

Discussion paper – Major Issues

Oliver Klöckner 19-21th April 2016 6th meeting of the IG ASCF Tokyo, Ichigaya Conference Center



Boundary between ACSF and CSF

Examples for applications currently homologated as CSF



Lane keep assist

Side wind compensation

Short time steering angle correction to prevent lane departure



Boundary between ACSF and CSF

Aim:

- Clear Boundary between CSF and ACSF
- Current Lane Keep Assist (LKAS) shall be covered by Cat. B1
- Results of the SDG "LKAS" should be the Basis for Cat. B1

Solution:

Amendment of the definitions (see UK-Proposal ACSF-06-07)

CSF = only short time steering interventions [less than x s]
 e.g. side wind compensation
! no lane keep function!

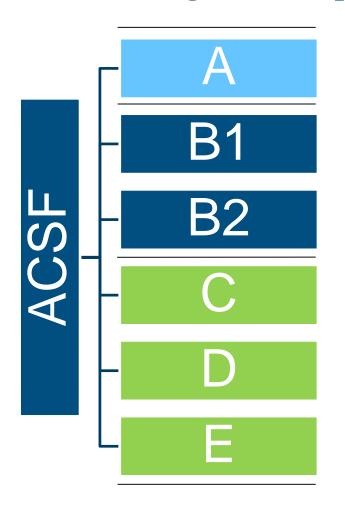
ACSF = low speed manoeuvering (Cat. A)

Lane Keeping (Cat. B1, B2)

Lane changing (Cat. C, D, E)



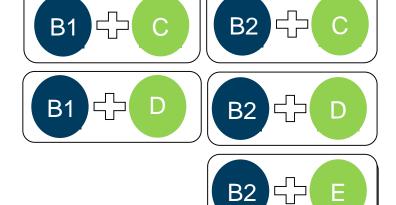
ACSF Categories and permitted combinations



Stand alone Categories



Permitted Combinations





Permissible field of application

	Beyond Highway*	Highway*
Α	yes	(yes)
B1	yes	yes
B2	no	yes
С	no	yes
D	no	yes
E	no	yes

⇒ Any combination out of the categories B2, C, D and E can be only used on Highways*

^{*} road section which is not dedicated to pedestrians or bicyclists and which has a [physical or constructional] separation of traffic moving in opposite directions



Comparison of category B1 and B2

Category B1

- Continious Lane Keeping
- Operating on Highways and other roads
- Detection that the driver is in control of the vehicle
 - Warning after 30s inactivity
 - Deactivation after 60s inactivity

Category B2

- Continious Lane Keeping
- Operating on Highways
- Driver Recognition system
 - Warning after [15]min inactivity
 - Transition Demand if no reaction to the warning
- Minimal Risk Manoeuvre
- Emergency Manoeuvre
- Protective Braking

It is important to discuss the time values of the drivers activity detection



Major issues to be clarified

Following issues should be discussed now to get a common position of the IWG:

- 1) Does the group agree to cover the current LKAS systems in future under Cat. B1?
- 2) Which combinations of the ACSF categories should be permitted?
- What should be the permissible field of application of each category?
- 4) What should be the time intervall for the drivers activity detection for the categories B1 and B2?

Thank you for your attention!

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