## Mercedes-Benz

### Strategy Update

October 6, 2020

The following presentation contains forward-looking statements that reflect management's current views with respect to future events. Such statements are subject to many risks and uncertainties. If the assumptions underlying any of these statements prove incorrect, then actual results may be materially different from those expressed or implied by such statements. For further details, please refer to the disclaimer at the end of the presentation.

Our statement of intent:

# We will build the world's most desirable cars.

We will deliver on this intent with our refocused strategy

#### Think

and act like a luxury brand

#### Focus

on profitable growth

#### Expand

customer base by growing sub-brands

#### Embrace

customers and grow recurrent revenues

#### Lead

in electric drive and car software

#### Lower

cost base and improve industrial footprint

Sustainability as a guiding principle

Driven by a highly qualified and motivated team

#### Let us begin with our brand promise



Luxury has always been part of our soul - and it's constantly evolving

It ties together our values and virtues.

It's who we are. It's what we do best.

Luxury is our home field advantage

and our leading edge.

Luxury has always been part of our soul - and it's constantly evolving

It's our job to define it at each moment in time.

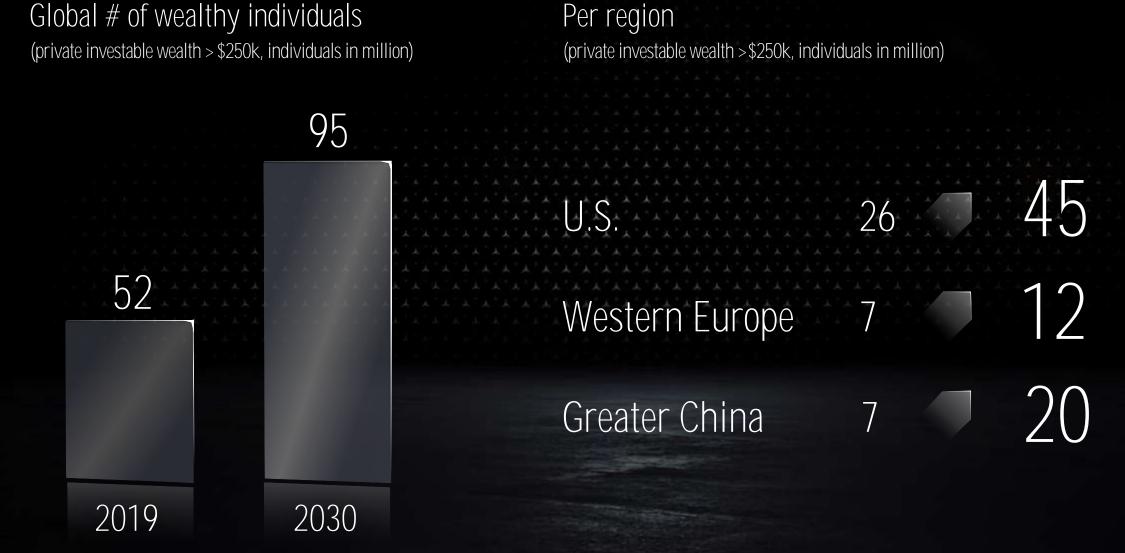


Luxury has always been part of our soul - and it's constantly evolving

And luxury of the future will be sustainable.



#### Luxury is where we belong, and luxury is where the growth is



We will provide the luxury experience across all touchpoints

Brand touchpoints

Product substance

Digital experience





## Luxury is who we are and we will use it to grow economic value.

#### Now let's talk about our strategy and execution in the market place



#### We will focus on profitable growth

#### Profit

Rethink volume ambitions – profitability first

#### Price

Reorientate pricing and channel mix

#### Portfolio

Reshape future product portfolio to optimize returns







#### Rethink volume ambitions: Profitability first

Reinforce our contribution margins with current portfolio – shifting upwards over time

Ensure volume targets focus on the most profitable models and regions



#### Reorientate pricing and channel mix

Markets primarily measured on sales contribution growth

Enhance positioning with optimized product substance

Manage residual values to determine new car supply

Get stricter about channel mix

Improve lifecycle pricing

Reshape product portfolio: We will refocus product development resources to grow in the most profitable parts of our relevant segments



<sup>&</sup>lt;sup>1</sup> Total global LV market; <sup>2</sup> Top 20 premium definition; <sup>3</sup> Large luxury vehicles over approx. US\$ 70k (w/o tax); Source: IHS 08/2020

