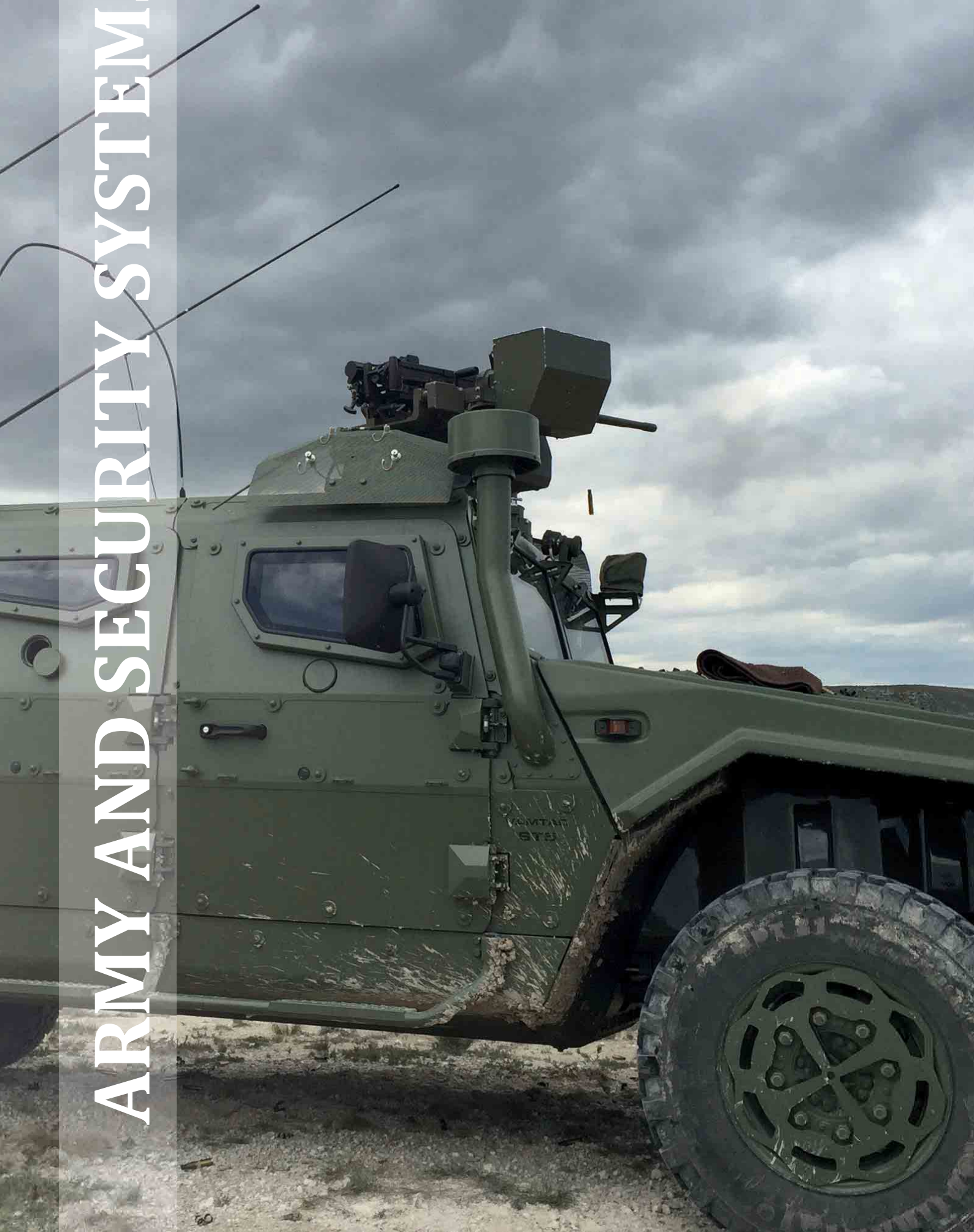
