



# MIND

Meteorological  
Integrated & Nowcasting  
for Decision-making

## Situational awareness scenario for prevention and strategic actions

Specialized in the production of mission-critical meteorology software and systems, IACIT developed **MIND - Meteorological Integrated & Nowcasting for Decision-making**.

The system is capable of performing analysis based on artificial intelligence and pre-defined parameters to generate short-term alerts and assertive forecasts for operations of natural disaster prevention, air traffic control, military operations planning, intelligence for agribusiness, support to oil and gas operations and management of water and energy resources.

With a user-friendly and multi-language interface, MIND is a complete integrated situational awareness system for meteorological centers.

MIND offers several features aimed at data analysis and exploration, which help to respond quickly in an operational environment. All system functionality and its users are easily managed by intuitive administrative tools, which also assist in issuing reports and visual alerts.

Robust and versatile, MIND allows interoperability with other systems through micro-services architecture and SWIM bus.

Equipped with a powerful GIS platform, the generated products can be viewed in customizable layers and in Mosaic format, including record & playback features and video wall compatibility.

In the ATC version, MIND acts as a Command and Intelligence platform for Air Traffic Control Centers, with the generation of warnings and alerts of conditions that may impact aircraft en route and take-off and landing operations.

Among the automatic alerts generated are Preventive Route Deviation, Severe Convective Weather Alerts, Turbulence, Aeronautical Messages, in addition to various information resulting from the fusion of data from the available sensors.

In addition to alerts, the system has tools that streamline and automate forecasting activities for Aeronautical Meteorologists, such as METAR, TAF, SIGMET and VOLMET.





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## Main Characteristics

- The platform's architecture allows the integration of radars from any manufacturer;
- Modular platform allowing customization for different types of application;
- Display of generated products in customizable layers;
- Possibility of viewing products in Mosaic format;
- Generation of products from volumetric data of weather radar;
- Allows interoperability with other systems via SWIM bus;
- Support in decision making;
- Creating user profiles;
- Log operations for reporting.

