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Name & Organisation

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Presentation title

From Satellite Spectrum Monitoring to Trusted Electromagnetic Observability: A Mission-Led Concept for Romania

Abstract

Satellite monitoring is evolving from episodic observation of relatively stable GEO signals towards contextualised assessment of dynamic RF events across GEO/NGSO and interconnected terrestrial, maritime and airborne environments. This presentation outlines a mission-led concept for Romania that connects calibrated RF measurements with precise time, orbital geometry, geographic and regulatory context, historical baselines and uncertainty. It explores a phased, distributed capability combining a reference monitoring station, complementary sensors, data fusion, geolocation and AI-assisted analytics, while preserving metrology and expert validation. The objective is to produce traceable technical evidence for interference management, resilience and international cooperation—not to define a specific site, procurement or implementation plan.

Short bio

Cristian Ungureanu is a Satellite and Spectrum Management Expert at ANCOM, Romania's national communications regulator. He has more than 24 years of experience in spectrum management, satellite coordination, monitoring and interference resolution. He is Vice-Chair of CEPT/ECC Working Group Spectrum Engineering (WG SE) and Chair of SE7. He has represented Romania in CEPT and ITU activities, serving as Head of Delegation to ITU RA-23 and CPM27-1 and Deputy Head of Delegation to WRC-23. Since 2025, he has also contributed to Romania's national expert team supporting the country's Co-Chairmanship of UN COPUOS ATLAC.