

MERCEDES CAR GROUP *DIVISION DAY*

**R&D steps to strengthen
MCG's leading technology position**

Dr. Thomas Weber

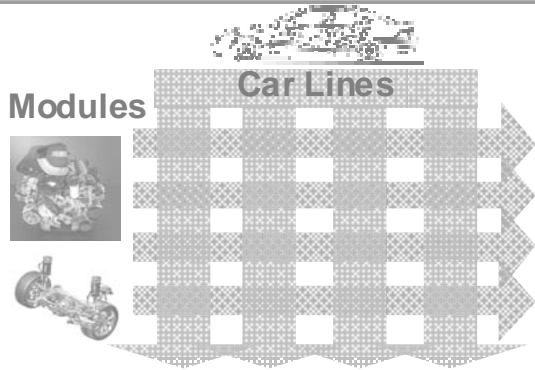
Group Research & Mercedes Car Group Development

Stuttgart

September 19th, 2006

Challenges for the MCG Development in the future

Cost and complexity reduction



MTC Sindelfingen

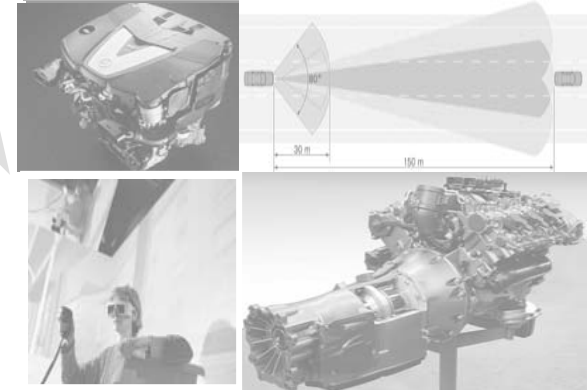


Mercedes Car Group Development



MTC Untertürkheim

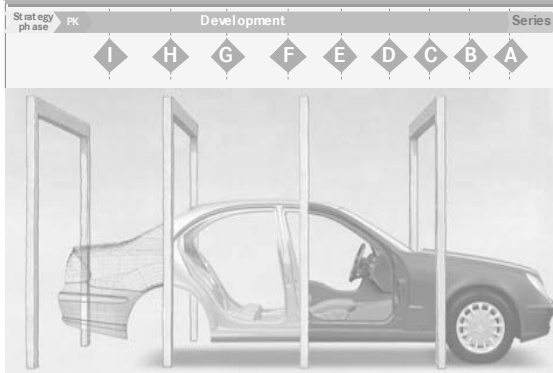
Customer oriented Inno's & technologies



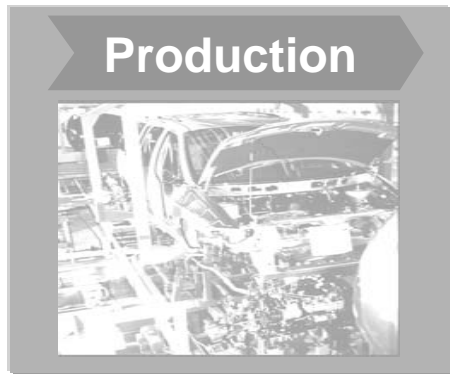
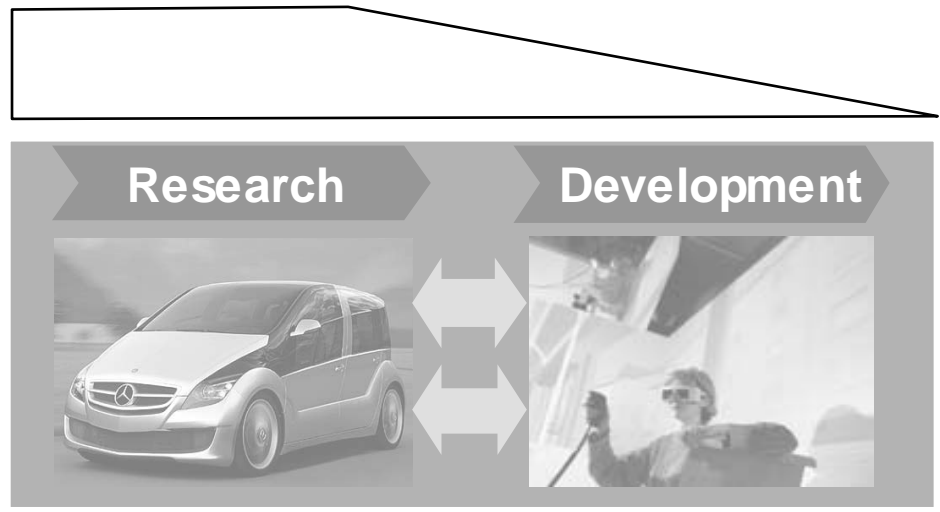
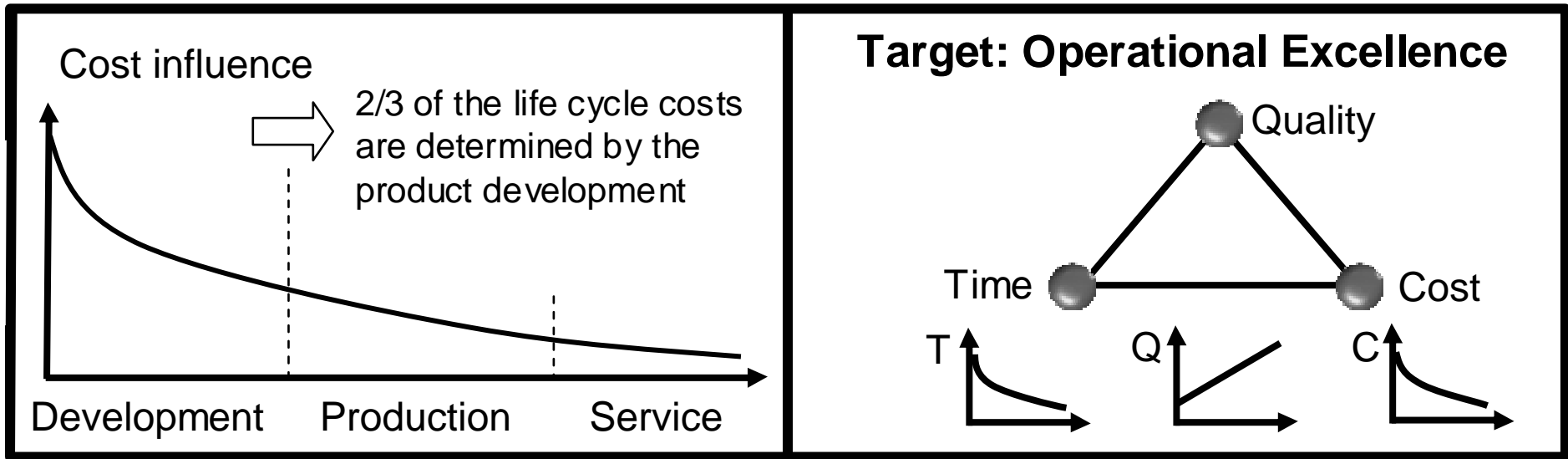
Fascinating products for the future