## We will pursue higher portfolio profitability.

#### Let us explain how we will further target profitable customer segments

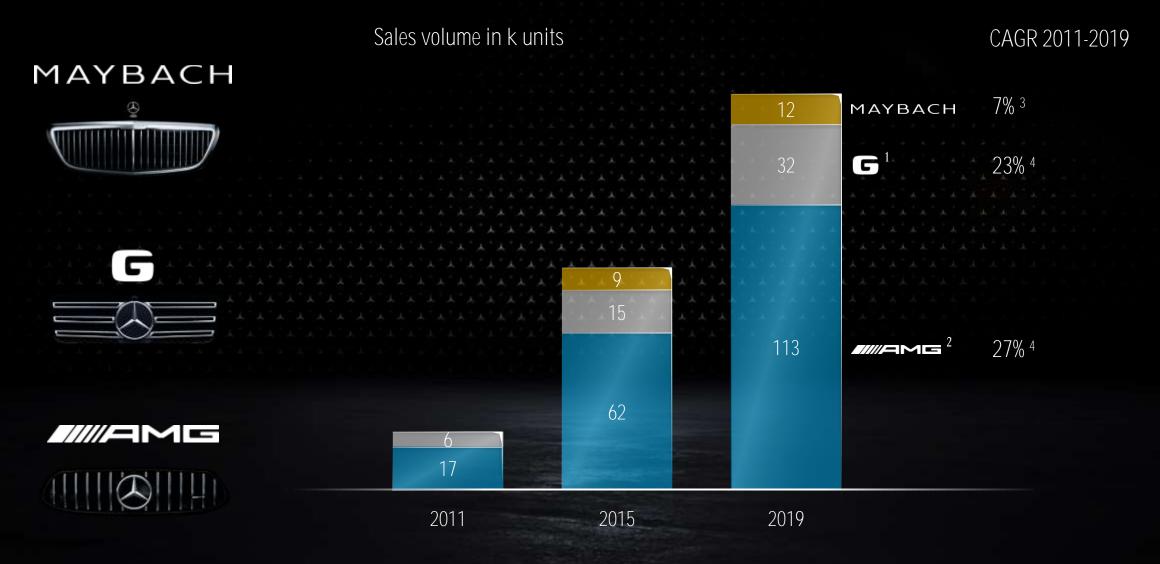


#### Mercedes-Benz is our master brand and will always be our guiding star



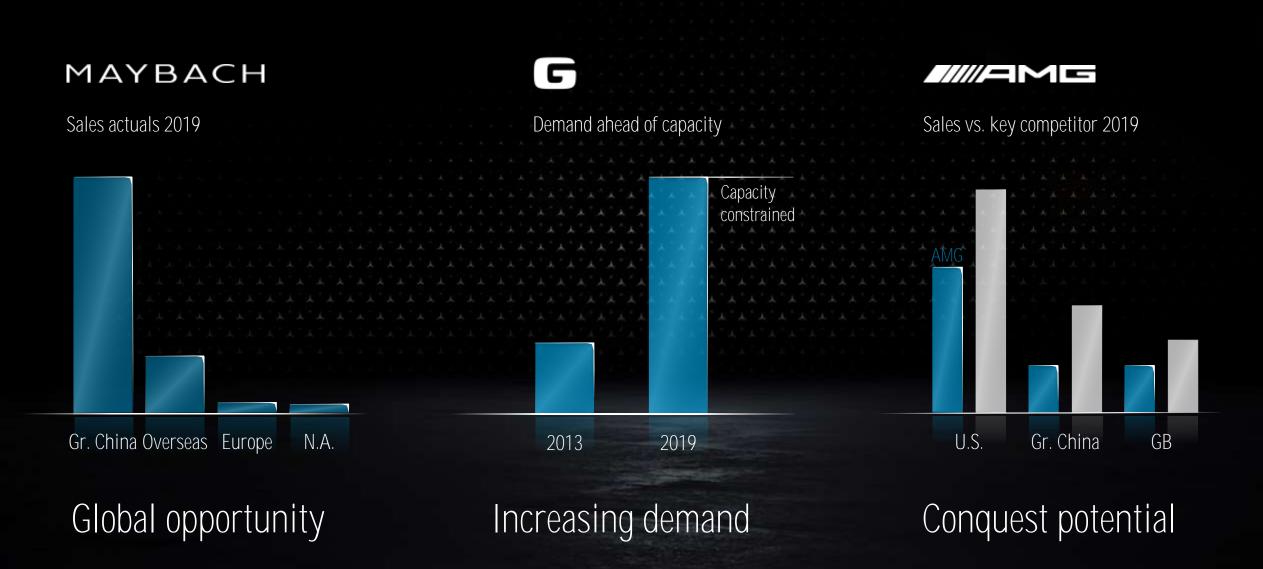
World's most valuable luxury car brand<sup>1</sup>

#### Rapid and highly profitable growth



<sup>&</sup>lt;sup>1</sup> G-Class without model 461; <sup>2</sup> AMG without G63; <sup>3</sup> Maybach CAGR (2015-2019); <sup>4</sup> CAGR of AMG and G-Class with G63 (double counting)

#### Now it's time to accelerate the growth



Our sub-brands will allow us to target specific "tribes" better

### "Brands need to light the fire we can gather around..."

JP Kuehlwein

#### We will unlock the potential of our sub-brands



#### Clear growth plan for every sub-brand



AMG: Significant growth and high-performance electrification

In 2021, the links between AMG and Formula 1 will intensify









We will seek substantial EBIT growth via our sub-brands.

