

MOST-Forum 2010

MOST150 – Development and Production Launch from an OEM's Perspective
Stephan Esch, Frankfurt, 23.03.2010

AGENDA

- ▶ History of MOST Cooperation
- ▶ MOST at Audi
- ▶ Production Launch of MOST150
- ▶ Future Prospects
- ▶ Summary

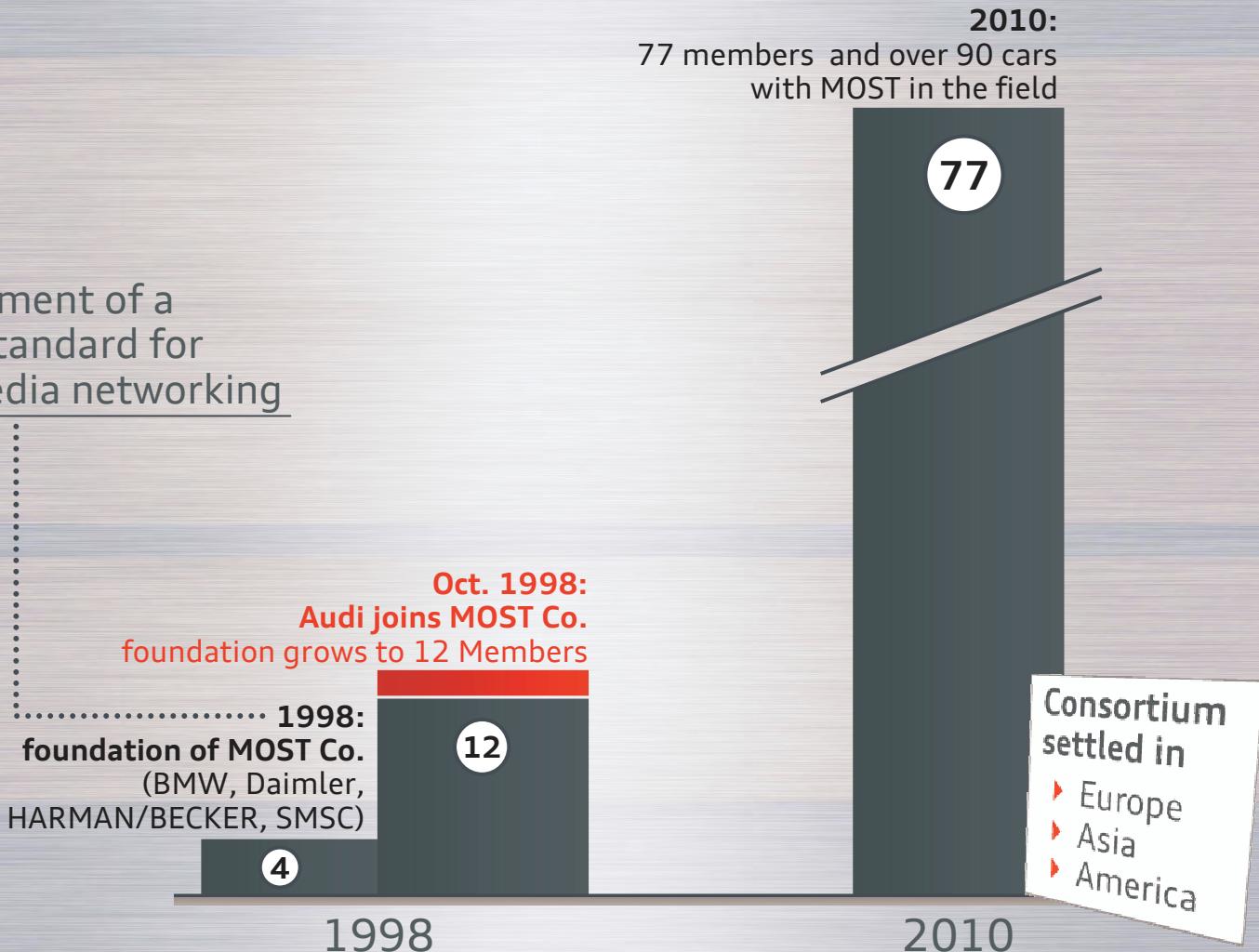
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MOST Cooperation – the story of success

Goal:

Development of a
global standard for
multimedia networking



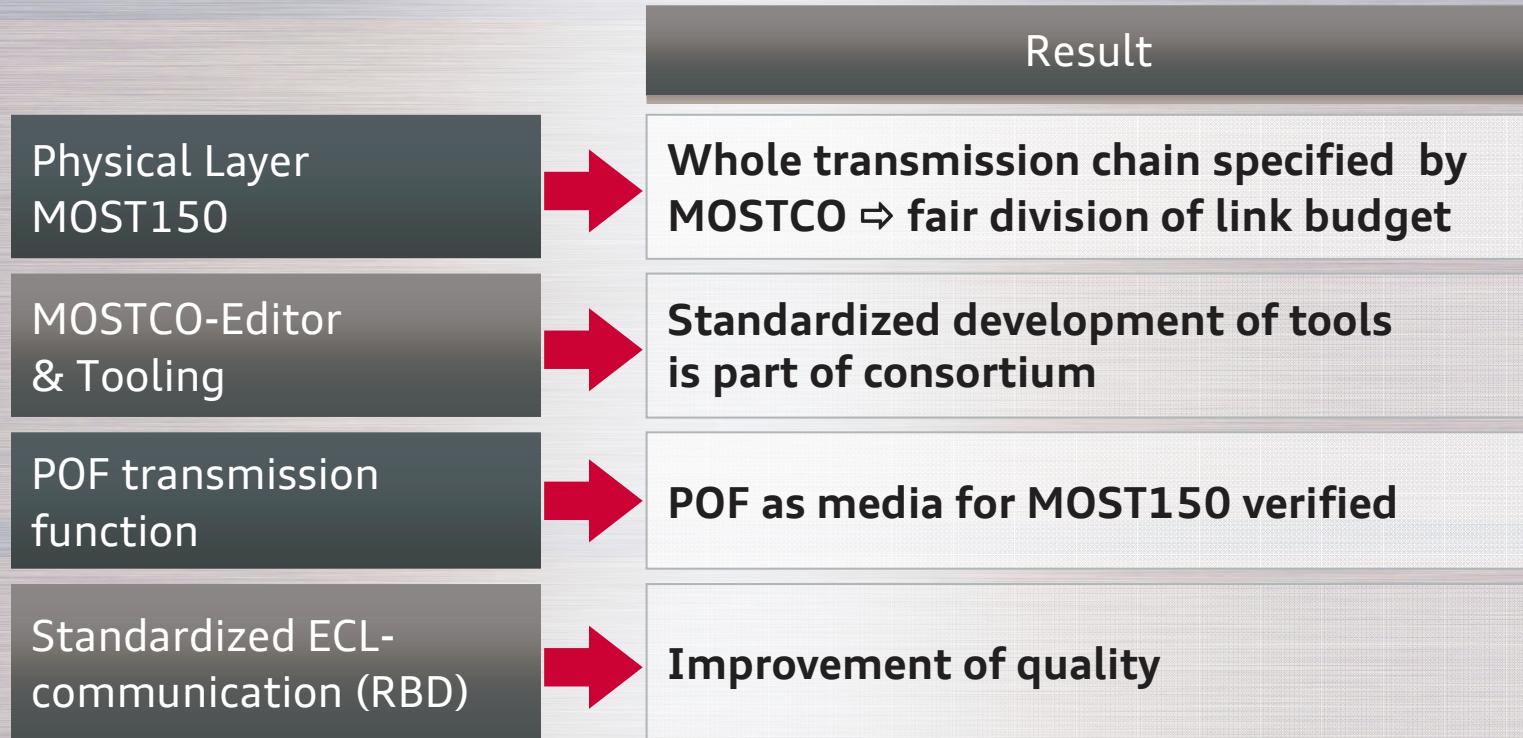
MOST Cooperation – the story of success

Success factors:

- ▶ Active participation of developers for 12 years
- ▶ Combination of Networking- and Infotainment-know-how
- ▶ Changing technical leadership accepted (depending on series-projects)



