

Transformation of the powertrain and implication for business strategy

The Global Challenge

Limited Resources



E.g.: Oil Price



Creeping Mobility





Megacities Top 5 Ranking

H E		2008		2015	
London	6.5	Tokio	35.0	Tokio	36.2
New York	5.5	Mexico City	18.7	Bombay	22.6
Tokio	5.2	New York	18.3	Delhi	20.9
Paris	4.0	Sao Paulo	17.9	Mexico City	20.6
Berlin	2.4	Bombay	17.4	Sao Paulo	20.0
Source: Bronge	er (1996)				

Law / Legislation

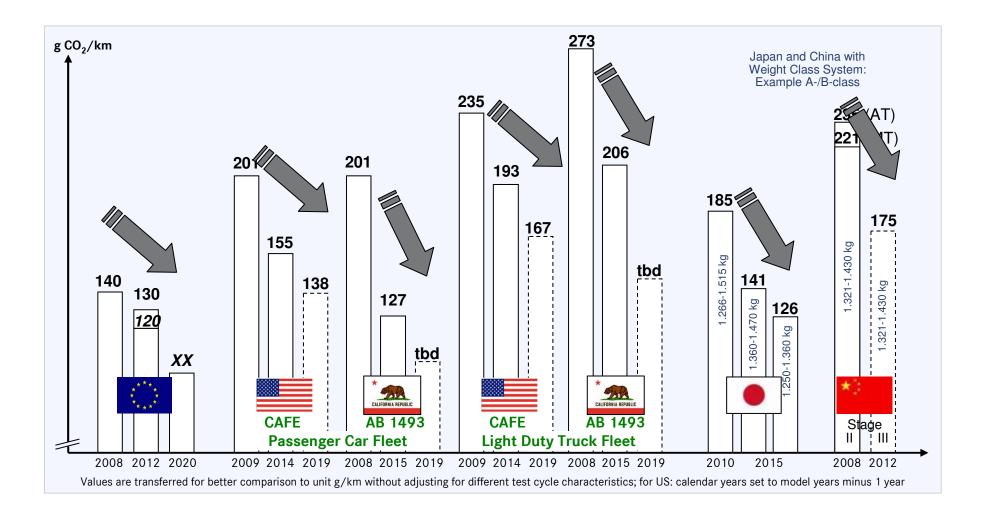




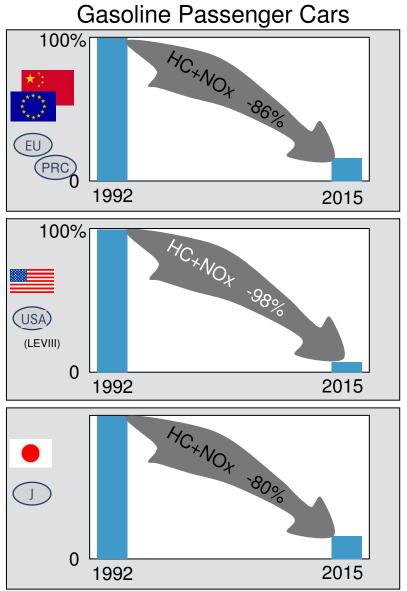
City-Maut London

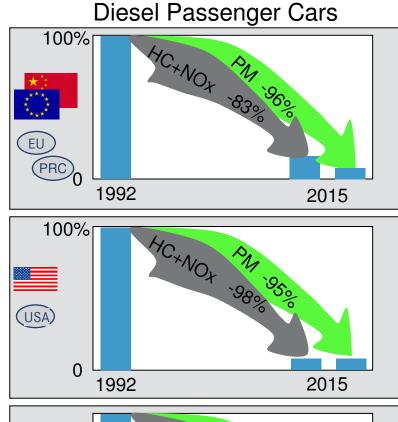
Daily Fee: £ 8

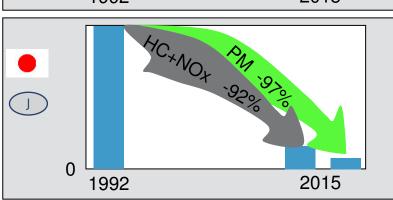
The Global Challenge: Fuel economy limits in major markets



