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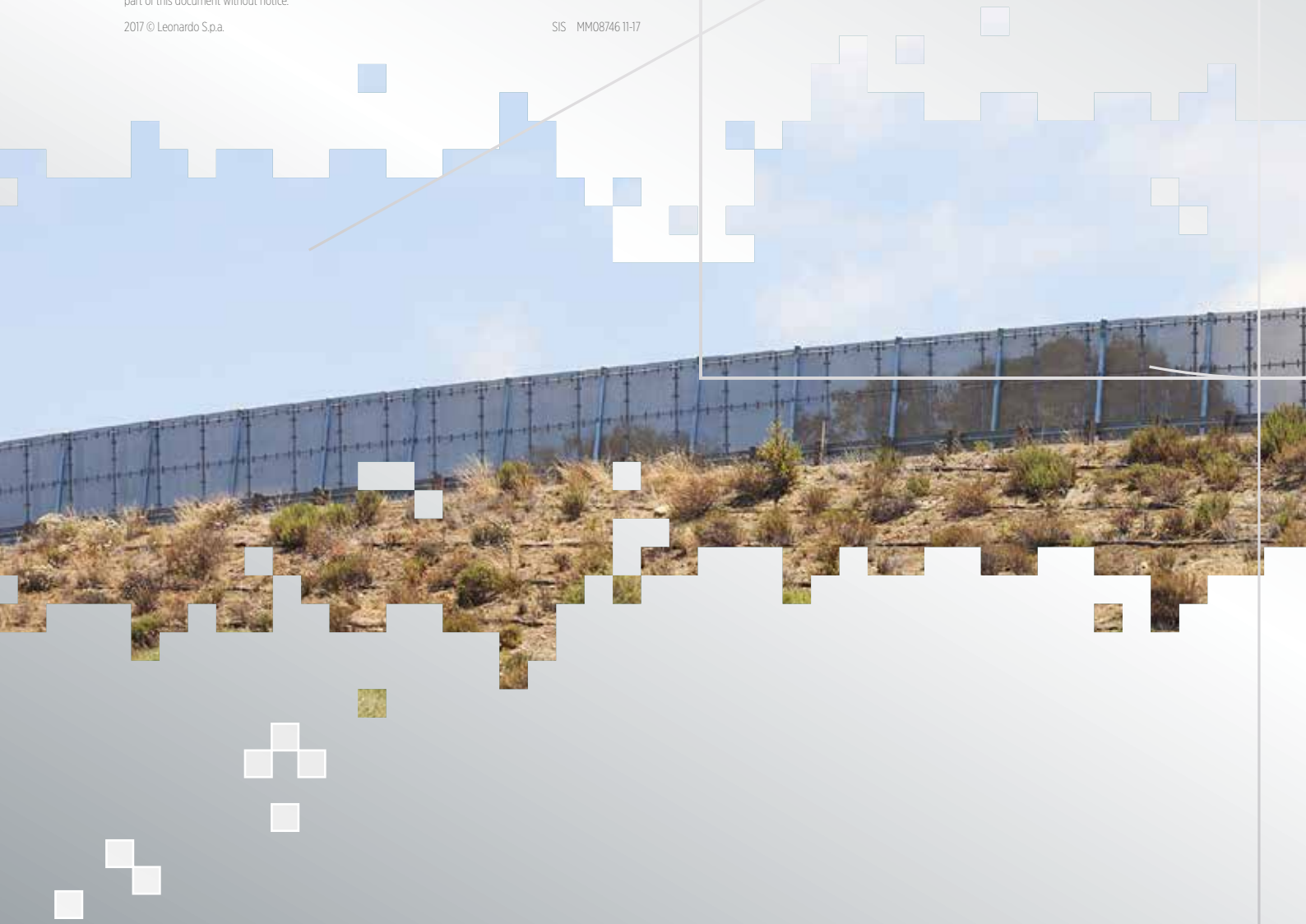
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INTEGRATED BORDER SECURITY

# INTEGRATED BORDER SECURITY

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 would-be 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.

# INTEGRATED BORDER SECURITY

## 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 identify 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

# INTEGRATED BORDER SECURITY

Fence Protection



Biometrics

## LAND



Joint C2 Centres

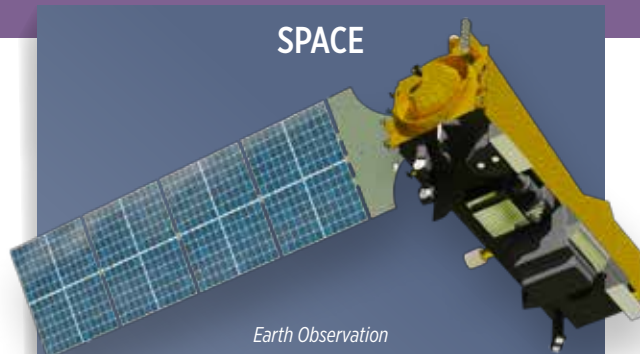


Surveillance Sites  
Networks of Sensors



Communications Infrastructures

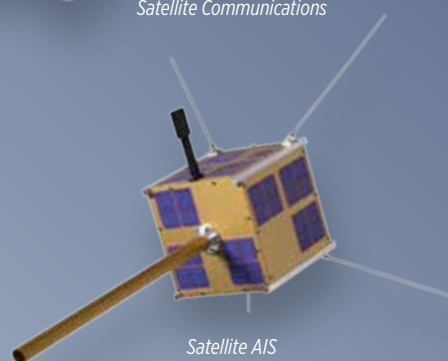
## SPACE



Earth Observation



Satellite Communications



Satellite AIS

## 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.



*Face Recognition*



*Interceptors*