Successes of work in consortium

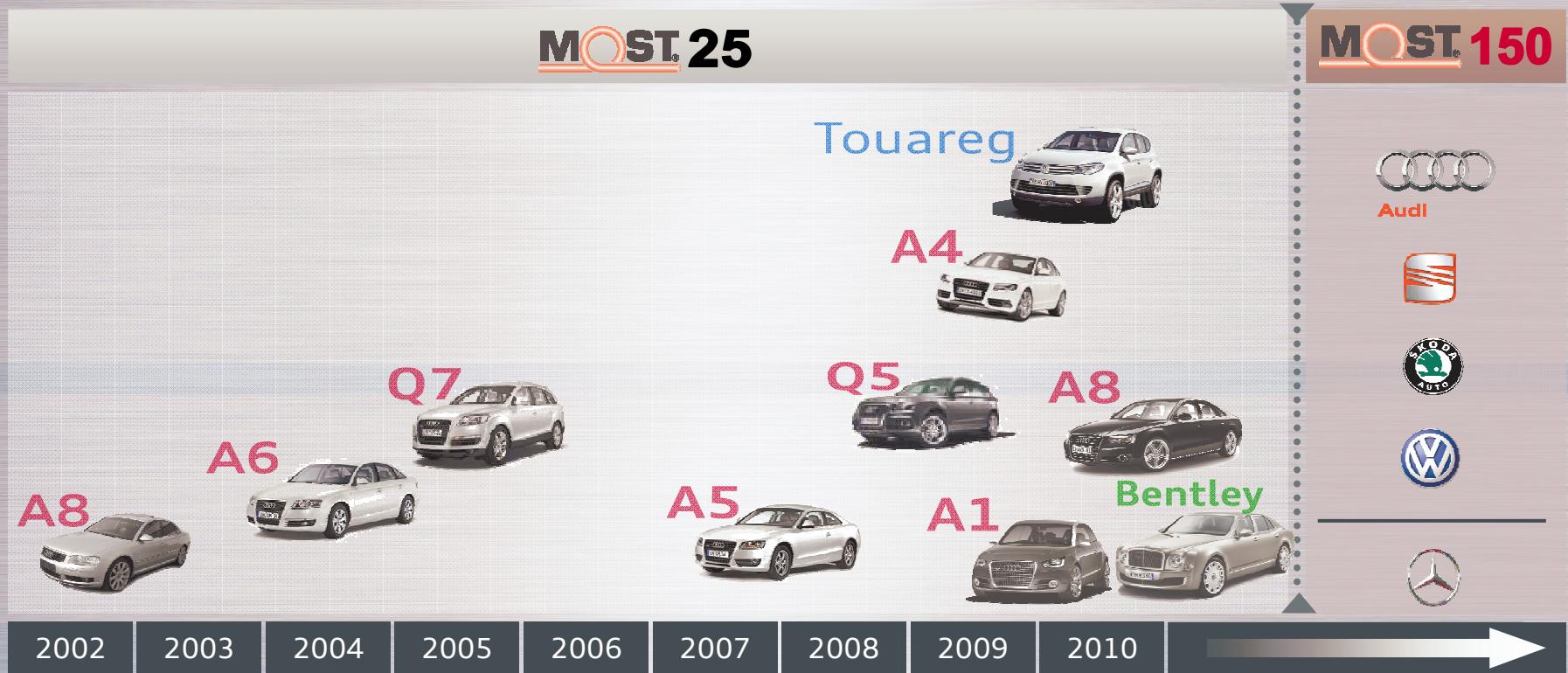


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MOST at Audi and VW

- ▶ MOST in the field since 2002 in MLB (starting with A8)
- ▶ Rollout of technology over all production series

