Queensland Transport and Main Roads (TMR) currently deploys Intelligent Transport Systems (ITS) point to multipoint radio systems within the 3.6GHz band across Queensland by way of its Traffic Management Centres (TMCs). The equipment is primarily Cambium Point to Multipoint (PMP) wireless equipment.

ITS services occupy a large percentage of the 3.6GHz band in Queensland and have been rapidly expanding in recent years. The fate of this band has a high impact on TMR providing key ITS services to the Queensland public.

ITS wireless solutions in this frequency band are used principally for Traffic Signal Control as well as emergency vehicle priority at intersections, control of variable message signage, incident detection, floodway devices, video surveillance. All of which are provide essential services to Queensland Road Safety and Traffic Congestion. In many areas there is no alternate copper or fibre-based alternatives to the use of PMP Wireless Network connection.

In anticipation of the clearance of the 3.6 GHz band for 5G purposes TMR has proactively acquired 5.6GHz spectrum in some areas, and in some cases already commissioned new replacement PMP equipment in the 5.6Ghz band and relinquished the prior TMR 3.6Ghz spectrum.

A brief summary of TMR areas of concern is listed below

1. **Townsville** **Area** – Currently 40 MHz channel allocation at 3.6Ghz - **Mount Stuart 30Mhz +** **10Mhz**  / **140 + subscribers** / *local 5.6GHz BoM Radar makes TMR 5.6Ghz untenable* ?
2. **Rockhampton Area –** includes **Mt Archer (30 MHz / 110 Subscribers) & Mt Barmoya ( 30 MHz / 15 subscribers ) –** *currently looking at both 5.6 GHz and 3.4-3.7 GHz options.*
3. **Kingaroy / Wide bay / Bundaberg Area – includes 3 x 3.6GHz smaller TMR systems –** Kingaroy , Bundaberg , Maryborough (all 10 MHz) – *currently all scheduled to go to 5.6GHz.*
4. **Ayr/Home Hill Area –** potential interference issues with BoM 5.6Ghz Radar , *so 3.4-3.7 Ghz alternatives recommended .*
5. **Ingham Area** – *TMR transition to 5.6 GHz currently underway.*
6. **Charters Towers -** *TMR transition to 5.6 GHz currently underway.*

We are keen to engage with ACMA in discussing possible frequency band licensing options for 3.6GHz TMR equipment where the simple transition to 5.6Ghz equipment is not seen as feasible.