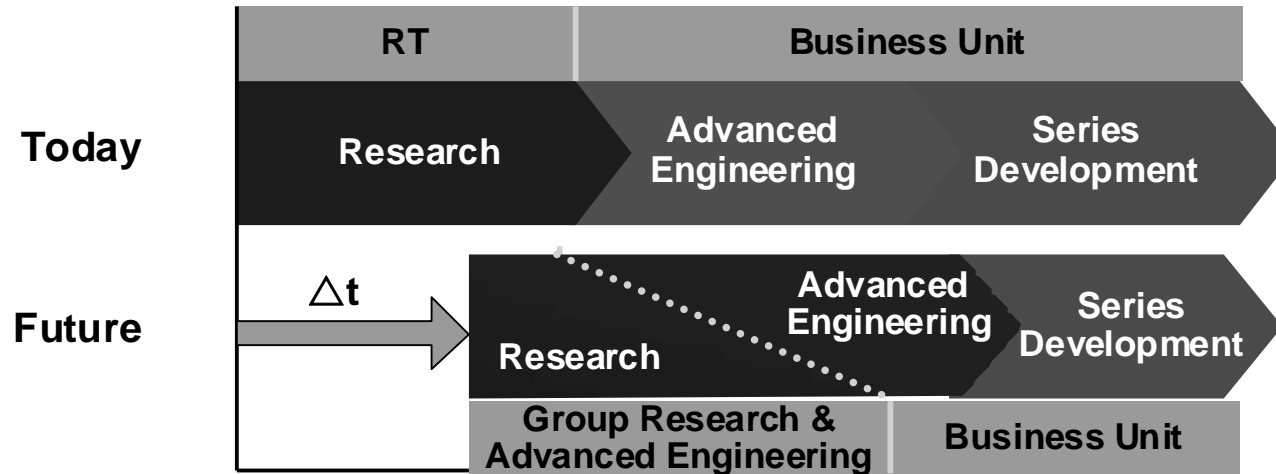
Further quality improvements



The cost structure of a vehicle is mainly influenced by development




More efficiency through integration of Group Research and Advanced Engineering




Targets:


- Increase speed of technology transfer
- Focus resources on relevant fields
- Increased innovation hit rate
- Synergies out of modular R&D-work

