



PRESENTATION OF
COMPANY DAT-CON D.O.O.



System Integrator & Producer



Since 1992

ISO 9001
ISO 27001

Company basic information



Dat Con production facility

Founded in 1992

GREEN and BLUE Border

More automatic and more flexible observation systems

**OUR SOLUTIONS ARE IN DAILY OPERATION
24h/7days**

We offer our Integrated solutions with strong technical support and local after sales service

Based on Experiences.... ...on the land and on the sea

- **Stationary Opto-electronic Surveillance System**
- **Mobile Opto-electronic Surveillance System**
- **Observation by Airplanes and UAV's**
- **Inland security**
- **Portable observation system**
- **After Sales Service**

Stationary systems

- Very useful where a large flat areas should be monitored
- We build the solution in accordance with needs
- Observation up to 30km

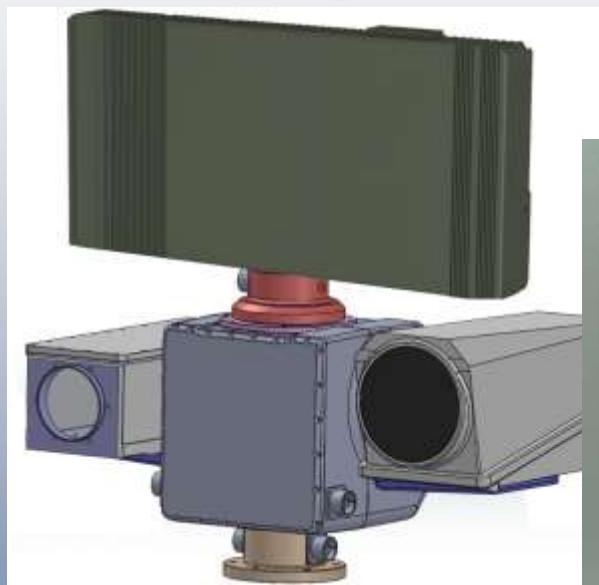


Multisensor electro optical systems

Thermal camera, Day/Night Color camera, SWIR Camera,
Laser gated camera, Laser range finder



Ground Surveillance Radars in connection with Optronics become very useful for Green and Blue Border



The real border Installation with integrated solution of Radar and Electrooptical system



Intergation on EU Border



3000 km of European / Schengen & 6000 km Non EU Border protected by DAT-CON solutions

Coastal radars in combination with Electro optical systems



Blue Border and Port security

NEPTUNE NEW-Integrated Solution with Nautical radar for Coastal and Port Security



NEPTUNE Key Features

- Advanced Target Detection
- Multi Guard Zones
- Thermal/Low light camera for target identification
- Spotlight for night time operation 3km range
- Target detection, warning and tracking 0-45 nm Range
- Automatic slew to cue and zoom on target
- Low Power Consumption
- Zero Radiation Hazard
- Quick Installation
- Ethernet Connectivity
- SSD-Solid State technology
- LOW cost solution

Alternative Power sources

- Solar power system
- Wind generators
- Fuel cells
- Combination with generator
- Power management with remote control system (VHF, GSM, Satellite, TETRA)



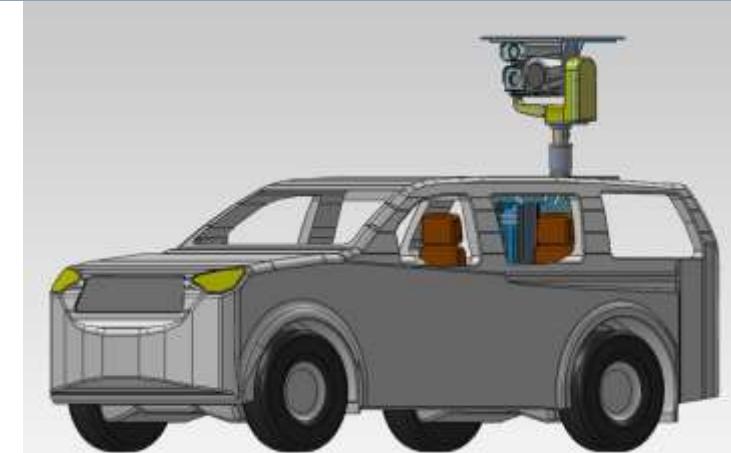
3000 km of European / Schengen &

6000 km Non EU Border protected by DAT-CON solutions

Mobile solutions

3D Studies we do for the projects

- We offer design in accordance with needs
- Different type of vehicles
- We start from 3D design to final product



