

## **RADIONET3**

## **TRIPS OF WP7**

### **RADIO ASTRONOMICAL SPECTRUM MANAGEMENT**

SUBJECT	<b>8<sup>th</sup> Meeting of CEPT CPG-PTD</b>
DATE	<b>19-23 January, 2015</b>
PLACE	<b>Edinburgh, UK</b>
PARTICIPANTS	Wim van Driel (CRAF)

#### **BACKGROUND:**

At the 2012 World Radiocommunication Conference (WRC-12) of the International Telecommunication Union (ITU) an Agenda Item was defined for the next WRC in 2015, on the identification of an additional 600 MHz bandwidth in the range 470 MHz to 6 GHz to be allocated to International Mobile Telecommunications (IMT) for the development of terrestrial mobile broadband applications.

Some of the frequency bands considered for the new IMT allocations are shared with, immediately adjacent to or nearby 14 bands used for radio astronomical observations. This indicates there are potential threats to some of the most commonly used radio astronomy bands from these potential allocations.

At a global level, CRAF has lead the work towards the completion of Draft New Report ITU-R RA.[RAS-IMT] at meetings of the ITU Joint Task Group 4-5-6-7, which contains the results of compatibility studies between potential IMT allocations and the radio astronomy service.

At a European level, the CPG-PTD group of the CEPT (European Conference of Postal and Telecommunications Administrations) is charged with coordinating proposals for new IMT frequency allocations, and to present its conclusions in a CEPT Brief and European Common Proposals for ITU WRC-15, where final decisions on frequency allocations will be made.

#### **HIGHLIGHTS:**

At this CPG-PTD meeting, decisions were reached on whether the frequency bands that were still under study are supported for mobile broadband or not, and the draft CEPT Brief and European Common Proposals (ECPs) updated accordingly.

- No in-band sharing is supported between IMT and the radio astronomy service (studies has shown this to be infeasible, given the very large exclusion zones to be implemented around radio telescopes);
- For the band 1400-1427 MHz (the 21cm HI line band) , *mandatory* IMT out-of-band emission limits are supported at low levels which will make the implementation of exclusion zones feasible;
- Details of the RAS protection requirements are included in the draft CEPT Brief, in accordance with Draft New Report ITU-R RA.[RAS-IMT], and as supported by CRAF.

#### **NEXT STEPS:**

Continued participation in meetings of CEPT PTD, and ITU's Conference Preparatory Meeting and World Radiocommunication Conference 2015, organizing support from national Administrations.