



Emerging and Disruptive Modelling and Simulation Technologies to Transform Future Defence Capabilities

How the Spanish military health school is revolutionizing workforce training with VR Immersive Rooms

Presented Maria Madarieta



COMPANY PROFILE

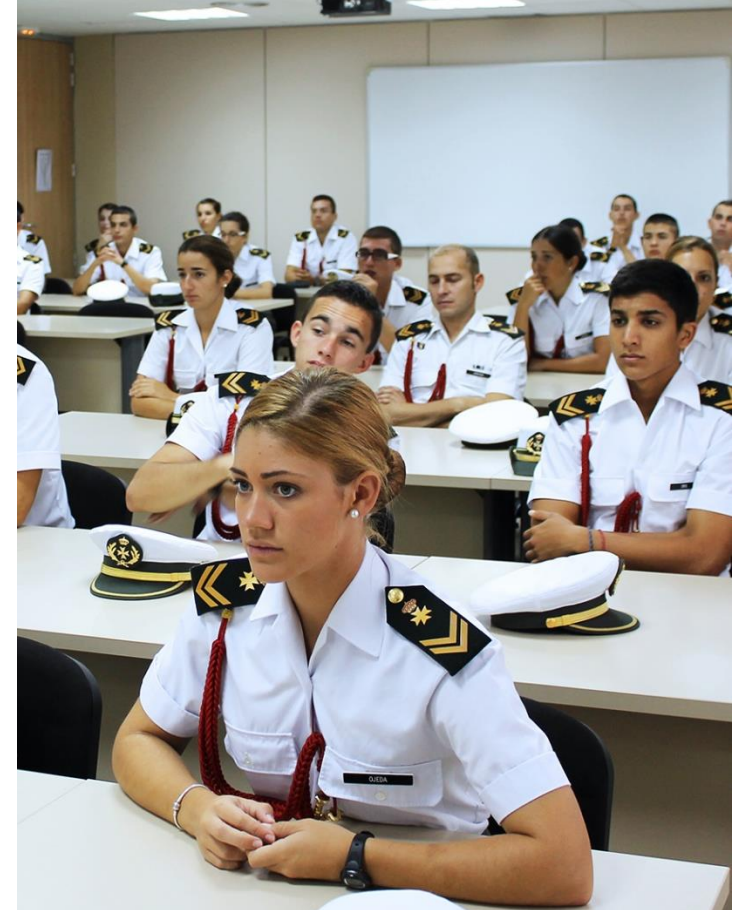
EMISAN, the Spanish Military Health School.

Oversees education and advanced training for teams of physicians, nurses, psychologists, and dentists that are part of the Military Health Corps of the Spanish Armed Forces.

EMISAN also trains vets that look after K9 units and horses.

Provide care and wellness to more than 121,000 members of the Spanish Armed Forces.

In 2015, EMISAN founded its Military Health Simulation Center to facilitate training in challenging environments and conditions.



THE CHALLENGE

Strengthen and speed up training while lowering costs and risks.

Set out to address the challenges of training army units in medical protocols CBRN scenarios.

Discovered that virtual reality (VR) would help strengthen and speed up training while lowering costs and risks.

Main goal in using VR is to train its Military Health Corps in tactical combat casualty care, tactical emergency casualty care and medical assistance in chemical, biological, radiological, and nuclear environments.



THE SOLUTION

Leverage simulation-based manikin training in complex scenarios and extreme stress situations with VR Immersive Rooms.

A contract worth more than \$ 350,000 to develop virtual training environments for CBRN scenarios: "SIMUR".

Multi-user VR simulator powered by VIROO®, has been deployed in a 160-square-meters VIROO® Room at a tailor-designed warehouse of the Central Defense Academy, in Madrid, Spain.

The solution allows the Spanish Armed Forces to meet NATO standardization agreements, also known as STANAG.



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“Training specific learning objectives, empowering students in training sessions, having time for reflection and analysis, are some of the advantages offered by VR and VIROO®.

It is a great opportunity for the practice and acquisition of skills whether they are technical or not, in health sciences and military health.”

Capt. Nurse González Alonso
Spanish Military Health School



BENEFITS AND EXPANDING CAPABILITIES

VR immersive rooms for medical training of armed forces enable teams to assess and improve performance.

Improve safety, efficiency, and training speed for chemical, biological, radiological, and nuclear (CBRN) scenarios while lowering costs.

Evaluate trainees on metrics such as leadership, teamwork, and communication skills in extreme stress situations.

Maintain the highest level of training for medical personnel of the Spanish armed forces.





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Thank you!

Q&A Time

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