3D Study based on the civilian vehicle like Mercedes



- System with Long Range Thermal camera (20km)
- Ground Surveillance Radar with possibility to detect person moving at 8km
- For Coast and inland observation

Real project with following capabilities



Long Range Thermal camera

- Person :

Detection at: 17.8km
Recognition at: 9.2km
Identification at: 5.3km

- Vehicle:

Detection at: 21.6km
Recognition at: 15.1km
Identification at: 10.5km

Ground Surveillance max. Radar

Walking person at: 10km
Crawling person at: 5km
Vehicle at: 20km
Truck at: 27km

Van for Land applications



- Mercedes Sprinter 4x4
- Silent work based on Batteries
- Generator for long term work
- Airconditioner
- Heating System
- Tetra repeater with HH Radios
- Automatic Stabilization
- Driver place for 3 people

Van for Coastal and Land applications with C4I center



- Solid State Radar 32km range
- Long range Thermal camera
- Long range Day Night camera
- Connected with Main C2 center
- Integrated marine radio
- AIS server
- Connected with Coastal radar
- Ground station for UAV
- C4I center for two operators

- Mercedes Sprinter 4x4
- Silent work based on Batteries
- Generator for long term work
- Airconditioner

- Heating System
- Marine radio inside
- Automatic Stabilization
- Driver place for 3 people

Van for Coastal and Land applications with C4I center



- Online connection with Main C2 center
- Transferring and Receiving targets from Main center
- Middle point communication for other mobile solutions
- With integrated Ground station for UAV with live picture from the UAV
- Transferring observation points need to be checked to UAV

Design based on SUV



- SUV Double CAB 4x4
- Silent work based on Batteries
- Generator for long term work
- Airconditioner
- Heating System
- Tetra repeater with HH Radios
- Automatic Stabilization
- Operator place for 2 people

High level of integration – Observation system with RADAR



- System with Long Range Thermal Day Night camera
- Ground Surveillance Radar with possibility to detect person moving at 10 km
- For Coast and inland observation

SUV built for Land observation with Long range observation system and Land radar,
Tetra radio, LTE modem and connected with Main C2 center

Project with retractable mast and Long range Laser Camera to get better ID



Project Multisensor electro optical head (thermal, day, laser range finder)



VW van project with electro optical head (thermal, day, laser range finder)



Service compartement



Operator compartment



Integration based on Nissan SUV

- Mechanical Gyro stabilization
- Two equivalent operator places
- Possibility to control the vehicle from back or front side



Finished project based on Nissan Pathfinder-Blue Border



Finished project based on Toyota Hilux- Land/Coastal Observation



SUV built for coastal observation with Long range observation system, Marine radio, AIS receiver and connected with Main C2 center

Project based on Ford Ranger



SUV built for Land observation with Long range observation system, Tetra radio, LTE modem and connected with Main C2 center

