Join our booth and discover our demos

PRESS RELEASE
EUROSATORY 2018

Booth Hall 5 #B367

SUMMARY

- **Who we are**

- **Our solutions:**

  - Generic Virtual Trainer

  - Embedded training system

  - Evolved Instructor Operating Station

  - Virtual Reality goggles

  - Virtual Maintenance Training

- Cutting-edge Technologies:

  - Mixed Reality **Rockwell Collins** Building trust every day

  - Brainwaves Monitoring

- News:

  - Partnerships Renault Trucks Defense & Agueris

WHO WE ARE

Who we are:

Agueris (Paris, France) is a reference player in training, simulation and disruptive innovation.

The company designs, develops, integrates, deploys and supports simulation-based training solutions for defense and industry in the following fields :

- Gunnery technical and tactical training simulators (e.g. turret systems)
- Driving simulators
- Digital mockups
- Virtual Maintenance Training
- Associated services for simulation-based training
- Simulation-enabled innovation lab - We experiment, prototype solutions and solve problems through innovative simulation-based platforms.

The company is one of the first in the world to have deployed operational embedded training solutions.

Beyond simulators, **Agueris** helps end-users leverage the power of simulation using teams dedicated to support, maintenance, and assistance, including in-house military experts.

Agueris is also a simulation-based innovation idea factory, a virtual laboratory allowing to use simulation in order to integrate and experiment how a new concept or innovation can be used in real life.

Agueris is driven by innovation, with a team with 25+ years expertise in the field, fully-owned subsidiary of CMI DEFENCE, world leader in weapon systems for armored vehicles, marketed under the Cockerill® brand, which relies on 200 years of defense and industrial engineering history.

OUR SOLUTIONS

Enables training on multiple weapon systems using a single, cost-effective, simulator

➢ **Train as you fight:**

• The trainees interact with high-fidelity virtual commands and controls, within an immersive photorealistic rendering environment.

➢ **One simulator for all:**

• Thanks to the virtual cockpit concept, a single simulator can be used to train on various weapon systems, through dynamic software reconfiguration. This capability makes Agueris Generic Virtual Trainer a cost-effective and reusable solution compared with legacy dedicated simulators.
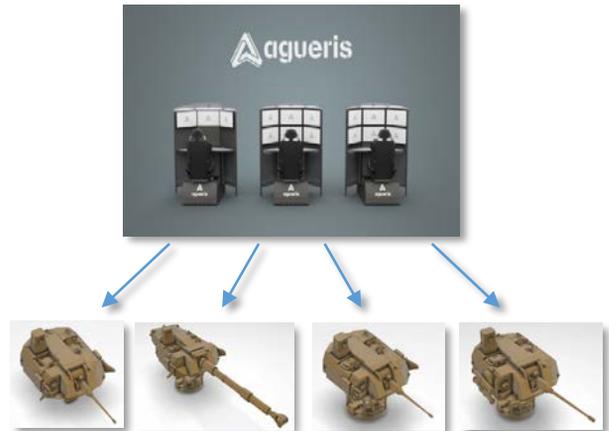
➢ **Train at all levels:**

• From the individual up to platoon level using distributed simulation.

Embedded simulation is a revolutionary concept in which the operational system becomes the trainer.

Agueris is a pioneer in embedded simulation.

The system enables weapon system operators to train at both technical and tactical levels using the real environment commands and controls.

On-board sensors and displays are stimulated through simulation.

Using a mobile exercise control unit, the instructor can control the whole exercise while remaining close to the trainees.

A solution of the future, embedded simulation allows training as you fight, anywhere, anytime, and maintaining skills on the real equipment.

Agueris is one of the first in the world to have operational and deployed embedded simulators.

Come to our booth H5-B367 and discover a turret embedded simulator!

**Enables training at technical and tactical levels,
using the real equipment**

➢ **Train as you fight:**
• The weapon system becomes the simulator

➢ **Train everywhere:**
• Any operational base, unit motor park, training area or range, becomes a training facility

➢ **Train at all levels:**
• From the crew up to platoon level using distributed simulation

Multi-role high-end instructor station

➢ **Comprehensive:**

• After action review, briefing-debriefing, exercise control and exercise creation functions are all included.
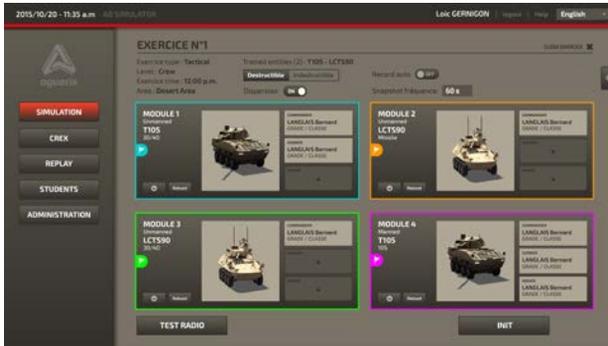
➢ **Scalable:**