Advanced Eng. altern. Propulsion 

- e.g. Fuel Cell, Hybrid-house

Advanced Eng. Electric/Electronic 

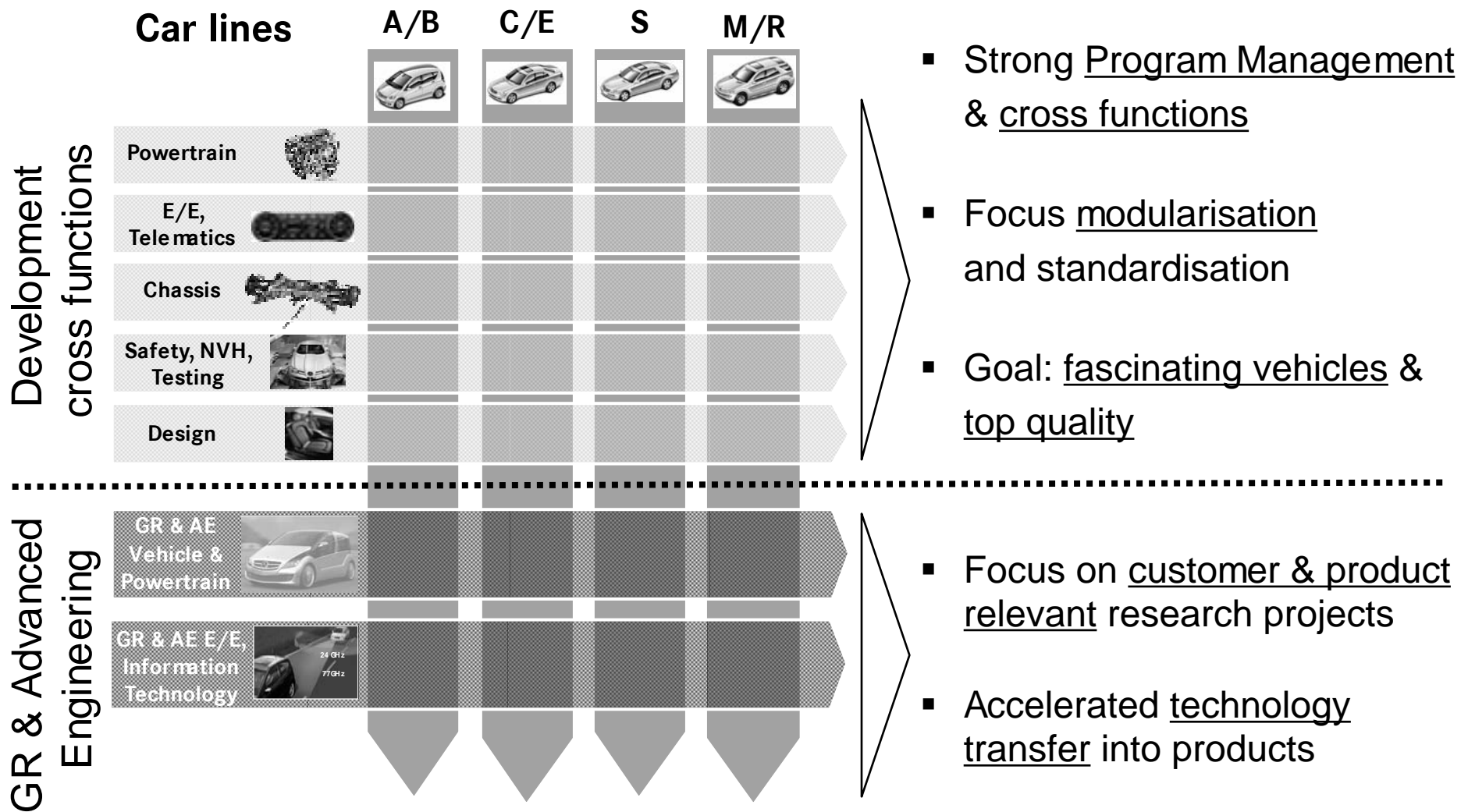
- e.g. AUTOSAR, FlexRay

Advanced Eng. Powertrain 

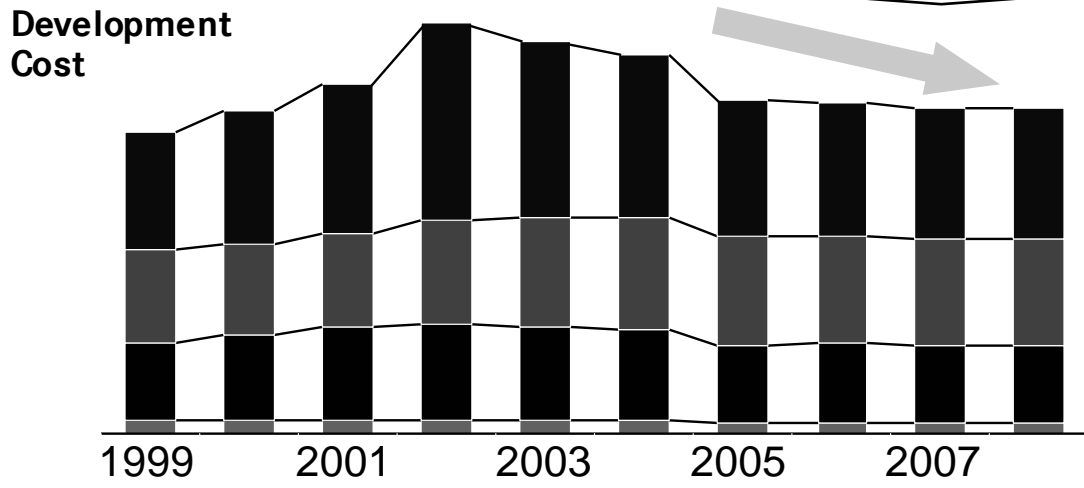
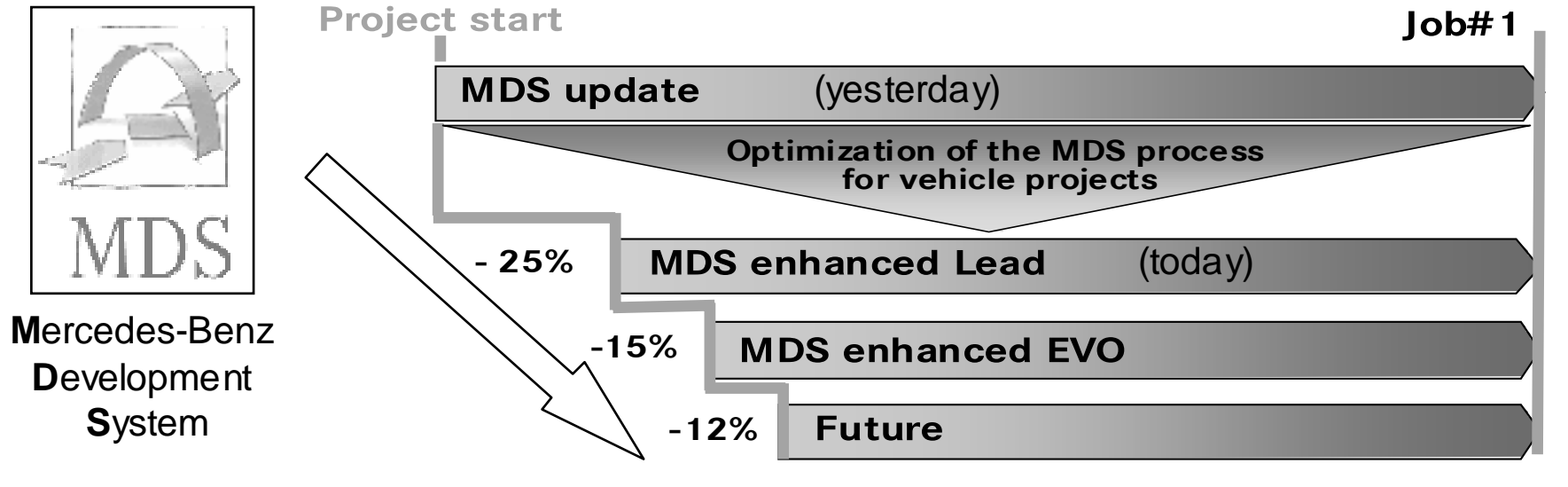
- e.g. BLUETEC

➔ Extension of Group Research to Advanced Engineering enables 'more for less'

Integrated organisation structure in the new organisation Group Research & Mercedes Car Group Development

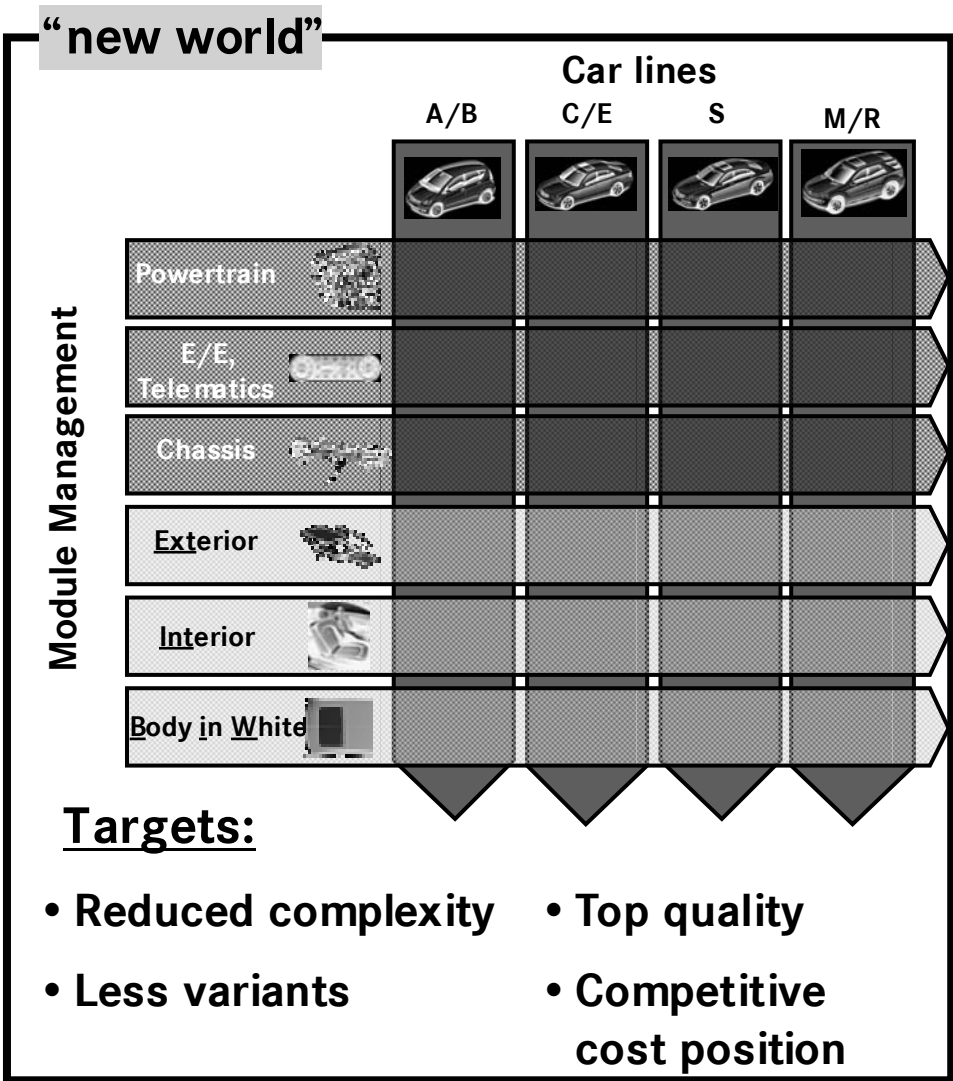
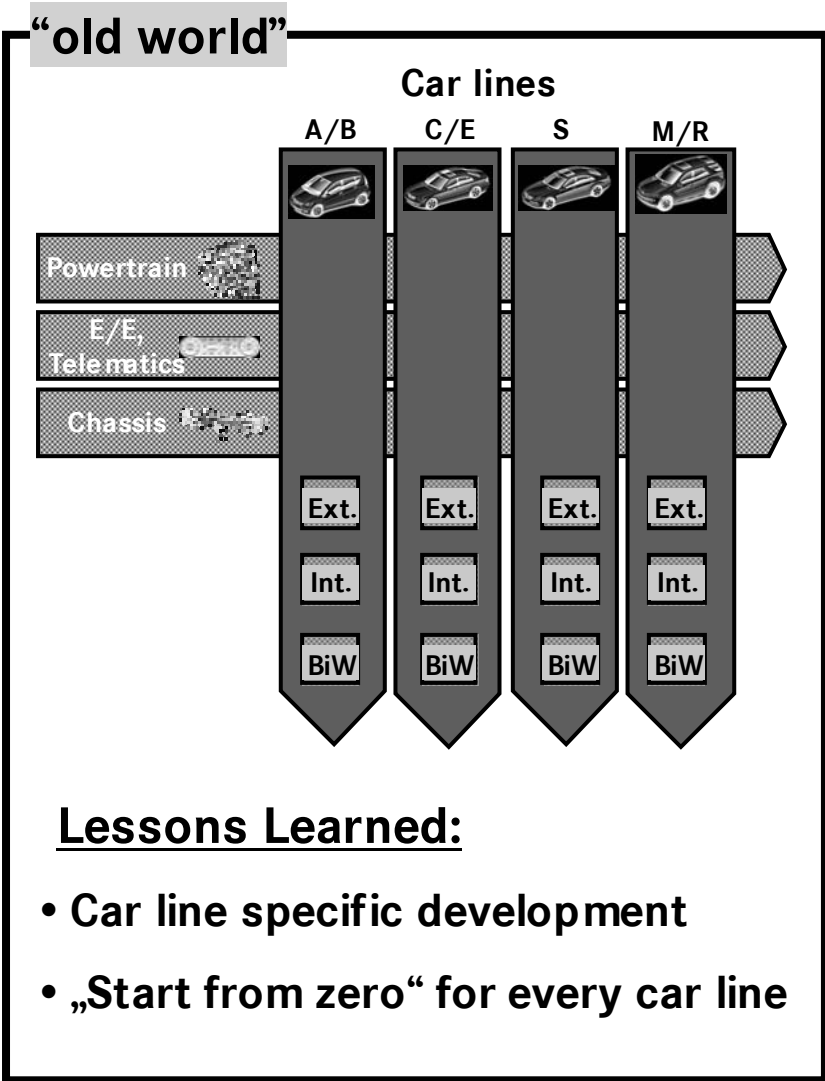


