DAIMLER

Sustainability Management & Environment@Daimler

ESG Conference SOCIETE GENERALE, November 7th 2017, Paris

- I. Organisation, Scope & Targets
- II. Holistic approach towards Environmental Challenges
- III. Production related Issues
- IV. CO₂ & Electrification
- V. CASE

Our Sustainability Management Daimler Group

Board of Management

Corporate Sustainability Board (CSB)

Human Resources

Communication

Policy and External Relations

Purchasing

Member of the Board of Management/ Co-Chair CSB reports to the General Management

Group Research & MB Cars Development

Integrity and Legal Affairs Environmental Protection

Mercedes-Benz Cars



Daimler Trucks



Mercedes-Benz Vans



Daimler Buses



Daimler Financial Services



Responsibilities and interfaces of Corporate Environmental Protection

Board of Management

Determine goals and areas of activity

Politics & Society

ocial s

Analyze





Push worldwide implementation of goals and ensure legal compliance

Environmental Officer Business Units Communication & Dialogue

Daimler Sustainability Program with Target Horizon 2022









































MBC fleet consumption: -25 %









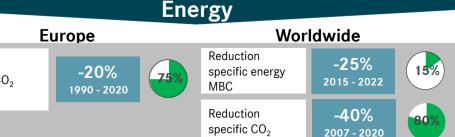


Our contribution to the implementation of the UN Sustainability Goals (SDG)



Daimler environmental protection targets 2022 structured by...

Reduction absolute CO₂ emissions



Climate Protection &

Air Quality & Health

Resource Conservation

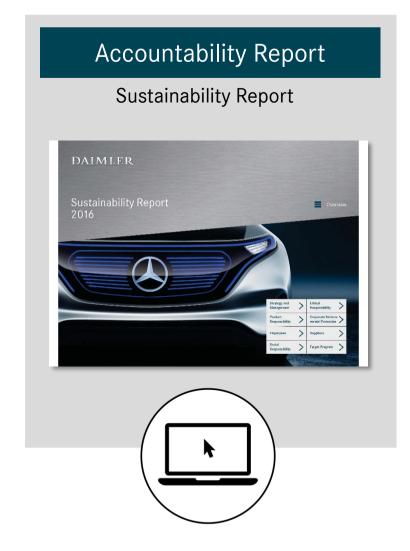
MBC Reduction specific water consumption	-15% 2015 - 2022	25%
MBC Reduction specific waste amount	-25 % 2015 - 2022	0%



Reduction CO ₂ emissions passenger cars	2007- 2016 2007 - 2021	100%	Reduction CO ₂ emissions passenger cars and LDT USA	2012- 2019	50%	Market launch of 10 models, which conform to the future legislation	End	400
Reduction CO ₂ emissions light CV	2014 - 2018	30%	Reduction CO ₂ emissions cars China	2012- 2019	80%	Real Driving Emissions (Step 1)	2017	60%
Reduced consumption heavy CV	2005- 2020	70%	Reduced cons. heavy CV (NAFTA)	2015- 2019	0%	Ensure allergy sufferer friendly interiors for all	Ву	1009
Reduced cons. of buses	2005- 2020	75%				new passenger car models	2020	
Reduction of CO ₂ and nitrogen oxide emissions over the entire life cycle for each new model generation							10-20% vs. predecessor	100%
Achieve a leading position in premium segment of electric and hybrid vehicles						End 2017	60%	



