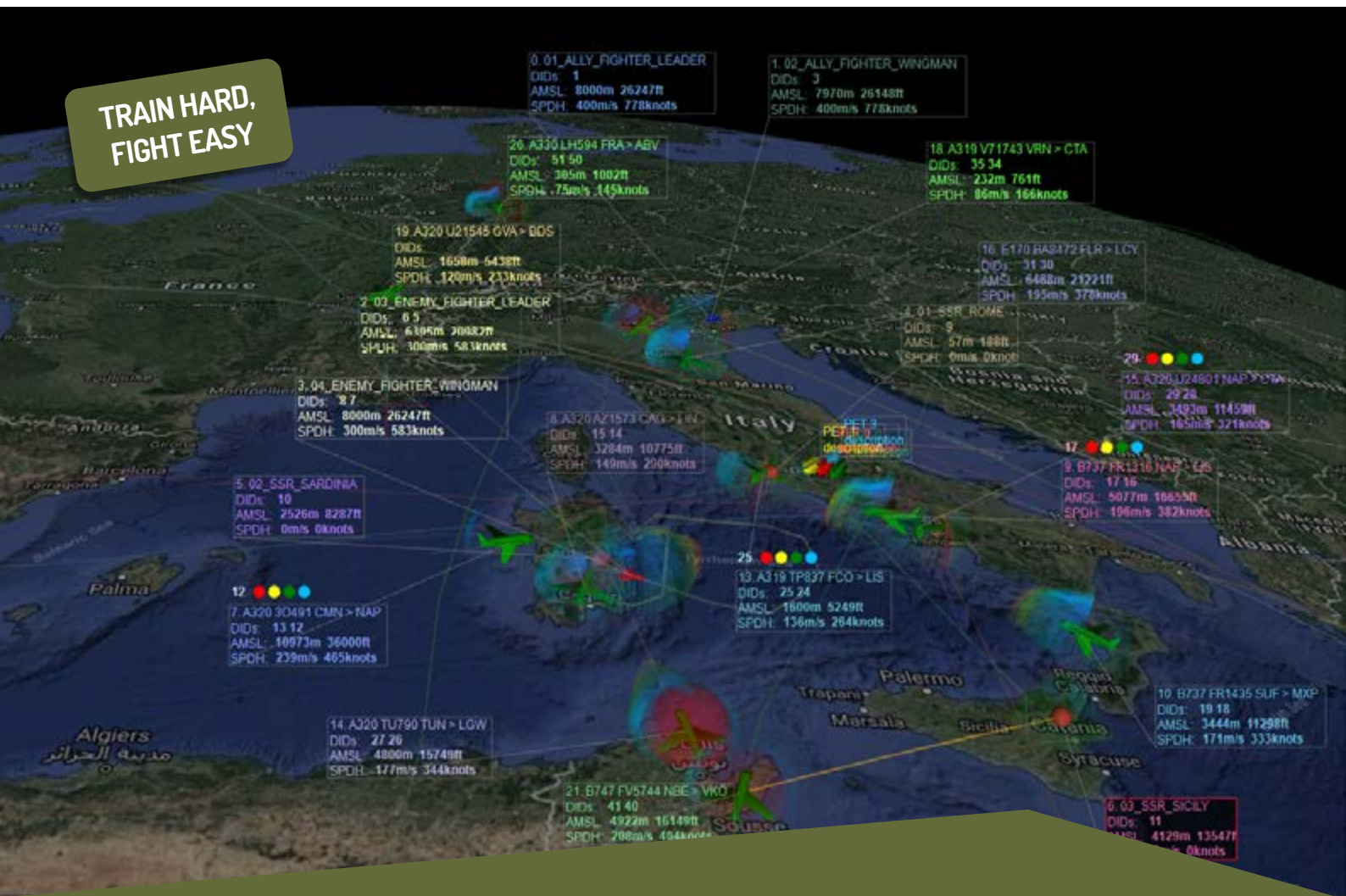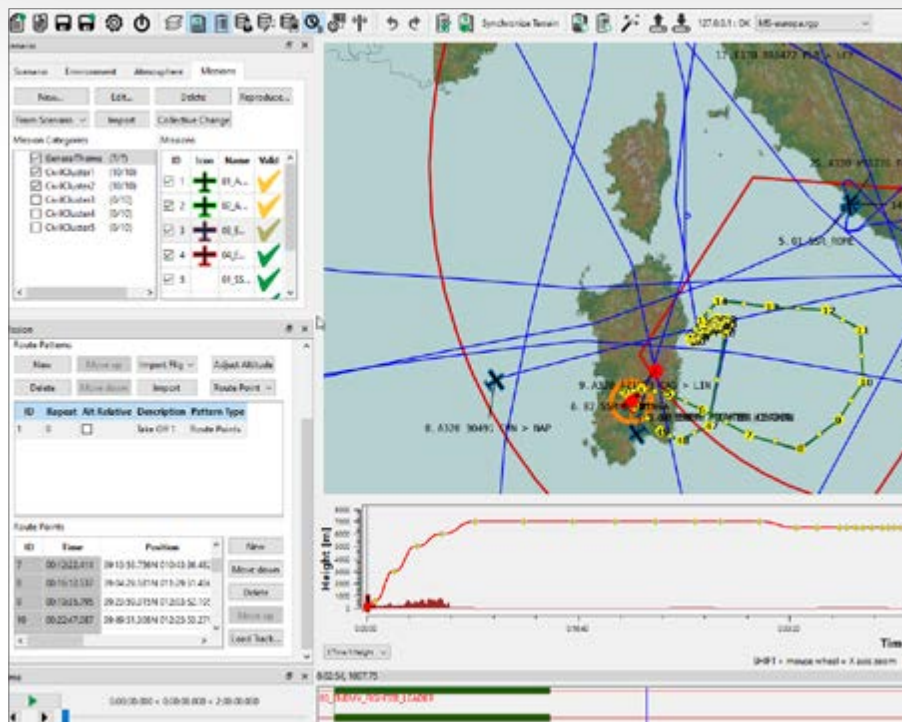**TRAIN HARD, FIGHT EASY**

