CLEPA Position

Special GRRF Session on Automatic Emergency Braking and Lane Departure Warning Systems

Brainstorming Meeting
9 Dec. 2008 - UN Palais des Nations, Geneva
Automatic Emergency Braking (1/4)

• Scope: mandatory for
  – HDV: M2, M3, N2 and N3 with EVSC
  – PC: M1 and N1

• Amendment of
  – HDV: R13 (braking)
  – PC: R13H (braking)
Automatic Emergency Braking (2/4)

• Functional requirements
  – HDV: warning & autonomous braking mand.
  – PC: warning & brake support function mand.
    autonomous braking optional

• Speed range
  – Between 20-130 km/h mandatory
  – Outside this range optional
Automatic Emergency Braking (3/4)

• Detection capabilities: reaction to
  – Moving and stopped vehicles mandatory
  – Stationary vehicles, motorcycles and pedestrians optional

• Failure warning
  – Failure warning & non-failure loss of functionality indicators mandatory
Automatic Emergency Braking (4/4)

• Switch-off
  – Driver shall not be able to switch off manually

• Override
  – Driver shall always be able to override
Lane Departure Warning (1/3)

• Scope: mandatory for all vehicles (M & N)
  – Exemption of special purpose vehicles TBD

• Amendment of R79 (steering)

• Requirements
  – Lane warning mandatory
  – Lane keeping optional
Lane Departure Warning (2/3)

• Speed range
  – Between 60-130 km/h mandatory
  – Outside this range optional

• Detection capabilities: reaction when
  – Maximum 0.3 m outside of the lane marking
Lane Departure Warning (3/3)

• Failure warning
  – Failure warning & non-failure loss of functionality indicators mandatory

• Switch-off
  – Driver shall be able to switch off manually
  – Automatic default to ‘ON’ at start-up