The Global Challenge: Emission Limits in the Triade

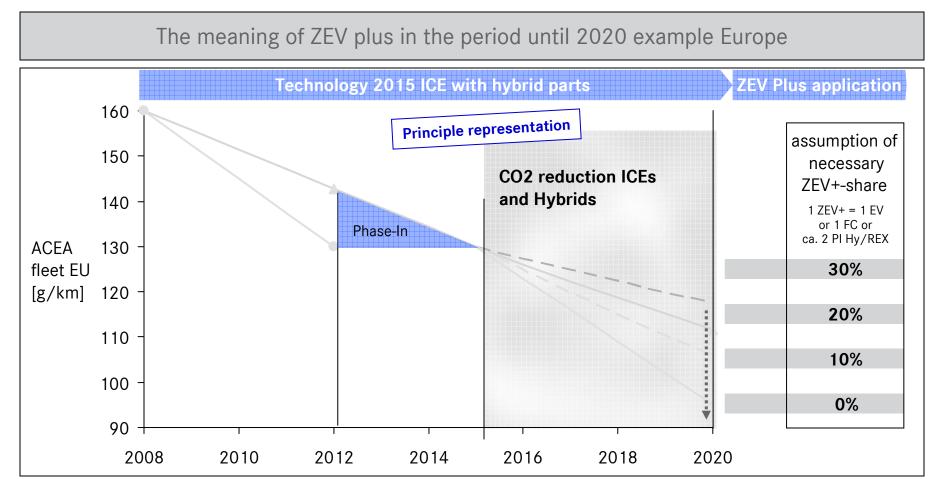




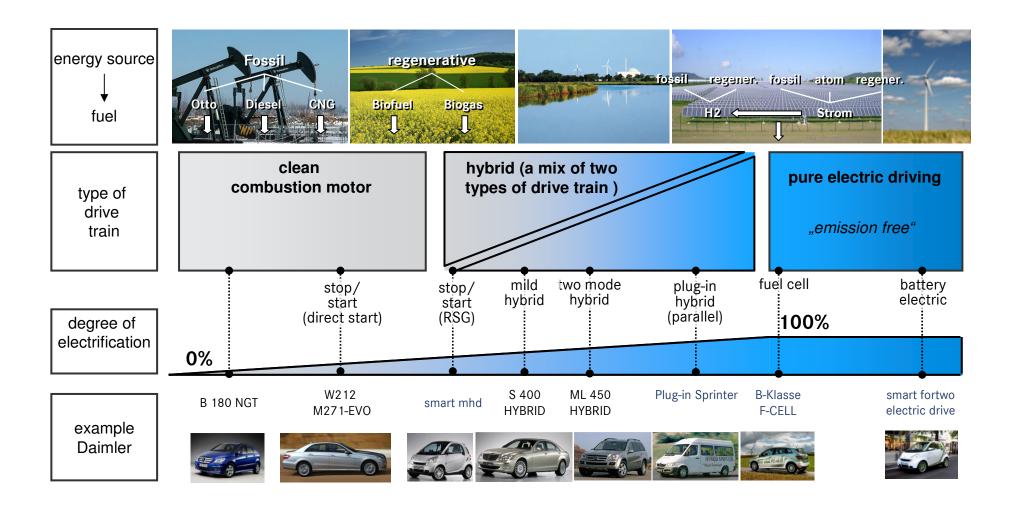


Further CO2 requirements will change the mobility mix.





Competitive Answer: Optimized vehicles with high-tech power trains



Competitive Answer: Daimler roadmap for sustainable mobility

Maximum efficiency for vehicles with combustion engines

BlueEFFICIENCY CGI, BlueTEC DIESOTTO Hybridization for further increase in efficiency

HYBRID Plug-In Emission-free driving with Electric vehicles fuel cell / battery

Electric Vehicles with Battery or Fuel Cell Drive, Range Extender





Concept BlueZERO – Modular concept for electromobility



Daimler roadmap for sustainable mobility

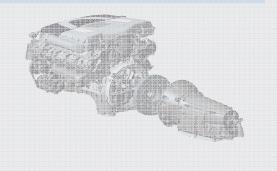
Maximum efficiency for vehicles with combustion engines

BlueEFFICIENCY CGI, BlueTEC DIESOTTO



Hybridization for further increase in efficiency

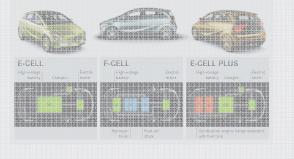
HYBRID Plug-In



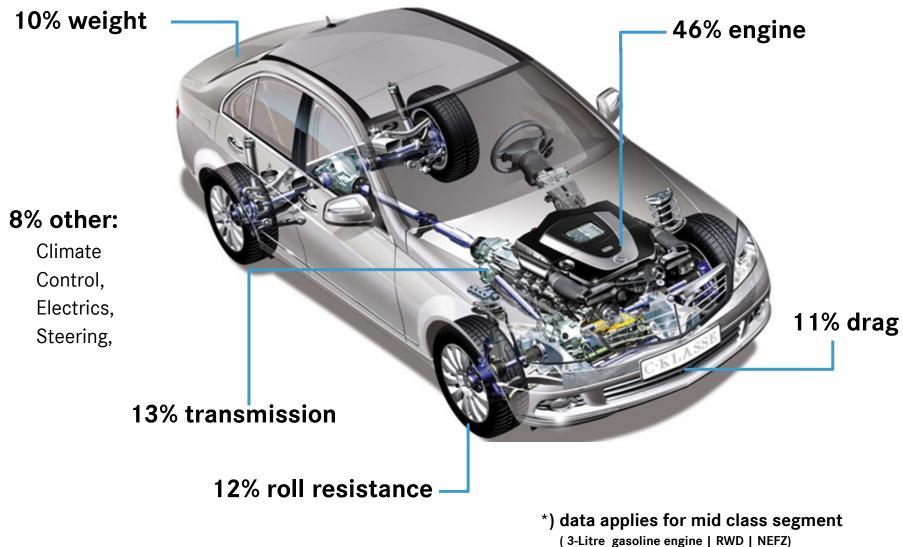
Emission-free driving with Electric vehicles fuel cell / battery

