

# COMPANY OVERVIEW



# PAGE EUROPA<sup>TM</sup>

TRUSTED TO DELIVER



TELECOM & SECURITY  
INTEGRATION



COMMAND &  
CONTROL



MISSION CRITICAL  
COMMUNICATION



MARITIME  
SECURITY



CYBERSECURITY



DATA CENTER

# WHO WE ARE

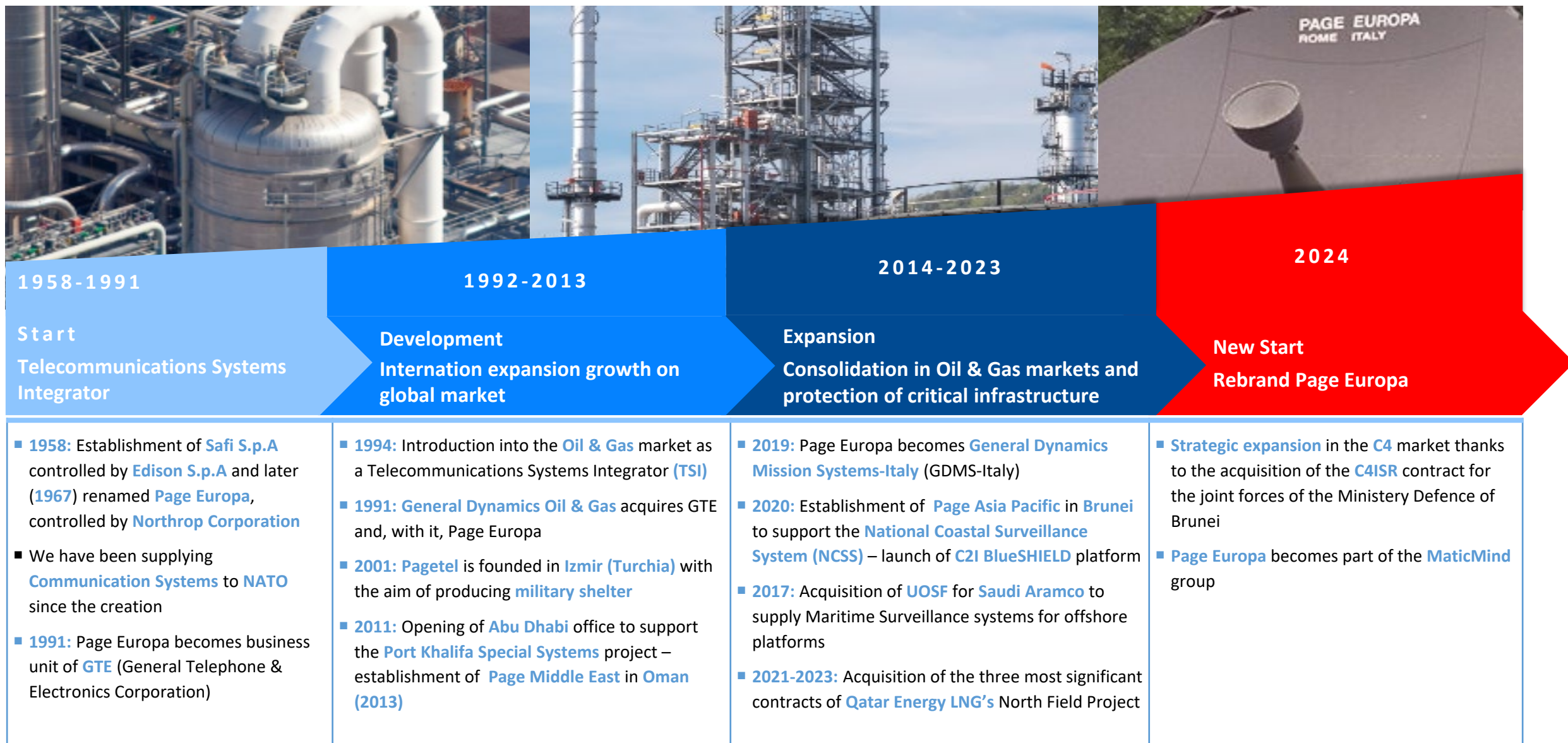


**Page Europa** specializes in the design, integration and implementation of IT, communications, security and surveillance systems in the **Energy, Defense** and **Critical Infrastructure** markets.



