European Commission

2030- 2050

SMART & SUSTAINABLE
EU AVIATION

EU roadmap for safe co-existence between mobile networks (5G) and radio altimeters

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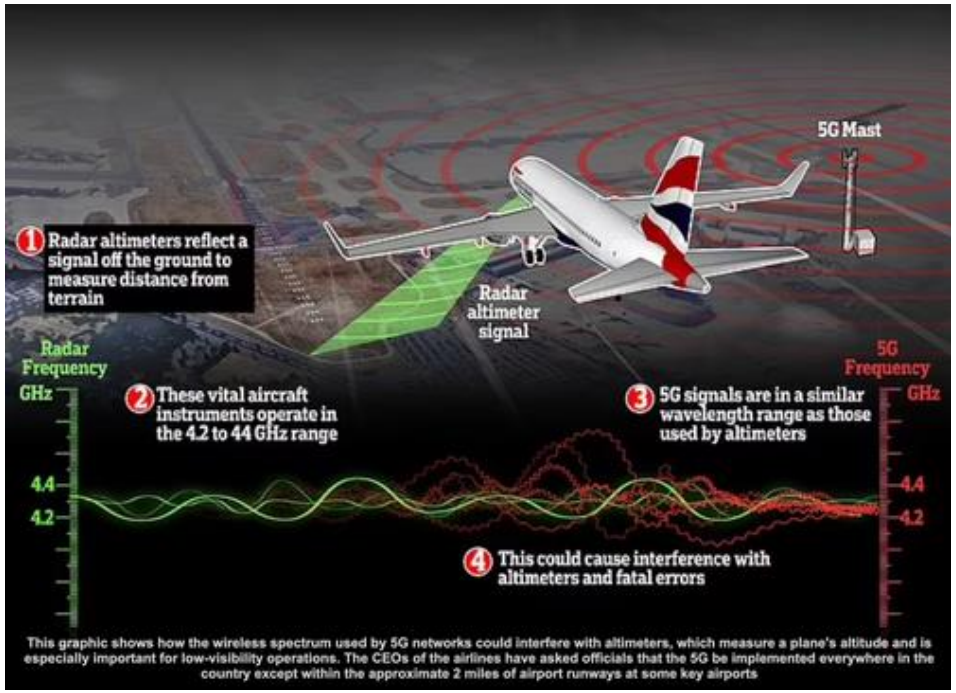
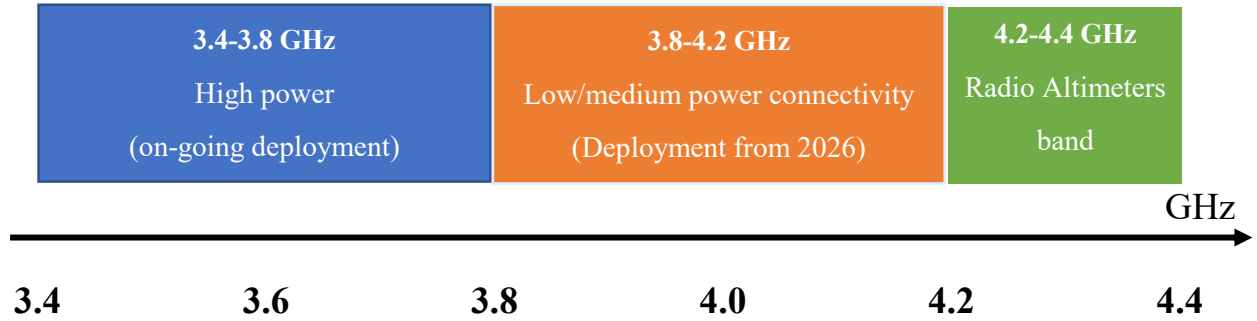
Mobility and Transport

What is the issue ?





Certified radio altimeters receivers have not been designed to support power levels emitted by terrestrial systems

Objectives and principles of cooperation

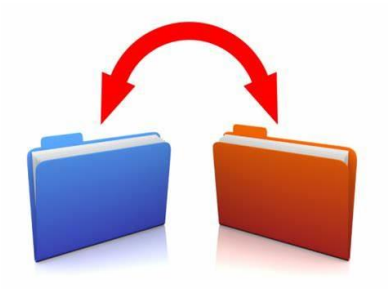
1. **The aim of the EU roadmap** is to coordinate technical, standardisation, regulatory, and deployment activities in the aviation and telecom/spectrum domains. The EU roadmap represents **a balanced solution** for the safe co-existence in the 3.4-4.4 GHz band between mobile networks (5G and future 6G) and aircraft radio altimeters considering **safety, technical, operational and economic criteria.**

2. The frequency range above 4.4 GHz is out of the scope of the EU roadmap. The Commission will prepare a proposal for a common EU position for WRC-27, including on AI 1.7, taking due account of the RSPG opinion and stakeholder positions.

3. A **European-wide** approach avoids different national/local schemes for airports, aircraft, and telecom operators, which would be the worst-case scenario in terms of internal market, operational impact, interoperability and costs. It considers the global perspective of both industries.

Objectives and principles of cooperation

4. The EU roadmap avoids temporary solutions and give certainty to both industries. An objective is to provide certainty to both the aviation and IMT industries, through close coordination and collaboration.