Electric Vehicles with Battery or Fuel Cell Drive, Range Extender

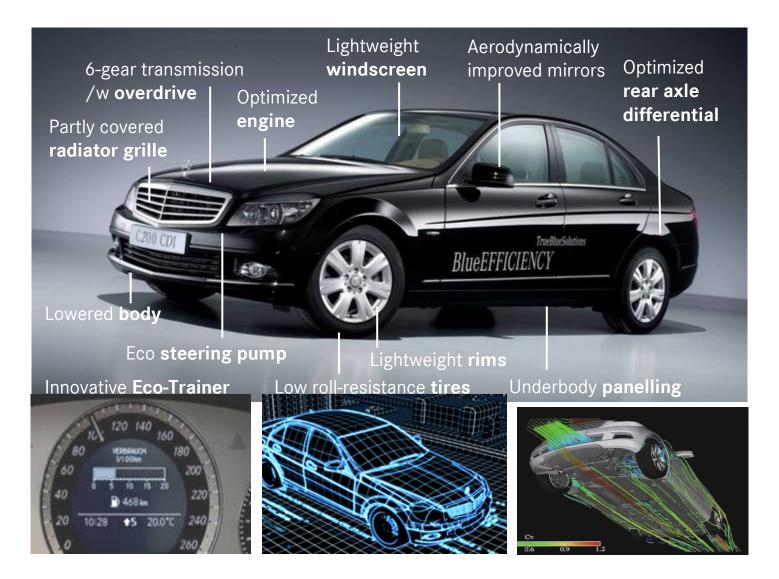
Concept BlueZERO - Modular concept for electromobility



Optimized vehicles: Origins of CO2 emissions in cars



Maximum Customer Benefit - with BlueEFFICIENCY



Today already more than 70 till end of 2010 85 BlueEFFICIENCY models

examples:



S-Class BlueEFFICIENCY



E-Class BlueEFFICIENCY

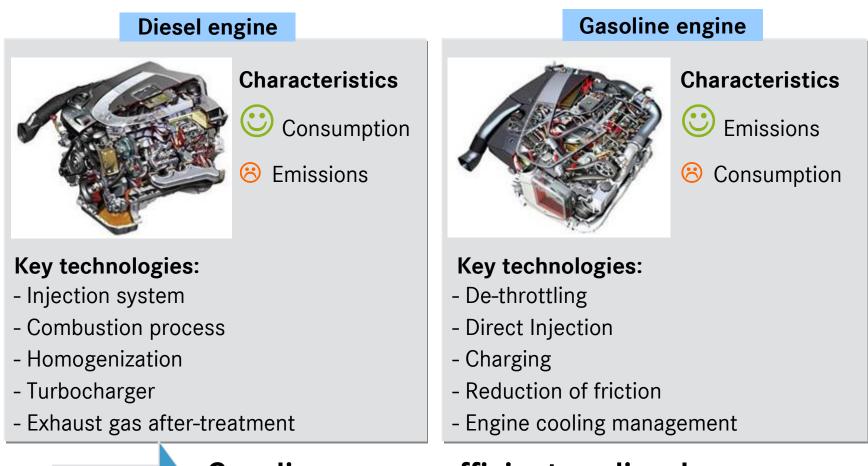


C-Class BlueEFFICIENCY



A and B-Class BlueEFFICIENCY

High-tech Powertrains: Potentials for diesel and gasoline engines



Gasoline cars as efficient as diesels; Diesel cars as clean as gasoline cars

Target

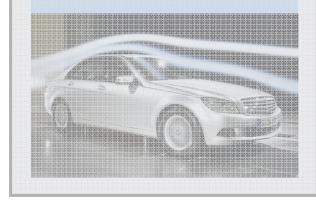
Daimler roadmap for sustainable mobility

Maximum efficiency for vehicles with combustion engines

BlueEFFICIENCY CGI, BlueTEC DIESOTTO Hybridization for further increase in efficiency

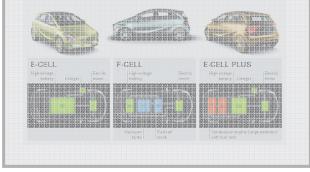
HYBRID Plug-In Emission-free driving with Electric vehicles fuel cell / battery