The company has over **65 years** of experience in providing turnkey **integrated telecommunications and security systems** globally, operating in land, maritime and mobile sectors.

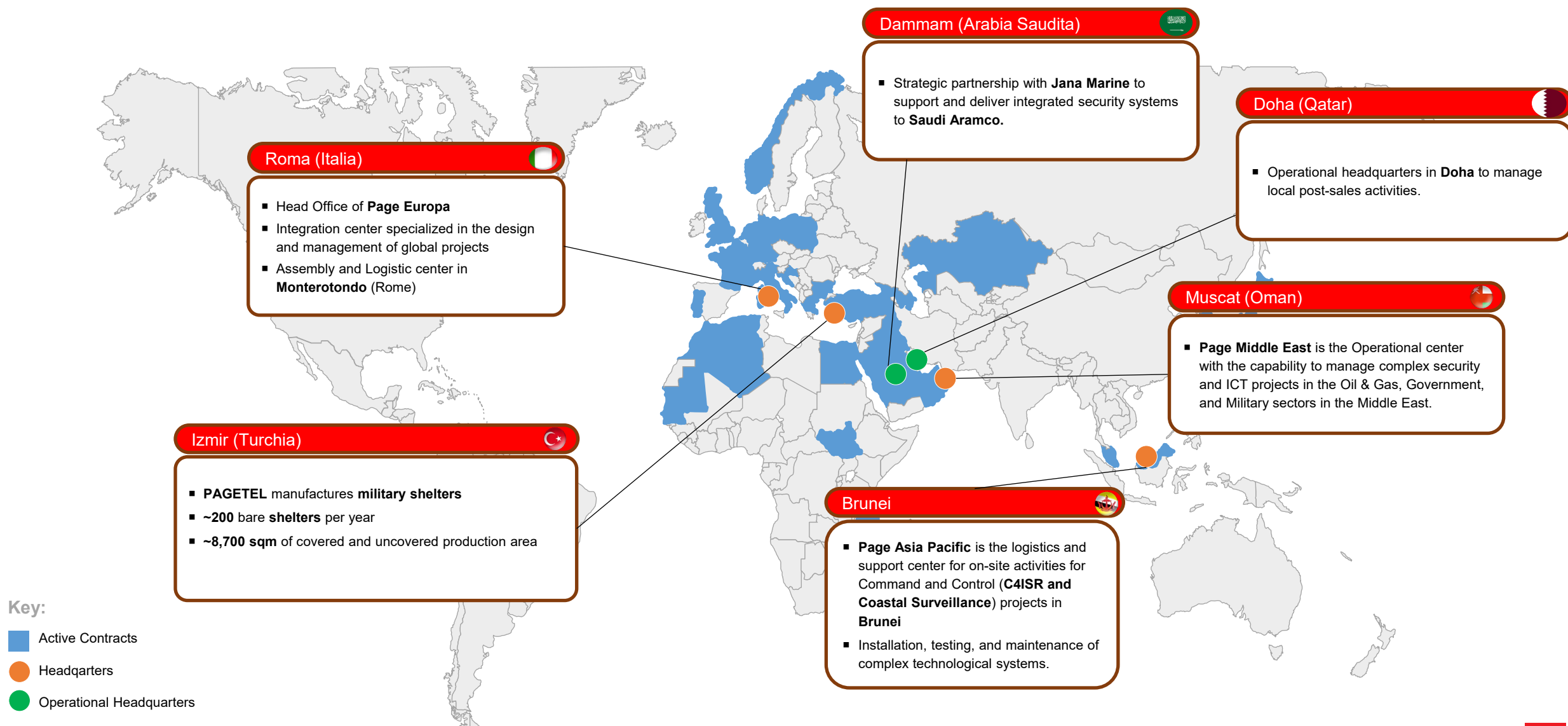
# OUR HISTORY





# WHERE WE OPERATE

Page Europa is currently engaged on projects across **Europe, Africa, the Middle East and Asia**, delivering **fully integrated solutions** in critical environments