#### Pillar number four – our lifetime approach to customers



The value of monogamy: Life-long relationships with our customers



## It's about owning the customer relationship and leveraging our car parc and customer base

#### Embrace customers

#### Grow recurrent revenues



Luxury experience, greater concentration



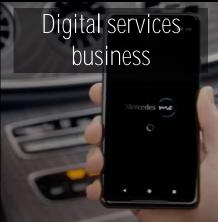
Significant acceleration



Personalized relationships



Still significant profit growth ahead

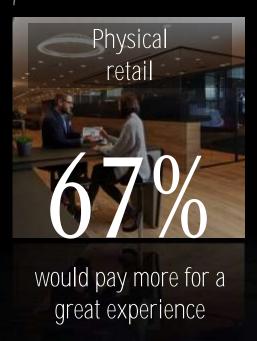


OTA upgrades

## It's about owning the customer relationship and leveraging our car parc and customer base

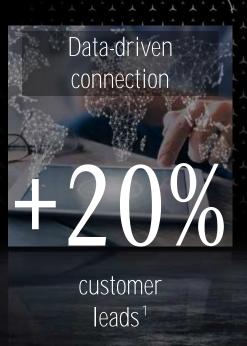
#### Embrace customers

#### Grow recurrent revenues





online sales target in 2025



Service & parts business 80%

data driven workshop business target in 2025 Digital services business

101

€ EBIT target by 2025

We have one of the world's most valuable customer bases – we intend to make the most of it.

## Now let's talk about our technology strategy



## Ambition 2039: Our societal responsibility

2022

Carbon-neutral production globally

2030

>50% xEV share

2039

Carbon-neutral

... and our supply chain will follow our ambition

## Our economic responsibility

Our challenge

Contribution margins on EVs

Technology and eDrive investments

Legacy activities

Our answer

Driving down powertrain costs

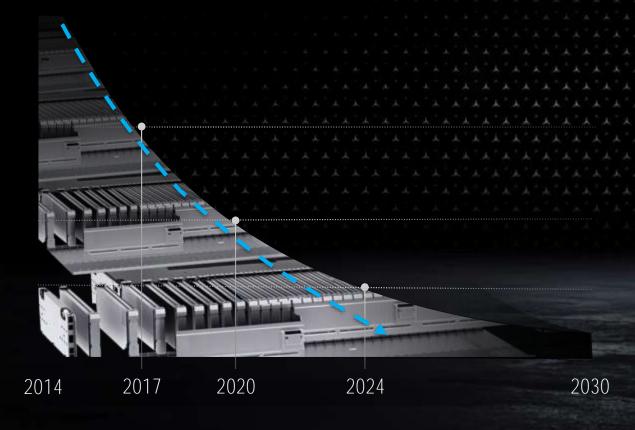
Intelligent platform strategy

Clear plan for the transition

## Our path to higher EV profitability

Costs of batteries coming down faster than originally expected

 $(\mathbb{E}/kWh)$ 



#### Other measures

Significantly below €100/kWh system level by mid-decade (cell/module/system)

Simplified Modular Strategy will drive economies of scale

Partnerships and supply secured beyond 2025

Targeting strong contribution margins for all new architectures from 2025 <sup>1</sup>

New high-end EQ products target solid profitability from the start

#### Our aim is to lead in electric drive



We will rapidly expand our portfolio of luxury xEVs



We will accelerate range and efficiency



We will offer a state of the art charging experience

We will build the world's most desirable electric cars

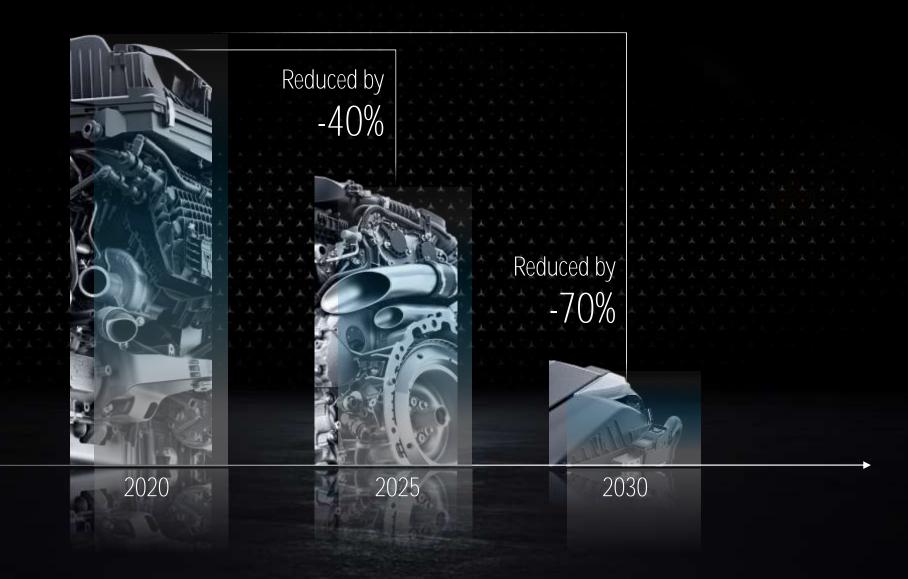
Aiming to take the lead in EV with a true Mercedes-Benz luxury experience – the combination of aesthetics and technology