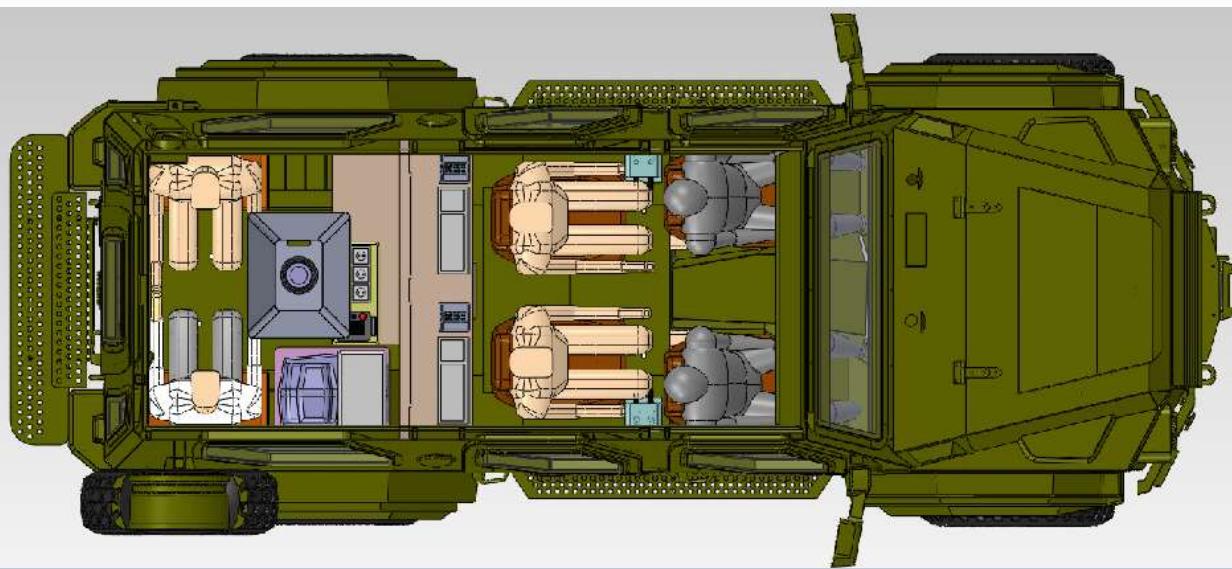
Project based on Armored vehicles



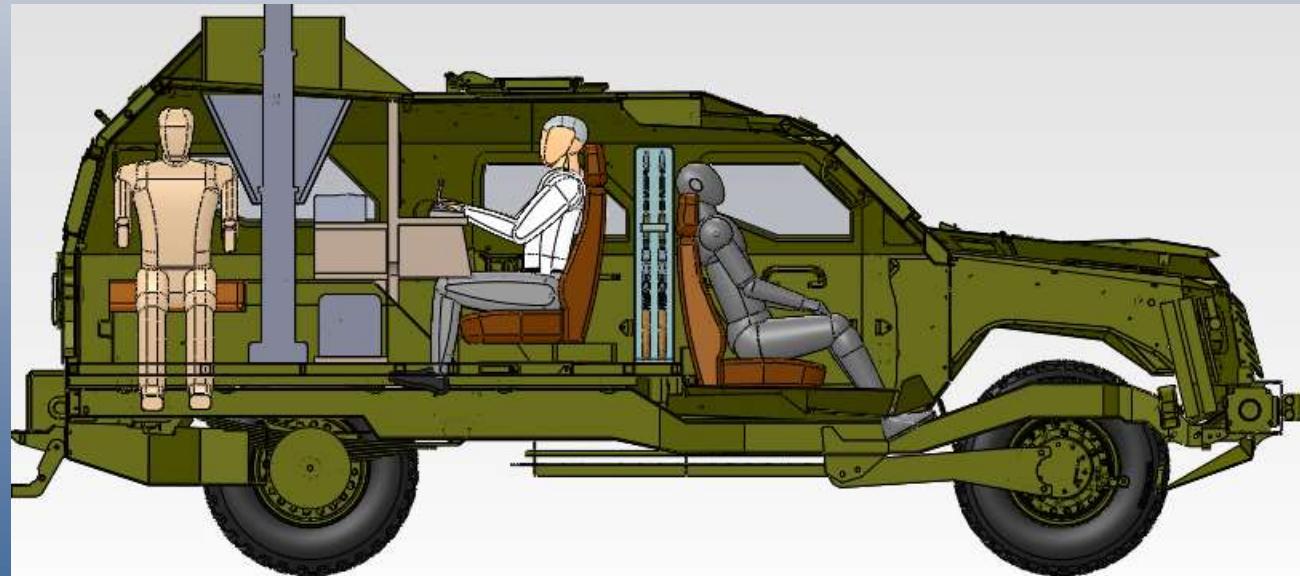
- Thermal and Day camera for long range observation up to 25km
- Target locations
- Remote controlled weapon station