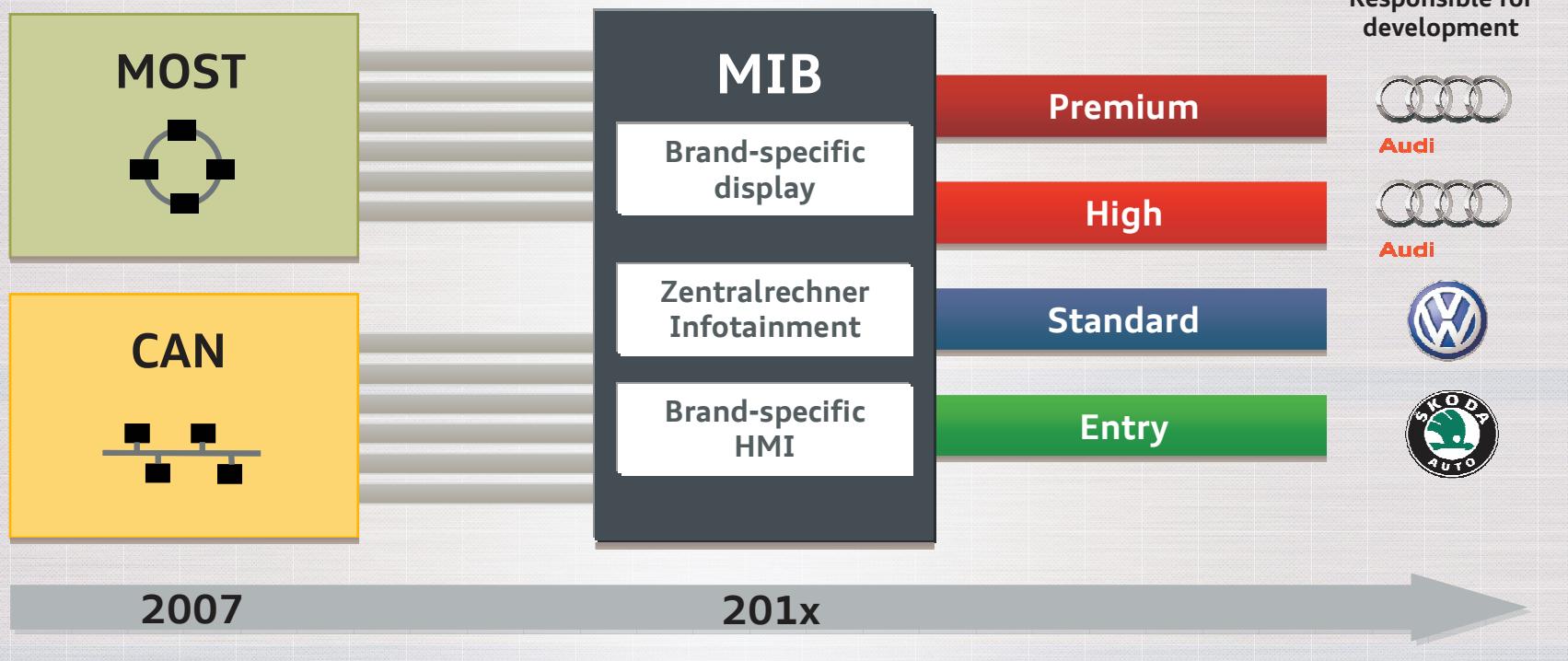


Rollout of MOST technology into volume segment

Infotainment

Challenges and solutions

Modularer Infotainment Baukasten MIB (Volkswagen Group)



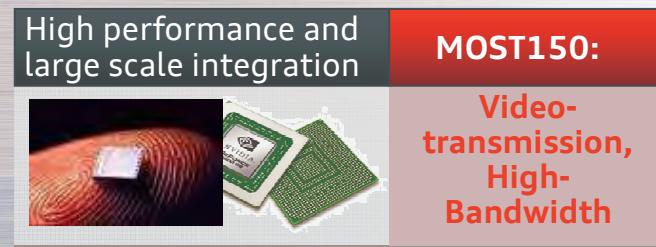
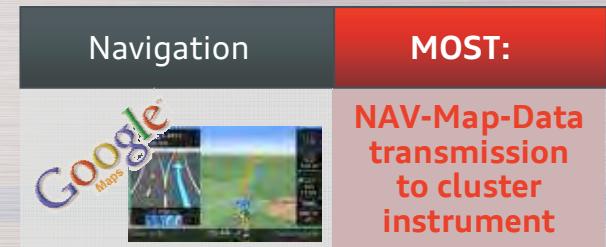
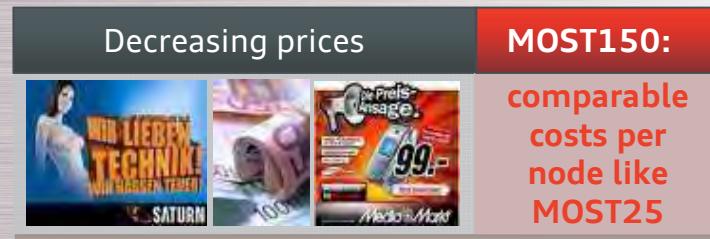
MIB → One Infotainment Construction Kit for whole Volkswagen Group