Increased efficiency through shortened product creation process and focussed R&D budget allocation



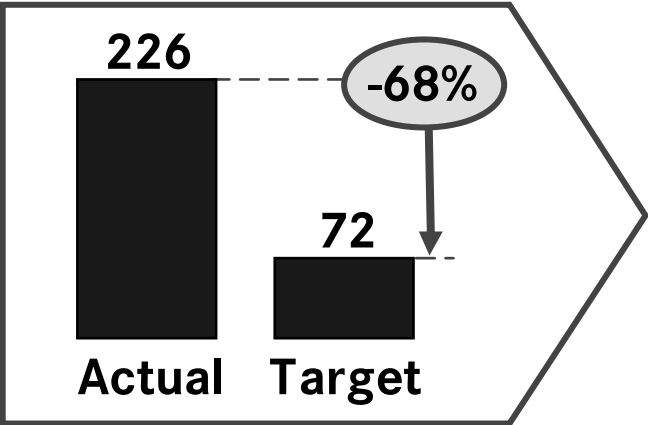
- Focussing development activities and adjusted R&D budget
- More projects with better quality and less resources

From a car line specific organisation to a cross-modular organisation

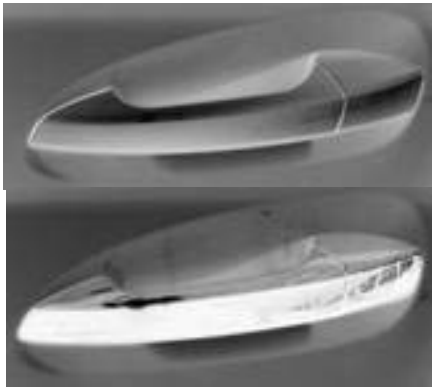


Modularisation to reduce complexity, improve quality and strengthen cost position

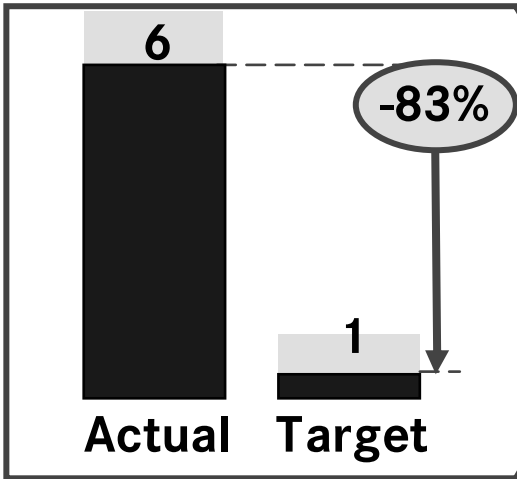
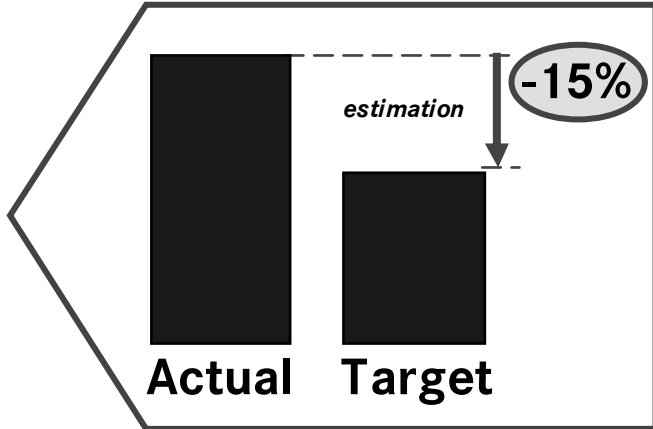
Reduction of variants