Project based on Armored vehicle



- 6 people can be transported



- Place for two operators

Project based on Armored vehicle



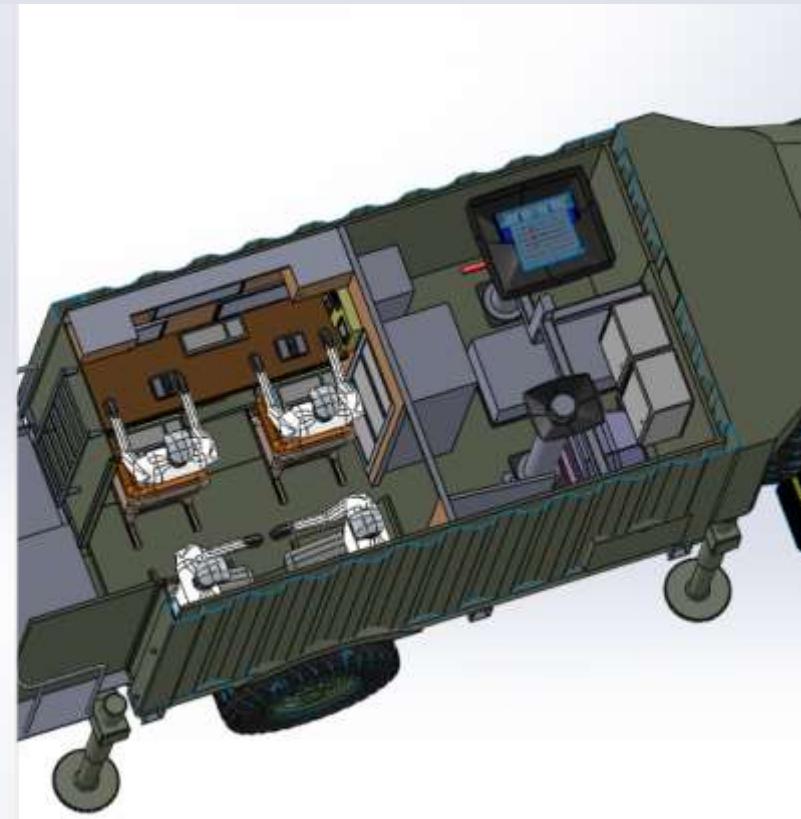
RADAR / Laser and (or) Thermal Camera

Technical performance (radar / thermal):

- Crawling person (RCS 0.1 m²): 6.0/ 8km
- Walking person (RCS 1 m²): 15.5/ 16km
- Moving RIB (RCS 5 m²): 19/ 17km
- Moving vehicle (RCS 30 m²): 22/ 19km
- Large moving vehicle (RCS 100 m²): 27/ 21km
- Large moving vessel (RCS 1000 m²): 32/22km

Design based movable shelter

- Removable Shelter
- Long range Solid State Ground Surveillance Radar- 32 km oper. Range
- Long range Thermal camera
- Long range SWIR / Day / Night Camera
- Command and Control Center

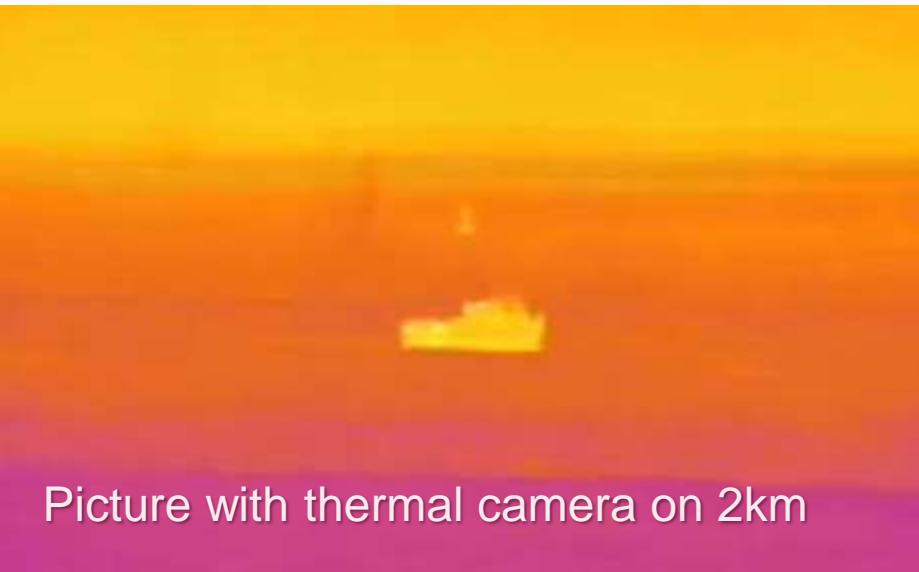


Ground Surveillance Land & Naval & Air Radars integrated on mobile shelter



3000 km of European / Schengen & 6000 km Non EU Border protected by DAT-CON solutions

Special laser camera with long range identification



Different versions of the vehicles in operation more than 15 years



Option with removable observation platform

Long range observation



Preliminary testing we did in
South America

Mobile operator center



Example of operator center



Example of operator center



Command Place of the Mercedes Vehicle



- Command place for 2 operators
- Adjustable seats
- Three LCD monitors
- Command and Control SW
- System control with Joystick
- System control with mouse
- Turning camera for 360 dgr
- Turning Radar for 360 dgr
- Integrated controls for UAV's

