Virtual Reality Training for NATO Operational Equipment

Paul Thurkettle
NATO Allied Command Transformation

Sebastian Tampinongkol
NCIA Academy

i³FEST
#ADLiFEST

Virtual Reality Training for NATO Operational Equipment

Paul Thurkettle

Allied Command Transformation

# NATO SATCOM Deployable Equipment

TSGT T2 Configuration

TSGT T1 Configuration

JFD/MSTT

Why NATO SATCOM

- Key maintenance activities in the field are not performed well
- Maintenance activities have high error rates
- Even if operators have been trained on specific activities, they often are not able to perform them in a real operational environments

- SATCOM training doesn't reach in a timely manner the audiences who require it (obviously aggravated by the recent COVID19 crisis)
- Continuous improvement on the training content and methodology is difficult, because there is no data available about student performance after training completion
- Remote delivery of SATCOM training is difficult
- Limited availability of live equipment and classroom space
- Good topic for experimentation ..

1. Digitise real equipment (JFC Brunssum – Netherlands)

2. Build Training packages 3D Environments

3. Build LMS to handle 3d Assets, Delivery and Tracking

4. Training Integration (build into planned course)
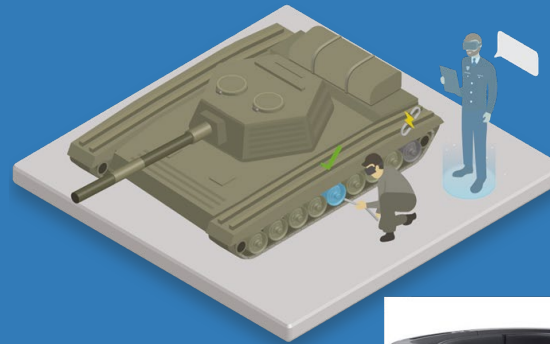
5. Evaluation

6. Report

7. Next steps …..

JFD/MSTT
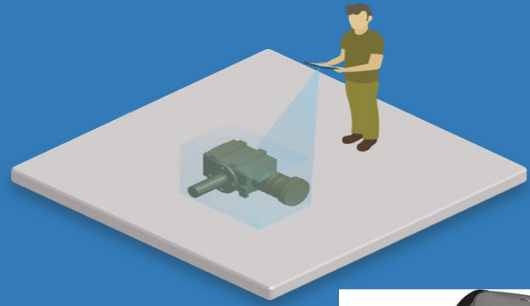
**Learn -
Self-Paced familiarisation
with VR**
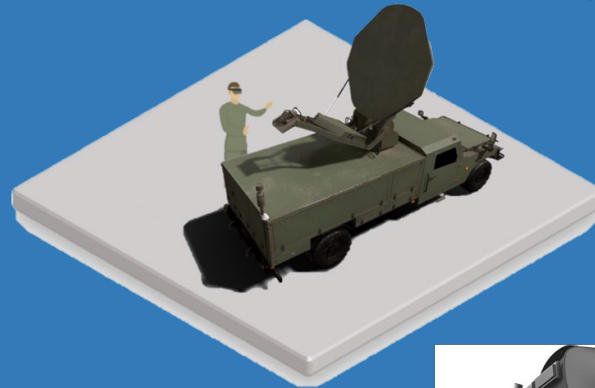
**Practice -
Instructor Led at
training location on VR**

**Train -
Instructor led on live equipment
with AR Support**

**Perform -
Maintenance/Operation/Trouble
shooting on live equipment
with AR Support including
remote SME's**

JFD/MSTT

Live Demo

More Information

Contact

Paul.Thurkettle@act.nato.int
Jadladmin@act.nato.int

Websites

https://www.act.nato.int/activities/education-and-training
https://jadl.act.nato.int/