

## GAMIC Weather Signal Processor

*Use your surveillance radar to see critical weather events*

### TECHNOLOGY

**GWSP** is GAMIC's Doppler weather extractor designed to enhance any ASR radar, ATC radar, air search defence radar on battlefields or ship-borne, with a comprehensive weather data output.

Available for radars using magnetron, klystron or solid-state transmitters.

Corrected and processed output data are displayed in real-time, color coded, rain reflectivity (Z), Doppler radial velocity (V), Turbulence (W) or in CAT-8 vectorized EUROCONTROL format.

### SAFETY

**GWSP** is designed to detect and report Hazardous Weather Phenomena (HWP) in airport approach areas or in tacticle environment around commercial or military ships.

Processing and identification of severe precipitation, wind shear and critical events like microbursts and gust fronts in order to protect human lives and equipment.

### FULL MODE

**WDP**, Weather Data Processor, and **FROG-MURAN**, GAMIC's software suite, can be used optionally to generate derived products to predict the arrival and to track weather events for a complete picture of hazardous weather in the critical areas.

### RELIABILITY

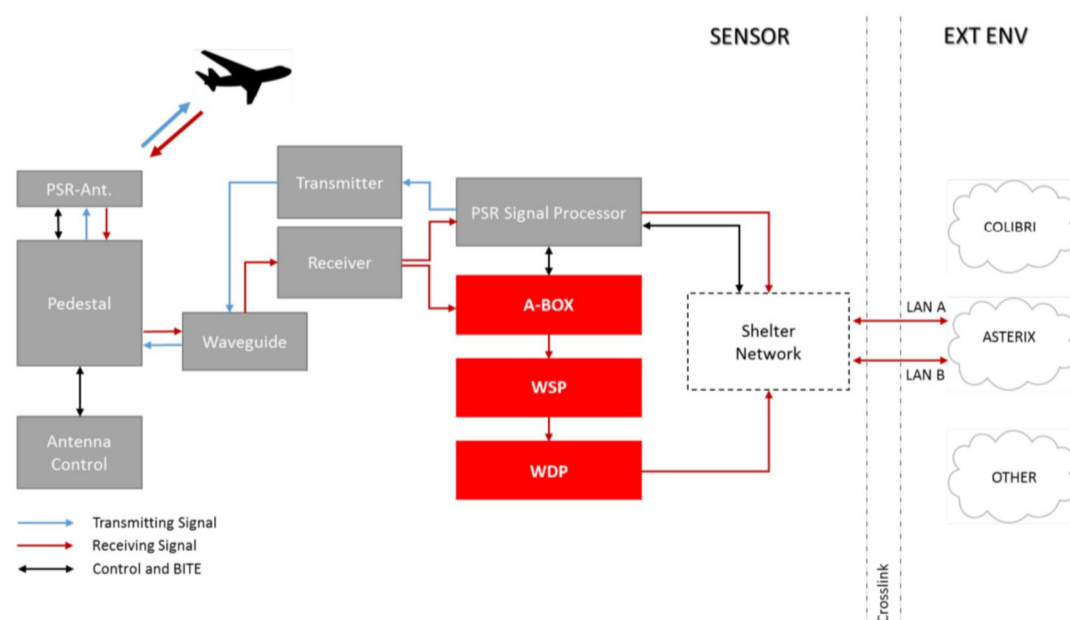
**GWSP** have been installed over 50 times and operating successfully for more than 10 years at German, Swiss and Canadian Air Forces, as well as at Schiphol Airport (Netherlands).

### SYSTEM PARTS

**ABOX Adaptation Box** captures the IF or I/Q data from any type of primary radar and transforms it into WSP data format.

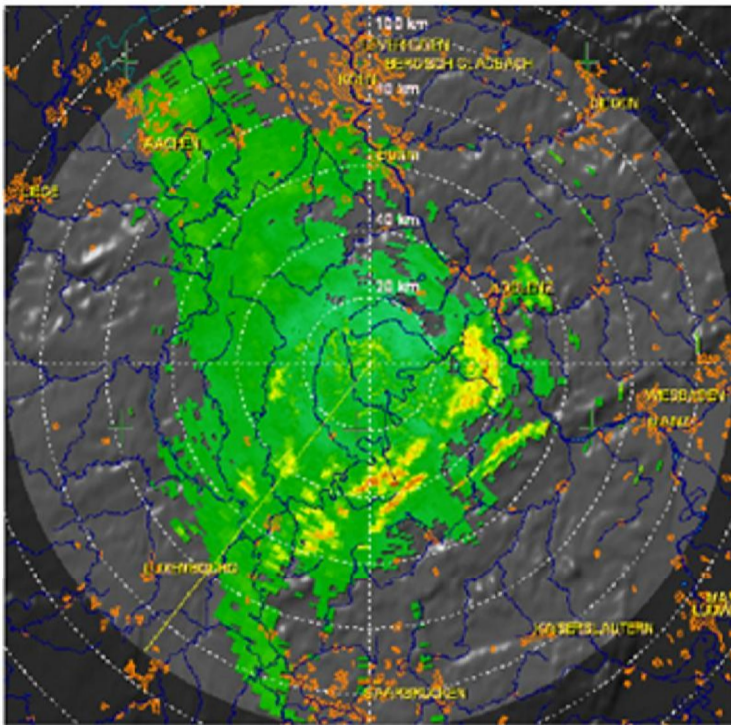
**WSP Weather Signal Processor** corrects and processes the signal to generate meteorological moments (Z, V, W).