#### An electric future: We will rapidly expand our electric portfolio



## An electric future: We will significantly reduce our combustion engine variants

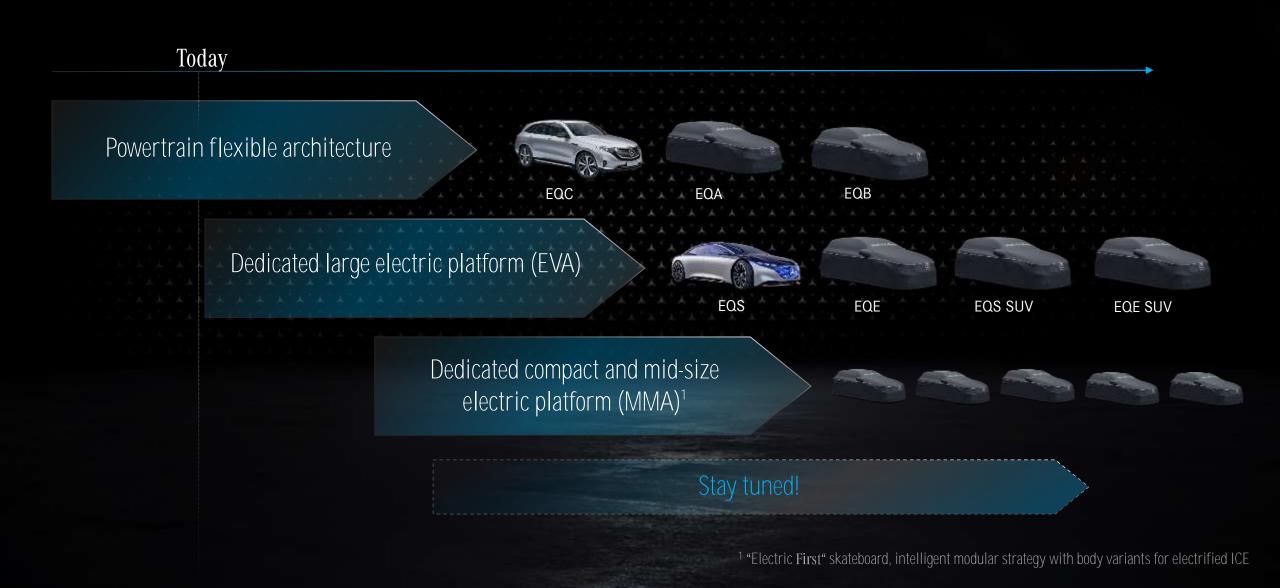


Reduction in variants of combustion engines

## Attractive PHEV products will support reaching CO<sub>2</sub> targets



## We are fully committed to dedicated electric architectures

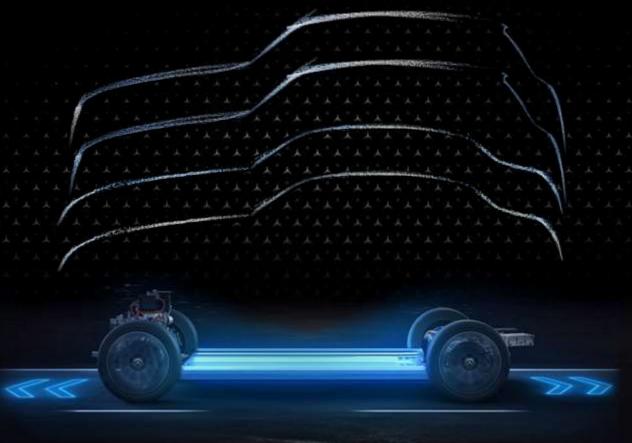


# Launching in 2021: Our dedicated EVA platform for large cars will deliver high-tech performance and luxury

Dedicated electric skateboard architecture

Proprietary Mercedes e-drive technology

Production in Germany, China and U.S.