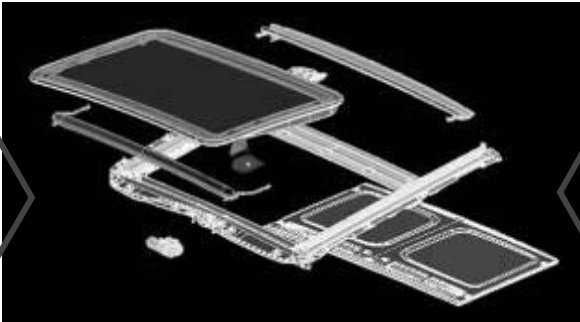
Door handle



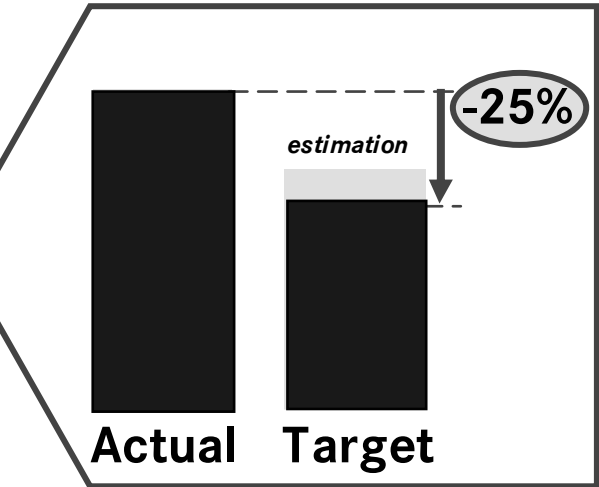
Cost reduction



Sunroof



- Reduce production cost
- Increase process quality



Contributions from development to further improve the quality of our vehicles

Concept Quality



J.D. POWER
AND ASSOCIATES

Voice of the customer has to determine the concepts

Delivered Quality



MB has to achieve No.1 ranking in delivered quality

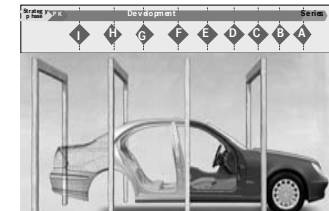
Reliability



An overshoot in reliability for regaining trust

Contributions from development

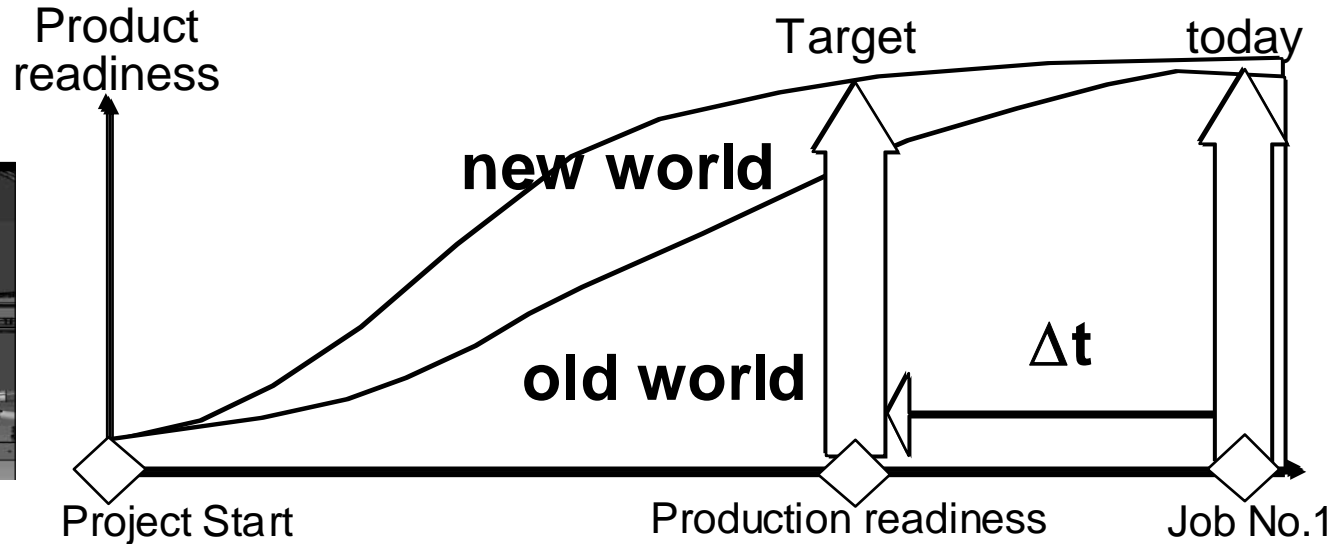
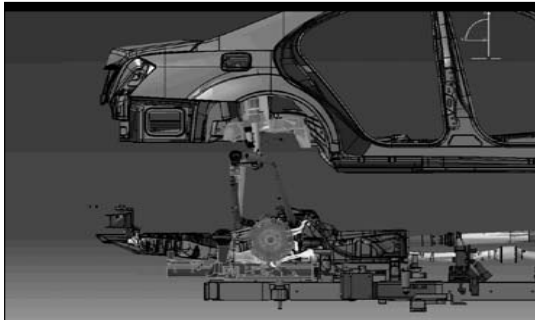
- Improved specification books for vehicles and components
- Early digital prototype simulations
- Design for manufacturing
- Perform quality and reliability methods (e.g. FMEA)
- Extensive hardware testing
- Modularization for less complexity and top reliability



Early product readiness provides additional time for testing

Tools:

