MEO's contribution to
RSPG's Draft Opinion on
Spectrum Aspects of Intelligent Transport Systems

MEO agrees that Spectrum Aspects of Intelligent Transport Systems for roads should take into account 5G and IoT existing activities.

RSPG notes that mobile networks may provide opportunities for services to complement ITS, in particular using 5G features. MEO considers that in addition to 5G features, C-ITS messages will be transmitted for a wide range of services achieved through a hybrid communication. The current most promising approach[1] is a combination of ETSI ITS-G5 and existing cellular networks with wide geographical coverage (e.g. LTE).

As part of the LTE evolution 3GPP is developing functionality to provide vehicular communications both in terms of direct communication (between vehicles, vehicle to pedestrian and vehicle to infrastructure) and for cellular communications with networks. The initial Cellular Vehicle-to-Everything (LTE V2X) standard, for inclusion in the Release 14, focuses on Vehicle-to-Vehicle (V2V) communications, with further enhancements to support additional V2X operational scenarios to follow, expected to be finalized by 1H 2017. The 5G V2X communication features (3GPP NR V2X) shall complement LTE V2X for advanced V2X services and support interworking with LTE V2X. MEO agrees that the impact on current and potential future ITS (LTE-V2X/5G-V2X and existing ITS-G5/IEEE 802.11p) in 5855-5875, 5875-5905 and 5905-5925 MHz should be taken into account when considering changes to spectrum use in these and adjacent bands.

[1] COM(2016) 766 final " A European strategy on Cooperative Intelligent Transport Systems, a milestone towards cooperative, connected and automated mobility"