

Motorway traffic related VACS – Lane change/merge systems

System	Description	Sources of info
Cooperative Following and Merging (CFM)	Automatically adjusts speeds to preserve a desired time or space gap from the preceding vehicle and assists lane changing manoeuvres by creating and maintaining an appropriate gap in the target lane	Tampère et al, 1999
Cooperative Merging (CM)	Assists the driver in lane changing manoeuvres by creating and maintaining an appropriate gap in the target lane	Tampère et al, 1999; Popescu-Zeletin et al, 2010
Lane Change Decision Aid System (LCDAS)	Support lane change and merge vehicle manoeuvres; ranges from warning to more autonomous systems, which support the driver all the way from the lane change intention until placement in the target lane	Godbole et al, 1997; Jula et al, 1999, 2000; Smith et al, 2003; Tideman et al, 2007; Visvikis et al, 2008; Popescu-Zeletin et al, 2010; Habenicht et al, 2011; Wan et al, 2011; Bartels et al, 2012; Tomar and Verma, 2012; Knake-Langhorst et al, 2013