Daimler Sustainability Report 2016





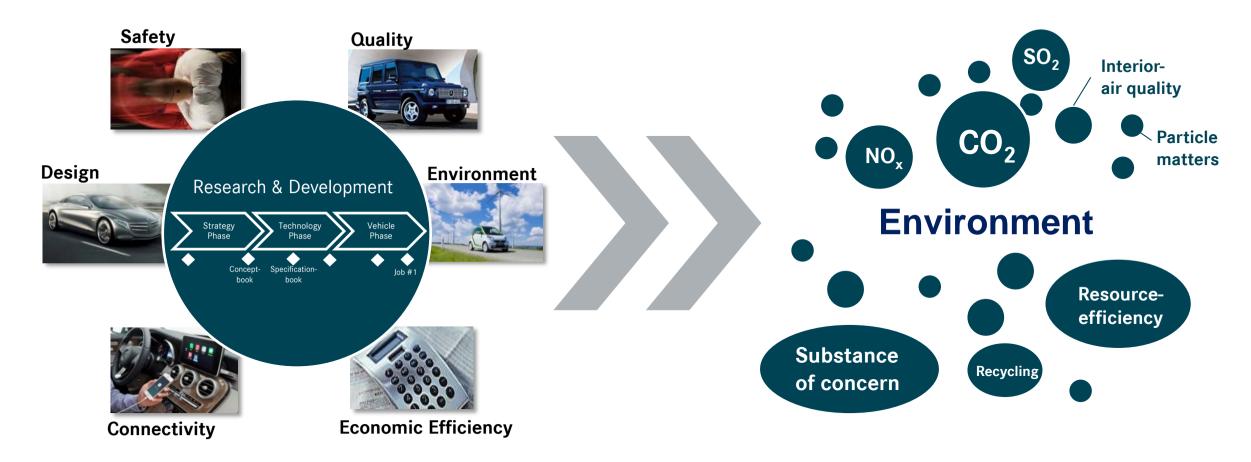




Elements of the environmental management system RD with focus on design for environment



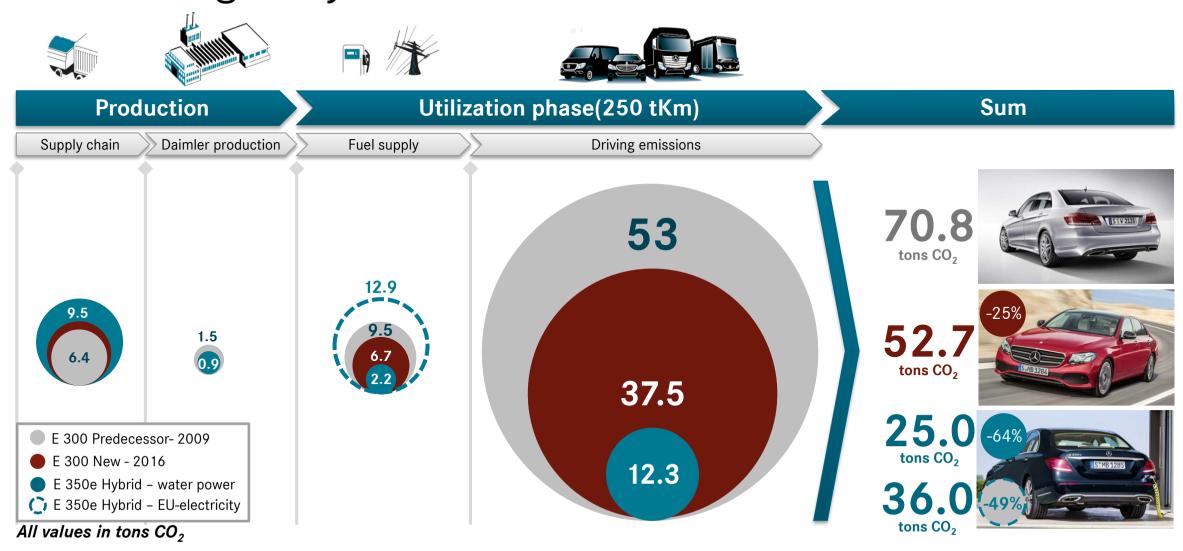
Challenges for research & development of automobiles



Balancing of disparate requirements in a permanent task in Research & Development

Within the different environmental targets contradictory effects are possible

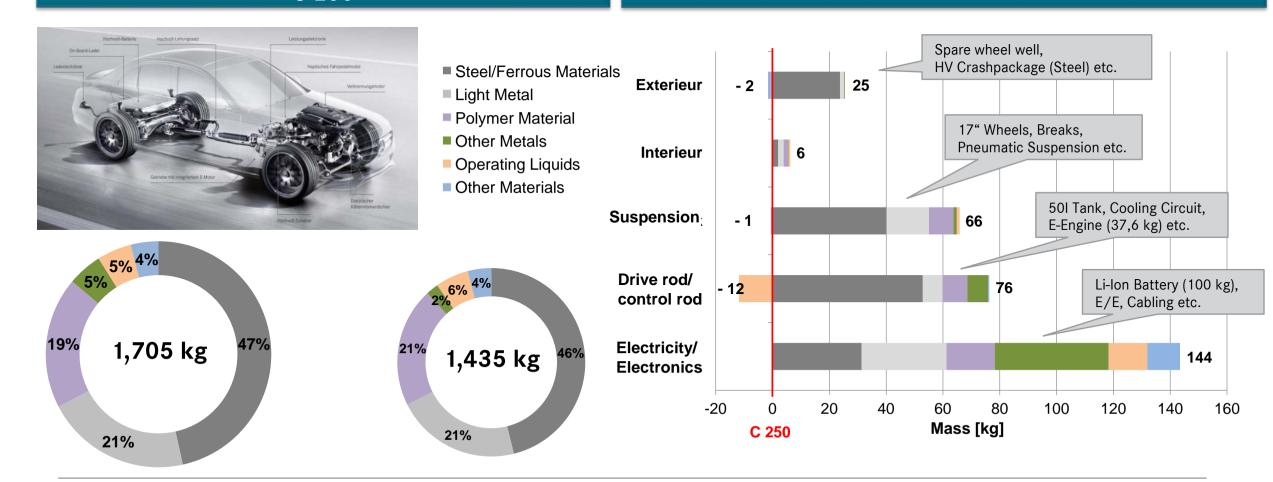
For our Products a look at the whole life cycle is crucial – E-Class Plug-In Hybrid E 350 e