**WDP Weather Data Processor** generates weather products for prediction and tracking of weather events, as well as critical wind profiles.

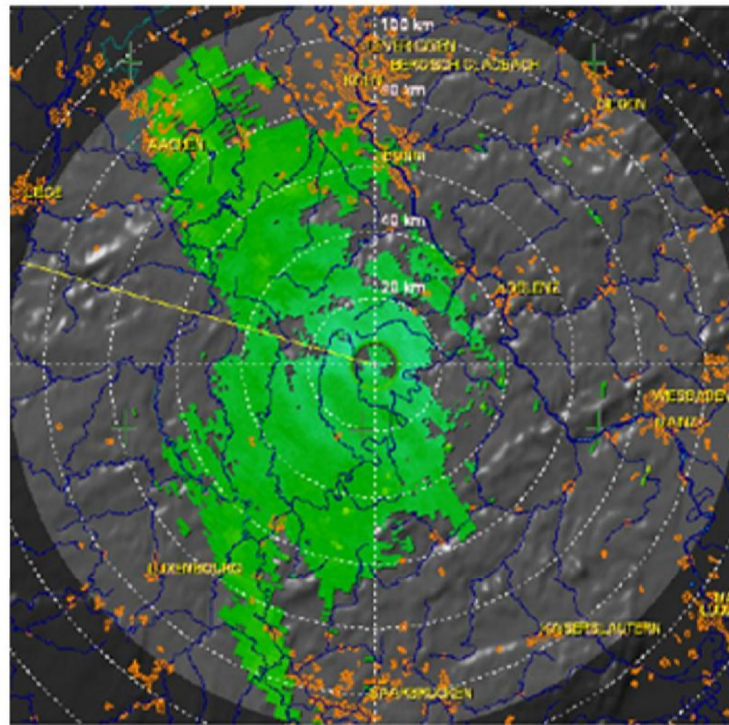


Typical GWSP & Radar Block Diagram

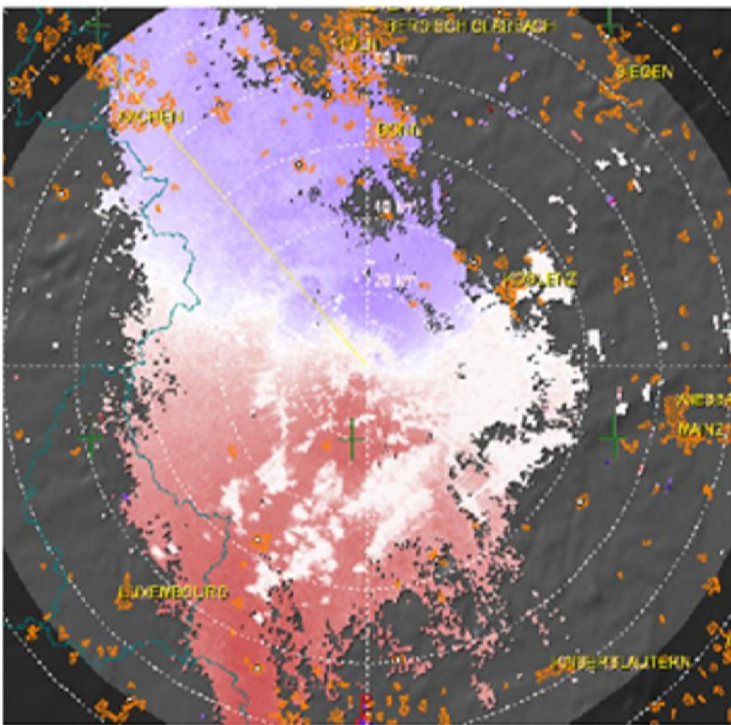
## DATA EXAMPLES CLUTTER CORRECTION



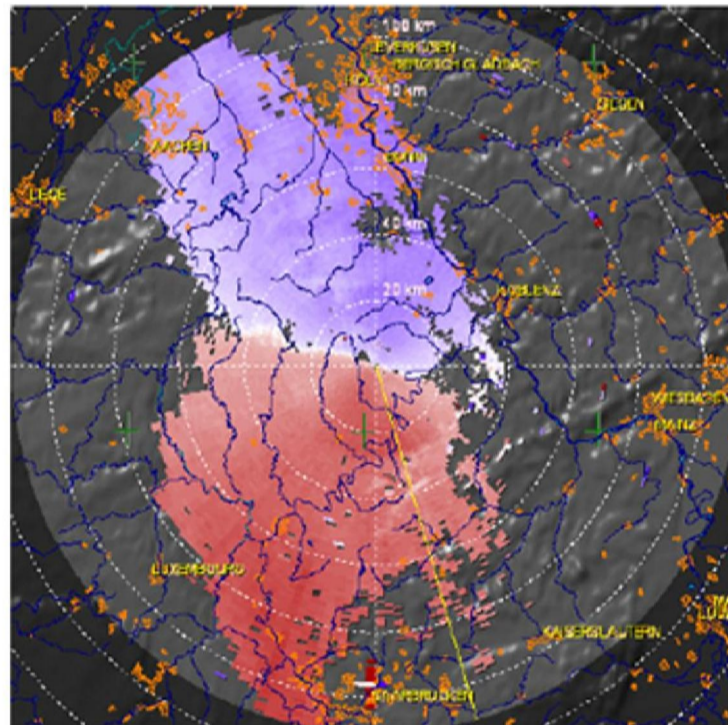
Reflectivity Z without clutter correction