5. The aviation part of the EU roadmap and the telecom part of the EU roadmap are **synchronised and consistent.**

6. The EU roadmap was prepared by DG MOVE/EASA and DG CNECT in consultation with the Member States from the EASA and Radio Spectrum Committees (National regulatory authorities for Aviation and Spectrum)

Background

- **April 2024:** After consultation with EASA Committee and Radio Spectrum Committee (RSC), DG MOVE and DG CNECT agreed on **the EU roadmap version 1** for the safe coexistence between mobile networks (5G) and radio altimeters.

- **April 2025:** The **EU roadmap version 2** considers outcome of spectrum compatibility studies (**ECC Report 362**)

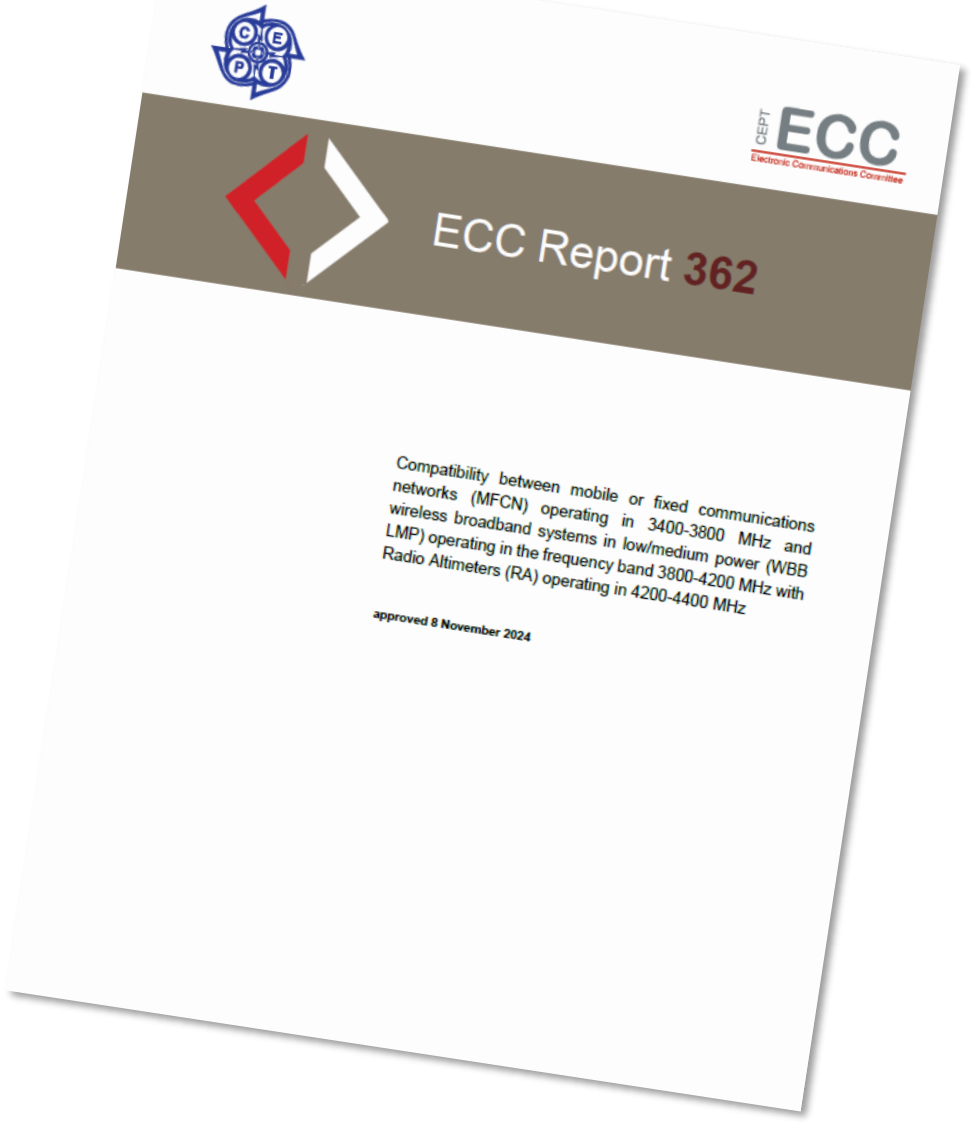
The EU roadmap and the ECC report 662 cannot be extrapolated to other regions with different operational scenarios (e.g. 5G using different power levels/frequency bands).

ECC Report 362

- ECC Report 362 contains the outcome of 12 studies performed by telecom and the aviation industries, governmental organisations and EUROCONTROL.

- The studies have been subject to extensive peer reviews by experts from national spectrum regulators and industry experts.

- Before publication, the ECC Report has been publicly consulted.



ECC Report 362: EASA assessment

- ECC Report 362 does not provide sufficient justification for an implementing regulation requiring a fleetwide retrofit of radio altimeters.
- EASA will continue to vigilantly monitor occurrence reports and will take preventive or corrective action on individual aircraft-radio altimeter combinations if required.
- EASA to work closely with ECC that is preparing recommendations to Member States on 5G deployment.

Indicative schedule