



SUPPORTING
EUROPEAN
AVIATION

VR Applicability to Training

Create a 24/7 Training facility for ATCO and ATSEP

Benjamin Cramet
11th March 2025





What if ?



Create an Aviation training facility

Training



Success Rate

Only **5-10% of applicants** pass the initial selection process, which includes cognitive, psychological, and aptitude tests (e.g., FEAST in Europe).

Only **30-40% of those who start training** become fully qualified ATCOs.

Why

Cognitive and Psychological Pressure: The job requires fast decision-making, multitasking, and stress management.

On-the-Job Training Challenges: Even after passing the theoretical and simulator phases, some trainees struggle with real-world traffic control.

High Standards & Safety Requirements: There is little tolerance for errors in air traffic management.



Develop through Training

Initial Training (Basic + Rating)

a minimum of 15 hours of simulator-based training during Basic Training and an additional 25 hours during Rating Training.

ATC-Network

On-the-Job Training

Practical training under supervision, ranging from 100 to 420 hours.

Crocontrol.hr

Overall Time

Combining initial and unit training phases, the entire process to become a fully qualified ATCO typically spans approximately 3 years.

NATS

How VR can help ?



More Frequent,
Personalized
Training

Lower Training
Costs & More
Practice Time

Digital OJT
Instructor



+ 1248 hours training



8 hours per week
immersive training for 3 years
1248 hours training (+ 1/3)

And ATSEP



Hands-On
Training in a
Risk-Free
Environment

Practice Without Physical Equipment

Reduces dependency on expensive and limited-access training facilities.

Emergency Response Training –

Simulates **failures, cyberattacks, power outages, or system malfunctions** to prepare ATSEPs for real incidents and uncommon failures

Faster and
More Cost-
Effective
Training

On-Demand Access

More Repetitions – Initial Training, new training and refreshers

Personalized
Learning & Skill
Assessmen

AI-Powered Adaptive Training – The system **tracks individual progress** and adjusts scenarios based on skill level.

And ATSEP



Provides
realistic,
hands-on
experience

Increases
training
efficiency

Prepares
ATSEPs for
real-world
challenges

VR Applicability to Training

Create a 24/7 Training facility for ATCO and ATSEP

Benjamin Cramet
11th March 2025

