2021, September 16th

**This document prepared by the UTAC proposal to introduce the AVAS function in R10**

**Issues**

Plug Hybrid, Hybrid and electric vehicles (PHEV / HEV / EV) are significantly quieter than their internal combustion engine (ICE) counterparts when driven at low speeds, heightening the risk to the blind and partially sighted who rely on audible signals when navigating in the vicinity of traffic (e.g. in parking lots and while crossing streets). These vehicles today have a system to artificially generate minimum sound levels when operating at low speeds.

This system calling Acoustic Vehicle Alerting System" (AVAS) means a component or set of components installed in vehicles with the primary purpose to fulfil the requirements of the Regulation 138.

**Proposal**

We propose to introduce in Clause 2.12 the AVAS function in item “

(b) Functions related to driver, passenger and other road user protection:

(i) E.g. airbag and safety restraint systems, emergency calling systems, **AVAS**;

Adding a new cycle in Annex 6 /

| ***AVAS test conditions*** | ***Failure criteria*** |
| --- | --- |
| Vehicle speed 10 km/h ±20 per cent (vehicle driving the rollers). | Speed variation greater than ±20 per cent of the nominal speed  Loss of AVAS sound |

For information in R138 clause 6.2 is precise that “The speed range for operation is the range of greater than 0 km/h up to and inclusive 20 km/h”