The resource input of C 250 and C 350 e Comparison of Material Composition

+ 270 kg additional weight of C 350 e compared with C 250

Comparison of Modules [kg] (C 250 vs. C 350 e)

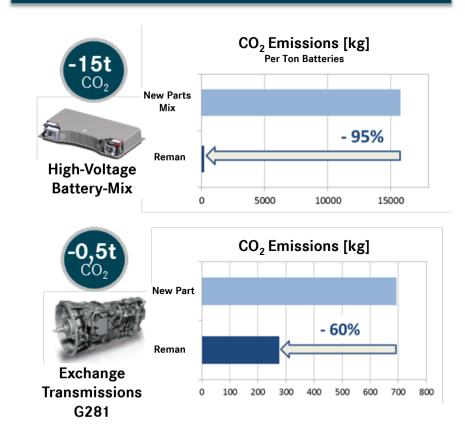


Remanufacturing / Product Recycling New Life for Used Parts

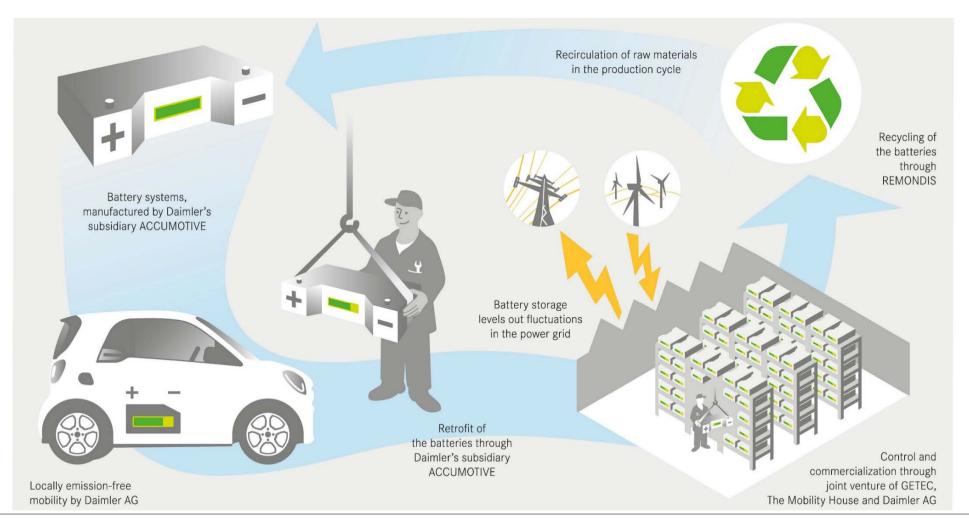
Over 12,000 Parts in Reman Portfolio - incl. E-Drive Components...

Steering Cylinder Head Instrument Cluster Catalyst Engine Break Caliper Transmission Power Steering Pump Air Conditioning Turbocharger Reman-Prozess HV-Batteries for E-Drive Passenger Cars - Plant Mannheim Control Units Starter Generator COMAND Transfer Case Drive Shaft Converter Airmatic Water Pump Air Condition Contro

