

Review questions

Unveiling the Road Ahead: Assessing the Landscape of C-V2X Technology and Its Journey to 6G Networks

What are the main benefits of 5G New Radio (NR) for V2X communications?

Answer: 5G NR improves V2X communications by reducing latency and enhancing reliability, which is crucial for safety and autonomous driving applications.

What challenges are associated with 5G V2X communications?

Answer: Challenges include handover complexities, channel interference, and shadowing in millimeter wave communications.

How do UAVs and satellites contribute to V2X communication networks?

Answer: UAVs and satellites extend V2X coverage, especially in remote areas, by addressing communication blind spots and providing additional communication and computing capabilities.

What roles do edge and fog computing play in V2X networks?

Answer: Edge and fog computing reduce latency and enhance reliability by processing data closer to the source, thus improving real-time decision-making and resource optimization in V2X networks.