Observation Systems on Trailer



Inland security- Schengen Bus



Schengen Bus –C category



Schengen Bus –C category



Schengen Bus –B category



Schengen Bus –B category



NEW- Observation challenge from PIPISTREL VIRUS Double NASA Winner

- Able to operate up to 4500 (*6500) m ASL
- Observation distance up to 2000 km
- Very reliable aircraft
- Best price performance
- Payload in accordance to End User needs (cooled, uncooled, Targeting)
- Equipped with Wireless link to transfer the picture to ground station



Small UAV Systems-OEM solutions



- Operation up to 40 km
- Ceiling up to 2500m
- Tested in all conditions
- Very stable flight
- Only 3 days training needed
- Border observation, special Police and Army forces
- Made in Slovenia
- Better than many well-known competitors



UAV in real use to support Long range observation systems



Unmanned sea systems



NEW ! Observation Buoy

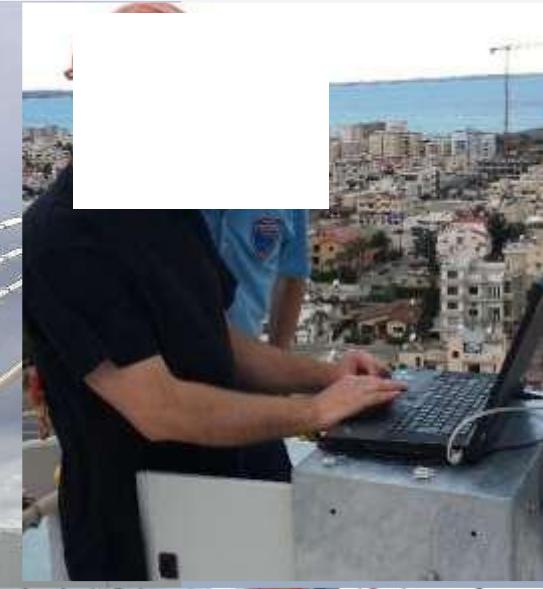
Main applications

- Blue Border
- Oil Platform protection
- Infrastructure on the Sea
- Fishing Zone protection

Comming project



System integration around the world for Fixed, Mobile, Airborn and Maritime



Portable solution BOPAS



- Support different Multisensors Hand Held cameras:
 - Thermal
 - Day Night
 - Laser range finder
 - DGPS & Compass
- Wireless Communication
- Pan tilt units
- Suitable for transportation by regular SUV
- Automatic target georeferencing

We customized portable solutions for your needs - OEM

- Control and command cases
- Wireless Communication
- Pan tilt units
- Suitable for transportation by regular cars
- Automatic georeferencing



Different way of use



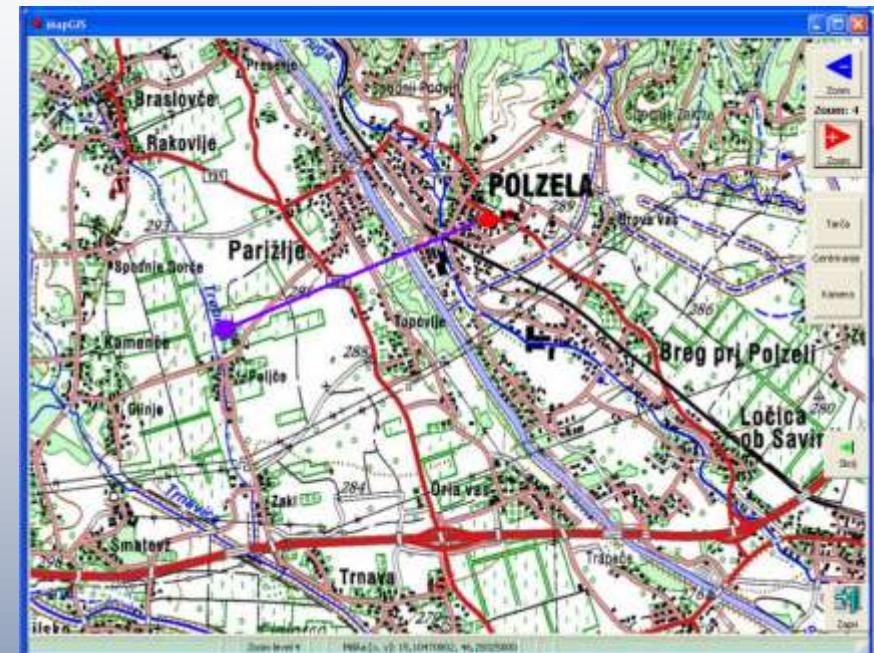
2000 km of European & Schengen Border protected by DAT-CON