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Infotainment

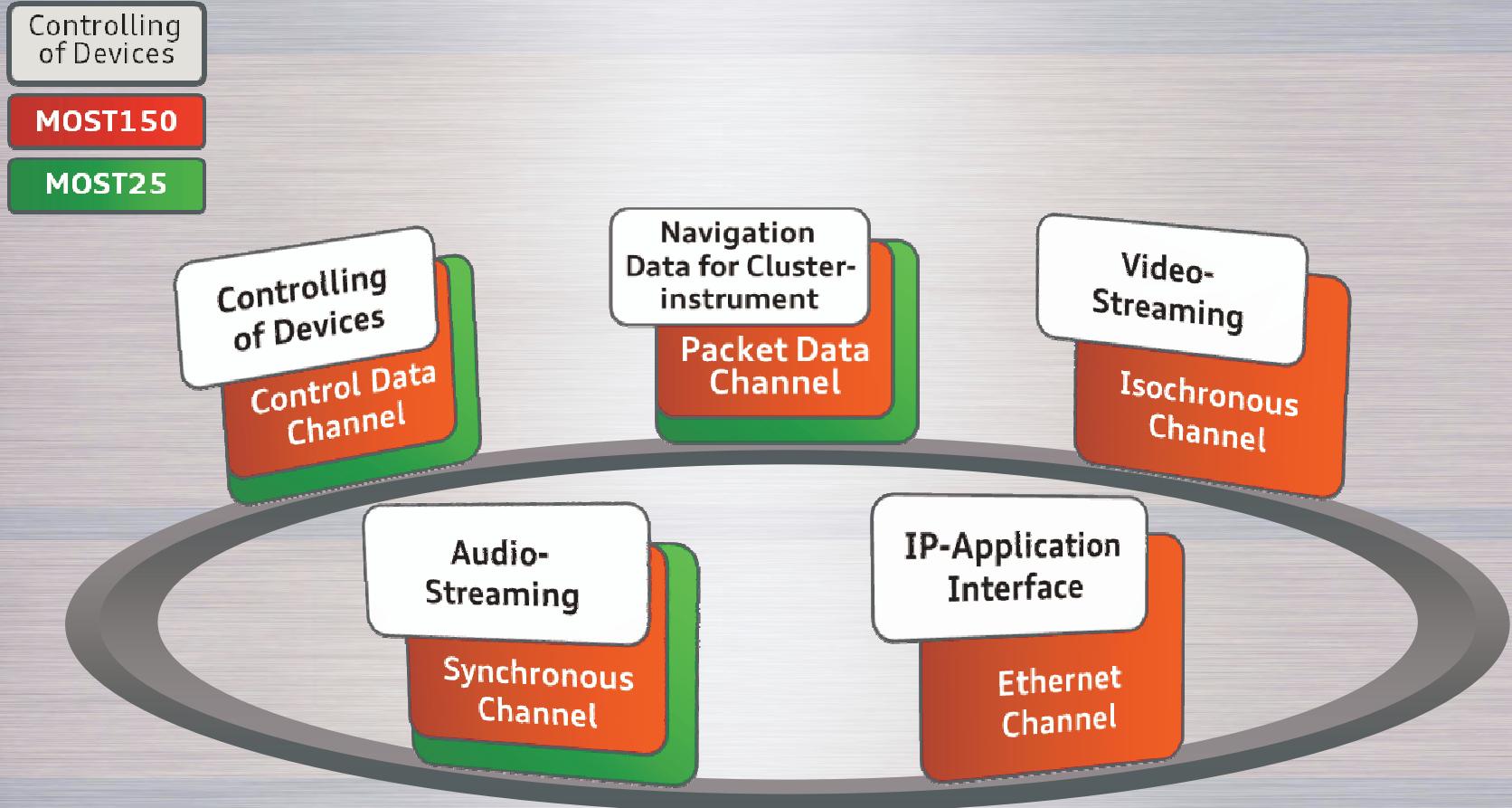
Requirements for Multi-Media-Networking under strong influence by consumer electronics