• Several IOS can supervise or monitor multiple exercises running simultaneously.
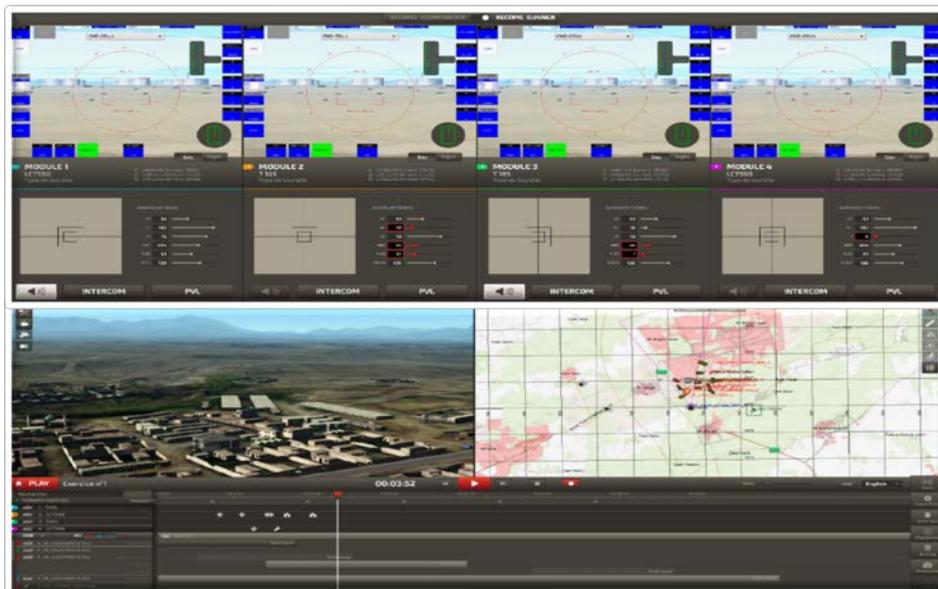
➢ Design:

• The instructor station has been designed by operational experts to ensure its quick adoption by end-users.

Turret Immersive environment

➢ **Technical Information:**
- Full HD definition
- Stereoscopic vision
- User's movement monitoring

➢ **Features:**
- The user can freely evolve within the simulated turret and can experience various environments through dynamic reconfiguration.
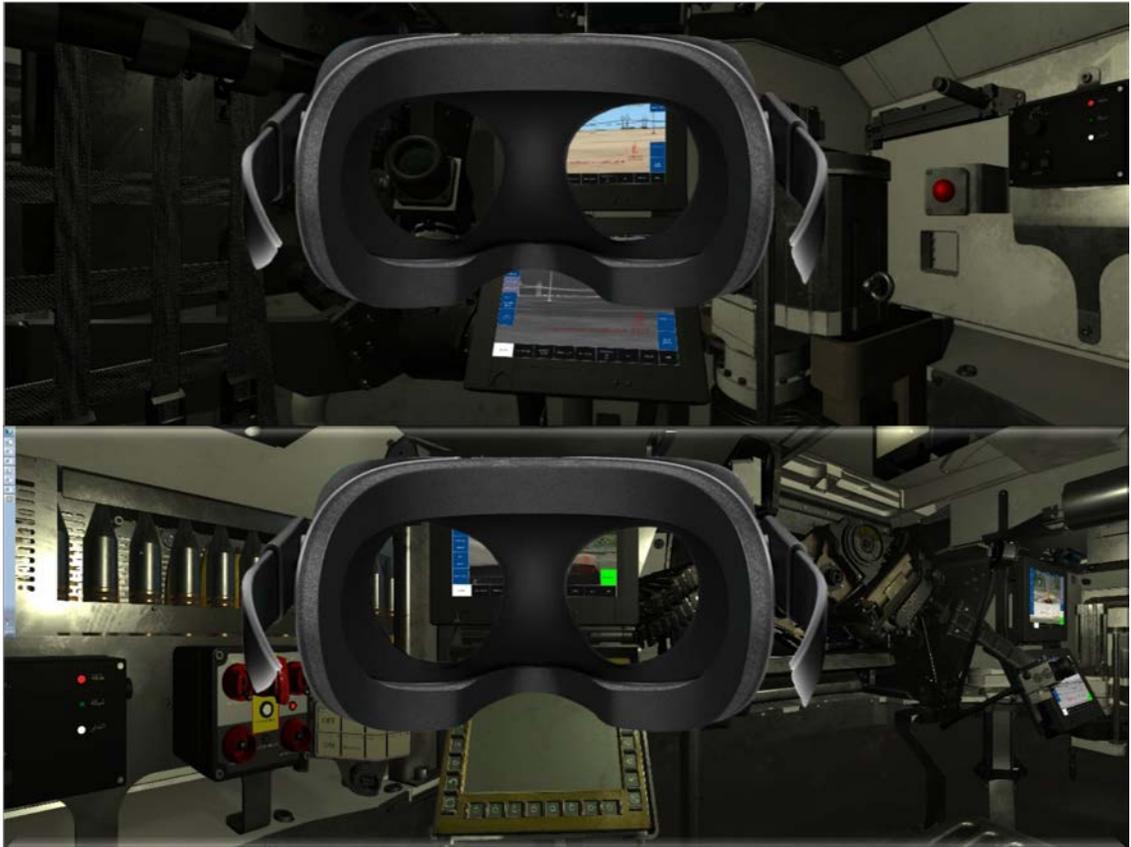
Computer-based training solution to train on processes and procedures

