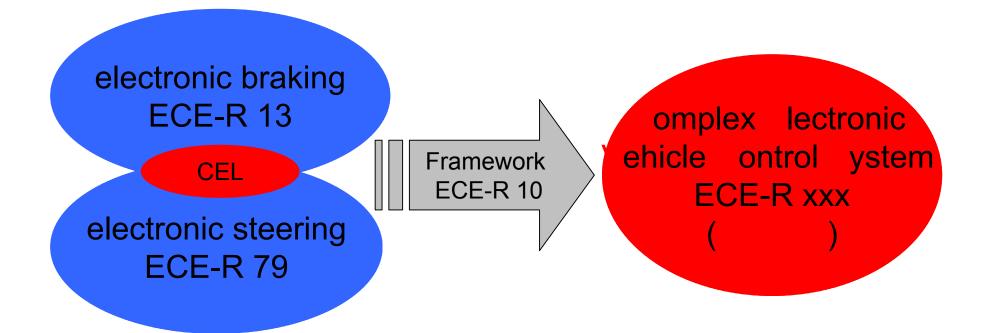
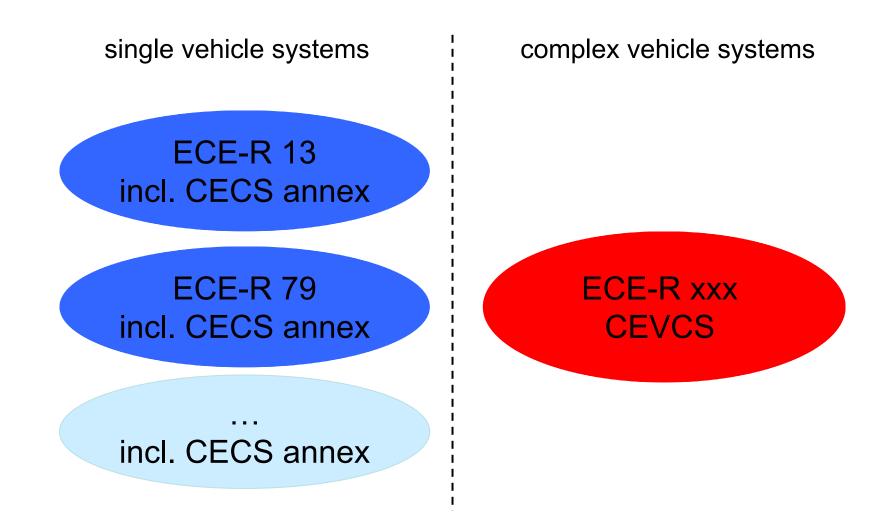
Informal Document No. **GRRF-56-25** (56th GRRF, 20-22 September 2004, agenda item 7.3.)

generic approach



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generic approach



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Existing type approval

- network of electronic controlled:
 - steering systems
 - propulsion systems
 - brake systems
 - anti-theft systems
 - restraint systems

intention

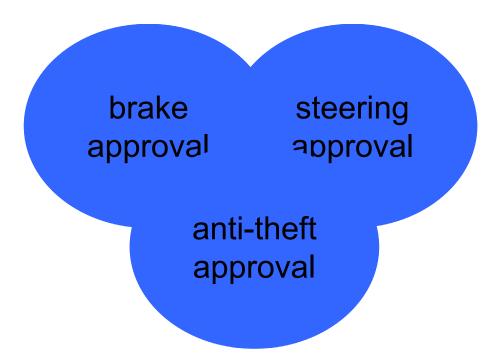
- Increasing rate of CEVCS influencing vehicle's control
 - autonomous cruise control
 - autonomous park assistance
 - lane keeping assistance
 - enhanced stability control
 - active pre-crash system

 - ⇒ suitable type approval ?