Electric Vehicles with Battery or Fuel Cell Drive, Range Extender





Concept BlueZERO - Modular concept for electromobility



HYBRID modules for individual powertrain solutions

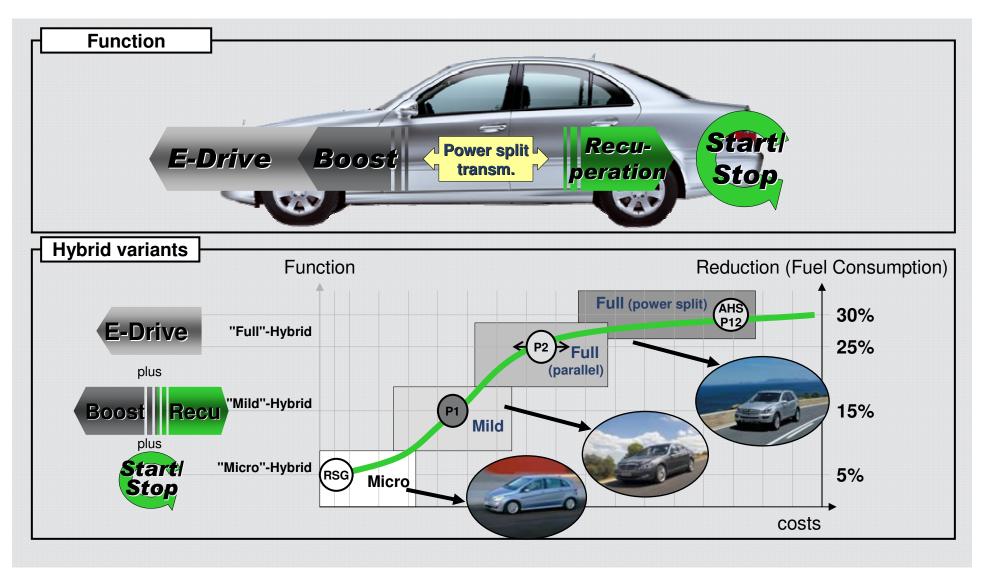
HYBRID technologies are an integral part of our strategy



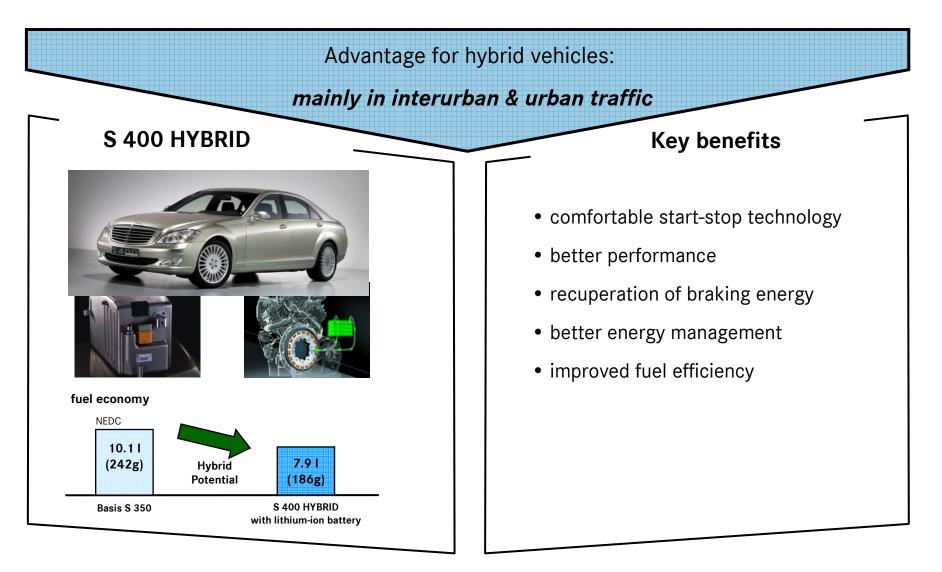
Pooling expertise and resources



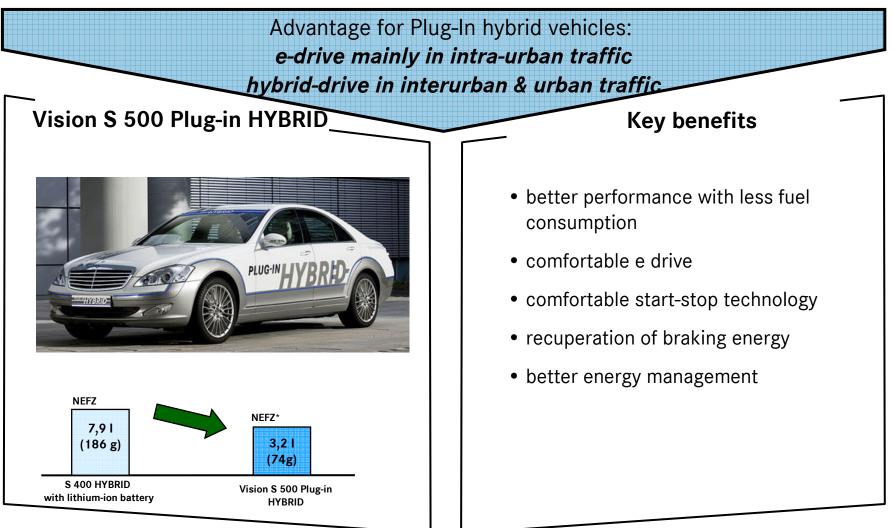
Hybrid variants



Mercedes-Benz S 400 HYBRID



Vision S 500 Plug-in HYBRID



*incl. BEVs CO² Bonus (preliminary value)