True luxury experience; exceptionally quiet ride

>700 km WLTP range

Up to 500kw

# The next step: MMA compact and mid-size car electric platform – uncompromising 'Electric First' EV-architecture and modules

Exceptional range

Benchmark high power charging

Highly energy efficient drivetrain & vehicle



Optimized investment & cost structure

Very competitive e-drivetrain costs

Luxury: aiming to offer best noise and comfort in the industry

State-of-the-art digital experience

## Range through efficiency: Focus on all relevant levers and total vehicle optimization



## Next generation of our e-drive unit developed in-house

#### Electric-motor

PMSM-technology<sup>1</sup>
Increase active diameter
Optimized oil cooling concept
Scalable e-motor length

#### 2 speed gearbox

Best cost-efficiency-ratio on system level In 2nd gear one planetary gear active Dog clutch to reduce drag loss

#### SiC-Inverter

Reduction of switching loss (specific transistor) Combined control unit - saves costs & weight Variable switching frequency



Reduction of current & energy losses with same power output for cost & weight savings

## Mercedes-Benz has extensive in-house battery R&D, and also works closely with key strategic development partners

#### Next-gen battery development

#### Cell format and production

- Continuous assessment of different cell architectures
- Internal design of new manufacturing techniques and joint development of processes with strategic partners

#### Anode - increase energy density

- Silicon based anodes: strategic partnership with SILA (specific anode material, capacity, and energy density)
- Lithium metal anodes (specific energy density on cell level)

#### Electrolyte - increase safety

Optimized electrolytes to significantly improve overall cell performance (lifetime, power) and solid-state electrolyte for high energy density chemistries and intrinsic stability

#### Simulation - speed up battery development

Improvement of simulation methods by digital twin simulation (physic based models, matching model vs. reality, multilevel simulations)

#### Cathode - sustainability and cost reduction

- Reduction of cobalt as our contribution to sustainability by increase of nickel-rich cathodes
- LFP cathodes as cost optimized entry type option

Careful capital allocation: We drive innovation via in-house R&D and partnerships – but leverage strategic suppliers for cell production



## Our software delivers a seamless and easy EV-charging experience

80% of public infrastructure is accessible via Mercedes me in almost all markets

Over 350,000 charging stations worldwide one contract, one invoice



The new EQS will offer high speed charging, enabling long distance capability



Range: Towards the next frontier



## Now let us explain our software strategy



We have already made huge strides in our software competence and technology offer

Value of the Note of the Note

ADAS Software

Battery Management Software

MBUX Software

## The digital user experience in the S-Class sets new standards

Crystal clear OLED display and 3D instrument cluster

Biometric authentification

for personalized settings

Over the Air updates

Augmented Reality

head-up display

Intuitive gesture control



Natural voice

interaction in 27 languages

Personalized infotainment

on each seat

#### In 2021, we aim to take automated driving to the next level



L3 Drive Pilot<sup>1</sup>



L4-ready Parking System: <sup>2</sup> Intelligent Park Pilot incl. 3D view



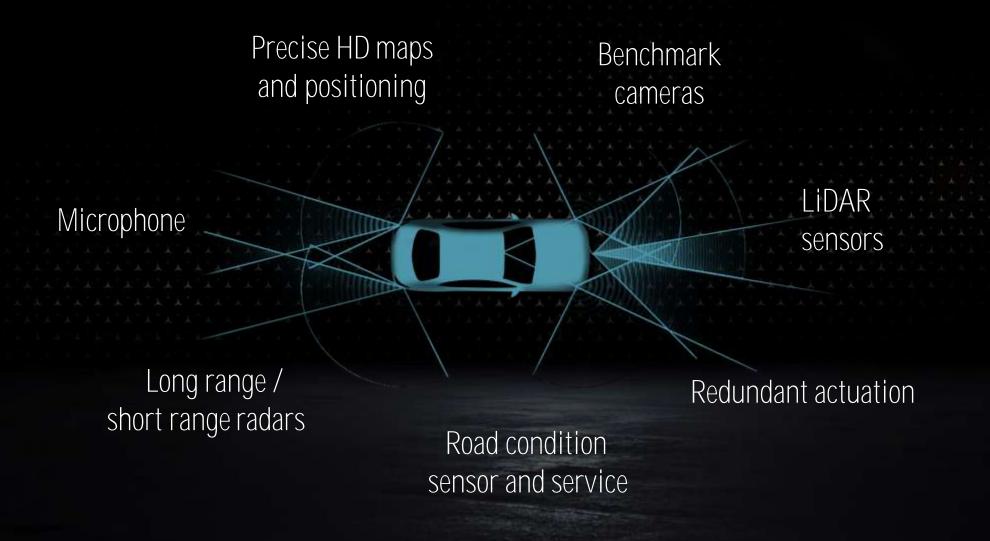
OTA-based learning Automated Driving functions



