

## ANSP Enhances CNS Measurement Capabilities with SkyRF® Drone

Bosnia and Herzegovina Air Navigation Services Agency (BHANSA) has taken a significant step toward modernizing its CNS (Communication, Navigation and Surveillance) infrastructure measurements by adopting the SkyRF® drone-based measurement system.

This innovative solution, developed by Intersoft Electronics and Skyguide, enables precise and efficient testing of navigation aids using drone technology.

### Background

As part of its ongoing commitment to airspace safety and modernization, BHANSA identified the need to upgrade its CNS measurement capabilities. Traditional flight inspection methods, while effective, are resource-intensive and limited in flexibility. BHANSA sought a solution that could offer:

- *Higher measurement accuracy*
- *Operational efficiency*
- *Reduced environmental impact*

### The SkyRF® solution

BHANSA partnered with Intersoft Electronics and Skyguide to implement the SkyRF® drone platform, a cutting-edge drone-based solution for CNS measurements. The system enables precise, repeatable and safe measuring of CNS performance in the field, using drone technology.

### Implementation & Training

Following the implementation, the specialized training combined theoretical lectures with practical exercises on real equipment, ensuring a deep understanding of both the system and its operational context.

During the practical sessions, BHANSA's technical team conducted measurements on VOR/DME, ILS and radar systems. The training also explored the potential to expand the application of advanced technologies to other systems, including advanced radar parameter measurements, verification of PAPI and ALS systems.

This training equipped BHANSA's technical team with the skills to operate the system independently.



### Results that set a new standard in CNS Measurement

BHANSA's adoption of SkyRF® has delivered transformative results across operational, technical and environmental dimensions:

- *Fast and precise measurements. CNS parameters captured in a single 10-minute flight.*
- *Exceptional repeatability. Automated drone paths outperform traditional flight checks.*
- *Reduced flight campaigns. Up to 50% fewer test flights, cutting CO<sub>2</sub> emissions and noise.*
- *Reliable data quality. Measurements at altitude reduce ground clutter and improve accuracy.*
- *Strengthened internal expertise via hands-on training.*



“ The SkyRF® system represents a significant step forward in our modernization efforts. The training and support provided by Intersoft Electronics and Skyguide were exceptional. ”

BHANSA Representative