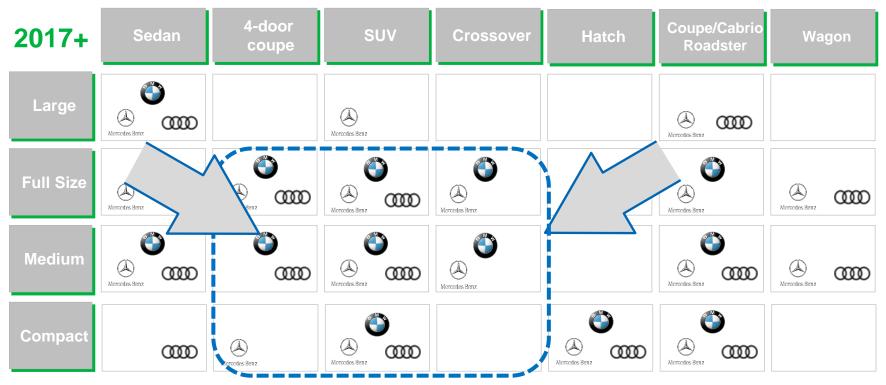






#### **German 3 Performance Vehicle Lineup**

#### ...to successful, continued expansion into high demand trend segments



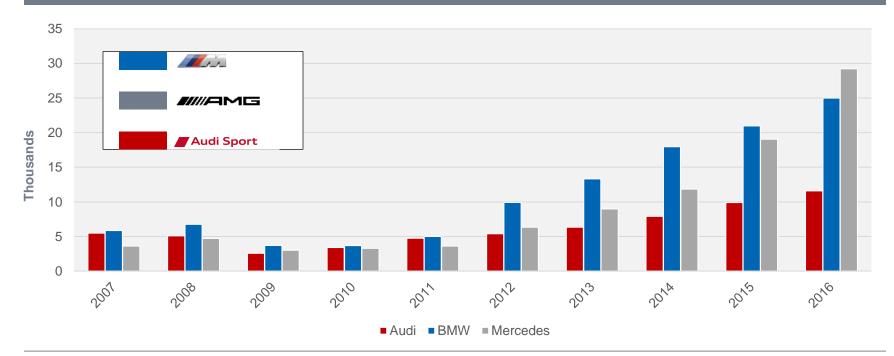
📶 📶 🖉 🖉 Audi Sport



#### **Performance Vehicle Sales**

#### Resulting in major volume growth from compact and entry performance

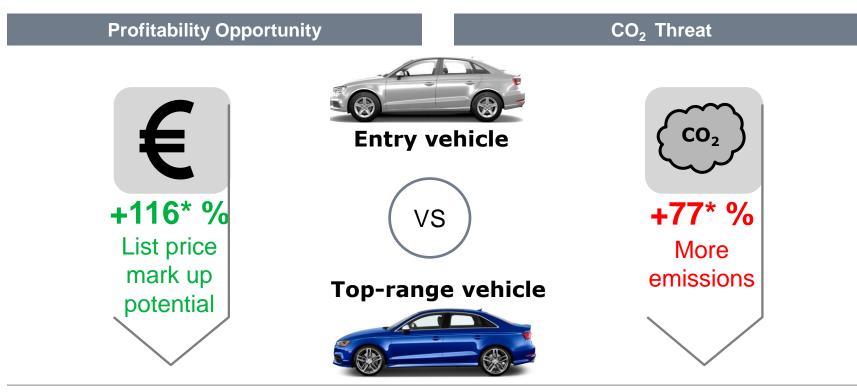
Western Europe Sales Development\*





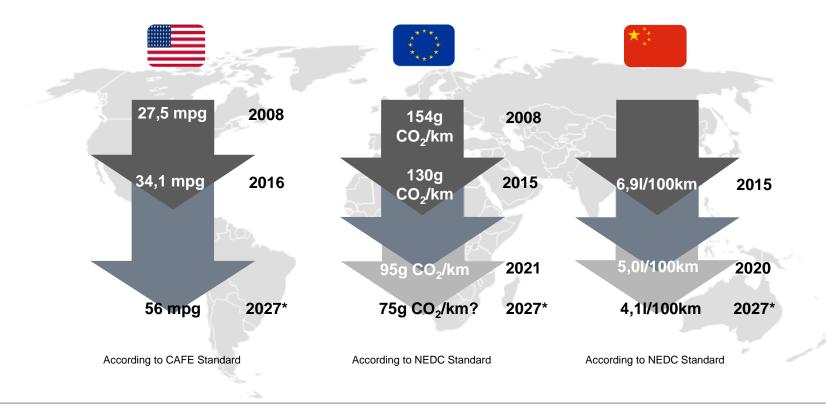