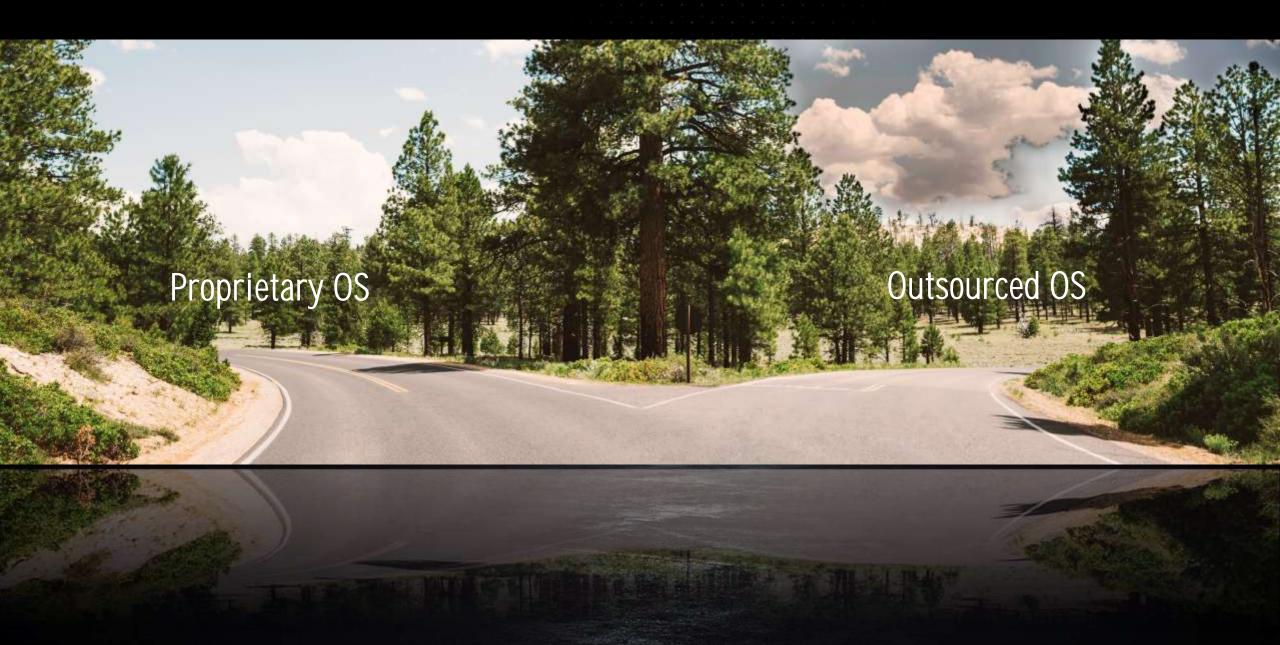
Augmented Reality

Automated Driving experience

## L3 S-Class: Technology suite including LIDAR and high definition maps



Decision time for the industry: Which software path to choose?



Our own proprietary operating system will deliver an extraordinary customer experience



Compelling luxury experience
Speed of execution
Higher customer loyalty

Scalable, lower variable costs
Lower complexity
Recurrent revenues

### What exactly is MB.OS? And what will Mercedes-Benz develop?

#### Vehicle software

Frontend Layer 100% in-house

Applications Layer Mainly in-house<sup>1</sup>

Middleware Layer Partially in-house

Infrastructure Layer Partially in-house

Cloud/ IoT

5 domains:
Drive train
Autonomous Drive
Infotainment
Body control
Communications

Full integration by Mercedes-Benz

#### Vehicle hardware

Sourced from suppliers but chipset specifications defined by Mercedes-Benz (key strategic partners)

Consolidated hardware strategy away from many ECUs

We will deliver MB.OS by 2024 by further expanding our international software development network – but remember "smart teams are better than big teams"



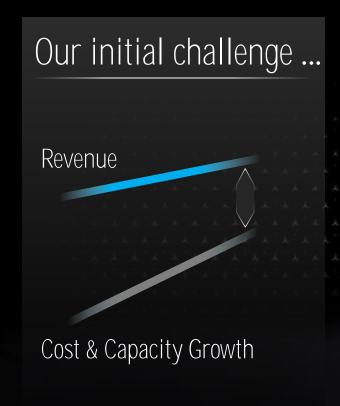


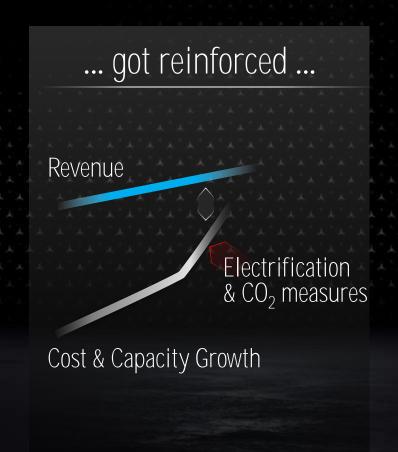
Leadership in electric drive and proprietary car software will be essential for our future success.