- Digital engineering
- Digital production planning



Intensified testing ensures top quality

bench tests for vehicles and components

early durability tests with prototypes

S-Class
 approx. 8 mill. test-km
 approx. 500 test vehicles

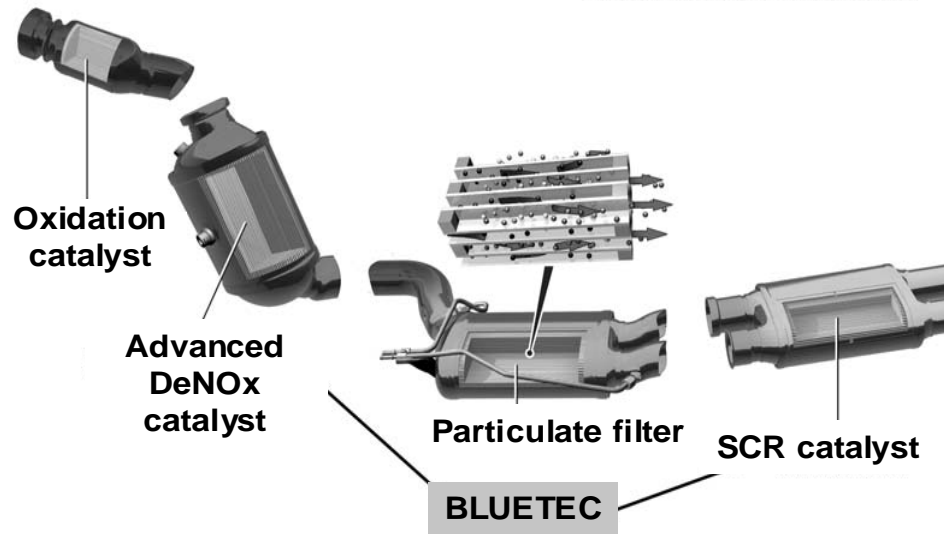
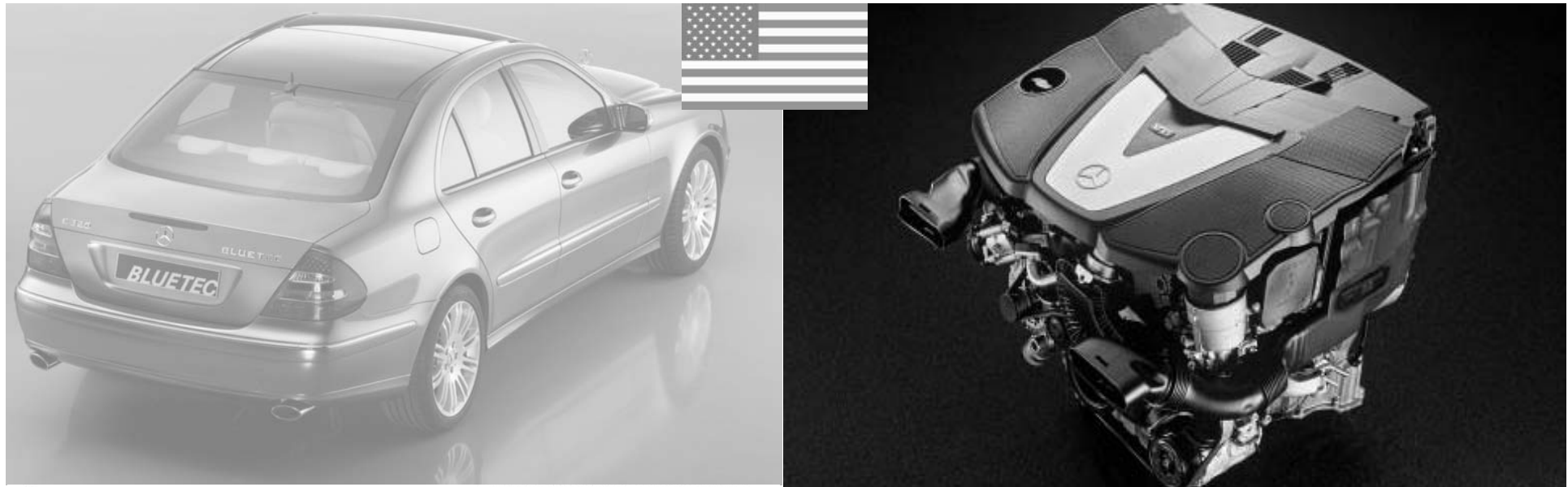
New Generation E-Class
 approx. 5.6 mill. test-km



Foto: RoAnSa



Cleanest Diesel passenger car in the world: E 320 BLUETEC



First market introduction of BLUETEC in the passenger car

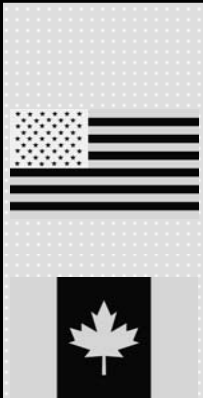

E 320 BLUETEC

October 15th, 2006 in the US. and Canada


Estimated consumption of approx.
6,7 l/ 100 km (35 mpg)

To be continued: The success story of Diesel vehicles from Mercedes-Benz


First successes in North America

E 320 CDI
since 2004
11.000 veh.

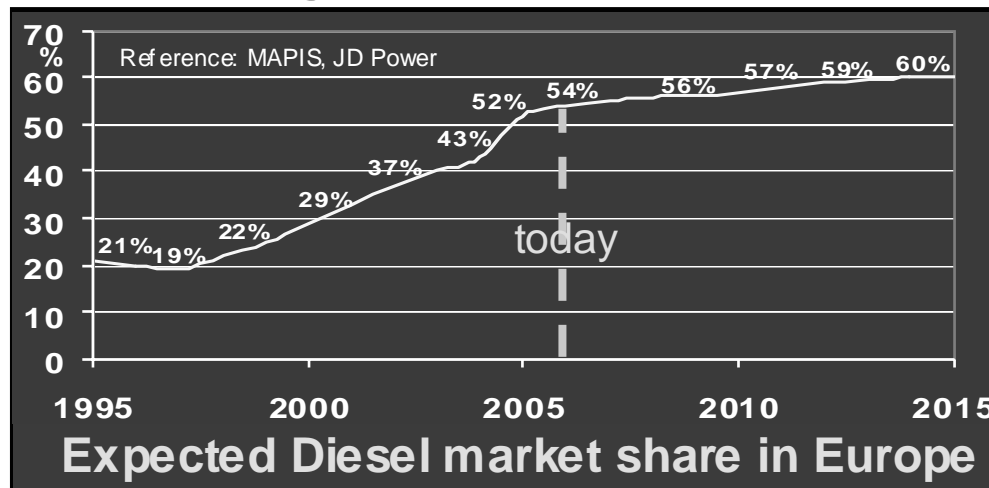


Jeep Liberty
CRD



smart fortwo
CDI

Increasing market share in Europe



Further diesel plans

Additional BLUETEC cars in the US in 2008

R-class  GL-class  ML-class 

BLUETEC in Europe

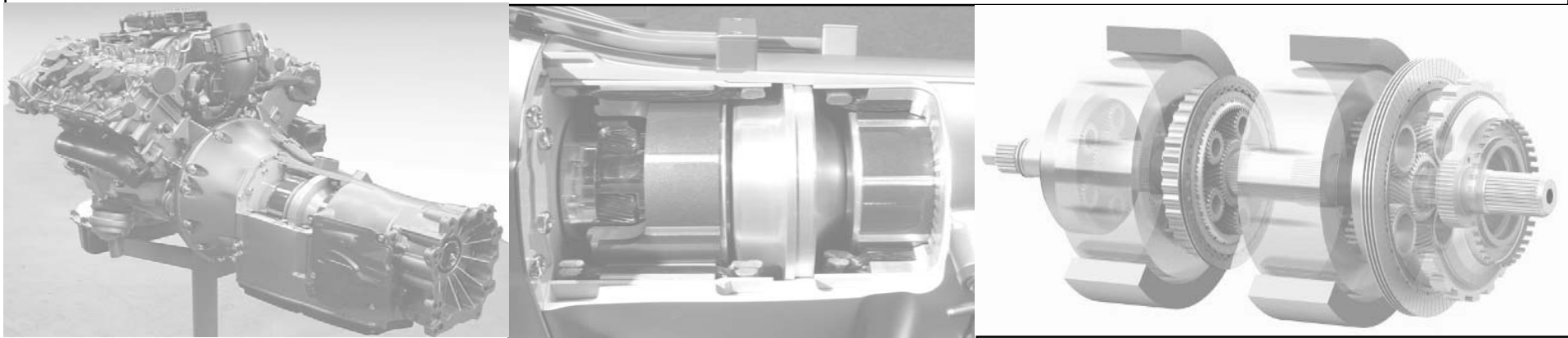
At least one BLUETEC passenger car in Europe in 2008.




