

*Preliminary GSC position
for WRC-19 on AI 1.12*

AI 1.12 Intelligent Transport Systems applications

Goal: ITS should only operate on an unprotected basis with separation distances between FSS E/S and ITS receivers

- **Genesis:** Resolution 236 (WRC-15)
- **Issue:** to consider possible global or regional harmonized frequency bands, to the maximum extent possible, for the implementation of evolving Intelligent Transport Systems (ITS) under existing mobile-service allocations.

- **Background:** Studies on compatibility of ITS and FSS in the frequency range 5850 – 5925 MHz have only been conducted by the European CEPT – and only for IEEE 801.11p technology – but not yet at the ITU-R. These studies are reported in the ECC report 101. Current Mandate from the European Commission requests CEPT to investigate whether the conclusions drawn in ECC Report 101 are valid for the LTE based V2X technology as well (CEPT Report to be finalized by March 2019).
- However, the lack of a regulatory framework for the sharing between NGSO and GSO systems creates uncertainty amongst FSS operators in these bands.
- Some views indicated there is potential for harmful interferences from FSS earth stations uplinks into ITS receivers. Consequently, some administrations in Region 1 have concluded that ITS stations cannot claim protection from FSS earth station uplinks in the 5 850-5 925 MHz frequency band.

GSC Position

- No changes to the Radio Regulations are necessary. GSC is of the opinion that Method A offers the best balance between the level of harmonization and flexibility for administrations and industry to implement ITS.
- ITS operate within existing mobile service allocations. Harmonization of frequencies for ITS pertaining to the exchange of information to improve traffic management and assisting driving safety can be achieved by developing applicable ITU R Recommendations and/or Reports (e.g., Recommendation ITU-R M.[ITS_FRQ]).