



November 26, 2019

**To:** Radio Spectrum Policy Group

**Subject:** Public consultation on the Draft RSPG Work Programme for 2020 and beyond

Dear RSPG members,

For its programme on coexistence RSPG is requested to take notice of new low power unlicensed applications; specifically new Ultra Wide Band (UWB) applications. These applications neither cause interference with incumbent longer distance applications nor experience significant interference from incumbent long distance applications. Nevertheless these can suffer interference from new licensed or unlicensed applications that use close by transmitters with higher power levels in the same band.

UWB innovation is currently being driven several major European industry players and leading cellular phone manufacturers: see references below. This development has the potential to create substantial benefits to both society as well as EU industry.

It is suggested to include such new application in the RSPG work programme under Spectrum Sharing e.g. as per the included modifications indicated in the annex to this letter.

**Background UWB:**

NXP Press release: *NXP and VW share the wide possibilities of Ultra-Wideband's (UWB) fine ranging capabilities*, August 27, 2019

<https://media.nxp.com/news-releases/news-release-details/nxp-and-vw-share-wide-possibilities-ultra-widebands-uw-b-fine/>

Forbes, *Volkswagen To Debut NXP Ultrawideband Technology In 2019*, August 26, 2019,

<https://www.forbes.com/sites/samabuelsamid/2019/08/26/volkswagen-to-debut-nxp-uw-b-technology-in-2019/#66c73c0f26e8>

Engadget, *Sony and Samsung resurrect ultra-wideband to improve location tracking*, August 1, 2019,

<https://www.engadget.com/2019/08/01/sony-and-samsung-resurrect-ultra-wideband-to-improve-location-tr/>



## Annex: proposal modification Spectrum Sharing work item

Changes indicated in [purple](#).

### **Spectrum sharing - pioneer initiatives and bands**

#### Rationale

Today, spectrum sharing is rather static and, due to this static nature, in some cases overly conservative (putting limiting sharing conditions for new spectrum users or even preventing such new uses). One result of the working group on European Spectrum Strategy is that, in particular spectrum sharing needs further action, especially with regard to its potential to achieve more efficient use of radio spectrum, and to give incentives for innovation, including [where applicable, for UWB applications](#). Furthermore, the promotion of the shared use of radio spectrum is a key objective contained in the Directive 2018/1972 establishing the European Electronic Communications Code (hereafter referred to as “EECC”, see Articles 45 (2e) and 46 (1)). New technologies create new opportunities for more dynamic and efficient spectrum sharing. However, before such new technologies can be introduced on a wider scale, there is a need to build trust among users as well as Member States. Strategically, it is therefore important to facilitate trials, exchange of experiences and collaboration among the Member States. A proof of concept helps facilitate a change in the mind-set.

Therefore, the means to improve spectrum sharing and to implement innovative sharing solutions should be investigated, especially by promoting trials (sandboxes), pioneer scenarios/bands, new forms of licensing and a strategic focus on take-up of methods using databases and LSA. In addition, the development and market opportunities for methods, including Artificial Intelligence, should be studied with a view to making concrete proposals for coordinated actions at EU level that bring added value to the Member States.

#### Scope of RSPG activity

Building on previous relevant deliverables from RSPG and taking into account different spectrum sharing options, this activity will investigate more dynamic spectrum sharing options.

The RSPG will develop a roadmap for increased spectrum sharing and identify key pioneer initiatives and bands.

#### Planned type of deliverable

Strategy stakeholder

workshops RSPG Opinion

#### Time schedule

Draft Opinion: January 2021 Final

Opinion: June 2021