INTEGRATED BORDER SECURITY

LEONARDO

While countries and their populations are increasingly exposed to the opportunities and risks associated with the ever-expanding global movement of people, terrorism, organised crime, migrants, Border Security-Agencies are rethinking approaches to border surveillance, security and management.

Across a number of areas and technological capabilities, Leonardo is a market leader capable to manage the border security challenge and design the wouldbe border concept in effective way. Innovative solutions are expected to mitigate the border phenomena including illegal goods, counter terrorism, and illegal immigration.

New technologies can help in finding the best solution to develop models supporting planning and missions. Integration, sharing of information, coordination and exploitation of intelligence are facts in the new generation border security systems provided by Leonardo.

Legacy systems can be interconnected easily and integrated with new field of sensors to conceive an ensemble of tactical, strategical, cooperative and external components with a system of system (SoS) approach, ideal and effective for decision support system.

One unique system that is capable to integrate data coming from land, air and sea, scalable, modular and ready to manage new threats and new systems. The common need for any governmental, private and industrial solution to solve different key requirements with the flexibility to adapt to a variable context is fully considered, managed and harmonised.

BORDER SURVEILLANCE AND DETECTION

Leonardo Border Surveillance and Detection refers to:
› Surveillance, Reconnaissance and Detection equipment for the maritime and land border security forces in order to curb illegal border crossing, drug trafficking, smuggling and protection of sovereign territory, protecting territorial and international waters from piracy, smuggling and other criminal activities
› Communication Network and Devices
› Command & Control Centre
› Mission Planning, Search and Rescue
› Interceptor Assets

BORDER AND INFRASTRUCTURE PROTECTION

Leonardo Border and Infrastructure Protection refers to:
› Security Protection of Maritime and Land Borders
› Communication Network and Devices
› Command & Control Centre
› Protecting Infrastructures like port, offshore oil and gas, fuel storage, military base and logistic centre, troops facilities, power and water plant
› Interceptor Assets

BORDER MANAGEMENT

Leonardo Border Management refers to comprehensive solutions including:
› Mobile or fixed automated border check points and crossing points (including self-service kiosks) for the (biometrical) identification & recognition or enrollment of transit people with or without their own access travel documentation at all ports of entry, whether air, land, or sea
› Information technology infrastructures and network communications to manage the interactions between border check points and command and control law enforcement centres/databases to support identification and to provide a record of travel and criminal history of third country nationals
› Intelligence and risk analysis to prevent and indentify possible threats using predictive analysis
› Interoperable information database

Border Surveillance and Detection

Surveillance Radars (Land and Airborne)

Multi Sensor Data Fusion

Communication Devices and Networks

Command and Control

Vessel Traffic Management System

Air and UAV Traffic Control System

Border Patrol Vehicles

Mobile Integrated Border Control System

Transportable Integrated Border Control System

Mission Planning

Search and Rescue

E/O (Land, Airborne and Maritime)

UAV's and Mission Control

Aircraft, Rotocrafts, Helicopters

Patrol Boats/Interceptor units

Natural Disaster Early Warning

Unattended Ground Sensors

Satellite Observation, Comms and AIS

Acoustic and Magnetic Systems

Surveillance Buoys and Sea Barriers

Border and Infrastructure Protection

Surveillance Radars (Land and Airborne)

Command and Control

Data and Video Analytics

Mission Planning

Unattended Ground Sensors

Communication Devices and Networks

E/O (Land and Airborne)

UAV's and Mission Control

Border Patrol Vehicles

Aircraft, Rotocrafts, Helicopters

Interceptors

Perimeter Fence

Border Management

Identity Access and Management

Entry/Exit Database

Central Command and Control

Big Data Analytics

Facial Recognition

Portable Identity Access

Licence Plate Reader

ABC Gates

Goods check

Vehicle gates

Biometrics

IT Systems/Management

Radio Frequency Identification (RFID)

Screenings

Smart Cards

Communications

NETWORK SECURITY | DATA AND IDENTITY SECURITY | CLOUD SECURITY | THREAT INTELLIGENCE

Fence Protection

Biometrics

Face Recognition

Interceptors

LAND

Joint C2 Centres

Surveillance Sites
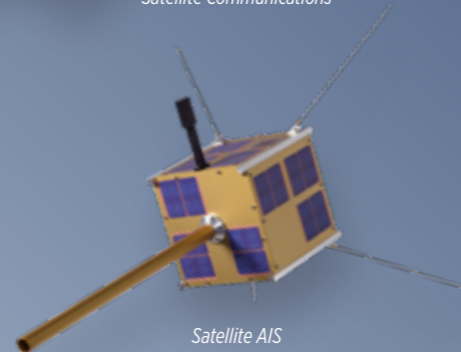Networks of Sensors

Communications Infrastructures

SPACE

Earth Observation

Satellite Communications

Satellite AIS

SEA

Patrol Vessel

CNI Protection

Surveillance / Optronics Systems
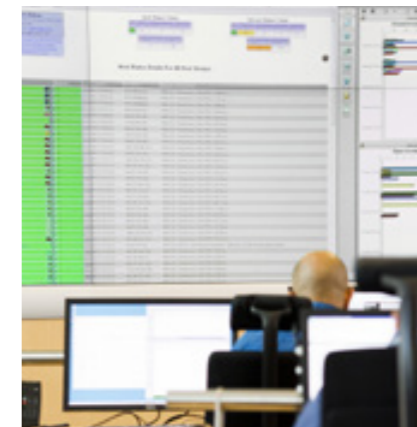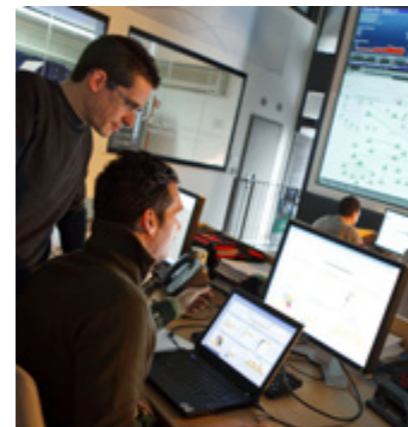
AIR

Patrol Aircrafts

Helicopters

UAS

ONE COMMON OPERATIONAL PICTURE, ONE UNIQUE DATA INFORMATION

The Common Operational Picture include information relevant to the tactical, operational and strategic level of command and control, from detection, to identification, correlation, interoperability and mission planning to have ONE unique situational awareness and sense-making shared between Air, Space, Sea and Land.

Network centric and hierarchical architecture are tailored and real-time capabilities Leonardo provides with an advanced user-defined Common operational Picture for prediction, mapping and response. Fully interconnected systems and database gather ONE unique data information shared between countries and between different stakeholders through powerful technologies spread worldwide.

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