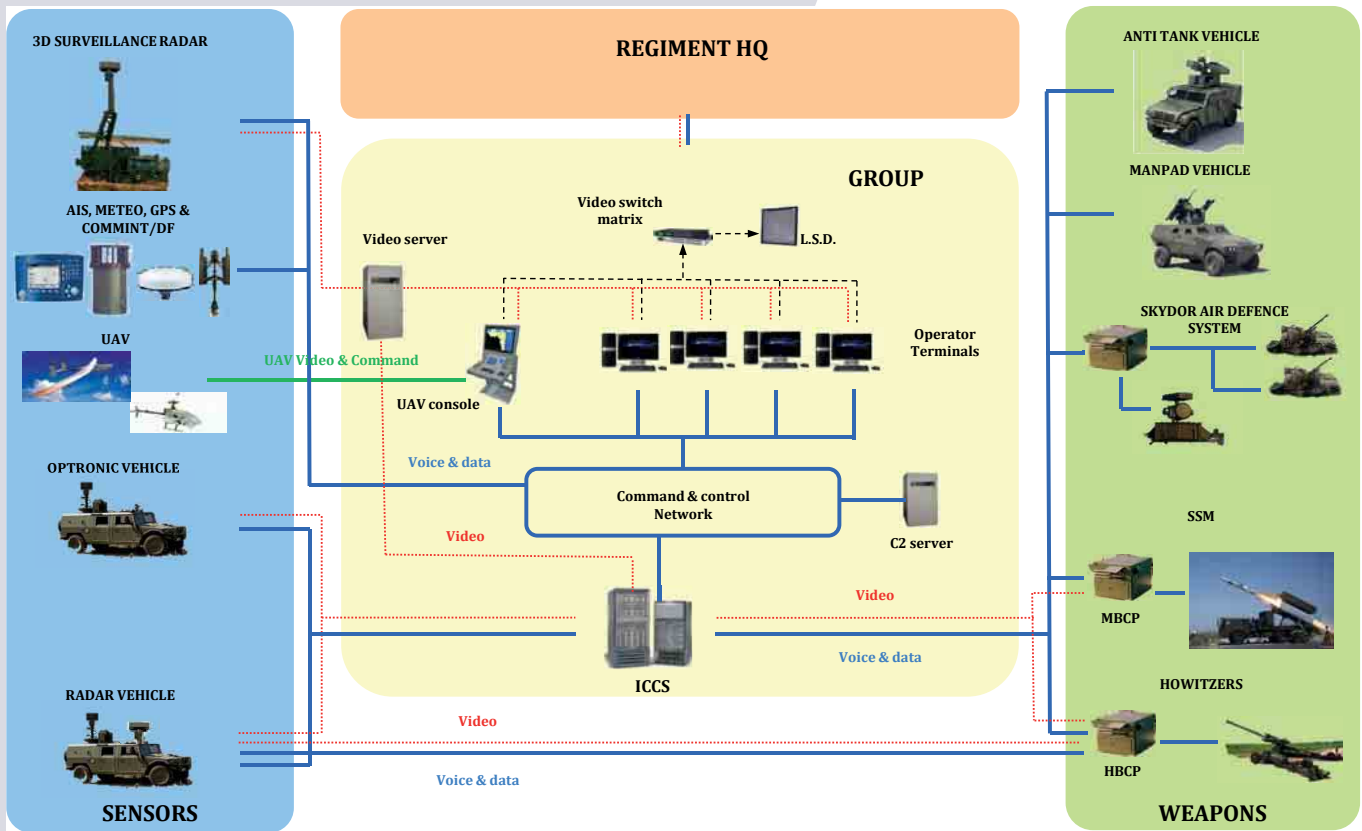