# OUR SOLUTIONS - CUSTOM SYSTEM INTEGRATION

Key Technologies

## IT & Communications

- ✓ Optical Transport Networks
- ✓ Microwave and Radio Networks
- ✓ Space Satellite Communication Networks
- ✓ Switching Systems for Voice and Data
- ✓ Integrated Network Management Systems
- ✓ Private Mobile Radio ("PMR") Systems
- ✓ LAN/WAN Systems and Infrastructures
- ✓ Hotlines and Intercom Systems
- ✓ Operation and Supervisory Centers
- ✓ Command and Control Centers
- ✓ Fixed and Mobile Communication Infrastructures



Representative Partnerships

## Security & Surveillance

- ✓ Intrusion Detection Systems
- ✓ Border Control Systems
- ✓ Auxiliary Subsystems
- ✓ Screening and Scanning Portals / Machines
- ✓ Personnel, Crew, and Vehicle Location and Tracking Systems
- ✓ ISPS Compliant Port Security Systems
- ✓ Alarms, Monitoring, Operation, Command & Supervisory ("SCADA") Centers & Systems
- ✓ Radar systems, Sonar Systems, Long Range Detection and Assessment Systems, and CCTV Systems
- ✓ Drone and Antidrone Systems



System integration

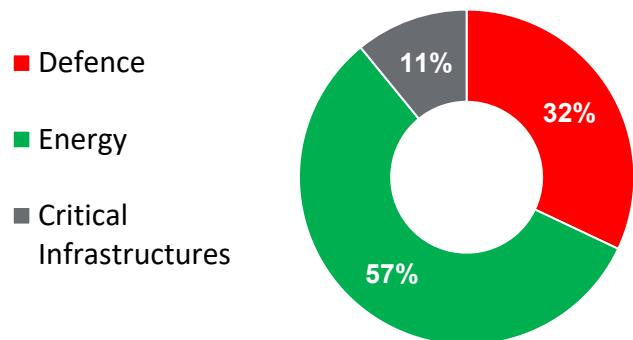


# WHO HAS CHOSEN US



Our customers are private organisations and government agencies, heterogeneous among them but all very demanding in terms of compliance with requirements, schedule, quality and security.

- We have been a NATO supplier for over 65 years
- We provide systems and services to MoDs of allied countries
- We are Approved Suppliers to the world's largest EPC companies and Energy Operators
- We have Long Term Agreements with major customers in both the energy (e.g. BP) and defence (Raytheon) sectors



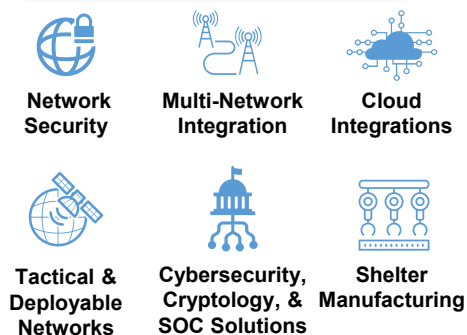


# OUR SKILLS

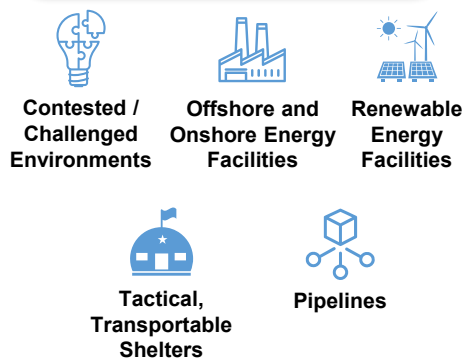
**Page Europa** manages the entire project development cycle, from the initial design phase to after sale.