Vision CLS 320 BLUETEC

Remarkable advantages of the Two-Mode-Hybrid: more efficient, more comfortable, more dynamic

Two-Mode-Hybrid system



Advantages of the Two-Mode-Hybrid system:

- 2 basic operating modes:
 - Input-split Electrically Variable Transmission (EVT)
 - Compound-split EVT
- Parallel hybrid operation modes with 4 fixed gears
- Top boost function
- Less space needed due to small electric engines
- Up to 25% less consumption

GM – DaimlerChrysler – BMW –
Hybrid Development Center



DAIMLERCHRYSLER



Innovation leadership and unique selling proposition with advanced safety innovations

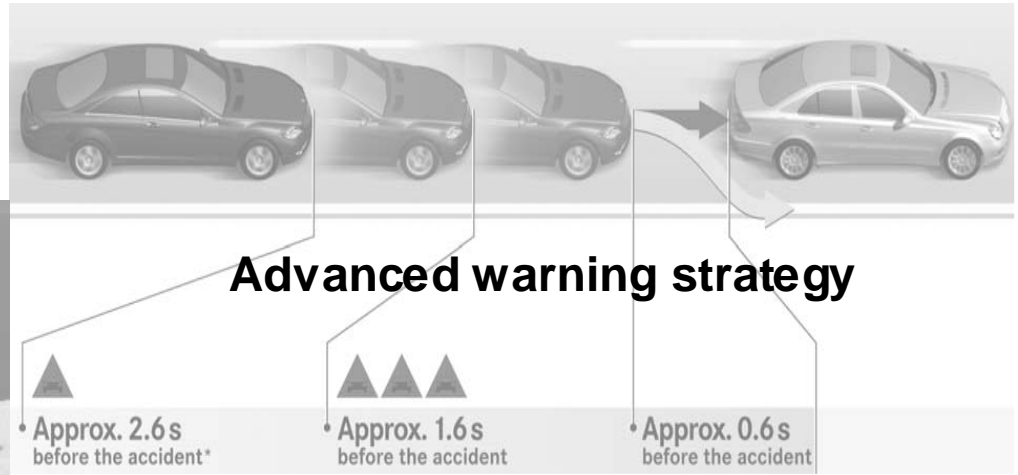


CL-Class

S-Class



PRE-SAFE®-Brake (10/06)



Nightview Assist (09/05)



PRE-SAFE® (09/05)



DISTRONIC PLUS® & BAS PLUS (09/05)



Examples of further safety innovations to realize step-by-step the vision of “Accident Free Driving”

Fatigue Detection System

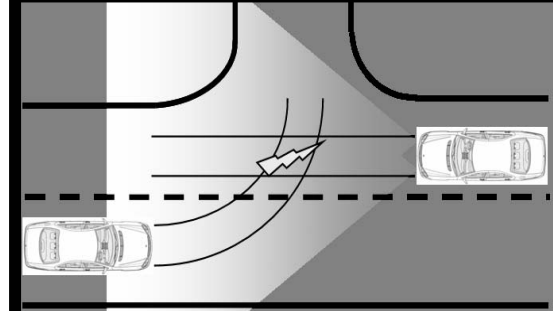


Lane Departure Warning

Collision Mitigation System

Advanced Parking Guidance

Advanced PRE-SAFE

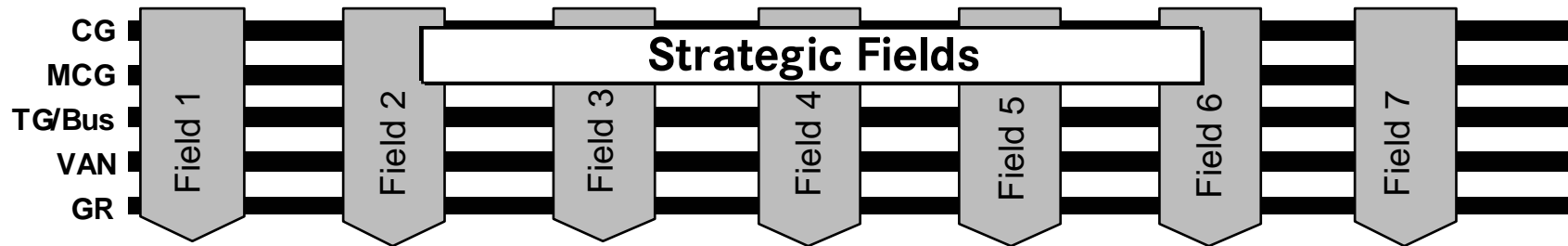


Examples for future innovations



Intersection Assistant: Object -, sign – and movement recognition

Controlled technology transfer to the Chrysler Group to gain synergy effects



Results

Vehicle concepts



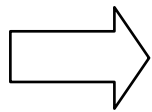
Components and modules



E/E-components & functionalities






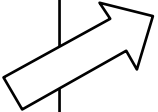








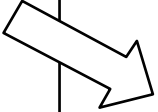


Modern Diesel technology – BLUETEC –

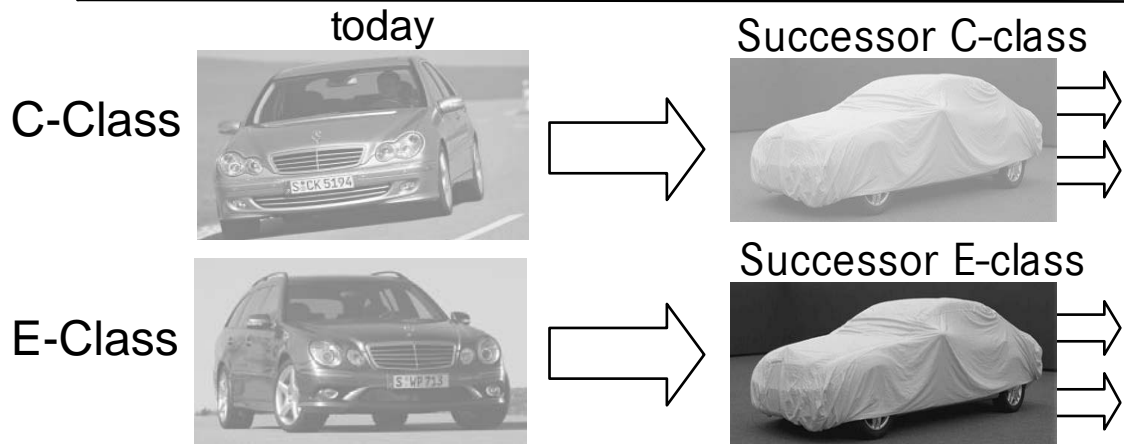
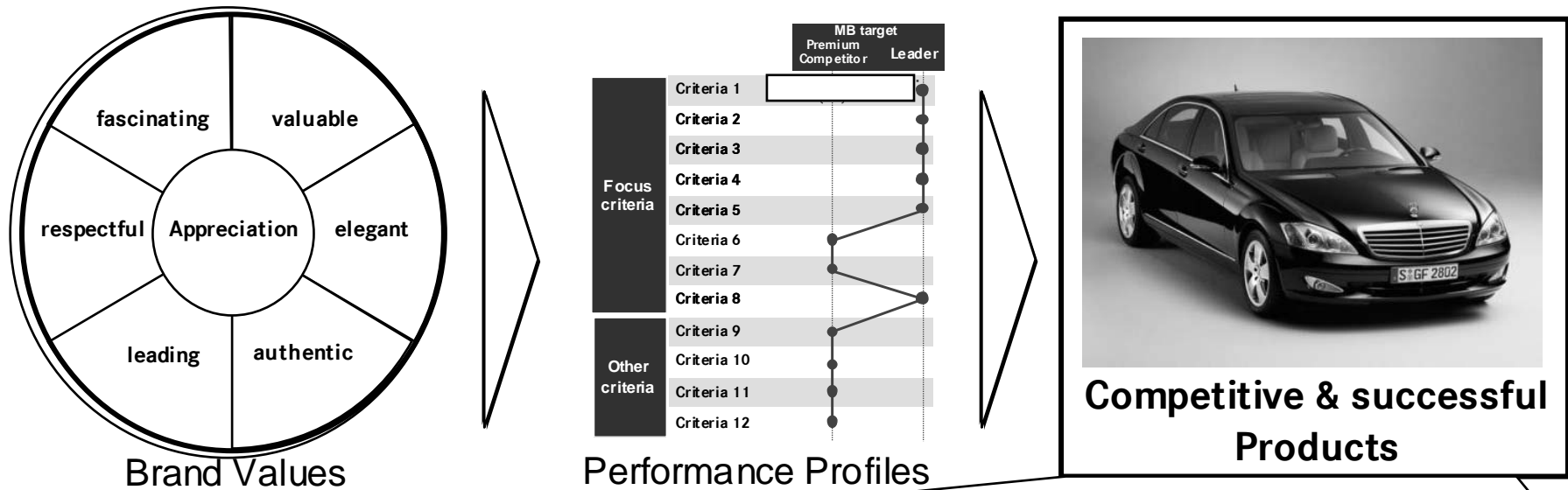