Agueris VMT (Virtual Maintenance Trainer) is a computer-based 3D training solution for maintenance personnel.

Through a strategic partnership with DISTI, the world's leading provider of 3D virtual training solutions, **Agueris** has developed an interactive virtual training system which has the capability to deliver training content to different devices such as desktops, tablets and virtual or augmented reality devices.

Virtual Maintenance Training compliments and enhances existing training. **Agueris** VMT enables the maintenance personnel to train on processes and procedures either under instructor supervision or in self-training mode, without having to worry about equipment availability. The solution avoids degradation risk on real equipment and facilitates training on rare and/or complex procedures.

➢ **Intuitive Graphical User Interface:**
- Through an intuitive GUI, the system offers a training course for each procedure, and specific monitoring and assessment tools allowing to optimize training efficiency.
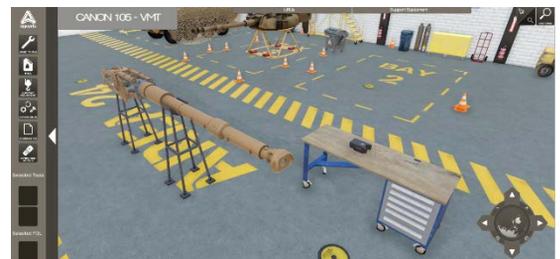
CUTTING-EDGE TECHNOLOGIES

COGNISIM

➢ How to evaluate the mental state, the stress and the cognitive load of a soldier who is learning how to deal with a tank turret on a simulator, or that of a pilot during an air combat training?

➢ What if we could capture, and interpret, his brainwaves, in order to provide the instructor an indication allowing him to adapt and personalize the training?
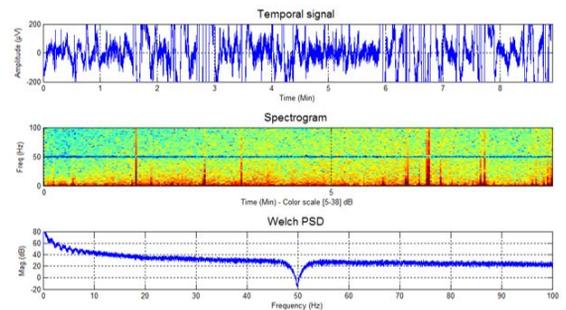
➢ **Agueris** research is focused on developing such a technology. On our booth H5-B367, you can discover **COGNISIM**. This ambitious project is supported by the French **Direction Générale de l'Armement** (DGA) through the **RAPID** (Régime d'APpui à l'Innovation Duale* - dual innovation support scheme) program.

➢ **COGNISIM** aims at developing an evaluation of the cognitive load and of the stress, starting from the brain activity real time analysis, which should be implemented in training simulators in order to adjust the simulation level to the status of the trainee. Training becomes then personalized, adapted to strong and weak points of each trainee, as the instructor is equipped with an objective tool form optimizing the training.

➢ Besides **Agueris**, the **COGNISIM** project puts together:
  • **Physip**, a SME responsible for the real time automatic identification of mental load and stress marker based upon the brain activity by electroencephalogram (EEG), using a reduced number of sensors,
  • **INSERM,** an academic partner,
  • and **Faurecia,** a large industrial group.