Portable solutions based on Laser Gated camera CATEYE



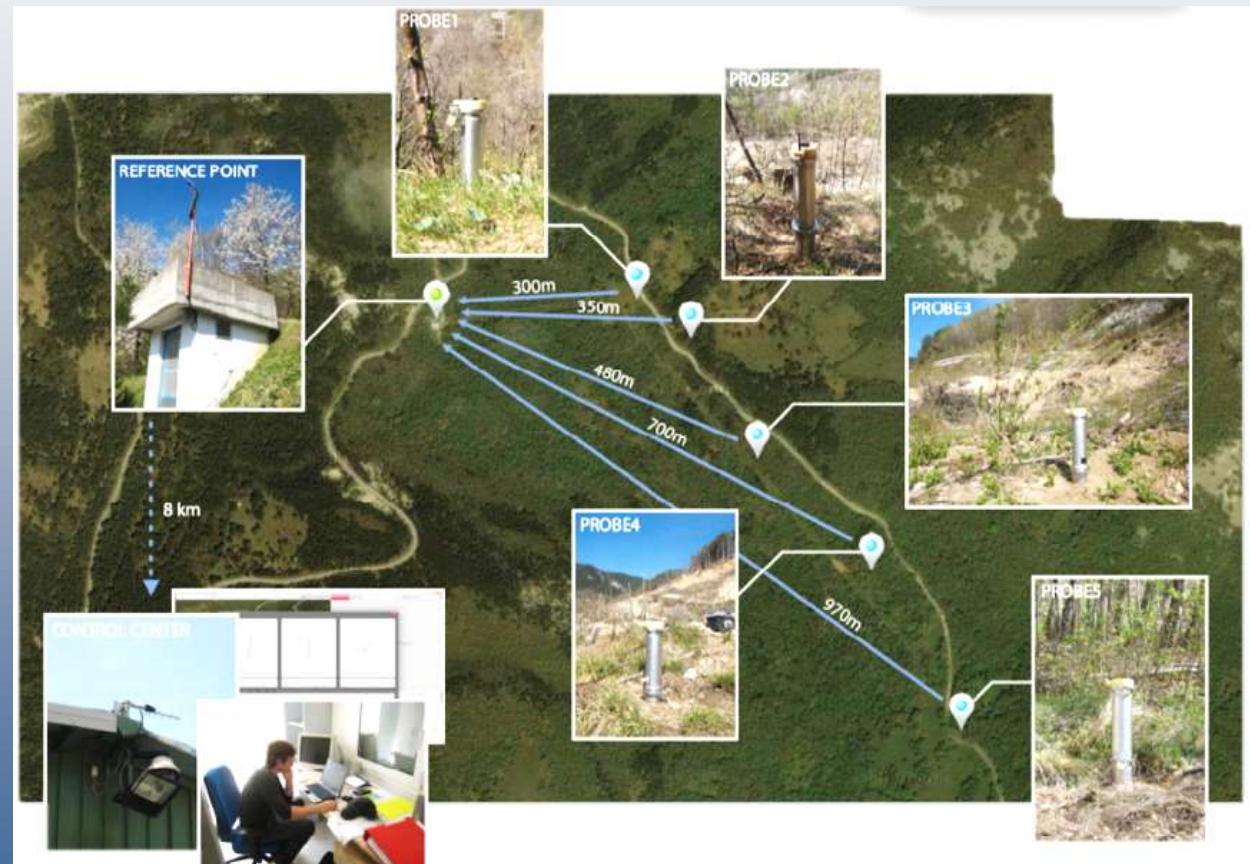
	Weather Conditions	TYPICAL RANGE PERFORMANCE							
DRI		Detection		Recognition		Identification*			
Type of Target									
DAY LIGHT	Clear sky	15 km (P)	4 km (P)	9.5 km (P)	2.8 km (P)	4 km (P)	1.4 km (P)	400 m (P)	400 m (P)
	Dawn*	4 km (P)	4 km (P)	4 km (P)	2.8 km (P)	4 km (P)	1.3 km (P)	200 m (P)	250 m (P)
NIGHT	LEVEL 1 of 3	2 km (P)	1.5 km (P)	2 km (P)	1.5 km (P)	1.5 km (P)	1 km (P)	220 m (P)	150 m (P)
	LEVEL 4&5	1.5 km (A)	1.4 km (A)	1.5 km (A)	1 km (A)	1.5 km (A)	800 m (A)	200 m (A)	150 m (A)