## IT & Communication Systems

### Core Competencies

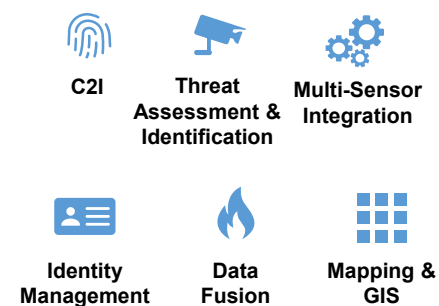


### Key Application Areas

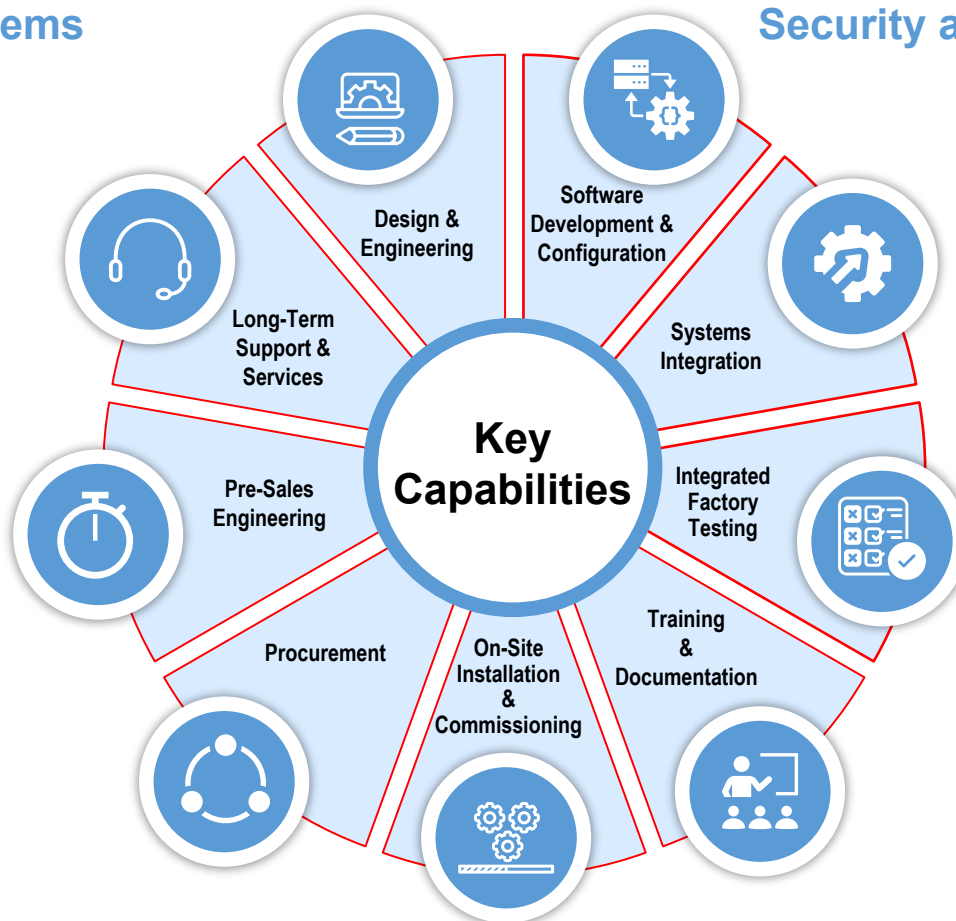


## Security and Surveillance Solutions

### Core Competencies



### Key Application Areas





# OUR CAPABILITIES IN THE OIL & GAS MARKET





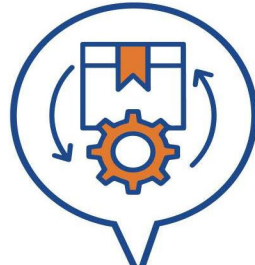


# WHAT WE DO?



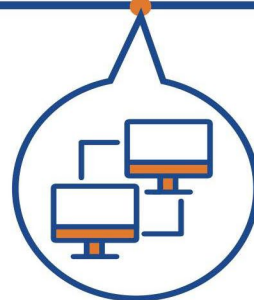
FRONT END  
ENGINEERING  
DESIGN (FEED)

DETAILED  
ENGINEERING  
DESIGN



PROJECT AND  
SUPPLY CHAIN  
MANAGEMENT

SYSTEM  
INTEGRATION



INTEGRATED  
FACTORY  
ACCEPTANCE  
TESTING

SYSTEM  
INSTALLATION &  
COMMISSIONING



SITE ACCEPTANCE  
TESTING

AS-BUILT  
DOCUMENTATION  
AND HANDOVER



AFTER SALES  
SERVICES

Deliver turnkey, full-integrated and complex Telecommunication & Security Solutions

## OUR ADDED VALUE:

- In-house experienced & field-proven engineering resources.
- Domain experts designing and engineering sub-systems
- Proven relationships with major world-class OEM.
- Delivering Vendor-Independent integrated solutions.
- “All Systems” Integrated Factory Acceptance Tests (IFAT).
- Highly developed installation, site testing, commissioning