Systems not covered by type approval

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engineering process



- ⇒ mutual influence of physical data, priorities, status info
- ⇒ failure mode analysis of the entire system

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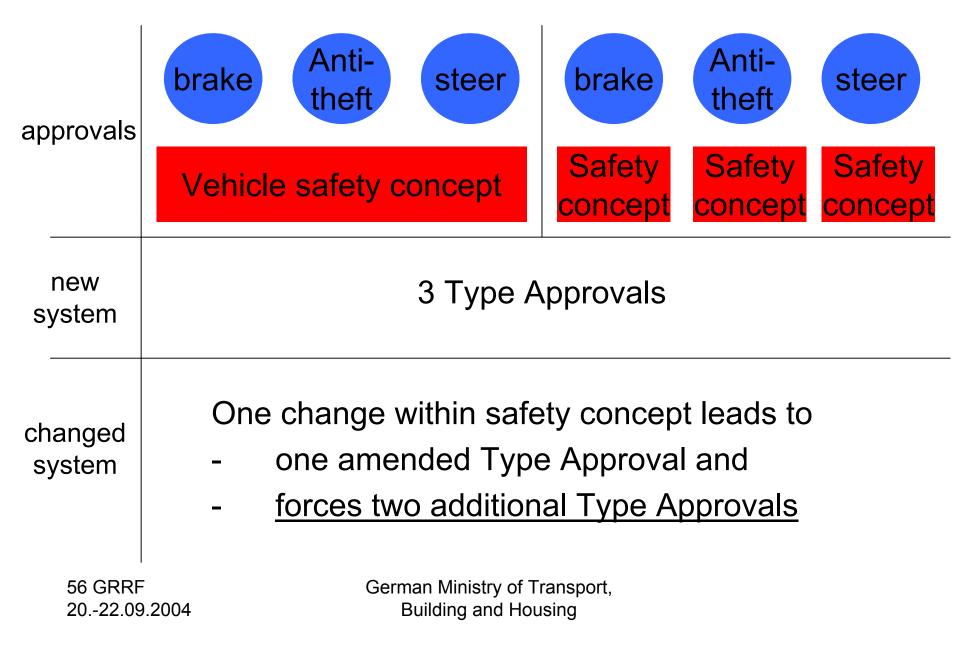
existing type approval process



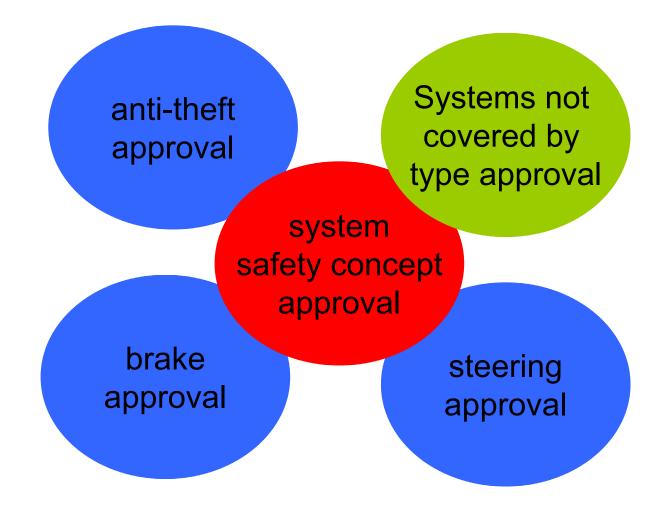
safety concept for vehicle control system

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existing type approval process

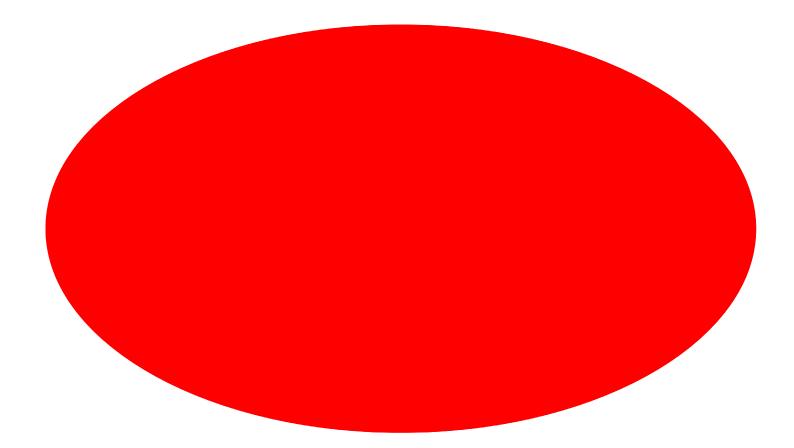


ECE-R xxx CEVCS



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ECE-R xxx CEVCS



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ECE-R xxx CEVCS

- this approach
 - assesses the vehicle safety system for CEVCS
 - avoids multiple assessments
 - keeps CEL annexes (ECE-R 13, 13H, 79, ...) to reduce type approval efforts for single systems
 - is based on voluntary usage
 - addresses system related approval (different vehicles, models or manufacturers)