Consultation title	Fixed Wireless Spectrum Strategy Consultation on proposed next steps to enable future uses of fixed wireless links
Organisation name	***Optimity***

Response

Question 1: Do you agree that we have identified the key drivers likely to have a significant impact on the spectrum demand for fixed wireless links? If not, please provide further detail and evidence to support your answer. **Do you have other comments to make/points to raise with us on these issues?**	Confidential? – ¥/N Optimity believes Ofcom has identified the key drivers for the demand for fixed wireless links. However, something to consider is the increasing demand for councils to expand on their current fibre ownership. Wireless links are already helping with this demand but the need for public networks include but are not limited to; CCTV, public WiFi, digital messaging and supporting a growing number of devices and applications as communities become more technologically advanced. As communities develop and upgrade their systems the connectivity support they require is increasing, this is where wireless links can strengthen and expand council owned networks.
Question 2: Do you agree with our conclusions on spectrum implications and our proposed strategy/next steps for each band? **Are there any other considerations of significance that you feel we should have included or do you have other comments to make/points to raise with us on these issues?** **Please provide as much detail as possible to support your answer.**	Confidential? – ¥/N Yes, however Optimity would also like Ofcom to review the boundary between the self-coordinated block and fully-coordinated blocks in E-band.
Question 3: Do you agree with the items we have identified for further consideration? Are there any other significant areas that you believe should be included? If so, please include all necessary evidence to support your view.	Confidential? – Y/N No comment

Question 4: Do you agree with our proposal to change the authorisation regime in the 64 – 66 GHz band to licence exempt to create a common authorisation approach across the 57 – 66 GHz band for fixed outdoor installation use and that this would be a benefit to UK citizens and consumers?	Confidential? – ¥/N Optimity supports the proposed extension from 57-66Ghz. UK citizens and consumers are in critical need of fast networks; connectivity is being used more and more for everyday activities as well as for business. Fixed outdoor installation is key in not only benefiting UK citizens and consumers in their everyday life but also putting the UK in the forefront of the technology industry while offering consumers affordable connectivity.
Question 5: **a) Do you agree with the proposed new technical conditions in Table 6 to facilitate equipment intended for fixed outdoor installation in the 57 – 66 GHz band? Please provide evidenced views /alternatives if you disagree with our proposal. Do you consider any additional conditions should be mandated as part of a licence exemption to manage the interference environment?** **b) Do you agree with our assessment that the proposed changes in technical conditions will have minimal impact on existing use and are appropriate to manage the future outdoor interference environment?** **c) Are there likely to be any fixed outdoor installation use cases that will require operation at eirp levels above 55 dBm? If so, please provide evidence of how the coexistence with the different outdoor users could be ensured?**	Confidential? – ¥/N a. Optimity fully supports Ofcom's proposal as stated in Table 6 for the change in technical conditions to fixed outdoor installations which are for < 40dBm. b. Yes, Optimity agrees with this statement. c. Currently Optimity does not see a need to increase the maximum EIRP constraint over 55dBmi.
Question 6: **a) What are the use cases and technical parameters envisaged for the 66 - 71 GHz band? Are they likely to be similar to those in the 57 – 66 GHz band? If so, what are your views on extending the same or similar technical conditions as described above for the 57 - 66 GHz band (both existing wideband data transmission (SRD) and new fixed outdoor technical conditions) to the 66 – 71**	Confidential? – Y/N a. Yes, Optimity backs the regulation of 66-71Ghz band for indoor and fixed outdoor use while ensuring it meets the same technical requirements as the 57-66Ghz band. b. Regarding figure 4, Optimity feel the technical requirements for SRD are appropriate for both indoor and outdoor use.

GHz band to facilitate both fixed and mobile use cases. **b) Please provide your view on whether the technical parameters of wideband data transmission (SRD) as shown in Figure 4 are suitable to facilitate mobile/portable equipment including use outdoor? If you do not consider they are suitable, what alternative technical parameters do you think should be considered?** **Please provide as much detail to your answer as possible and your considerations on the co-existence aspects.**	
Question 7: Do you agree that there is a continued need for future low capacity fixed link applications? **If so, please provide information to support your view and what alternatives you would consider appropriate should the upper 1.4 GHz band no longer be available.** **Please provide clear evidence to support the reasons for your views.**	Confidential? – Y/N No comment
Question 8: **Do you consider there is merit in considering making the bands 52 GHz and 55 GHz available under alternative authorisation approach(es) such as block assignment? If so, what would you consider to be the best approach(es)? Please provide detailed views to support your response.**	Confidential? – Y/N No comment
Question 9: **Do you think we should review our authorisation approach to any other band used for fixed wireless links?**	Confidential? – ~~Y~~/N Optimity feel Ofcom should review the differentiation between the self-coordinated block and the fully-coordinated block in E-band.
Question 10:	Confidential? – Y/N

a) How do you envisage W band and D band will be used for mobile backhaul provision and the likely timescales? Please provide as much detail as possible on deployment scenarios and whether this would include indoor use. Are there any other types of applications (other than mobile backhaul) that could be suited for these bands? **b) What are your views on the most appropriate authorisation approach for the W and D bands? Please provide as much detail and technical evidence as possible in your answer.**	No comment
Question 11: Which capacity enhancing technique(s) are you using or planning to use? Please provide detail / evidence and clearly explain why and how each technique is planned to be used and if you consider there are any other aspects that should be considered.	Confidential? – ¥/N Working with our equipment vendors we believe that TDD is the most effective way to maximise the spectrum (although we recognise the re-use factor makes technology very efficient already).