- Tailored Training and long-term technical support





# OUR OFFER

## ENERGY Market – Typical SYSTEMS

### TELECOMMUNICATION SYSTEMS

- PAGA & Intercom
- Telephone & Hotline
- Digital Voice Recorder
- Entertainment
- Video Conference
- Fiber Monitoring & Amplification
- Telecom Network Management
- LAN WAN
- WLAN
- VSAT



### SECURITY SYSTEMS

- Process and Security CCTV
- Access Control
- Automatic Number Plate Recognition (ANPR)
- Perimeter Intrusion Detection
- Security Management
- Gate and Fence Equipment
- Long Range Detection & Assessment
- Marine Surveillance Radar
- Command and Control



### RF & TRASMISSION SYSTEMS

- UHF DMR Radio
- UHF Tetra Radio
- VHF Marine Radio
- VHF Aeronautical Radio
- Automatic Identification System (AIS)
- Crane Radio
- Lifeboat GMDSS
- Non Directional Beacon
- Microwave Radio
- SDH
- DWDM
- OTN



### POWER & MECHANICAL SYSTEMS

- Telecom Towers
- Telecom & Security Poles
- Telecom Cabinets and Shelters
- UPS and Transformers
- Power Distribution Boards
- Junction Boxes

### MARKET SPECIFIC SYSTEMS

- Bird Deterrent & Migration
- Cetacean Management
- Anti-Drone
- Maritime Monitoring
- Underwater Surveillance
- Weather Monitoring