...with significant environmental benefits

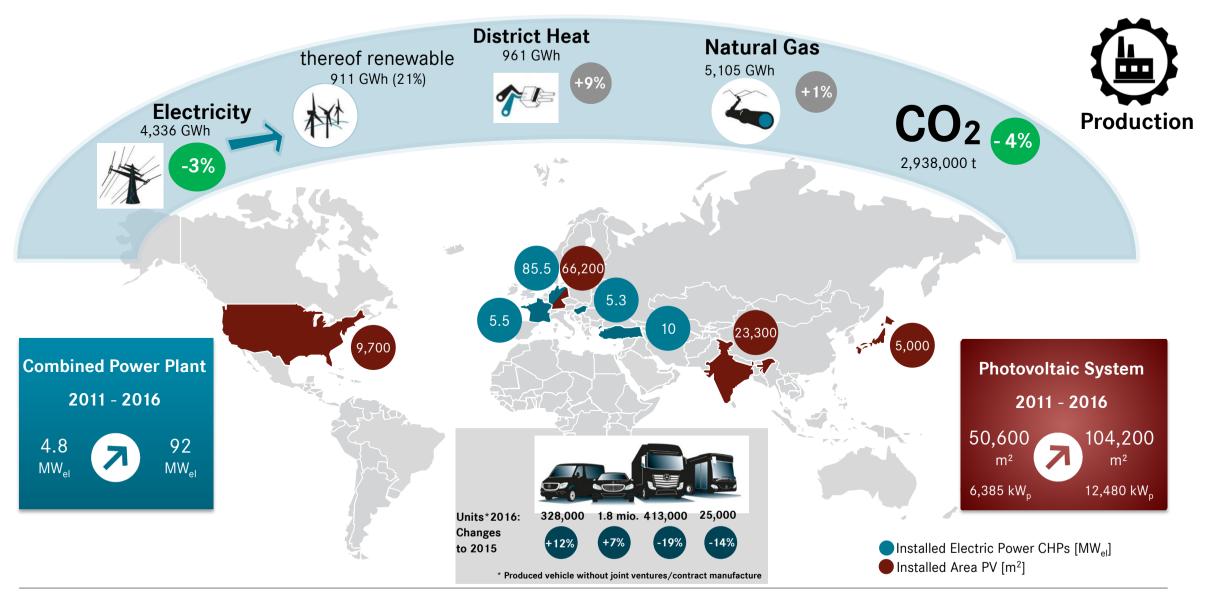


E-Mobility thought to the end World's largest 2nd-use battery storage (13MWh) in operation





CO₂-Reduction and Energy Efficiency in our Daimler Plants



AREUS: EU-Project for Automotive Production in the future



Challenges:

- Volatile electricity grid quality and renewable energy supply
- Rising electricity prices

Project components:

- Reduction of Energy Consumption of Industrial Robotics
- New direct current architecture
- Intelligent network management
- Energy generation by recuperation

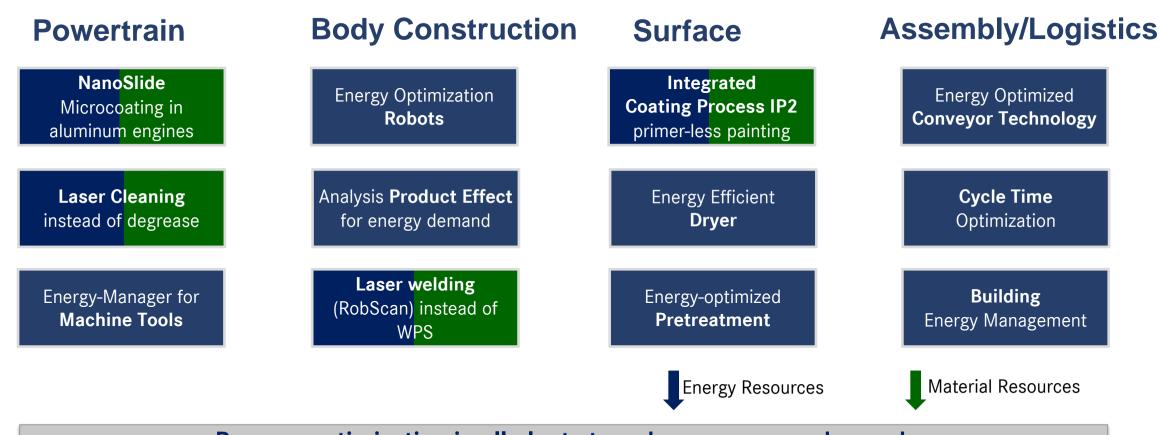
Use:

- ➤ Energy efficiency: +10-20 %
- Stability against electricity grid fluctuations
- Direct integration of renewable energies
- > Possibility of buffer storage

