



Exploiting the potential of cutting-edge technologies to strengthen border security and enhance Customs processes

Safety, Security, Efficiency and Sustainability



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Commercial-in-Confidence



Electronics



Helicopters



Aircraft



Cyber &
Security



Space



Unmanned
Systems



Aerostructures



EFFICIENCY

EFFICIENCY IS SPEED OF OPERATIONS, OPTIMIZATION OF SPACES, REDUCTION OF TIMES AND COSTS

76% OF PORT OPERATORS CONSIDER OPTIMIZATION OF OPERATIONS AS THE NUMBER ONE PRIORITY.

PORT TECHNOLOGY

67% OF PORT OPERATORS CONSIDER REDUCING OPERATING COSTS TO BE THEIR CHALLENGE.

NAVIS SURVEY



SECURITY

SECURITY IS A GROWING NEED AND AN INDICATOR OF THE QUALITY OF SERVICES

SECURITY IS GLOBAL: PHYSICAL, SAFETY AND CYBER

SECURITY AND COMPLIANCE WITH INTERNATIONAL REGULATIONS (IMO)

42% OF MARITIME-NAVAL ACCIDENTS TAKE PLACE IN THE PORT.

EUROPEAN MARITIME SAFETY AGENCY (EMSA)

CYBER ATTACKS IN THE MARITIME AREA INCREASED BY 400% IN THE LAST YEAR AND BY 900% IN THREE YEARS ON OT INFRASTRUCTURE

NAVAL DOME E MARINE LOG



SUSTAINABILITY

SUSTAINABILITY FOR SHIPS AND PORTS MEANS ENERGY SAVING AND REDUCTION OF POLLUTANT EMISSIONS

SUSTAINABILITY IS A CONSEQUENCE OF SECURITY AND EFFICIENCY

SUSTAINABILITY IS ALSO COMPLIANCE WITH REGULATIONS (IMO)

THE EMISSIONS ASSOCIATED WITH THIS SECTOR ARE APPROXIMATELY 2.5% OF GLOBAL GREENHOUSE GAS EMISSIONS

EUROPEAN MARITIME SAFETY AGENCY (EMSA)

SHIPPING EMISSIONS COULD INCREASE BETWEEN 50% AND 250% BY 2050

INTERNATIONAL MARITIME ORGANIZATION (IMO)

