

## **Input to 3GPP RAN on Rel-19 content**

**RWS-230451          Continuation of sidelink evolution**

**Agenda item 5          Specific RAN1/2/3-led Rel-19 topics**

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# RWS-230451 Continuation of sidelink evolution

## AI 5 - Specific RAN1/2/3-led Rel-19 topics

- Enablement of co-channel coexistence for NR-V2X sidelink with non-3GPP technologies

### Background:

- The ITS band n47 is partly utilized by non-3GPP technologies. Without spectrum sharing capabilities, an NR-V2X deployment across the full band n47 is unlikely.
- The presence of non-3GPP technologies in band n47 had already been highlighted over the last release content discussion [e.g. Rel-18 RWS-210432].
- From an automotive perspective Mode 2 is considered as the only deployment option in band n47.

### Proposal:

- To enable in future (2030+) the expansion of NR-V2X sidelink across band n47, an additional sidelink feature is needed.
  - Study mechanisms to enable co-channel coexistence of NR-V2X sidelink with non-3GPP technologies in band n47
  - Identify potential updates of simulation assumptions (e.g. presence of 802.11p for basic safety applications)
  - Identify potential limitations on backward compatibility with previous 3GPP releases
  - Identify the associated performance impacts on both technologies
- Complete CA operation in Rel-19 as originally targeted for Rel-18 (RP-213678)
- Finalize potential leftovers from NR sidelink evolution work in Rel-18