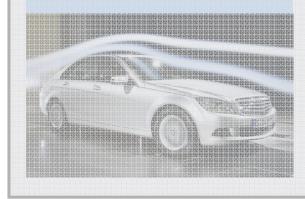
Daimler roadmap for sustainable mobility

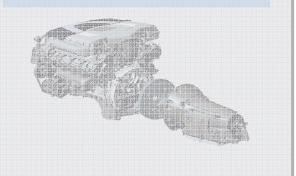
Maximum efficiency for vehicles with combustion engines

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Concept BlueZERO – Modular concept for electromobility



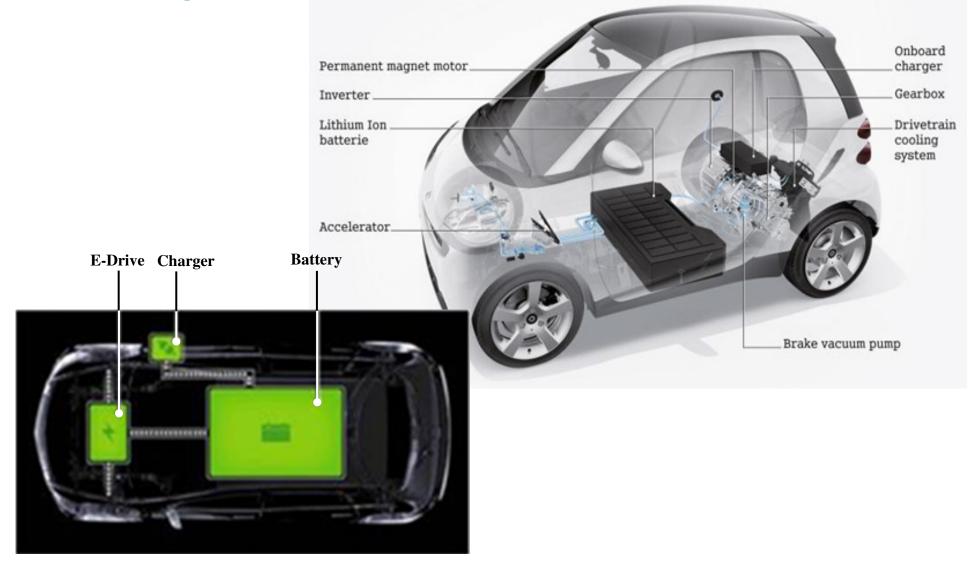
smart fortwo electric drive, test fleet in London: Due to the excellent feedback, we will continue!







Basic configuration BEVs



'e-mobility' projects – Daimler introduces a new era of E-Mobility



Battery Electric Vehicle (BEV) Technology Next Challenges



- Power Density
- Energy Density
- Fast charge capability
- Low temperature performance

Infrastructure

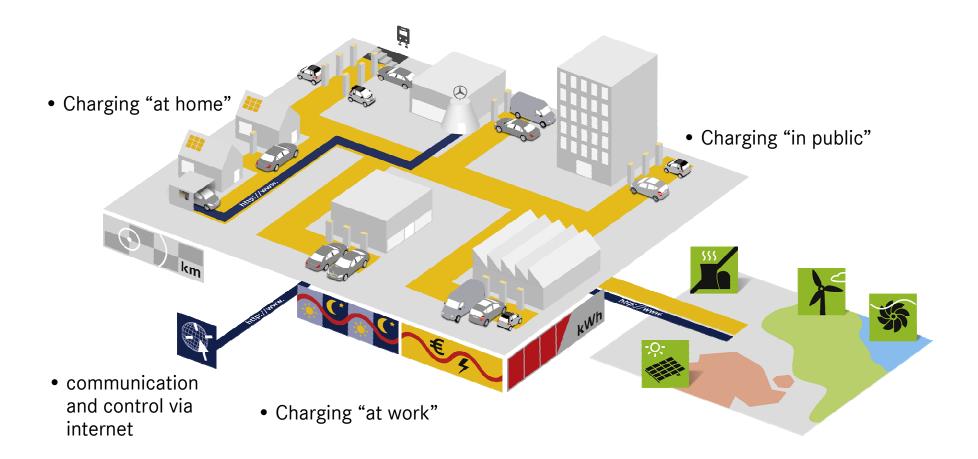
- Reliable, easy to use technology
- Competitive cost
- In-time Availability
- Sufficient Coverage



