

Your response

Question	Your response
<p>We invite interested parties to provide feedback on the Roadmap.</p>	<p>Confidential? – Y/ N</p> <p>The Met Office welcomes the publication of the Spectrum Roadmap and looks forward to working with Ofcom to continue using spectrum to deliver benefits to the UK.</p> <p>Spectrum underpins a range of Met Office services: from satellite observations to monitor climate change, through to weather radar to warn of heavy rainfall hours ahead. We also use a range of communications channels to share data across the UK and with partners internationally.</p> <p>The Met Office think that the following areas of the Spectrum Roadmap could provide valuable opportunities for closer working with Ofcom and would be interested in hearing more about the planned work in these areas.</p> <ul style="list-style-type: none"> • Spectrum sandboxes <p>Given our reliance on passive remote sensing measurements at a range of frequencies, the Met Office are very interested in activities to ensure the resilient provision of these measurements in future. We would support more use of real world data regarding the characteristics of operational sensors to ensure that thorough consideration of the impact on incumbent users is undertaken before allocation to new users. We would encourage Ofcom to include expert stakeholders from the remote sensing community in this activity, to ensure that accurate sensor characteristics are used in studies and to strengthen trust between the remote sensing community and other spectrum users. <i>We would be interested in to know more about this area of work, including how it relates to the Improved Receiver Resilience area.</i></p> • Using real-world data to improve propagation and coexistence modelling <p>The Met Office have previously worked with NPL and Ofcom to study on the propagation of 5G in a range of atmospheric conditions. Building on this we are now working in partnership with NPL to measure atmospheric impacts on active 77 GHz automotive radar systems at a fully instrumented weather testbed, including path loss</p>

measurements at this frequency band, which would straightforwardly generalise to other 5/6G wavebands. *We would be interested to know more about Ofcom's plans for this area of the Spectrum Roadmap and how we could get involved.*

- **Improved receiver resilience**

As outlined in our comments on Spectrum Sandboxes, the Met Office rely on a range of passive remote sensing measurement systems, many of which are highly sensitive to interference and utilise frequency bands with high levels of protection.

The UK has supported billions of Euros of EUMETSAT investment in the development EESS receivers currently in orbit and those due to launch over the next 5-10 years. The Met Office, as the UK's representative in EUMETSAT have an extensive understanding of current and future EESS receiver characteristics. *We would be interested in to know more about this area of work, how we could get involved and how it relates to the Spectrum Sandbox area.*

- **Using real-world data to improve the efficiency and effectiveness of our spectrum assurance work**

The Met Office currently have an MOU in place with Ofcom to tackle interference events in our radar network caused by non-compliant RLAN equipment. This MOU works well, but involves significant effort from both the Met Office and Ofcom to investigate and tackle interference. *We would be interested in hearing more from Ofcom about plans for this activity so we can understand how it could help improve our processes for tackling interference.*

Please complete this form in full and return to spectrum.roadmap@ofcom.org.uk.