#### **Sales Growth Implications**

Positive business case increasingly clouded by CO<sub>2</sub> worries





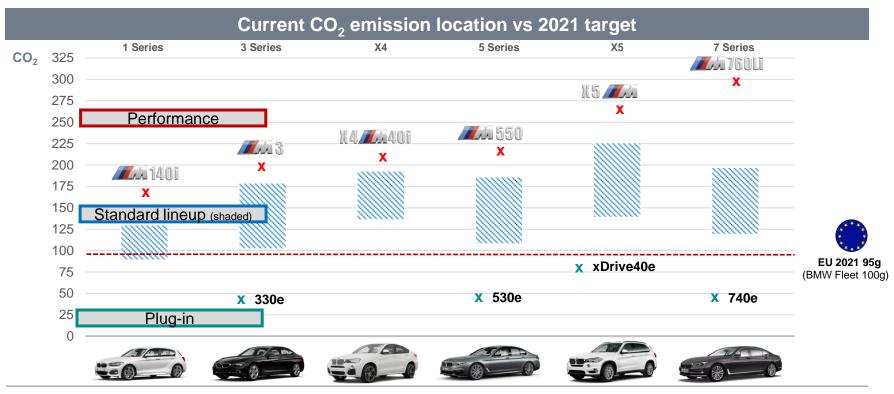
#### **Vehicle Emission Target Regulation**





#### **Emissions Overview**

#### Performance emissions considerably above target while sales grow

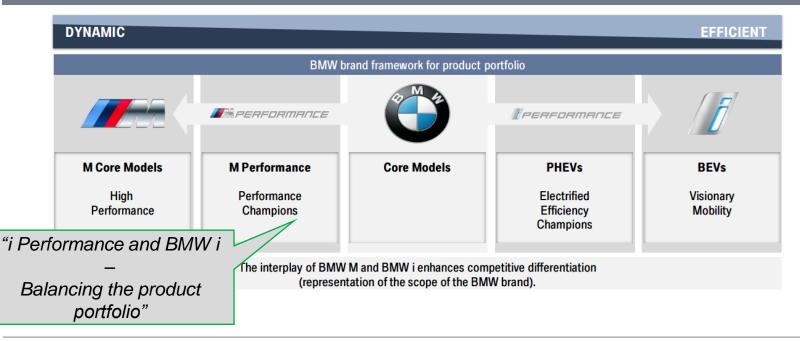




## **Adjusting the Portfolio**

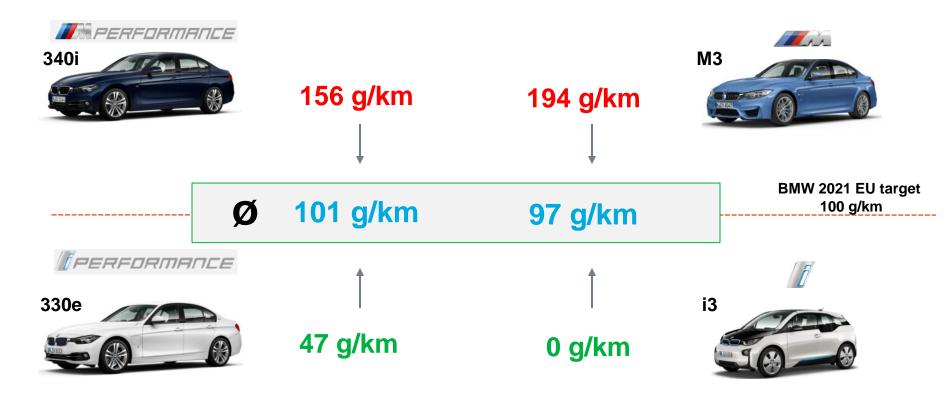
Electrification rollout to balance emissions and protect trad. performance

