

# ATNS Case Study



## Background

Air Traffic and Navigation Services (ATNS) is the South African equivalent of Airways New Zealand, in that it is responsible for approximately 10% of the world's airspace. ATNS provides training for ATCs and technical staff through their Aviation Training Academy. The Airways 3D simulator developed for ATNS was the first to be installed and commissioned outside of New Zealand, and was a significant milestone for Airways after years of research, development and investment into the solution.

## Airways solution

Trainees at the ATNS Aviation Training Academy were no exception to the pressures of training enough ATCs to meet increasing demand and were being trained at a rate that could not keep up with demand. The TotalControl simulator, which gives a full 360° view of the airfield, is one of the only ATC simulators in the world that imitates a full flight information region, complete with real-world traffic scenarios — and it can simulate all weather conditions.

The TotalControl simulator for ATNS was developed to allow training instructors to add further simulated airport environments to the system on their own and quickly and easily create their own scenarios. Initially users trained on the 'Republic Airport', which is modelled on Tambo Airport in Johannesburg, but in future, users will be able to train on any airport in South Africa. The system allows simultaneous use of parallel and cross-runway, with near field military operations, and includes both tower and radar simulation.

## Key facts

- ▶ **Location** | Johannesburg, South Africa
- ▶ **Type** | Projector 360°
- ▶ **Positions** | 5 controllers, 4 pilots

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“ATNS is using TotalControl to enhance the quality and speed of ATC training, at a time when the industry is under increased pressure to train enough ATCs to meet demand. ATNS trainees can be trained to an advanced level in a real world environment, and significantly reduce their on-the-job training time.”

Greg Tyrrell, Simulation Director

Airways has been providing aviation products and services for organisations throughout the world for more than 30 years.

With customers in Asia, the Middle East, Africa, the Pacific and North America, Airways is constantly improving training tools.