

## Your response

Question	Your response
<p><b>Question 1: Do you have any comments on our assessment of the interference challenges raised by NGSO systems and their potential impact on a) service quality; and b) competition?</b></p>	<p>Confidential? – N</p> <p>Given the rapid development of satellite constellations, not only in the UK but worldwide, and growing awareness of their consequences for ground-based astronomy, we are of the opinion that OFCOM should consider the impact of satellite constellations on radio astronomy observatories.</p> <p>As a general point, we, along with others in the field of radio astronomy, are concerned at both the rapid expansion of capability, and the huge proliferation of systems being planned and in deployment. Competition, in this context, seems to potentially enhance the risk to astronomy research, unless it takes place in a controlled governance environment. As a major stakeholder in the constellation industry as well as in supporting major research infrastructures such as SKA, we urge Ofcom to ensure the benefits of scientific research are considered alongside economic drivers as the industry develops further.</p> <p>Work has been conducted in various CEPT groups to develop regulatory and technical documents to ensure the protection of the radio astronomy service (and other services as well) from satellite constellations (mainly based on Starlink and OneWeb in their first deployment phase).</p> <p>The following questions arise from the consultation:</p> <p>Would OFCOM include, as part of licensing agreements to these companies, the compliance to such documents? (e.g. ECC Report 271)</p> <p>Would OFCOM consider updating these regulatory/technical documents when new systems are proposed?</p> <p>What is the position of OFCOM on satellite monitoring to ensure continuous compliance?</p>

<b>Question 2: Do you have any comments on our approach to dealing with the interference challenges raised by NGSO systems?</b>	Confidential? – Y / N
<b>Question 3: Do you have any comments on the proposed updates to our process for NGSO gateway and network licences?</b>	Confidential? – N  As part of the licensing process, would OFCOM consider granting protections for radio astronomy stations from satellite constellations? As an example, protections established by BnetZA in Germany ( <a href="https://www.bnetza-amsblatt.de/download/49">https://www.bnetza-amsblatt.de/download/49</a> ) instruct satellite operators to avoid directing satellite beams within 12.5 km of a radio astronomy observatory.
<b>Question 4: Do you have any comments on the proposed updates to existing and new NGSO network licences?</b>	Confidential? – Y / N
<b>Question 5: Do you have any comments on the proposed updates to existing and new NGSO gateway licences?</b>	Confidential? – Y / N
<b>Question 6: Do you agree with our proposal regarding NGSO terminals operating in Ka band?</b>	Confidential? – Y / N