# LATEST REFERENCES IN ENERGY MARKET

Item	Project Name	Sector	Role	Location	End User	Client	Start Date	Finish Date	Onshore/ Offshore
1	Integrated Security System Project (UOSF Phase 2)	Oil & Gas	TSI	Saudi Arabia	Saudi Aramco	JANA Marine	2023	Ongoing	Offshore
2	North Field Expansion Offshore (NFXP)	Oil & Gas	TSI	Qatar	QatarGas	McDermott	2023	Ongoing	Offshore
3	North Field East Onshore LNG Facilities (NFE)	Oil & Gas	TSI	Qatar	QatarGas	CTJV	2022	Ongoing	Onshore
4	North Field Production Sustainability Offshore & Pipeline Project (NFPS-EPCOL)	Oil & Gas	TSI	Qatar	QatarGas	Saipem	2022	2023	Offshore
5	INEOS Project ONE	Oil & Gas	TSI	Belgium	INEOS	Wood	2021	Ongoing	Onshore
6	Tilenga Project	Oil & Gas	TSI	Uganda	Total	McDermott	2021	2023	Onshore
7	National Coastal Surveillance System	Homeland Security	Main	Brunei	Prime Minister Office	Coastal Guard	2021	2022	Onshore & Offshore
8	Berri Offshore Development Project	Oil & Gas	TSI	Saudi Arabia	Saudi Aramco	SnamProgetti Saudi Arabia	2020	2022	Offshore
9	BP Tortue HUB Project	Oil & Gas	TSI	Senegal & Mauritania	BP	KBR	2019	2021	Onshore
10	BP Tortue FPSO Project	Oil & Gas	TSI	Senegal & Mauritania	BP	Technip	2019	2021	FPSO
11	Duqm Refinery Project, Package #1	Oil & Gas	TSI	Oman	Duqm Refinery Co.	Tecnicas Reunidas	2019	2021	Onshore
12	Barzan Gas Onshore Expansion Project	Oil & Gas	TSI	Qatar	RasGas	Saipem	2019	2021	Onshore
13	Khazzan CPF Phase 2 Project - Ghazeer	Oil & Gas	TSI	Oman	BP	Petrofac	2018	2020	Onshore
14	Upgrade Offshore Security Facility	Critical Infr.	TSI	KSA	Saudi Aramco	Saudi Aramco	2017	2021	Offshore
15	Jazan Refinery	Oil & Gas	TSI	KSA	Saudi Aramco	Petrofac	2017	2019	Onshore
16	Future Growth / Wellhead Pressure Mngmt Project	Oil & Gas	TSI	Kazakhstan	TCO	TCO / PJV	2016	2021	Onshore

# OUR MAJOR REFERENCES IN OIL&GAS





# TORTUE PROJECT- FPSO & HUB SENEGAL & MAURITANIA



The innovative Tortue Project is expected to produce LNG for more than 20 years, enabling Mauritania and Senegal to become a global LNG hub.

Page Europa scope of work includes Engineering, Procurement, Fabrication, Testing and Delivery of the Telecommunication and Security Systems for FPSO and HUB facilities through a multiple contract with Technip and KBR Contractors.

- ✓ Marine Radar System
- ✓ Microwave Line Of Sight (FPSO and HUB)
- ✓ Access Control System / POB
- ✓ Security Marine CCTV System
- ✓ Public Address and General Alarm System
- ✓ Trunked Radio System, VHF Marine and Aeronautical
- ✓ Automatic Identification System
- ✓ Master clock and D-GPS
- ✓ Structured Cabling System & Fibre optic cabling system

- ✓ Telephone and HotLine System
- ✓ INMARSAT Voice Back-up
- ✓ Global Maritime Distress and Safety System (GMDSS)
- ✓ Digital Voice Recorder
- ✓ Meteo Metocean Monitoring System
- ✓ Berthing Approach Aids
- ✓ Satellite System
- ✓ Data Network System
- ✓ Video Conferencing System
- ✓ Network Management System
- ✓ Non Directionnal Beacon (NDB)





# SAUDI ARAMCO – UPGRADE OF OFFSHORE SECURITY FACILITIES (UOSF)



Design, Procure, Construct and Handover to SAUDI ARAMCO a stand-alone Integrated Security Systems Platform to **support security operations** at the SAUDI ARAMCO's maritime jurisdiction

## Maritime Security Scope of Supply:

- Unified Command, Control and Intelligence System (C2I)
- Long Range Thermal Imager (LRTI)
- Marine Surveillance Radar (MSR)
- C2I
- VTMS Tracking Systems
- Switches, Servers, AIS integration equipment
- Industrial network, UPS, and support systems.

