

by Atech

Makron
AIR TRAFFIC MANAGEMENT

ATC
SIMULATION
PLATAO

FROM TRAINING AND SIMULATION TO THE REAL ENVIRONMENT

All Air Navigation Service Providers (ANSP) are concerned about safety, reducing costs and providing a high quality standard service. Human factors are at the top of these concerns and a continuous training program is the best way to reduce human risks and achieve the goals. To support training programs, it is necessary a tool that allows the instructor to explore as many different operational scenarios as possible, making the trainees more experienced in real situations.

PLATAO was developed by Atech, an Embraer Group Company, in a partnership with DECEA and the participation of traffic controllers. The solution is part of Makron, a complete set of ATM solutions that brings together decades of expertise developing high technology solutions supporting decision-making processes.



GRUPO EMBRAER

EVERYTHING YOU NEED TO CREATE THE MOST COMPLEX TRAINING SCENARIOS

PLATAO creates fully simulated air scenarios based on the same data provided by the operational environment. It can store and execute multiple simulation exercises for training air traffic controllers in different situations, with the possibility to change the simulated scenario on demand.

PLATAO also incorporates all the operational aspects for training and/or evaluating students, such as silent coordination, vectorization, standards separation, approaching and departures operations, among others.

To make the air situation flow, PLATAO offers also pseudo-pilot positions based on an intuitive, friendly and agile HMI. It supports the operators to execute the air traffic controllers' orders in a calculated way, as well as to manage many aircrafts at the same time.

PLATAO allows you to get the emulation of all radar and sensors adapted to the operation environment (radars, ADS-B, WAM, ADS-C), including the generation of errors and/or disturbance from those sensors. In addition, it provides stimulation of AFTN data (ATS messages, meteorological data, etc.) and simulation of the aircraft cockpit for training CPDLC and DLC procedures.

PLATAO can record all the students' actions and reactions (audio and video) and playback the recorded scenario for instructors and student debriefing, statistics and performance evaluation.

Based on a sophisticated solution through VoIP and data communication, students can be put in a remote site different from the pilots, giving the highest flexibility to training programs.

TECHNICAL DESCRIPTION

Scenario Management; Multi-sensor stimulation; Synchronization of Adaptation data with operational environment; Data/video recording; Debriefing capability; Distributed training;