Reflectivity Z with clutter correction

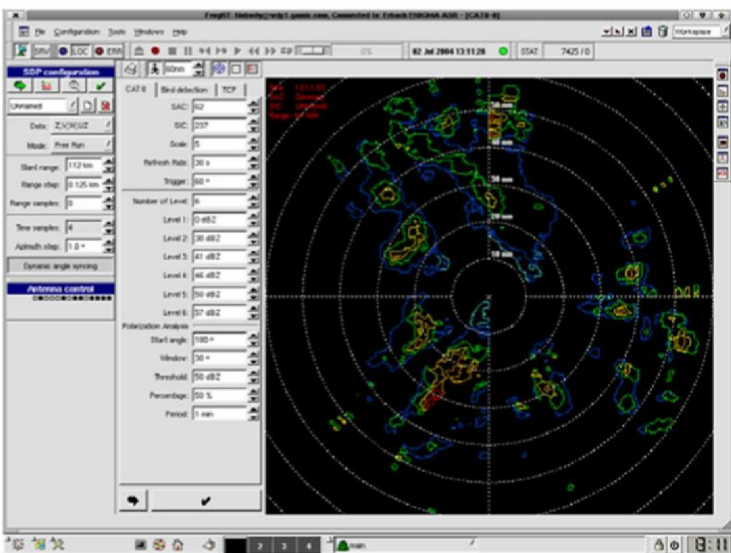


Radial Velocity V without clutter correction

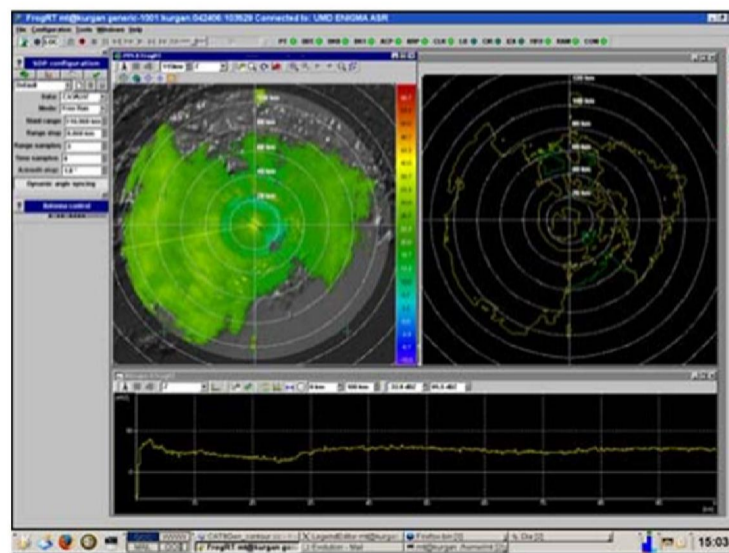


Radial Velocity V with clutter correction

## DISPLAY EXAMPLES



CAT-8 Control GUI



Color coded dBZ and ASTERIX Control Display



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