TRAINING AND SIMULATION

LAND FORCES TRAINING AND SIMULATION SOLUTIONS

Professional training from individual skills to battalion level
We deliver mission readiness

Land forces are under pressure. Turnarounds between missions are increasingly tight, so it’s vital that training time is used as efficiently as possible. Threats, both overseas and at home, are increasingly diverse and unpredictable. Adding to the complexity, there’s a need to work in combined and joint operations that span multiple theatres on the ground and in the air.

Specialised training powered by simulation holds the key to mission success in today’s demanding environment.

At Thales, we’re dedicated to meeting your operational training needs with:

- Simulation capabilities that support individual to collective and collaborative training
- Scalable skills training from a single soldier to platoon, brigade or division level
- Fully-customised devices from desktop training stations to medium and high-fidelity simulators
- Highly immersive environments tailored to your training needs
- Live virtual constructive training environments

Thales is a worldwide leader in mission training. We work alongside the armed forces as a trusted, global partner. Our job is to help you master complexity. And our ambition is to provide you with the solutions and intelligence you need to take the best decisions at every decisive moment throughout your mission.
Training solutions that meet your needs
From basic training up to preparation for operational missions, our connected and digitalised combat training solutions support you at every stage of the force readiness cycle.

LIVE COMBAT TRAINING
Expand the scope, realism and value of live battlefield exercises with our realistic Live Combat Training solutions. Our light mobile and fixed systems are modular and scalable, so you can train as you fight.

- Open and urban terrain operations training
- Exercise Control to prepare, conduct and evaluate training exercises, including After Action Review
- Test missions and evaluate soldier skills
- Communications platform that allows accurate indoor and outdoor tracking of vehicles, dismounted soldiers, weapons, helicopters and UAVs
- Weapon replication: optimum realism of direct/indirect fire and explosions

France Army [Armée de Terre]
Live Combat Training Centres
Open terrain CTC (100km²)
- Laser firing simulation
- Outdoor players localised

Urban terrain CTC (60km²)
- Built-up area: 2km²
- Buildings: 200
- Rooms: 3,000+
- Laser firing simulation
- Localisation inside and out
Virtual environment that uses geotypical and geospecific data to construct the visual database

Scenario reproduction including various weather conditions, wind effects, targets and malfunctions

Replication of virtual shooting ranges (lanes and open terrain)

Huge variety of weapons replicated (from pistols, rifles and machine guns up to shoulder-fired weapons)

Original weapon handling and effects, including recoil and forces. Ability to replicate additional weapon equipment, night vision goggles and sight

Exercise software that enables the instructor to check training parameters during the exercise to evaluate detailed behaviour and performance. After Action Reviews in 2D or 3D are also available

Germany
Army [Deutsche Bundeswehr]

100,000 shots per Sagittarius system each year
ARMOURED FIGHTING VEHICLE TRAINING

Our comprehensive solutions cover everything from light protected vehicles to main battle tanks. Choose from a full range of devices from stand-alone desktop training stations up to fully-customised medium and high-fidelity simulators. These can be operated individually, collectively in task forces, or in a network for combined and joint operations.

- Progress from technical skills to mission training for operational deployment
- Develop soldier training up to crew and company collective training
- AI-powered Computer Generated Forces allow you to define specific procedural and tactical scenarios with customised doctrines
- High-resolution visual database to keep you fully immersed, with realistic effects including different weather conditions, all sensor types (including forward looking infrared) and simulated equipment malfunctions
- Interoperable with C41 mission role equipment (e.g. Battle Management System) including collaborative combat modelling with tactical links and vetronics. Ability to include OEM software for vehicle dynamics ballistics

The Netherlands
Army [Koninklijke Landmacht]
- 74 interconnected simulators making up Europe’s largest virtual military training centre

Australia
Army [Australian Army]
- High fidelity and desktop trainers for ASLAV
- Gunnery/crew technical and collective training
COMMAND STAFF TRAINING

In today’s operations, general staff and commanders have to analyse complex data from different sources and take critical and quick decisions in a digitalised battlespace. Our solutions are developed to take your needs into account, so you can adjust your tactical and mission readiness in a realistic environment. With our scalable solutions, you are able to develop your own scenario and define any type of operation.

- Train with your own equipment: C4ISR and radio communication systems integration
- Enhanced Artificial Intelligence (AI) for integration of new doctrines (land/air/sea collaborative combat) allowing you to practice in realistic urban and open terrain
- Immerse yourself in realistic battlefield scenarios with constructive simulation that populates your virtual environment with thousands of entities
- Action Review and After Action Review briefing and debriefing reports
- Master the decision-making process with real time situation follow-up

France
Army [Armée de Terre]
- Command & Control simulation up to battalion level
Innovation
We use cutting-edge digital technologies to provide you with an unequalled level of operational realism.

Unrivalled synthetic environment
Our AI-powered Computer Generated Forces (CGF) models the behaviour of simulated entities on ground, sea and air. Plus, our high-fidelity terrain database enables richly detailed dynamic operational scenarios, from open to urban terrain. The result: a tactical environment that’s almost indistinguishable from the real world, through a fully-immersive experience, with minimal need for exercise support staff.

Human-centric training
Human Performance Monitoring (HPM) improves training efficiency by allowing an instructor to understand the cognitive state of a trainee. Through non-invasive sensors, physiological data is contextualised, analysed and an assessment presented to the instructor. The result: a training session tailored to the trainee’s capability and an objective debriefing.

Training management and deployment at the touch of a button
Today's complex distributed simulation exercises require substantial investment in time and people to deploy and manage. Thales’ expertise in Modelling and Simulation as a Service (MSaaS) simplifies the complex, automating the management and deployment of exercises whether in scalable, on-demand cloud networks, or in legacy systems. Re-use and modification of existing scenarios is made easy, reducing cost and risk. This enables our customers to concentrate on excellence in training outcomes, with no need to worry about the technology.

Services
Maintenance, lifetime assistance and educational services to support all your training needs.

Support services
24/7 technical support services, spares and repairs, with expert on-site assistance to ensure that your training systems are available at all times.

Through-life assistance
Lifetime support and upgrades for your training systems, backed by our global organisation with more than 1,000 simulators in 50 countries.

Professional training services
We offer a complete range of educational services on-demand, including training management process, Training Needs Analysis (TNA), courseware tailored to your specific mission requirements and expert instructors to ensure that you get the most out of your training programmes of your training programmes.