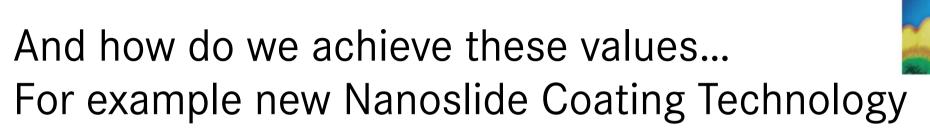


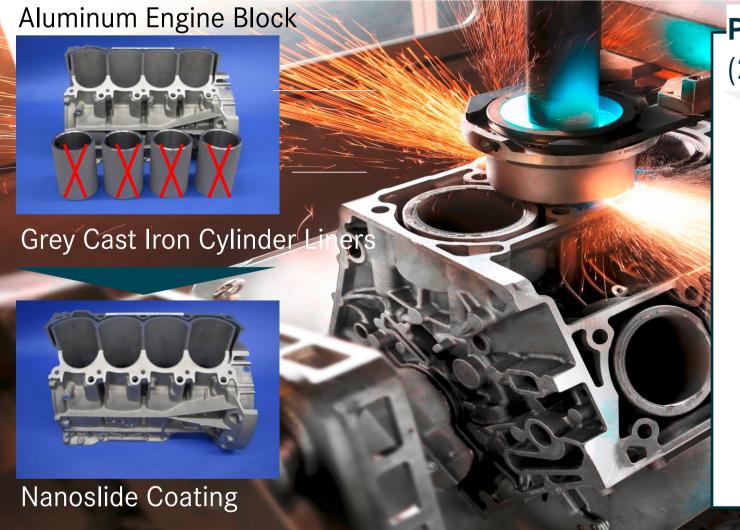


Production: Technical Modules to improve environmental performance



Process optimization in all plants to reduce recourses demand, especially focusing on the energy issue





Process Optimization

(2nd Generation*)

Mechanically Roughening

instead of

High-Pressure Water Jet

-Electric Energy

- ca. 700 MWh/a per module (Plan: 4 modules)
- ca. 22,500 MWh over life cycle

-Process Water

- ca. 15,000 m³/a per module (Plan: 4 modules)
- ca. 480,000 m³ water over life cycle

Recirculation of aluminum chips

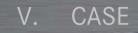
- Reduction of 8% primary aluminum
- Elimination of 15 t/a aluminum slurry

*) FAME = Family of Modular Engines = new family of state-of-the-art ku = kilo units

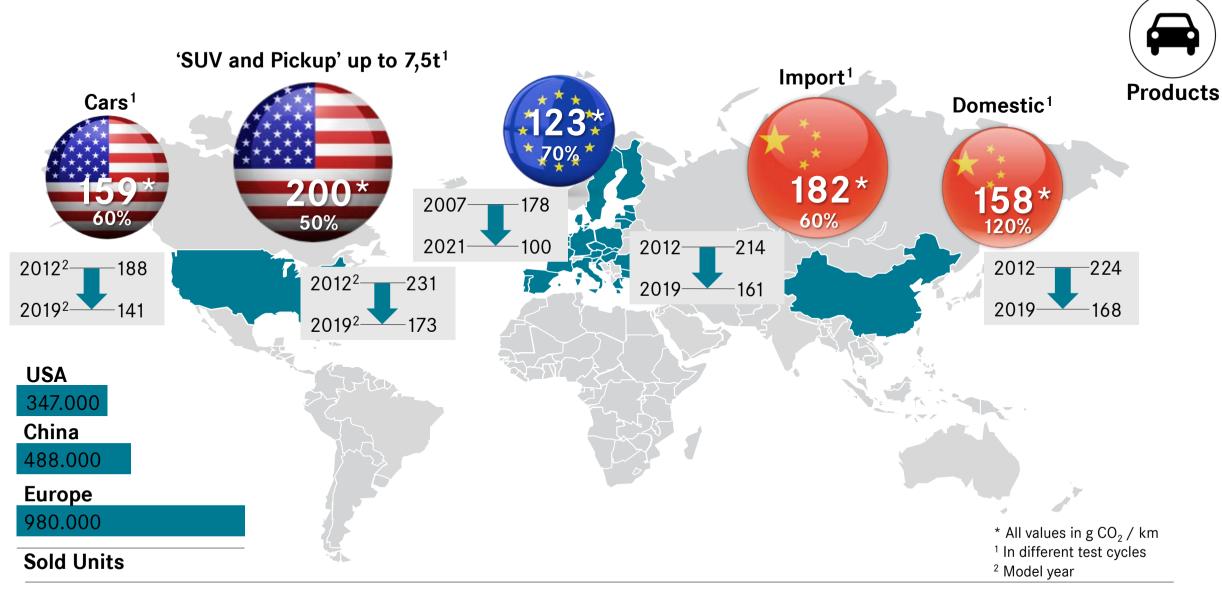
Awards for the



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CO₂-Emissions of our Car Fleet is well on the Way



DAIMLER

Our road to emission-free driving



Powerful and efficient: The new 4-Cylinder Diesel OM 654 sets standards in terms of environmental compatibility

