

RECOMMENDATION 208 (WRC-19)

**Harmonization of frequency bands for evolving
Intelligent Transport Systems applications
under mobile-service allocations**

The World Radiocommunication Conference (Sharm el-Sheikh, 2019),

considering

- a)* that information and communication technologies are integrated in a vehicle system to provide evolving Intelligent Transport Systems (ITS) communication applications for the purpose of improving traffic management and assisting safer driving;
- b)* that there is a need for consideration of spectrum harmonization for evolving ITS applications, which are being used globally or regionally;
- c)* that there is a need to integrate various technologies, including radiocommunications, into land transportation systems;
- d)* that many new connected vehicles use intelligent technologies in the vehicles' combined advanced traffic-management, advanced traveller-information, advanced public transportation-management and/or advanced fleet-management systems to improve traffic management;
- e)* that future vehicular radiocommunication technologies and ITS broadcast systems are emerging;
- f)* that some frequency bands harmonized for ITS are also allocated to the fixed-satellite service (FSS) (Earth-to-space), which under certain circumstances may cause potential interference to ITS stations while in close proximity,

recognizing

- a)* that harmonized spectrum and international standards facilitate worldwide deployment of evolving ITS radiocommunications and provide for economies of scale in bringing evolving ITS equipment and services to the public;
- b)* that the use of frequency bands harmonized for evolving ITS, or parts thereof, does not preclude the use of these bands/frequencies by any other application of the services to which they are allocated and does not establish priority in the Radio Regulations;
- c)* that in those harmonized frequency bands or parts thereof for evolving ITS, there are existing services whose protection needs to be ensured;
- d)* that evolving ITS also becomes important in helping to reduce road traffic problems such as congestion and accidents;
- e)* that ITU-R studies on evolving ITS technologies are meant to address road safety and efficiency-related matters,

noting

- a) that the ITU-R Recommendations on ITS are Recommendations ITU-R M.1452, M.1453, M.1890, M.2057, M.2084 and M.2121;
- b) that the ITU-R Reports on ITS are Reports ITU-R M.2228, M.2322, M.2444 and M.2445;
- c) that some administrations have deployed or are considering deployment of radiocommunication local area networks in some frequency bands recommended for evolving ITS,

recommends

- 1 that administrations consider using globally or regionally harmonized frequency bands, or parts thereof, as described in the most recent versions of Recommendations (e.g. ITU-R M.2121), when planning and deploying evolving ITS applications, taking into account *recognizing b)* above;
- 2 that administrations take into account, if necessary, coexistence issues between ITS stations and stations of existing services (e.g. FSS earth stations), taking into account *considering f)*,

invites Member States and Sector Members

to participate actively in and to contribute to ITU-R studies on aspects of ITS and evolving ITS (e.g. connected vehicles, autonomous vehicles, adaptive driver assistance systems), through the ITU-R study groups,

instructs the Secretary-General

to bring this Recommendation to the attention of relevant international and regional organizations, in particular standards development organizations, dealing with ITS.