ARMY AND SECURITY SYSTEMS



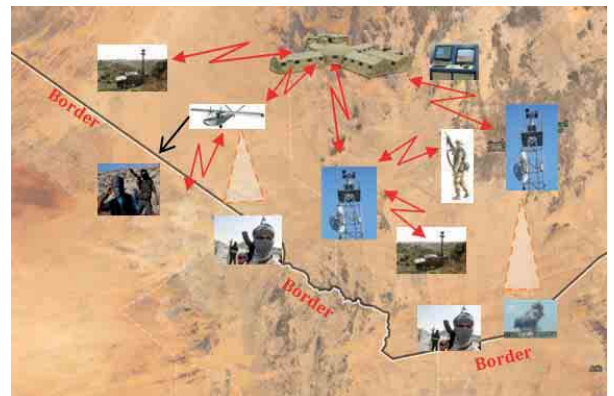
INTEGRATED SOLUTIONS

LAND AND COASTAL DEFENCE SYSTEM



BORDER SURVEILLANCE SYSTEM

- Mixture of fixed and mobile surveillance assets
- Integrated permanent and/or transportable command and control centres
- Integration of un-manned vehicles (UxV)
- Automatic detection of threats and efficient response
- Quick reaction deployment against detected intrusions
- Redundant coverage for maximum reliability and 24/7 surveillance
- Land, coastal and river border control
- Surveillance of large areas



HERCULES COMMAND AND CONTROL SYSTEM

Provides operators with an updated Tactical Presentation on a cartographic substrate which includes Tracks and Position of Military Units.

- Reconognised Management Picture (RMP)
- Integration with Sensor Units and Weapon Groups
- Designation and Combat Command Orders
- Decision Planning and Support
- Communications and Messaging Management
- Integration of communications equipment, radars and other sensors
- Management of video, radar and images of optical sensors
- Integration with Electronic Warfare Systems (EWS) Tactical Data Links (TDL) and Automatic Identification Systems (AIS)
- Training





SURVEILLANCE EXPLORATION RECONNAISSANCE SYSTEM (SERT)

COMPLETELY INTEGRATED SERT SYSTEMS

o *Electro-optical and Radar surveillance and target location system*

- Day and night surveillance, target detection and identification passive (IR, TV) and active (laser) sensors
- Precise and effective automatic target geolocation
- On-vehicle and dismounted versions

o *Integrated self-defence system*

- Eliminates crew exposure outside of vehicle
- Modular installation of 7.62mm and 12.70mm guns
- Ammunition saving with improved precision

o *Navigation and driver enhancement system*

- Safe driving in complete darkness
- Overlaid mission map (route, waypoints, ETA, DTA)
- Vehicle information and alarms to both driver and commander

o *Battlefield Management System*

- Mission-specific tools (Artillery, Cavalry, Intelligence, Border Surveillance)
- Integrated with Unit Command, Control and Communications system

SERT SYSTEM CHARACTERISTICS

- Adaptable to any type of vehicle or mission
- Modular open architecture
- Easily integrated with other systems (e.g. new/existing BMS) and sensors (radar, TV/IR cameras, optical comms, optical detection, R-ESM, C-ESM, etc.)
- High precision of own position and of friendly or hostile units, all displayed on map overlays
- Crew safety & 24/7 operations (visible and infrared)



SKYDOR AIR DEFENCE SYSTEM



SKYDOR CHARACTERISTICS

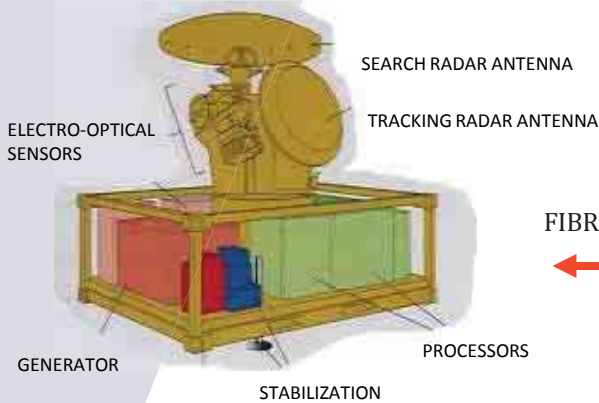
- Automatic detection
- Automatic tracking of multiple targets
- Simple operation requiring few operators
- Automatic threat detection and evaluation
- Combined Radar and Electro-optical system
- Integrated Identification Friend or Foe (IFF) system

SKYDOR is a transportable Air Defence System for controlling artillery and missile air defence. The Command and Control post and Fire Control System are linked by fibre optics.