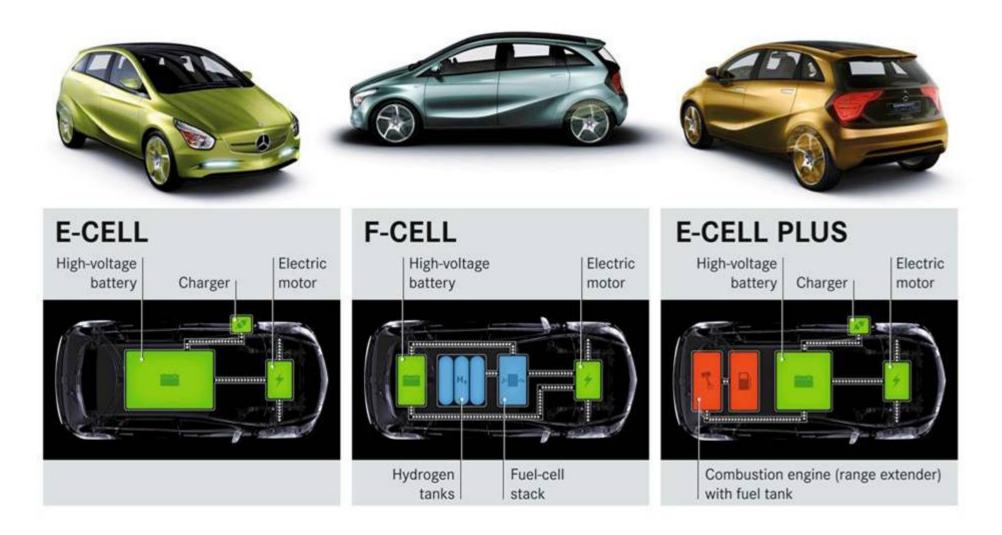
Costs

- Battery
- Electric Drive
- Infrastructure

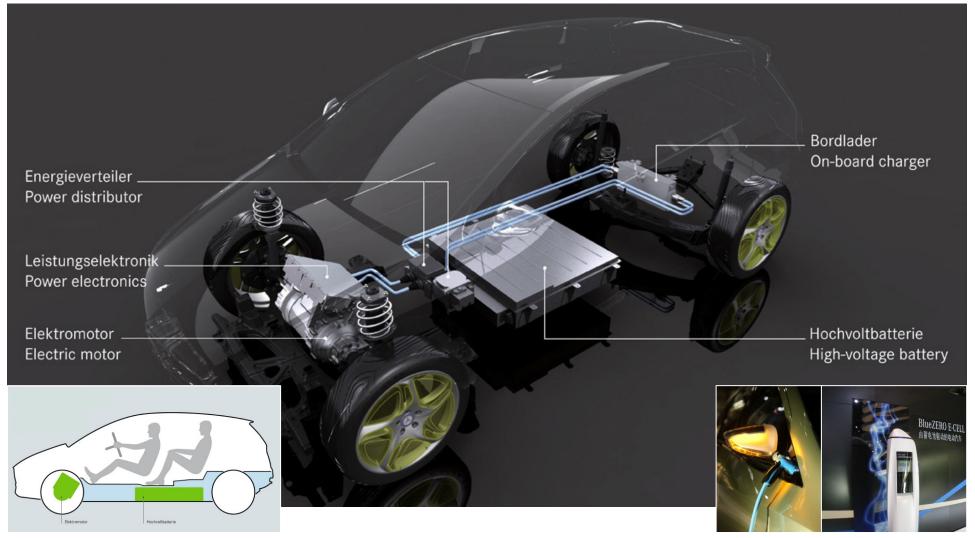
Charging possibilities



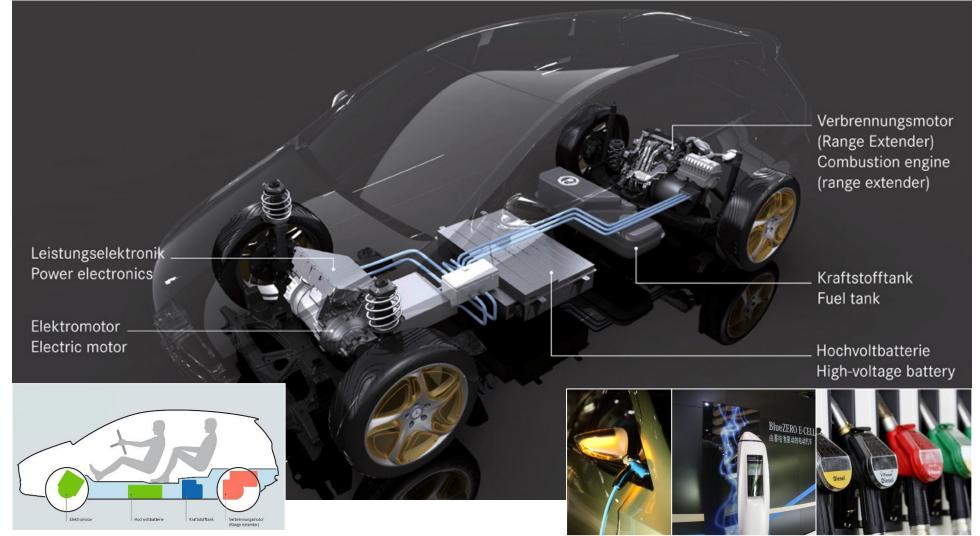
BlueZERO: Modular Concept for E-Mobility