#### Finally, let's talk about our financial framework



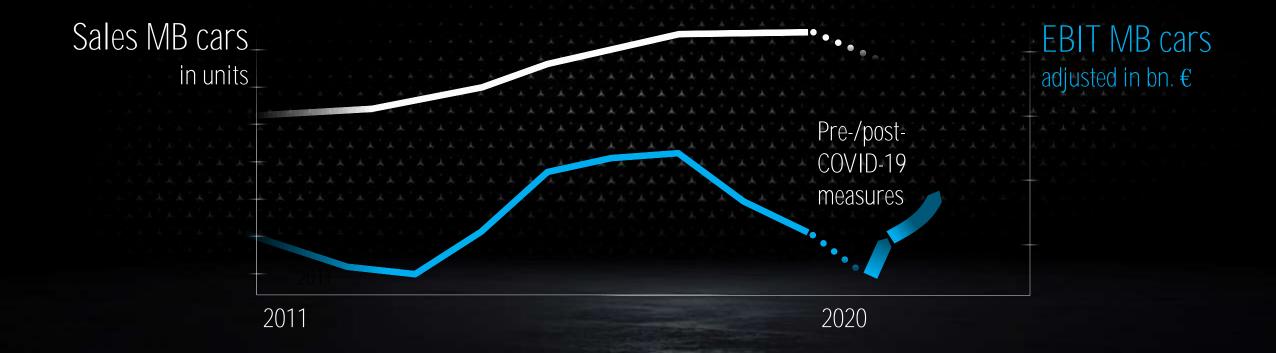
## The challenges are clear







## Our break-even point is too high



In response we have stepped up our cost reduction and capacity adjustment measures

Significant short-term cost reduction and cash preservation measures implemented and being continued

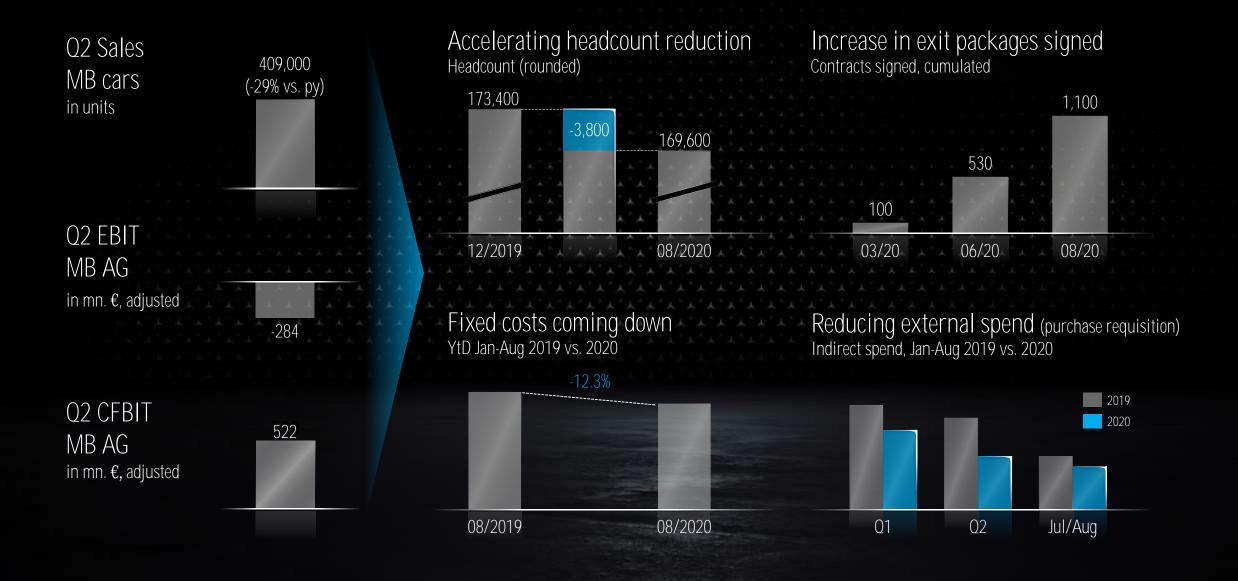
Substantial cost reduction and capacity adjustment measures to lower break-even point initiated:

- CAPEX and R&D
- Fixed costs
- Variable costs (internal & external)
- Capacity adjustment and powertrain transformation

Driving continuous performance improvement culture



## Indicators of change



#### We will lower CAPEX and R&D

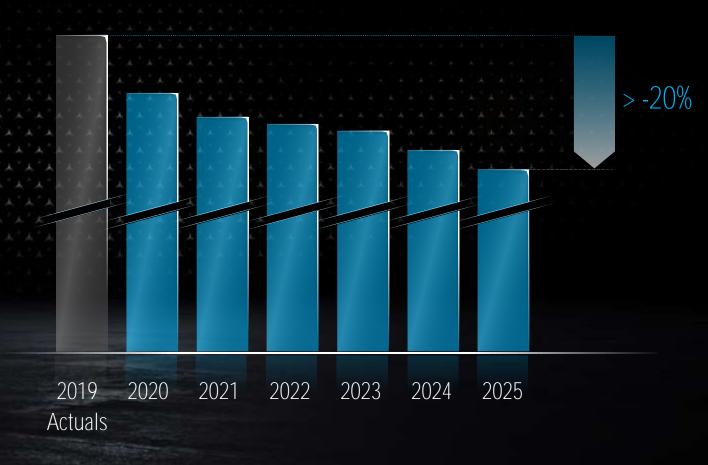
#### Key levers

Reduction of platforms/portfolio, and vehicle complexity

Reduced spending on conventional powertrain and highly standardized EV architectures