GATE AUTOMATION
SECURITY AND OPERATION



LAND MOBILE RADIO
TETRA, DMR, LTE, 5G, DEDICATED AND
COOPERATING HYBRID NETWORKS



ADVANCED CONTROL ROOM
BASED ON THE CONCEPT ANYTHING,
ANYTIME, ANYWHERE



SECURITY
PERIMETERS, AREAS, BUILDING,
PEOPLE



DIGITALIZATION
PCS AND PROCESSES AUTOMATION,
FERRY AND RO-RO TERMINAL
MANAGEMENT



BORDER CONTROL
VEHICLE SCREENING AND ENTRY/EXIT
SYSTEMS FOR PAX



AI VIDEO ANALYSIS & CCTV
ACTIVE MONITORING AND
OPERATIONAL EFFICIENCY



CYBER PROTECTION
CONSULTING, IT / OT SECURITY,
INTELLIGENCE, TRAINING



DRONES
DYNAMIC SURVEILLANCE AND
OPERATIONAL SUPPORT



GREEN PORT
SCADA FOR NEXT GEN QUAYS, PLANTS
AND BUILDING, ENERGY EFFICIENCY



OTHER LEONARDO CAPABILITIES
Vessel Traffic Management, Search
and Rescue, PMIS





CCTV



DRONE



ACCESS CONTROL



WEB APPLICATION



INTRUSION DETECTION



COMMUNICATION



PERIMETER PROTECTION



AI VIDEO ANALYTICS



FIRE & SMOKE ALARM



OTHER SYSTEMS



PUBLIC ADDRESS

FULL WEB, OPEN, SCALABLE PLATFORM FOR INTEGRATED SECURITY MANAGEMENT

INTEGRATION OF A WIDE RANGE OF SYSTEMS

CUSTOMIZATION OF EVENTS, ALARMS, RESOURCES

ALL INFO ON A COMMON OPERATIONAL SCENARIO

VMS & EMPOWERING OF A.I. VIDEO ANALYSIS

EVENT CORRELATION AND INTELLIGENT ALERTING

WORKFLOW TO SUPPORT DECISIONS

INTEGRATED COMMS AND APP TO COOPERATE

FEDERATION FOR HIERARCHICAL CONTROL ROOMS

MULTIMEDIA AND SCREEN RECORDING&PLAYBACK





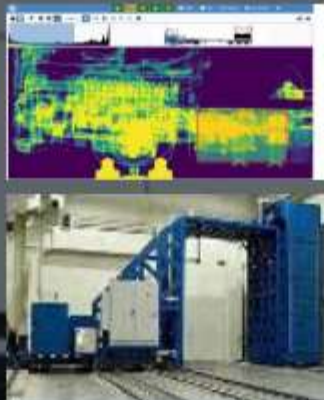