A distinctive innovation management ensures the brand specific characteristics of Mercedes-Benz and Chrysler products

Successful new vehicles launched with distinctive technical characteristics

S/CL-Class			<p>The product pipeline is filled with fascinating vehicles that will hit the markets successfully.</p>   	
SL-Class				
M/R/G-Class				
E/CLS-Class				
C/CLK/SLK-Class				
A/B-Class				
2005		2006	Future	

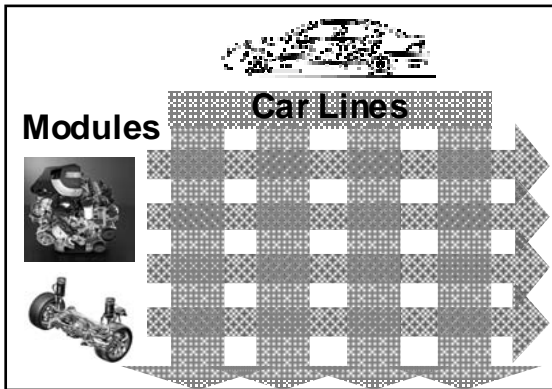
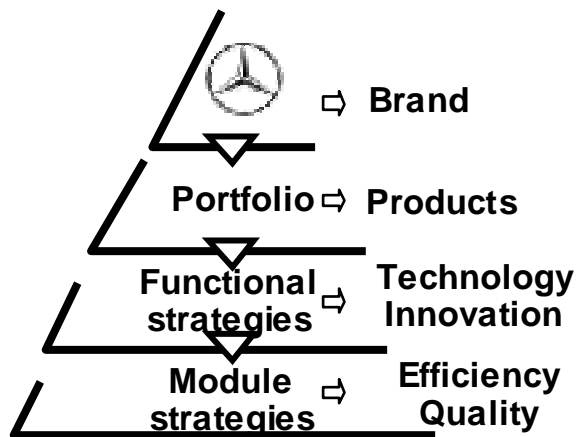
Fascinating and competitive future products are developed based on the new brand model „Appreciation“



New vehicles and their variants with lots of innovations are coming up on the basis of the new brand profile “Appreciation”

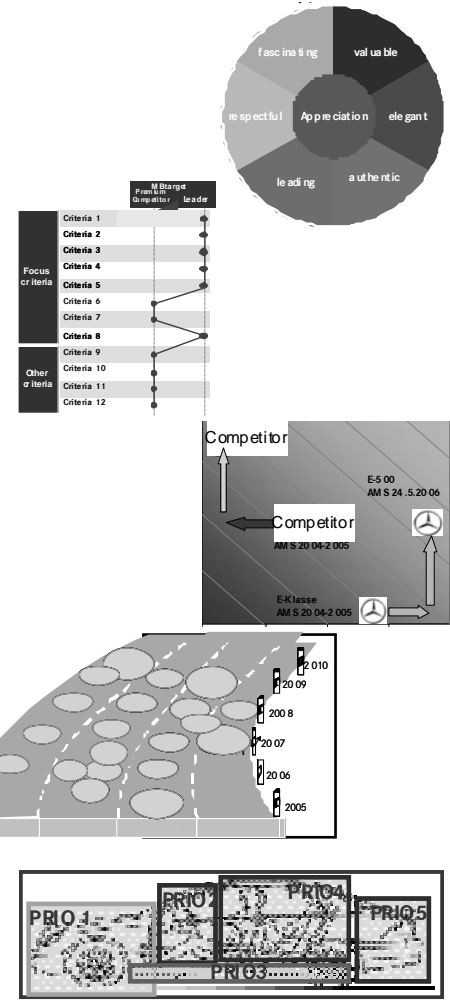
A clearly defined development strategy ensures fascinating vehicles and efficient processes

GR&MCG/D-Strategy



Action plan

- ① “new” core brand values
- ② Product performance profiles (actual versus target)
- ③ Definition of measurables for all product performance criteria
- ④ Functional strategies Defined and approved
- ⑤ Committed Innovations road maps
- ⑥ Vehicle Architecture & Module strategies for MCG



Summary & Conclusion

- The new division Group Research & Mercedes Car Group Development is well prepared for the challenges of the future
- Optimized processes and new structures are in place
- First successes with the new products are already visible
- All new future products on track in development



DISCLAIMER

This presentation contains forward-looking statements that reflect management's current views with respect to future events. The words “anticipate,” “assume,” “believe,” “estimate,” “expect,” “intend,” “may,” “plan,” “project” and “should” and similar expressions identify forward-looking statements. Such statements are subject to risks and uncertainties, including, but not limited to: an economic downturn in Europe or North America; changes in currency exchange rates, interest rates and in raw-material prices; introduction of competing products; increased sales incentives; the effective implementation of our New Management Model, and the CORE program, including the new business model for smart, at the Mercedes Car Group; renewed pressure to reduce costs in light of restructuring plans announced by our major competitors in NAFTA; disruption of production or vehicle deliveries, resulting from shortages, labor strikes or supplier insolvencies; the resolution of pending governmental investigations; and decline in resale prices of used vehicles. If any of these or other risks and uncertainties occur (some of which are described under the heading “Risk Report” in DaimlerChrysler’s most recent Annual Report and under the heading “Risk Factors” in DaimlerChrysler’s most recent Annual Report on Form 20-F filed with the Securities and Exchange Commission), or 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. We do not intend or assume any obligation to update any forward-looking statement, which speaks only as of the date on which it is made.