- 17% Weight Reduction
- 24% Friction Losses
- 13% CO₂-Reduction
- 80% NOx-Reduction
- 14% Performance Increase
- 11% Improved Acceleration



Aluminum-Crankase

Nanoslide Coating

Stepped Combustion Bowls

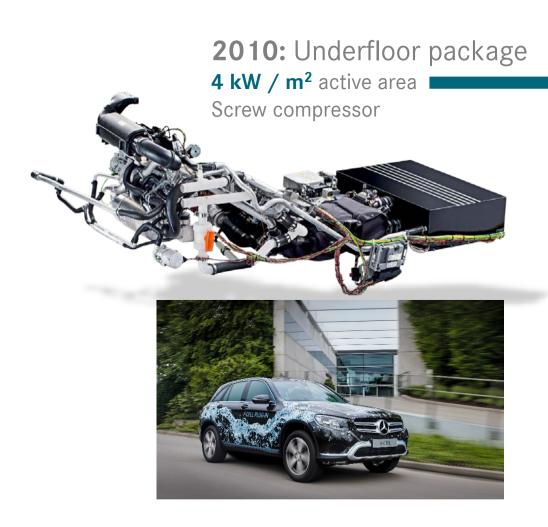
Engine-Related Emission Control

Rollout of plug-in-hybrids as important step: Already 8 models on the market and more to come soon...





Next generation fuel-cell system: huge technological progress



2017: Compartment package

9 kW / m² active area

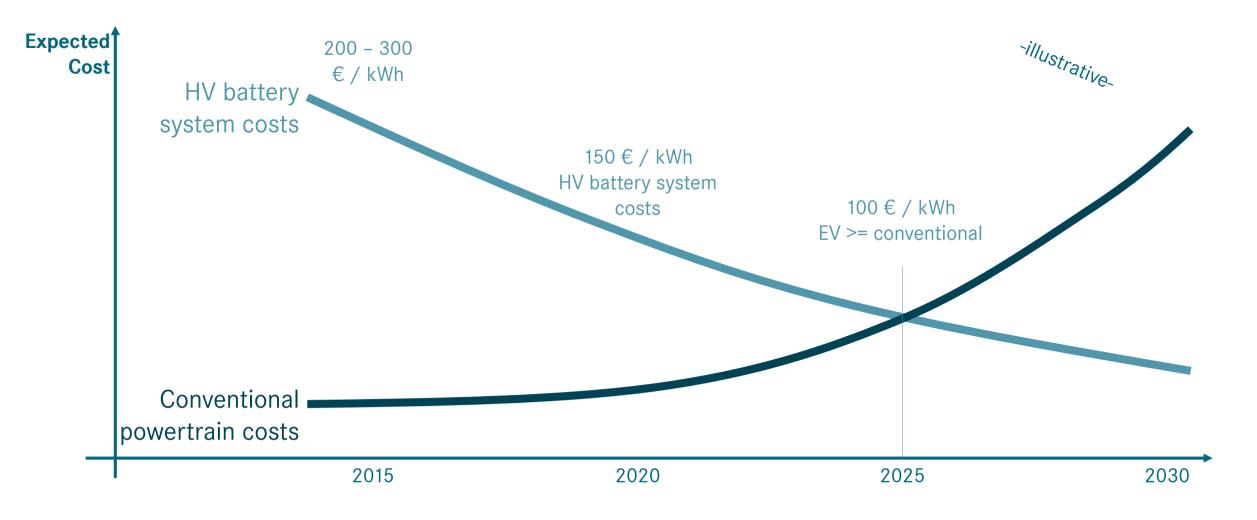
Electric turbo charger with turbine



- 30% reduction fuel cell engine size
- 90% reduction of Platinum
- 30% higher electric range in future vehicles
- 40% higher system performance

Emission regulations and battery technology development favour battery cost position