OPTIMISING BORDER SITUATIONAL WITH HIGHLY ACCURATE INTEGRATED SENSORS



Nuclear Detection Capability



X-Ray Analysis Module



Human Detection



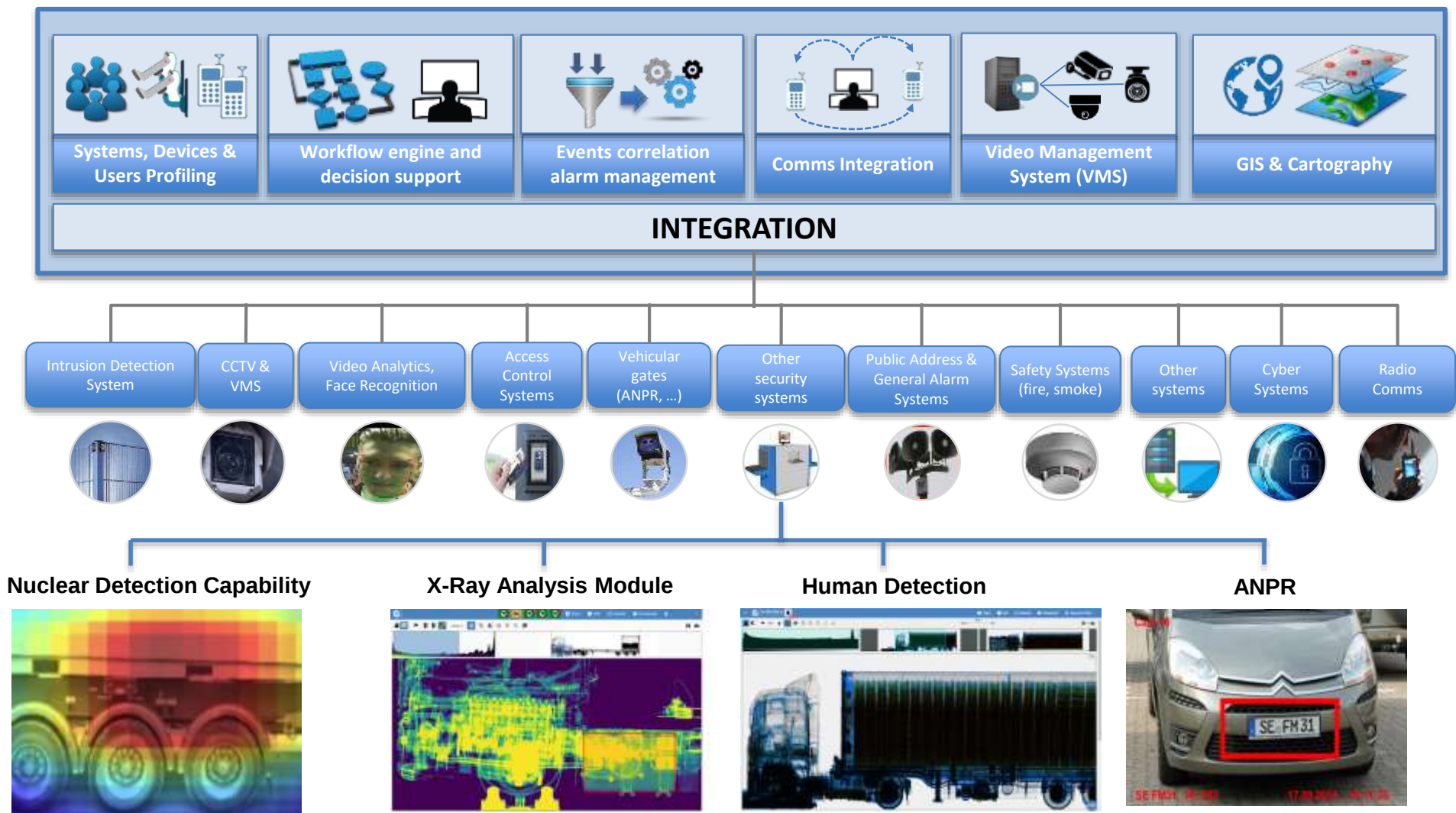
ANPR



MULTI SENSOR SECURITY CONTROLS INTEGRABLE IN OUR SECURITY INFORMATION MANAGEMENT - PARTNERSHIP WITH GLOBAL SUPPLIERS

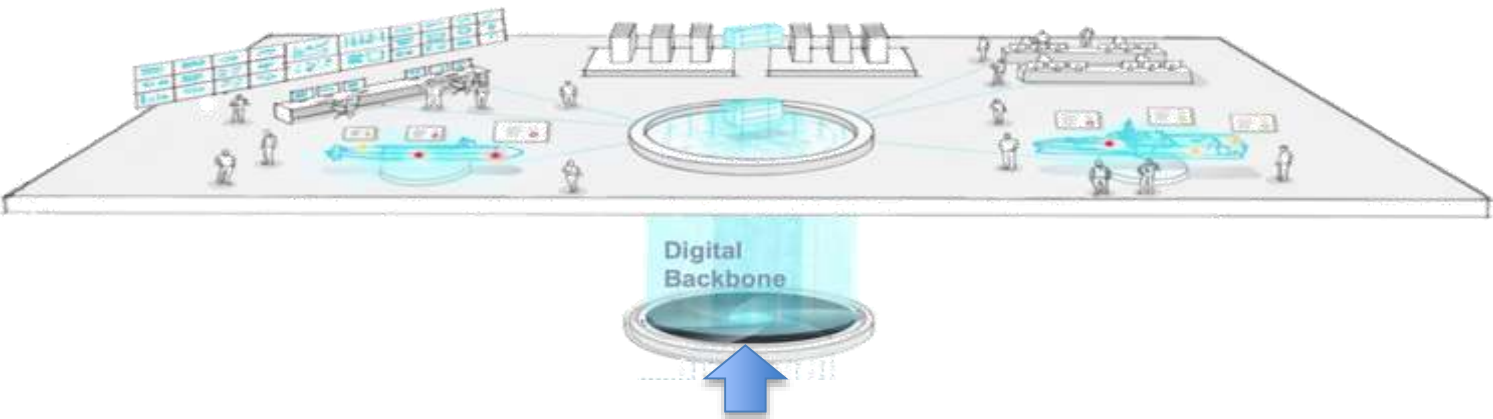
- **RADIO NUCLEAR DETECTION SOLUTION** (HANDHELD, PORTALS, WEARABLE, MOBILE)
 - IDENTIFICATION OF GAMMA AND NEUTRON DETECTION;
 - MACHINE LEARNING ENHANCED INTEGRATED THREAT DETECTION AND IDENTIFICATION
- **X-RAY SCREENING PRODUCTS** BASED ON THE OPTIMISATION OF LATEST TECHNOLOGY X-RAY GENERATION, HIGH PERFORMANCE DETECTORS AND THE MOST POWERFUL IMAGING SOFTWARE
 - CAR SCANNERS – SINGLE OR DUAL SOURCE (VIEW) X-RAY BEAMS GENERALLY UNDER 400KEV
 - MOBILE MOUNTED UNITS –X-RAY BEAMS RANGING FROM 2.5MEV TO 6MEV USED TO SCAN TRUCKS AND SHIPPING CONTAINERS
 - PORTAL UNITS - FIXED UNITS THROUGH WHICH A VEHICLE DRIVES AND IS X-RAYED.
 - GANTRY UNIT – A PORTAL MOUNTED ON RAILS TO SCAN THE WHOLE VEHICLE CAN BE SCANNED
- **HUMAN PRESENCE DETECTION** BASED ON EPOFAT SYSTEM (ELECTROMAGNETIC FIELDS OF HUMAN BEINGS)
 - HUMAN PRESENCE IDENTIFICATION IN STEEL CONTAINERS
 - NON HARMFUL TO HUMANS AND ANIMALS
 - WATCHMAN - PORTABLE AREA SECURITY SYSTEM
 - GATE GUARD- DETECTING HUMAN IN COMMERCIAL VEHICLES
 - VIRTUAL FENCE- DETECTING HUMAN ON OPEN AREA
 - BUS GUARD- DETECTING HUMAN IN THE BUS