SW Solutions to Command and Control with target location



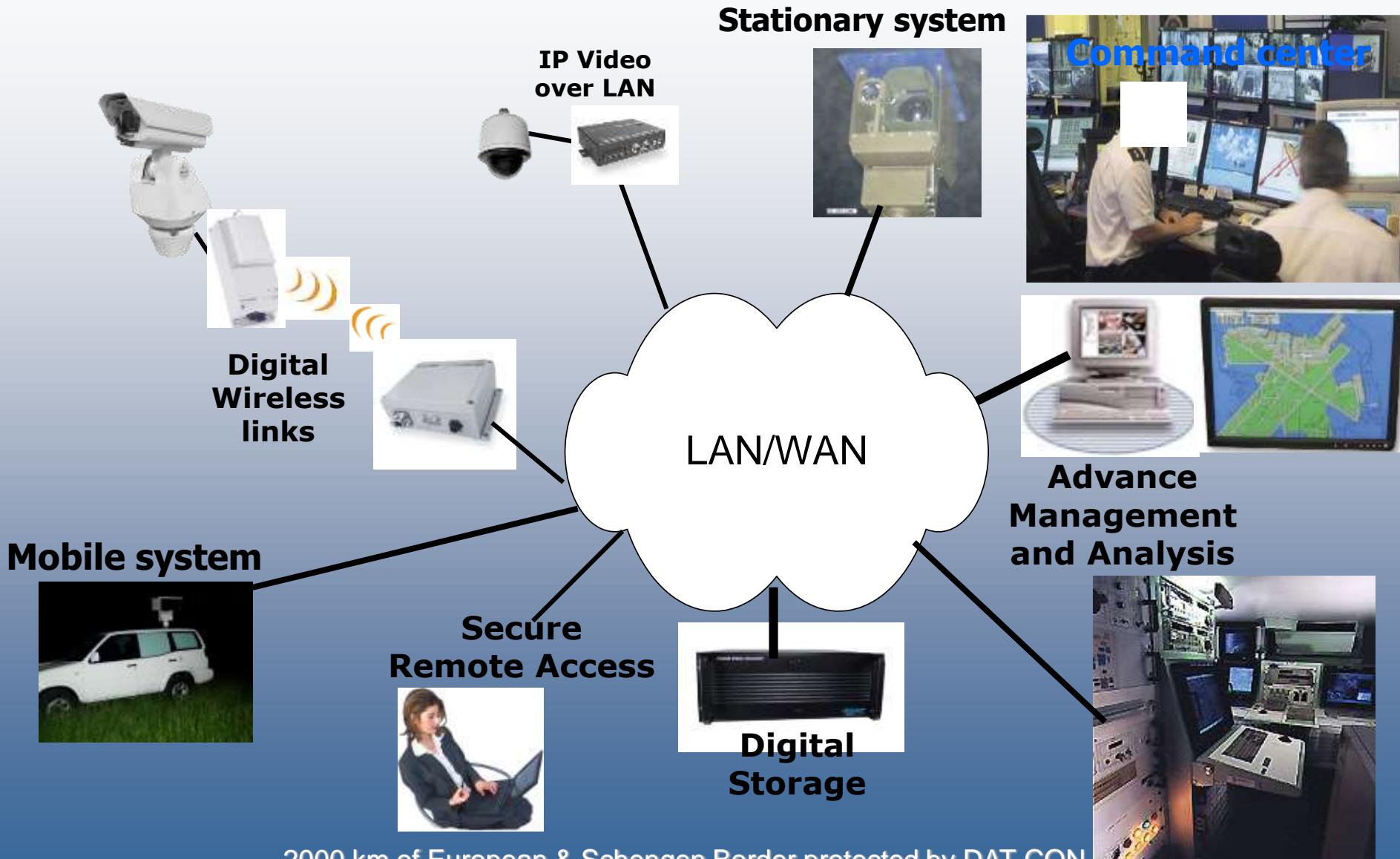
GEASENSE perimetric protection

GEASENSE is a high precision ground movements including vibrations generated by human or vehicles