Electric Line Up extended into the Future









SLS AMG Coupé Electric Drive

B 250 e

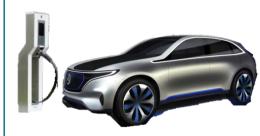
smart fortwo

smart electric drive - fortwo and forfour



Intelligent EV-Architecture

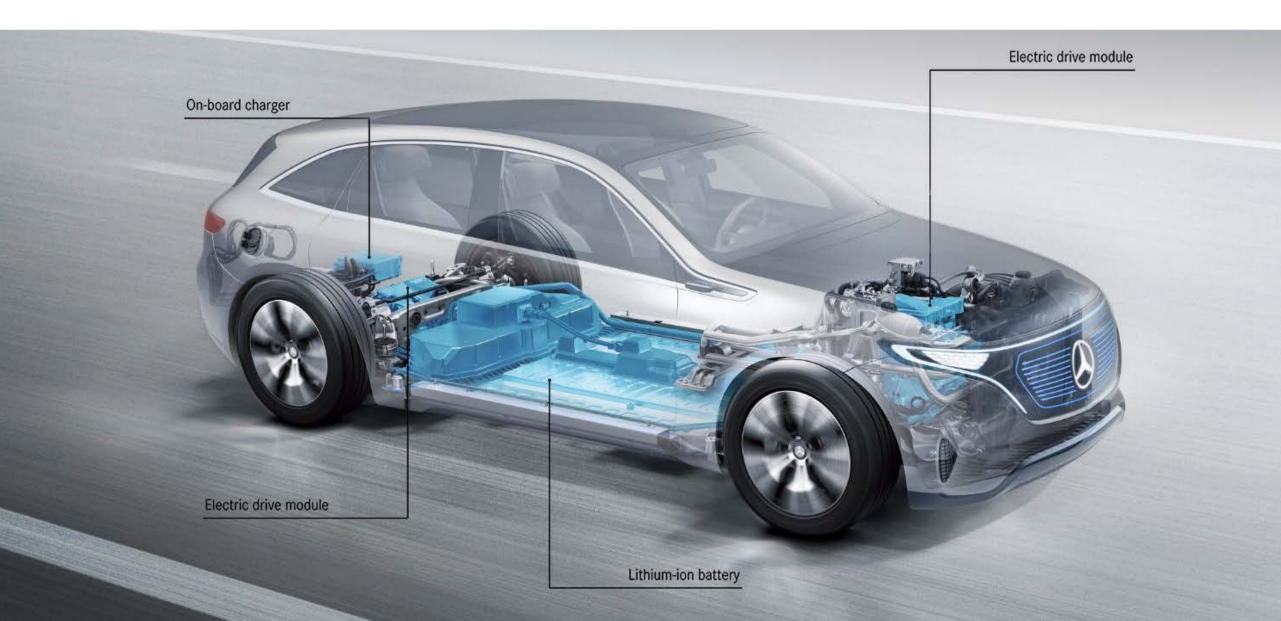
Battery-electric vehicle with up to 500 km range





Mercedes-Benz GLC F-CELL

Foundation of new Mercedes-Benz electric vehicle strategy



Rollout E-Mobility: Markets, Vehicle- & Drive Train Portfolio

I. Rollout into the main markets



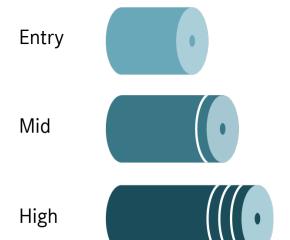
2025: Share 15 - 25 %

II. Integration in Vehicle Portfolio



2022: >10 Electric Vehicles

III. Modular Battery Concept













"Ecosystem" Electromobility

Inductive Charging



Connected Services



Own Battery Factory





2nd-Use-Battery



Charging Infrastructure



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Within a digital ecosystem Daimler Financial Services caters to a broad range of mobility demands



We are preparing for the mobility value chain of tomorrow



Vehicle Manufacturer

"Somebody needs to develop, produce and sell the vehicle"

DAIMLER smart





Asset Provider

"Somebody needs to **pay for** and **own** the vehicle"

DAIMLER
Daimler Financial Services

Mercedes-Benz Financial

Daimler Truck Financial

Mercedes-Benz Insurance

CharterWay



Fleet Operator

"Somebody needs to **take care** of the vehicles"



Mercedes-Benz Rent



Service Platform

"Somebody needs to offer the individual mobility service to customers"





BLACKLANE CROOVE FLIXBUS



Aggregator Platform

"Somebody needs to turn various mobility options into one-stopshopping solutions"





Meta Platform

"Customers will expect mobility options to be seamlessly **integrated** into their **digital life sphere**"