Optimising border situational with highly accurate integrated sensors



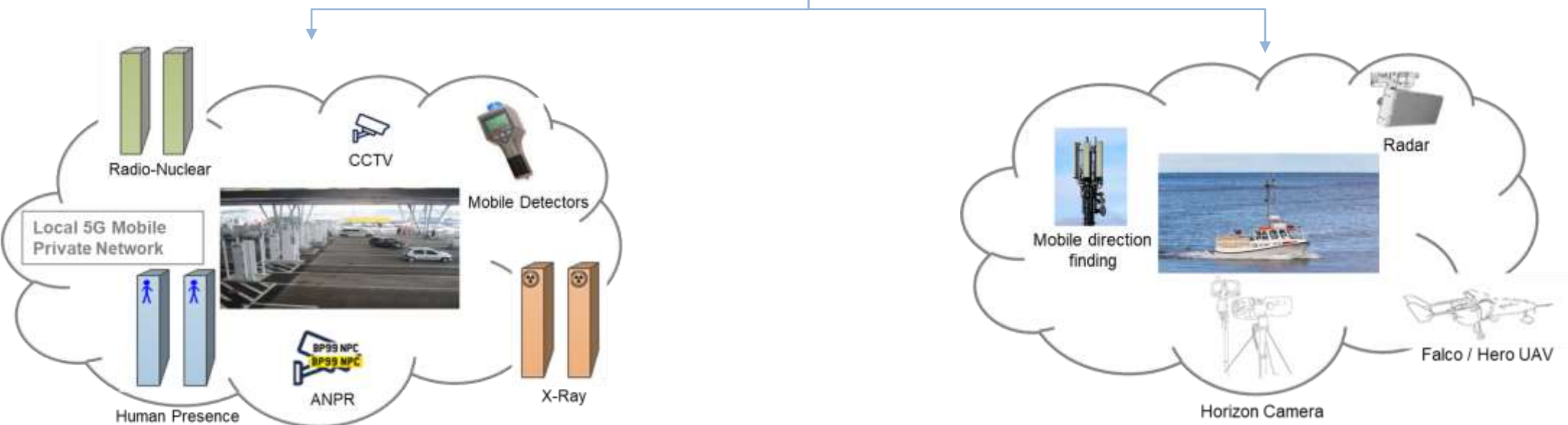
THE FUTURE VALUE IS IN FUSING THAT SENSOR DATA INTO INFORMATION – *DELIVERING INFORMATION ADVANTAGE TO BORDER AGENCIES*

‘Border Control Multi-Domain Integration’



*Data Analytics capability – generating Actionable Intelligence from sensor data
Leveraging common Cloud-Native tools and apps in Azure / AWS*

API layer is a core enabler – allowing data from sensors to be ingested into a common cloud platform





THANK YOU
FOR YOUR ATTENTION

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