#### **BMW** product portfolio expansion



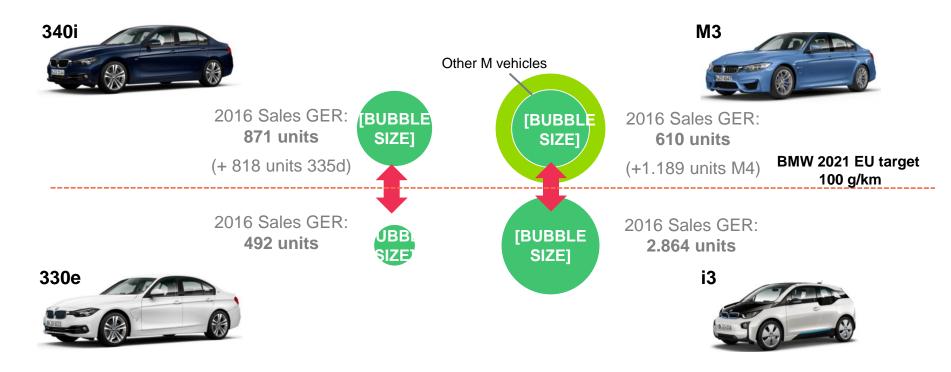


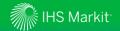
#### M and i vehicles theoretically offsetting each other...





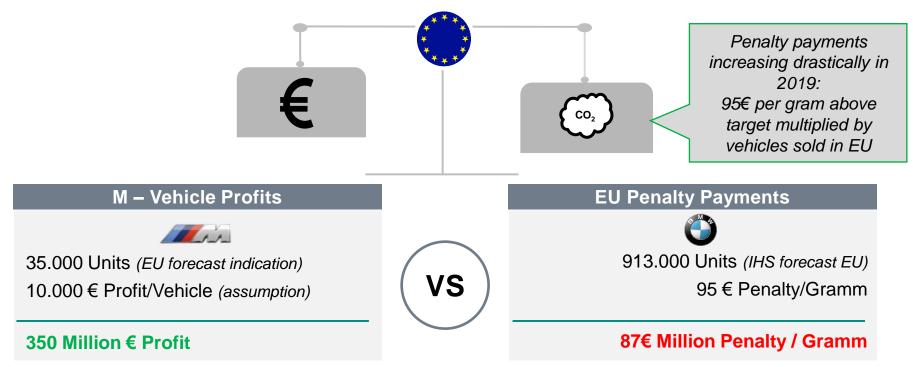
#### ...yet buying preferences do not enable a compensation





## **Increasing Evaluation: Penalty vs. Profit?**

Performance shall not become decisive factor to miss fleet goal





#### **Performance Powertrain Outlook**

#### Mid-term adoption of performance plug-ins, BEV expected long-term

Powertrain Roadmap			
Phase 1	Phase 2	Phase 3	
		<b>Performance BEVs</b> With BEV technology progress (power to weight), performance variants to emerge	
	<b>Performan</b> PHEV used as performance bo		
<b>Performance</b> Continued downs Mild hybridization to redu	sizing		
Now	2021	2025+	
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#### **Performance Powertrain Outlook**

#### Assuming clear reduction targets imposed, up to 30% xEV required

Powertrain Roadmap		
Phase 1	Phase 2	Phase 3
ICE [CATE GORY NAME] 100%	[CATE GORY NAME] 19%	[CATE GORY NAME] 25%
Now	2021	2025+



### **Summary and Key Takeaways**

- Expansion of luxury/ premium performance offerings leading to a sizable volume growth forecast.
- US and West Europe remain the key sales markets, China is growing with roomier concepts and lower engine size versions.
- The business is highly profitable, but tightening emission regulation will make the combination of high volume / high emissions an issue.
- Mid-term outlook: Securing traditional high-cylinder ICEs by means of latest fuel saving technology, downsizing and eventually plug-in applications. Understanding competitive measures and conquest vs. cannibalization effects becomes key.
- Long-term outlook: Power oriented plug-ins gaining solid volume share and are a necessity (e.g. China cities). BEV performance variants arriving mid-2020s after required technology progress.

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