Streamlined industrial footprint

Absolute € budgets year by year for CAPEX and R&D (not % of sales targets)



## We will significantly reduce our fixed costs

#### Comprehensive fixed cost optimization scope, including

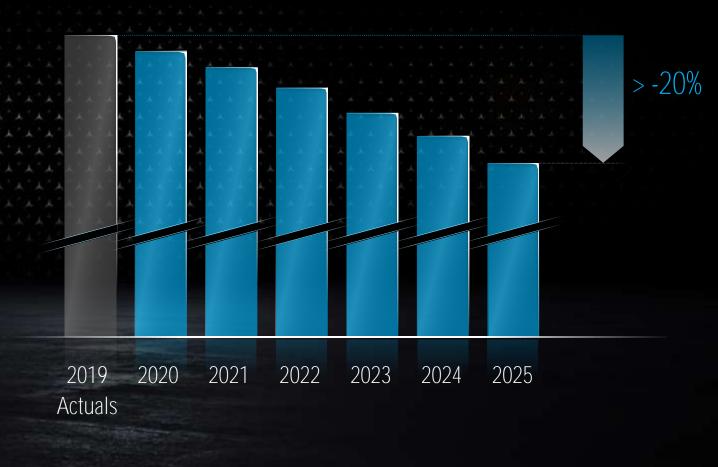
Absolute fixed cost reduction

Personnel cost reduction targets continued through to 2025

Adjustment of production capacity

Structural change in marketing & sales

Sustainable implementation of COVID-19 learnings, e.g. travel, consulting, facility management, etc.



## We will reduce variable costs to mitigate CO<sub>2</sub> burden

Comprehensive optimization of all external and internal variable cost levers, including

Increased saving targets for material costs

Ambitious targets for variable manufacturing costs

Reduction of variable sales costs



We have initiated a series of transformational actions to drive down costs

## Lower cost base and improve industrial footprint

Operational Portfolio and complexity Future Supply Performance footprint strategy reduction culture sales setup Global engineering Powertrain IT and E2E processes and Governance footprint full digital value transformation and admin organizational complexity

#### Our financial ambitions for MB AG 2025

Market environment/revenues







Contribution margin

> -20% vs. 2019

> -20% vs. 2019

Profitable growth

> -20% vs. 2019

CAPEX and R&D (CF impact)

> -20% vs. 2019

> -20% vs. 2019

> -20% vs. 2019

RoS MB AG

Fixed costs

Mid to high single digit

High single digit

Double digit

Cash conversion

0.7 - 0.9x

## In summary: Our refocused strategy

#### Think Embrace Focus Expand Lead Lower and act customer base customers and in electric cost base on and improve like a luxury profitable drive and by growing grow recurrent industrial sub-brands car software brand growth revenues footprint Grow economic Absolute cost Higher portfolio Significant profit Substantial Leverage reduction value profitability EBIT growth technology streams

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Sustainability as a guiding principle

Driven by a highly qualified and motivated team

#### Disclaimer

This document contains forward-looking statements that reflect our current views about future events. The words "anticipate," "assume," "believe," "estimate," "expect," "intend," "may," "can," "could," "plan," "project," "should" and similar expressions are used to identify forward-looking statements. These statements are subject to many risks and uncertainties, including an adverse development of global economic conditions, in particular a decline of demand in our most important markets; a deterioration of our refinancing possibilities on the credit and financial markets; events of force majeure including natural disasters, pandemics, acts of terrorism, political unrest, armed conflicts, industrial accidents and their effects on our sales, purchasing, production or financial services activities; changes in currency exchange rates and tariff regulations; a shift in consumer preferences towards smaller, lower-margin vehicles; a possible lack of acceptance of our products or services which limits our ability to achieve prices and adequately utilize our production capacities; price increases for fuel or raw materials; disruption of production due to shortages of materials, labor strikes or supplier insolvencies; a decline in resale prices of used vehicles; the effective implementation of cost-reduction and efficiency-optimization measures; the business outlook for companies in which we hold a significant equity interest; the successful implementation of strategic cooperations and joint ventures; changes in laws, regulations and government policies, particularly those relating to vehicle emissions, fuel economy and safety; the resolution of pending government investigations or of investigations requested by governments and the conclusion of pending or threatened future legal proceedings; and other risks and uncertainties, some of which we describe under the heading "Risk and Opportunity Report" in the current Annual Report or latest Interim Report. If any of these risks and uncertainties materializes or if the assumptions underlying any of our forward-looking statements prove to be incorrect, the actual results may be materially different from those we express or imply by such statements. We do not intend or assume any obligation to update these forward-looking statements since they are based solely on the circumstances at the date of publication.