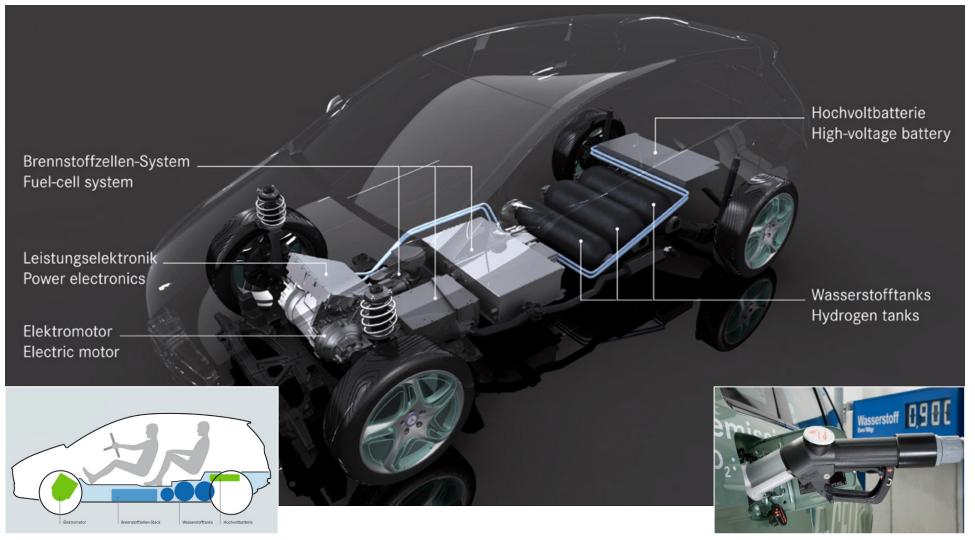
Concept BlueZERO E-CELL



Concept BlueZERO E-CELL PLUS



Concept BlueZERO F-CELL

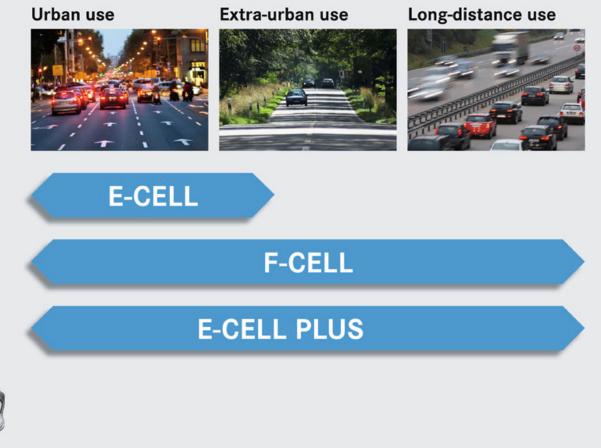


Concept BlueZERO – electro mobility for every requirement

Modular concept for electromobility:

- Battery-electric drive (BlueZERO E-CELL)
- Fuel-cell drive (BlueZERO F-CELL)
- Battery-electric drive with range extender (BlueZERO E-CELL PLUS)





Daimler Experience with fuel cell vehicles



^{*} Data November 2009

- Daimler is a pioneer of the Fuel Cell Vehicle (FCV)
- Daily operation of more than 100 FCV's all over the world
- Long experience with FCV's (first FCV in 1994)
- End of 2007: F-Cell A-class reached 150.000 km and 2500 operating hours with 1st fuel cell stack
- Operation of FCV's at customers in different climate zones with varying ambient temperatures

Fuel Cell Technology Next Challenges

Technology



- Energy density
- Cooling (performance)
- H₂ storage (range; currently ~400km)

Infrastructure

- Sufficient number of refueling stations
- Reliable and easy to use technology
- Cost efficiency
- Hydrogen produced by regenerative energy sources