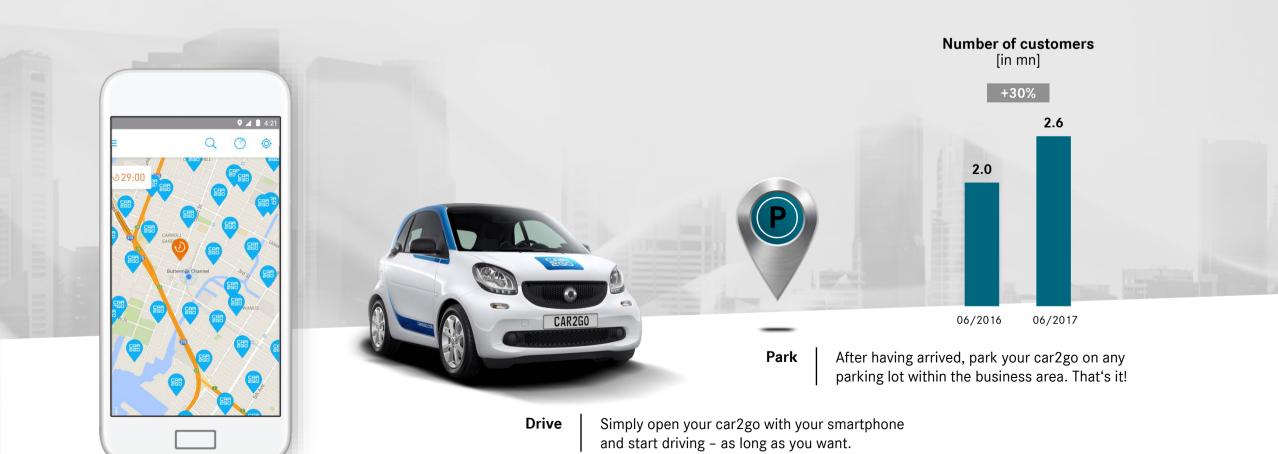


Mobility Customer

Consuming "mobilityas-a-service/ robo car services"



is the world's market leader in flexible car sharing

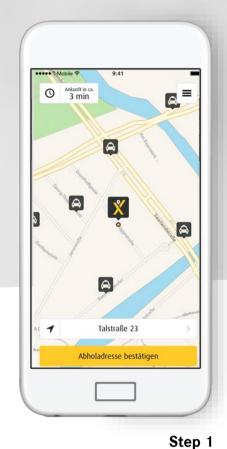


Find

Find a car2go next to you – with or without reservation. Whenever you need it. Available in 26 cities as of June 30, 2017.

Transactions in millions
12.5

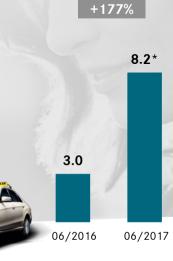
mytaxi has become Europe's largest taxi-hailing provider











Number of customers

Step 4

Pay your ride with just one swipe

 * Including: customers of Hailo merger and Taxibeat acquisition

Excluding: Clever Taxi

Step 3

Get real-time information about estimated arrival

Step 2

Order your cab **via your smartphone.**

Available in more than 65 cities as of June 30, 2017.

Directly get in touch with your driver

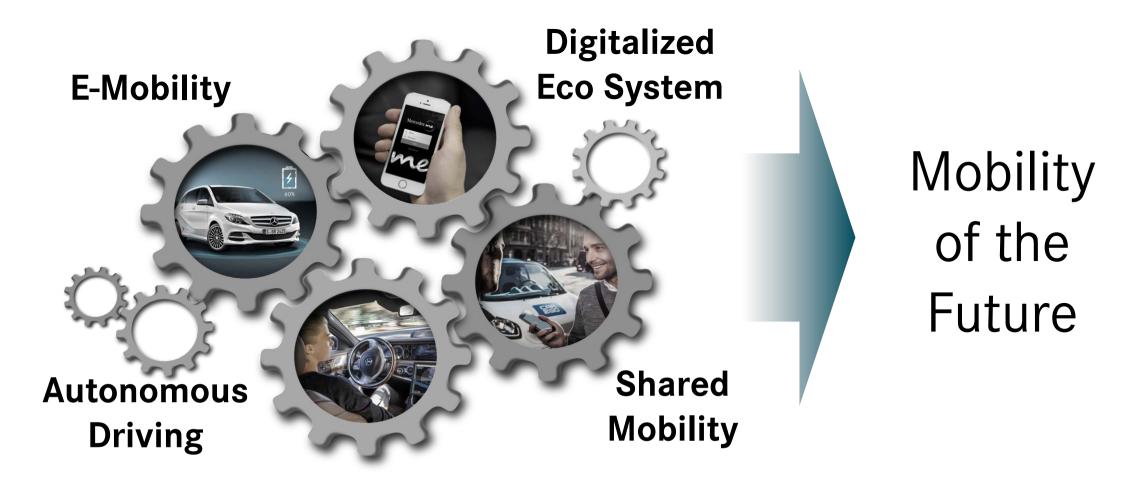
Transactions in millions



26.0

/TD 06/17

Leadership in Future Mobility will be determined by the combination of the four dimensions



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More Information at

www.Mercedes-Benz.com

Innovation - Sustainable mobility

www.Daimler.com

Sustainability

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, 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; 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. 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.