24 UNITS IN SERVICE WITH THE SPANISH ARMY

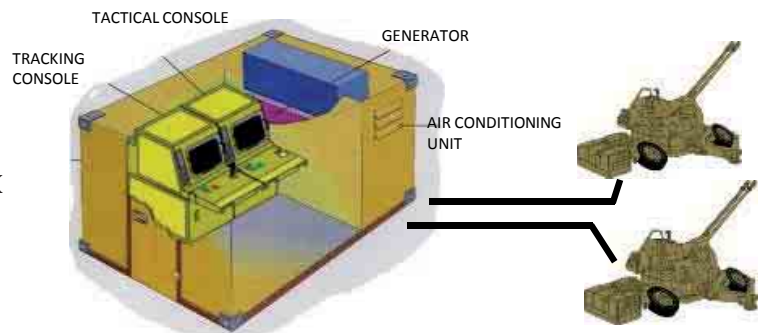


SENSORS UNIT



FIBRE OPTIC LINK

COMMAND POST



SURVEILLANCE SYSTEMS

POMO is the Spanish Army Coastal Surveillance System consisting of a Mobile Observation Station with electro-optical and radar sensors that allows monitoring, detection and identification of targets and geographically locating them providing the distance and target bearing line. POMO is integrated with artillery providing a coastal defence system.

The system is composed of a sensors platform and a control console installed inside a transportable container.

SERVIOLA is a maritime Surveillance System installed on vessels to assist in avoidance of obstacles.

The system is composed of an Electro-Optical platform and a Control Console that can be easily and quickly installed on any type of ship.

BOSQUE is an automatic long-range surveillance and fire detection system.

BOSQUE is a fixed 24/7 surveillance system that detects 1m2 targets at up to 20 km. It is used for both civil and military applications, integrated with civil forest fire detection and firing range fire fighting systems.

The system is composed of remote fixed containerised electro-optical observatories, providing a 100% coverage of the surveillance area, and a control console installed in a monitoring centre.

SVAP is an advanced 24/7 coastal, port and offshore platform surveillance security system. It provides both overwater and underwater security and surveillance, integrating any sensor (radar, TV/IR cameras, sonars, etc.).

With its modular open architecture it enhances existing security systems by easily integrating legacy systems in to a low acquisition cost system with minimal maintenance. Additionally, it integrates with new systems and sensors, including un-manned vehicles.

SVAP automatically tracks targets with different sensors making track fusion to present only one single target to operator display. It is used for both military (already installed in various Spanish Navy ports) and civil applications (detecting and tracking oil spills and toxic clouds).



ABOUT NAVANTIA

Navantia is a Spanish Government Owned Company and is an Industrial Group with the following Business Lines:

- Naval shipbuilding and design.
- Systems.**
- Ship repairs and conversions.
- Diesel engines, gearboxes and power generation.
- Through Life Support.
- Transfer of Technology solutions
- Offshore merchants and wind energy

Command and Control systems
Integrated Platform Management Systems
Surveillance systems
Gun Fire Control Systems
Naval guns
Communications systems
Navigation systems
Simulators and training



More than
20
countries...

...with
offices
worldwide

 **Navantia**

Carretera de la Carraca S/N
11100 San Fernando (CÁDIZ) ESPAÑA
Teléfono: +34 856 309 500
direccion.fa@navantia.es
www.navantia.es

