



TRAINING & SIMULATION

Training Interoperability

Joint training between allied nations is a key topic among all NATO members. Interoperability training at brigade level and beyond is being given greater focus in order to ensure effective training – often together with international allies – and to be prepared for current and future threats. It also enables roles to be changed quickly and flexibly.

For modern armed forces that contribute to international stabilization operations, interoperability and cooperation with other nations has become a key factor. The impact of interoperability is significant and has in the latest years become more important for armies as they develop their training doctrine, and Training, Techniques, and Procedures (TTPs).

Realism – key to operational success

Whilst there is no substitute for actual combat experience, realism is key to optimize the training experience. Saab's live training solutions delivers that realism and the high fidelity data to learn the key lesson to maximize combat effectiveness. Virtual simulation training allows the user to practice procedures and equipment handling, and together with live simulation training crucial external influencing factors are added. Combat forces operate in an increasingly complex battlefield, under accurate hostile fire, inflicting and taking casualties, in extreme environmental conditions, and equipped with new and emerging technologies.

Training systems must accurately replicate all the features of respective weapon systems and equipment must replicate the exact characteristics, form and function of live weapon system. Equally, the weapon system's characteristics such as range, ballistics and time-of-flight are enormously important to replicate in their training versions. Other than possibly audible feedback, there should be no difference in firing a simulation weapon versus a live one that delivers lethal ammunition. Blurring the difference between training weapons and real weapons allows the user to develop their skills, and optimize their performance in conjunction with respective armies' TTPs.

Modularity and scalability

In addition to the interoperability and fidelity, modularity and scalability are also key components of excellent simulation training. Saab supports the progression from individual to collective training, up to and beyond brigade level. Support is facilitated at scale, optimizing the blend and interaction of hardware, software and multiple communication options, providing a hyper realistic simulated combat environment for

exercising troops. Individual soldiers are equipped with radio and sensor systems that record their position, fire and hit effects, and medical status. The system is capable of the instrumentation of ground combat vehicles helicopters and maritime vessels. The ability to simulate threats on the battlefield is also possible, while pyrotechnics, and high pressure air based equipment are used to simulate explosions.

Multiple battlefields can be linked via satellites and integrated in a combined exercise scenario. An intelligent communication network and Saab WinExcon software collect the high fidelity data in real time from up to 2500 players, allowing playback, and the analysis of effects and outcomes to provide objective, focused feedback. Anti-terrorist operations, Chemical, Biological, Radiological and Nuclear (CBRN), and Counter Improvised Explosive Device (C-IED) training capabilities are also possible using the live simulation system.

Maximize the training value

With extensive expertise and leading products in the field of live training and simulation, including in the virtual domain, Saab offers the most reliable and realistic training and simulation systems worldwide. Saab has developed and maintained enduring close relationships with many NATO countries and operates in accordance with prescribed NATO recommendations. Saab's training ethos is based on providing training flexibility and fidelity delivered by a forward leaning team of experts.