MOST150 – ALL OVER ONE WIRE

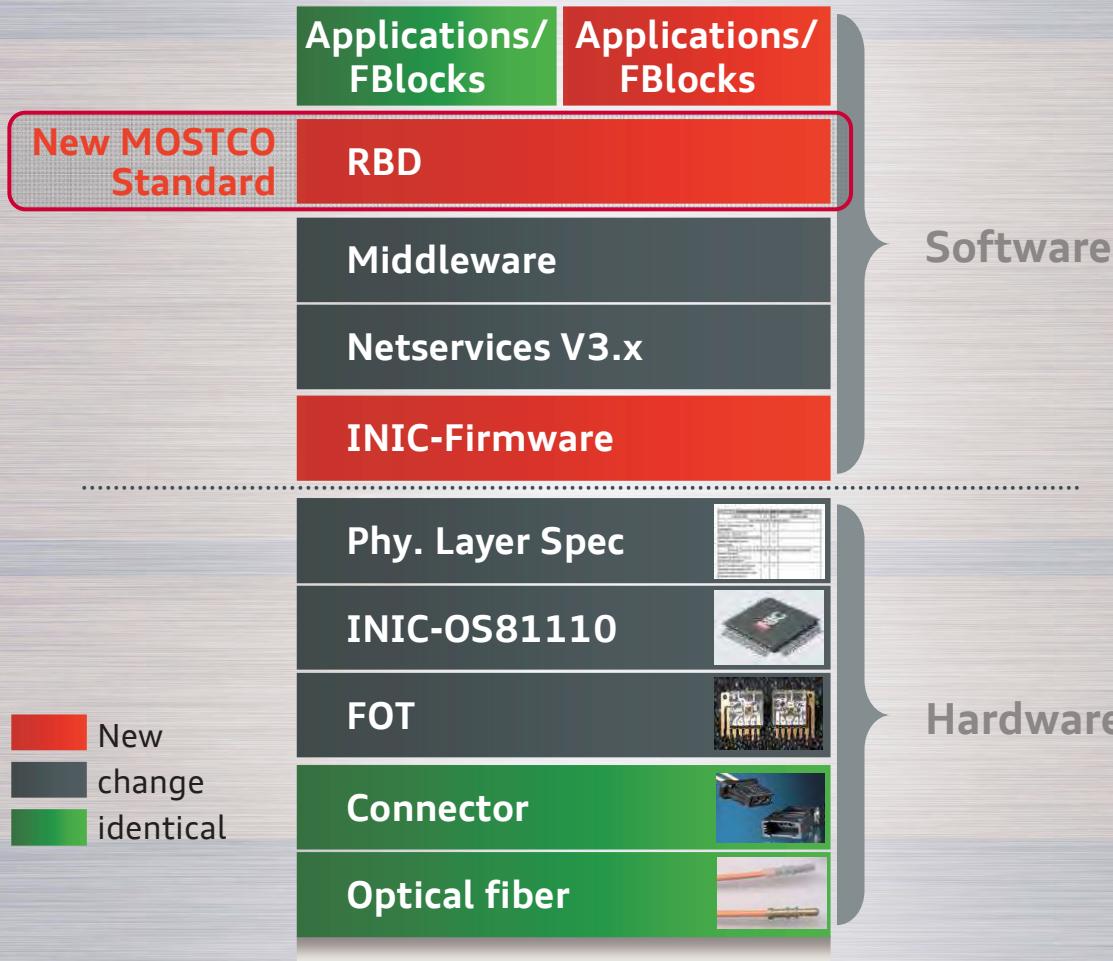
More Bandwidth demand

Services required in infotainment systems



MOST150 → All needed communication channels in one network

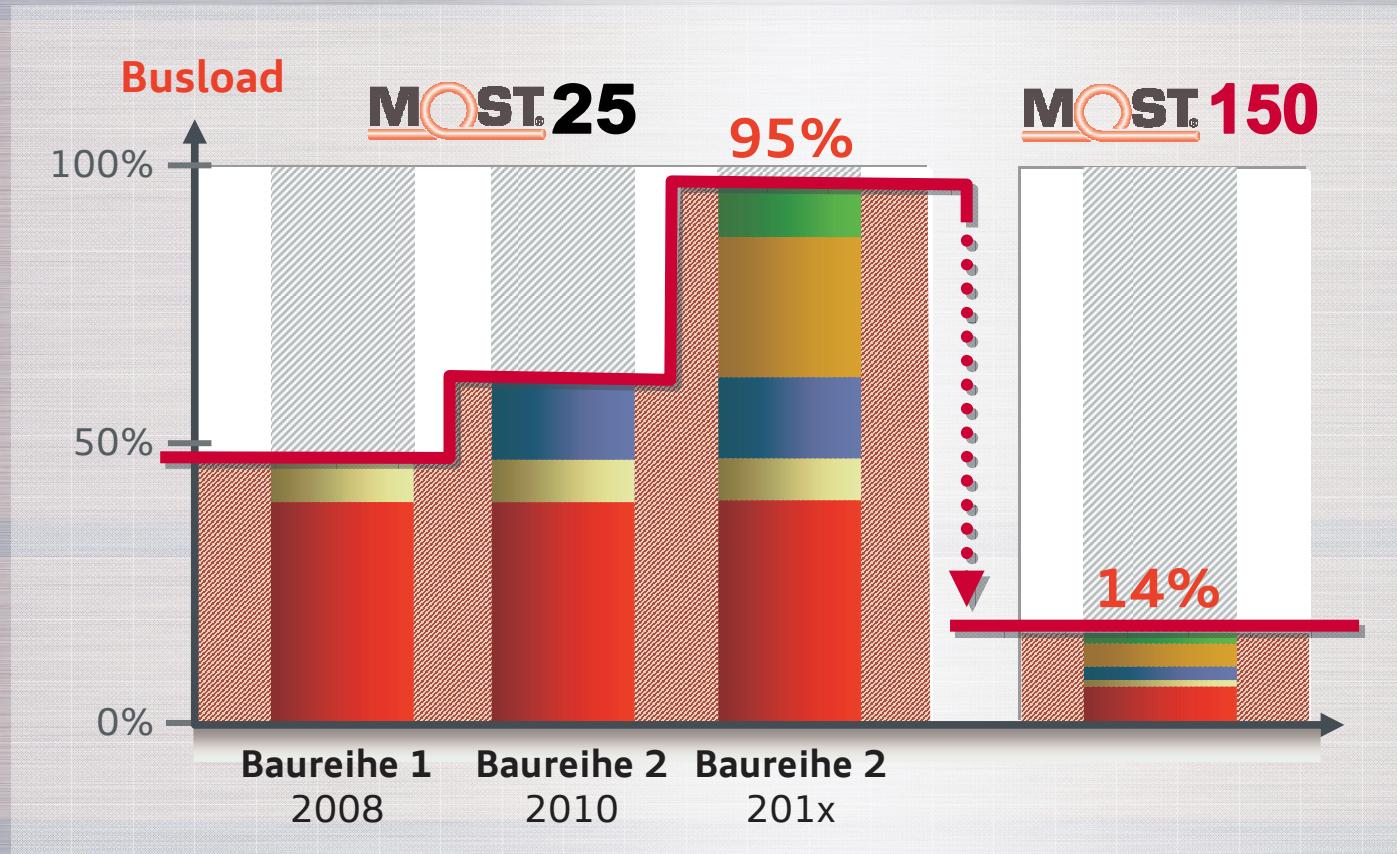
Migration – Hardware & Software changes MOST25 vs. MOST150



