Motorway traffic related VACS – V2X systems

System	Description	Sources of info
Cooperative Following and Merging (CFM)	V2V cooperation is necessary to perform its following function, while V2V or V2I cooperation is necessary for the accomplishment of the merging function	Tampère et al, 1999
Integrated Full-Speed Range Speed Assistant (IRSA)	V2V or V2I cooperation is necessary so that speed limits are directly communicated to the vehicle, while V2V cooperation is necessary to perform its CACC similar function; in absence of V2V cooperation, it functions as ACC	Wilmink et al, 2006; van Arem et al, 2007
Vehicle Platooning System (VPS)	V2V cooperation suffices to form and maintain vehicle platoons; combination of V2V and V2I cooperation has also be used	PATH, 1997; Michael et al, 1998; Hedrick et al, 2001; Lee and Kim, 2002; Bonnet, 2003; Ehmanns and Spannheimer, 2004; Bishop, 2005; Hallé and Chaib-draa; 2005; van Arem et al, 2006; Alam et al, 2010; Alam, 2011; Tientrakool et al, 2011; Bergenheim et al, 2012a, 2012b; Kavathekar, 2012; Shladover, 2012a; Brännström, 2013; Davila, 2013; iMobility Forum, 2013; Kianfar, 2013; SARTRE, 2013; Tsugawa, 2014;