Costs

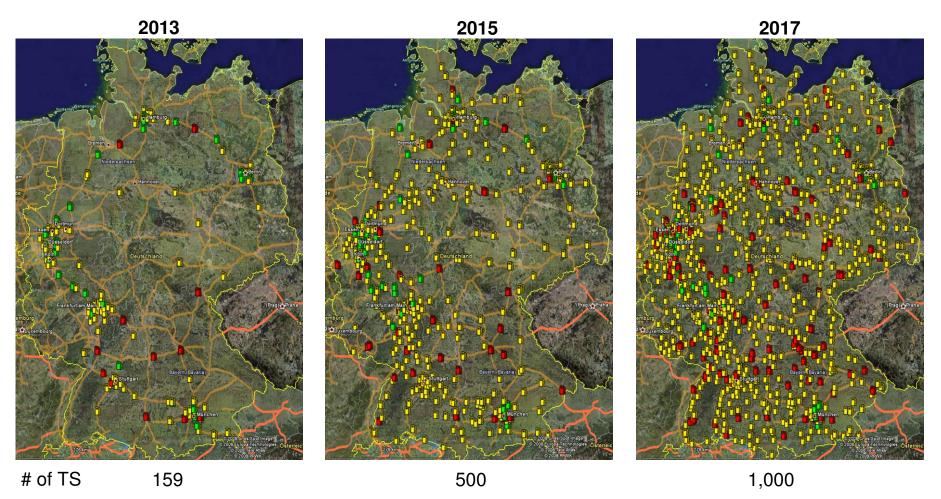
- FC System & Stack
- H2-Tank
- Battery

Initiative "H2 Mobility" in the lead market of Germany

Daimler together with infrastructure partners is making sure that the nationwide construction of the infrastructure is ensured.



Possible roll-out scenario of H2-gas stations 2010 – 2017 (H2-Station density comparable to natural gas station density)

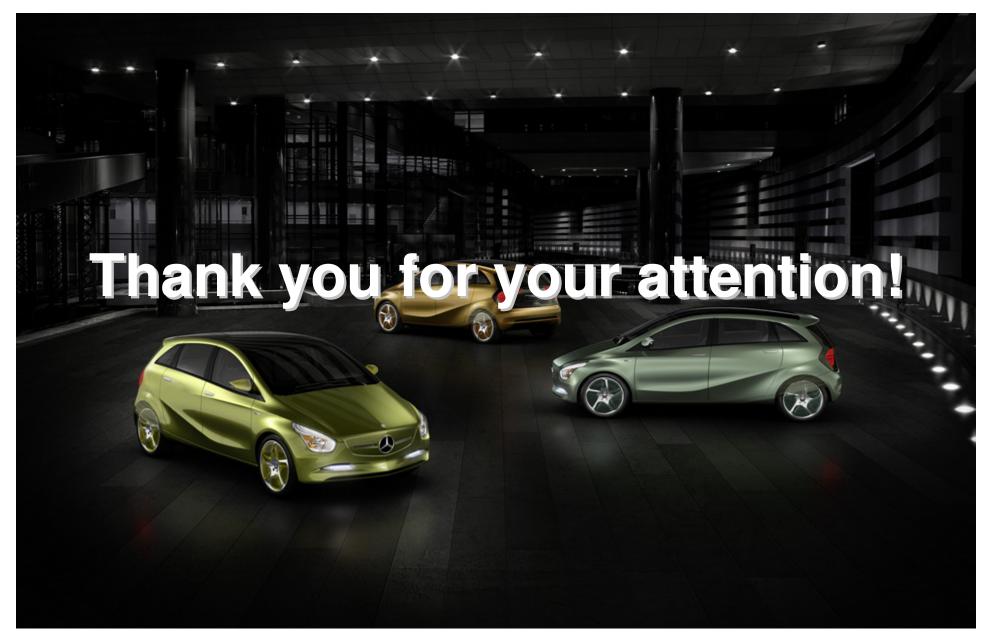




Conclusion: Daimler's activities in the domain of mobility

- > Sustainability is a core value of Daimler AG
- For each step towards emission free driving Daimler has the premium technology available
 - High-Tech combustion engines
 - >Hybrid drivetrains
 - Premium electric vehicles with fuel cell / battery
- The market introduction of each technology follows a trade off between technology leadership and economical reason





Disclaimer

This document contains forward-looking statements that reflect our current views about future events. The words "anticipate," "assume," "believe," "estimate," "expect," "intend," "may," "plan," "project," "should" and similar Expressions are used to identify forward-looking statements. These statements are subject to many risks and uncertainties, including a lack of or a considerable delay in improvement or a further deterioration of global economic conditions; a continuation or worsening of the tense situation in the credit and financial markets, which could result in ongoing high borrowing costs or limit our funding flexibility; changes in currency exchange rates and interest rates; the introduction of competing, fuel-efficient products and the possible lack of acceptance of our products or services, which may limit our ability to adequately utilize our production capacities or raise prices; price increases in fuel, raw materials and precious metals; disruption of production due to shortages of materials, labor strikes, or supplier insolvencies; a further decline in resale prices of used vehicles; the effective implementation of cost-reduction and efficiency-optimization programs at all of our segments, including the repositioning of our truck activities in the NAFTA region and in Asia; the business outlook of companies in which we hold an equity interest, most notably EADS; changes in laws, regulations and government policies, particularly those relating to vehicle emissions, fuel economy and safety; the resolution of pending governmental investigations and the outcome of pending or threatened future legal proceedings; and other risks and uncertainties, some of which we describe under the heading "Risk Report" in Daimler's most recent Annual Report and under the headings "Risk Factors" and "Legal Proceedings" in Daimler's most recent Annual Report on Form 20-F filed with the Securities and Exchange Commission. If any of these risks and uncertainties materialize, or if the assumptions underlying any of our forwardlooking statements prove incorrect, then our 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. Any forward-looking statement speaks only as of the date on which it is made.