Only change of network related infrastructure necessary

MOST150

Growing demand for bandwidth



Bandwidth of MOST25 not sufficient in future
→ MOST150 offer reserves for future use cases

MOST150 – The Solution

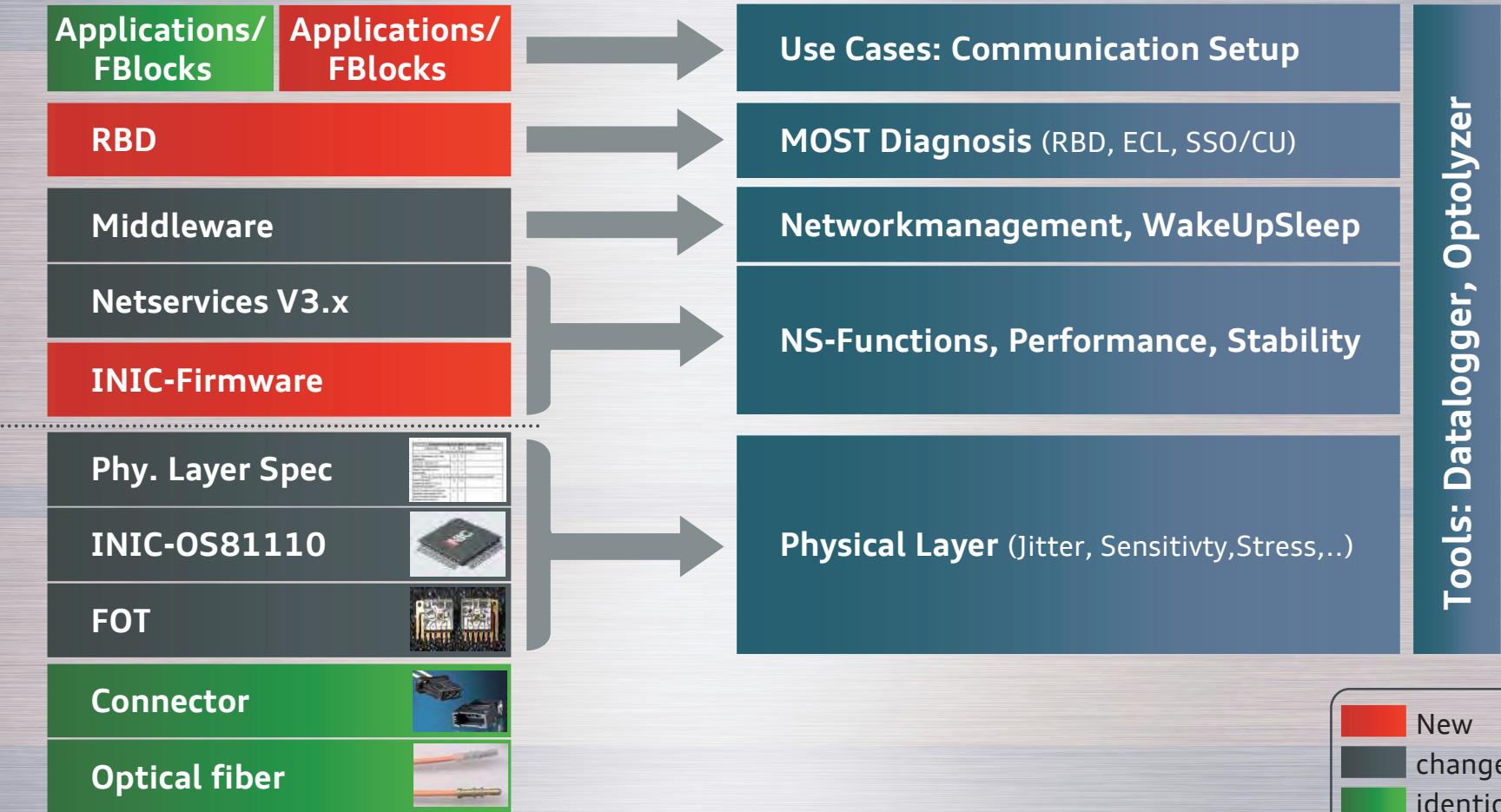
MOST150	All infotainment use cases over one wire / one interface		High Flexibility
MOST150	Consistent further development of existing MOST25 technology		High Reuse & Less Invest
MOST150	6 times Increase of bandwidth compared to MOST25		Sufficient Bandwidth
MOST150	MIB with MOST150 covers all car platforms of VW Group		Comprehensive Approach