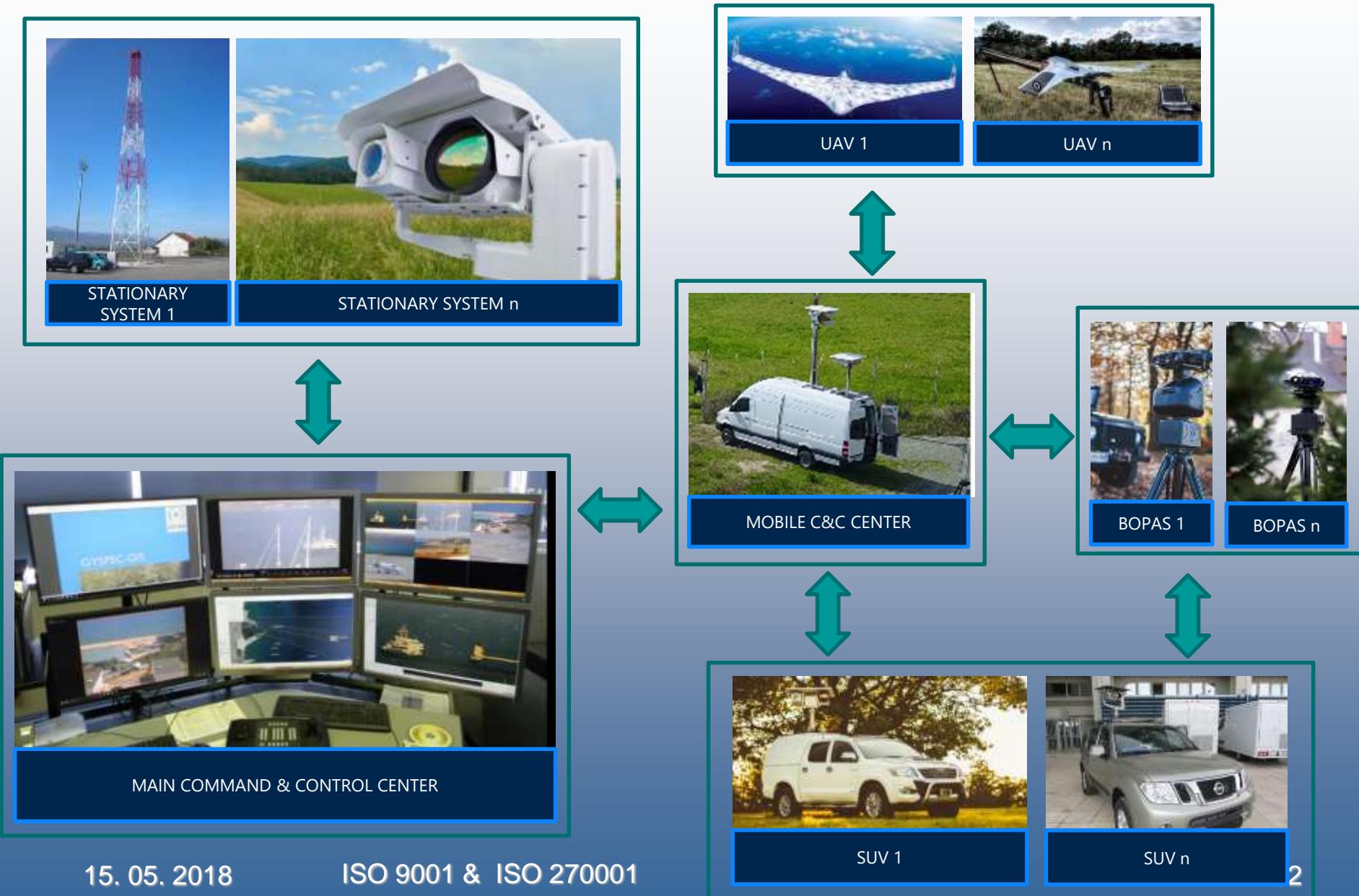


Border protection by Geasense

Final target is Command and Control center on the National Level



Example: All system components connected



Command and Control Center

- Overlay of Digital MAP, AIS, Radar, UGS, UAV's
- Automatic target tracking
- Automatic scanning
- Zone Alarms



Command and Control Software



Command and control software SOVA is a compact module based software package developed specifically for the border police, coast guards and navy applications. Server functions as a connection point for all subsystems (Day/Night cameras, Thermal cameras, Pan-Tilt, LRFs, UGS, UAV's, Radars etc.) and a distribution point for data (System parameters, diagnostics, imaging, etc.) to all connected Clients.



Security reinvented



Security Reinvented



Thank you for your time!

*smart
security*