EW-SIM

Electronic Warfare Simulator for ESM/ELINT Systems

The EW simulator is a military reconnaissance tool, which provides training of passive emitter tracking systems and electronic warfare. The simulator system consists of console of ESM/ELINT system as a workplace for operators (trainees), a simulator console as a workplace for instructors (trainers), a central processing station and one receiving station.

The training simulator significantly decreases the time needed for new users to obtain needed experience without affecting the performance of the operational system. The training can be carried out using data from prepared scenarios or data from one receiving station. Off-line data from another ESM/ELINT system can also be replayed.

KEY FEATURES:

- ✔ ESM/ELINT simulator
- ✔ Advanced training tool for analyzing real signals
- ✔ Expected enemy threat training
- ✔ Virtual training AD or EW scenario wherever on the Earth
- ✔ Environment, scenarios, target behavior and emitter characteristics as realistic as possible
- ✔ Any type of battlefield scenario (airspace, ground or navy)
- ✔ The possibility of creating any type of the signal
- ✔ No need of real system deployment for the training
- ✔ No need to occupy real VERA-NG system during training process

The example of EW-SIM usage: simulation development tool creating the dogfight scenario for specific mission

USE CASES:

- **EXPECTED ENEMY THREAT TRAINING**

Practicing for specific situations which might be extremely rare or almost impossible to find in the real environment. Furthermore, the tool allows to create and simulate specific signal in specific situation which the user has not yet intercepted or has not been able to analyse that until this time.

- **BRIEFING TOOL**

Advanced preparation of the operators before specific mission. The tool allows to create situation (in specific location and with specific targets) which is expected in the oncoming mission.

- **DEPLOYMENT VERIFICATION**

For the specific mission target the tool allows to verify suitability of the real system deployment.

- **VERA-NG OPERATOR´S TRAINING**

To speed up whole training process with no occupancy of the real system.

BENEFITS:

- ✔ Reduced costs for training
- ✔ Speed-up training proces
- ✔ Advanced model of signal propagation
- ✔ Application of advanced platform behaviour model
- ✔ 3D antenna pattern

KEY PARAMETERS:

PARAMETERS	DESCRIPTION
Target Emitters	Primary Surveillance Radar SIF/IFF Navigation equipment Jammers Tactical data links
Target platforms	Airborne Naval Ground
Antenna patterns	3D
Intra-pulse modulation	Phase modulation Frequency modulation Amplitude modulation

The example of 3D antenna pattern

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