→ **MOST150 is technical and economical the best choice for a future-proof infotainment network**

Evaluation of MOST150 technology

Technical changes

Issues of evaluation



All use cases and network layer covered by evaluation

Evaluation of MOST150 technology – Test Systems

MOST150 Reference platform

- ▶ Evaluation-boards
- ▶ Focus:
Prototyping of all relevant Usecases



MOST150 InCar

- ▶ 5 MOST150-ECUs
- ▶ Focus:
Influences of car-environment



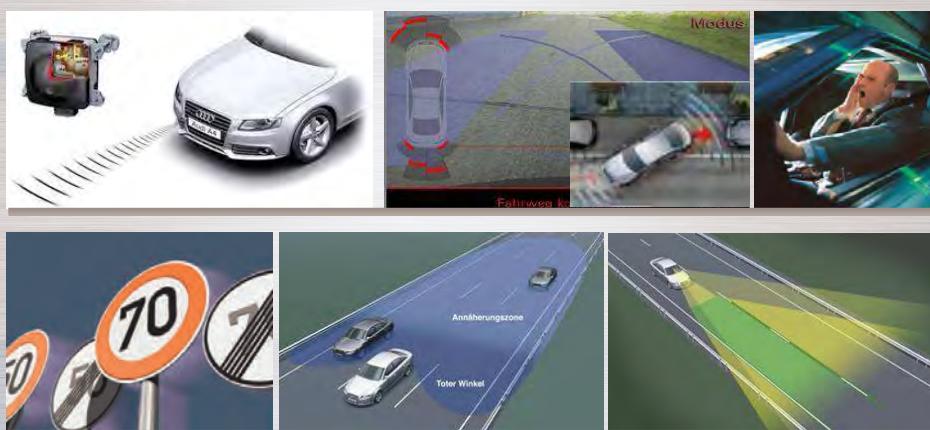
Before starting serial projects at Audi
MOST150 technology has been evaluated !

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Future Prospects - Driver assistance

- ▶ Complexity of Image Processing Systems comparable to complex development of Infotainment Systems
 - ▶ Specification and SystemArchitecture
 - ▶ Implementation and System Test
- ▶ Enhanced functionalities and cost down due to sensor transmission
- ▶ Infrastructure sensor networking → Task of Networking Department



MOST150 – possibility for image and sensordata transmission?

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Summary

► Standardization MOST150 successful finalized in MOSTCO

► MOST150 is the best backbone for Infotainment solutions

- High flexibility to cover automotive requirements
- High Reuse of existing MOST25 technology to minimize invest
- High quality of MOST technology
- Comprehensive Approach for a future-proof network technology

► MOST150 already evaluated to start serial projects

**MOST150 is ready
for production launch**