2.4.1.7. **"rear and side view assistance system"** means a system, that provides assistance to the driver in monitoring a defined area to the rear and to the side of the ACSF vehicle by the use of means (e.g. Radar, Lidar, Camera), whereby the driver remains in the full responsibility to surveil the traffic behind and beside the ACSF vehicle.

5.6.5.7 **rear and side view assistance system**

5.6.5.7.1. The vehicle with ACSF Category [C1] shall be equipped with a rear and side view assistance system according to paragraph 2.4.1.7.

5.6.5.7.2. The rear and side view assistance system shall detect other road users in defined area according to paragraph 5.6.5.7.3. and 5.6.5.7.4..

5.6.5.7.3. The minimal detection range to the left and to the right (side) of the ACSF Category [C1] system shall be at least 6 m (see drawing) measured from the medium longitudinal centerline of the vehicle equipped with ACSF of Category [C1].

>>>**Drawing to be added**<<< (Homework of OICA)

5.6.5.7.4. The minimal detection range to the rear (s_{Rear}) of the ACSF Category [C1] system shall be calculated according to the following formula:

Taken from the current text of C1 (after 13th meeting)

$$S_{Rear} = X_{RT} + X_{BD}$$

$$X_{RT} = (V_{RO} - V_{VUT}) \cdot RT$$

$$X_{BD} = \frac{V_{RO}^2 - V_{VUT}^2}{2 \cdot a_{RO}} - \frac{V_{RO} - V_{VUT}}{a_{RO}} \cdot V_{VUT}$$

V_{RO} = 130 km/h,

$V_{UT} = V_{SMIN}$ of ACSF vehicle,

RT = 1,2 s,

a_{RO} = 3 m/s²,

However, S_{Rear} shall not be below 48,9 m. (S_{Rear} for ΔV = 50 km/h)

5.6.5.8. **Safety distance requirements**

5.6.5.8.1. The vehicle with ACSF Category [C1] shall not carry out any lane change manoeuvre [or shall abort an already started manoeuvre] if an overtaking vehicle is detected within the safety distance to the rear (S_{Rear}) or the safety distance to the left or to the right (side). In these cases the system shall clearly inform the driver by an optical warning signal and additionally by an acoustic or haptic warning signal.