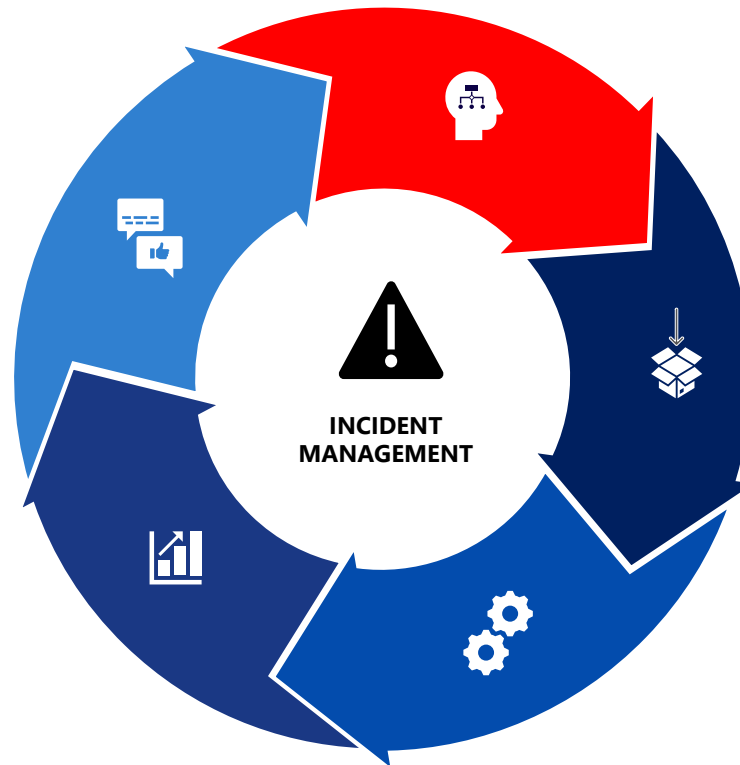


# SAUDI ARAMCO – UPGRADE OF OFFSHORE SECURITY FACILITIES (UOSF)



## CYBER SECURITY SCOPE OF WORK

- Design of the overall Cyber Security Framework and System design
- Communications interfaces and any third-party equipment or systems
- Integration with the existing Saudi Aramco Network in accordance with the Project and Saudi Aramco requirements and procedures.
- Vulnerability scanning and Acceptance Testing of new Cyber Security System



## ENGINEERING DESIGN AS PER SACS

- Anti-Malware & Firewall
- Database & Windows Protection
- Patch Management
- Identity and Access Management
- Data Encryption
- Vulnerability & Cyber Security Incident Management
- Logging, Network & Intrusion Prevention & Detection Security

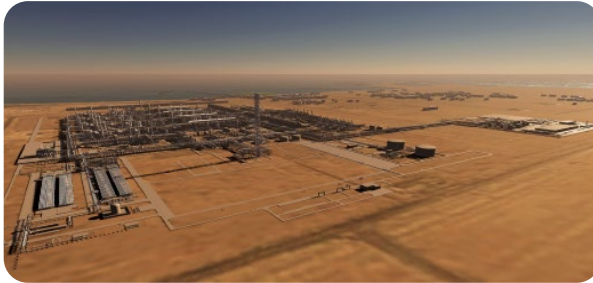
# QG NORTH FIELD EXPANSION PROGRAM



Page Europa has been awarded for multiple projects of Qatar Energy LNG Expansion

Page Europa scope of work includes the Engineering, Procurement, Fabrication, Testing, Delivery, Commissioning and Start-up of the Telecommunication and Security Systems along the onshore and offshore facilities of the following 3 major projects:

## NFE LNG Facilities



- Customer: CTJV
- End User: QATARGAS
- Contract Award Date: 2022
- Project Status: Ongoing



## NFPS-EPCOL



- Customer: SAIPEM
- End User: QATARGAS
- Contract Award Date: 2021
- Project Status: Ongoing



## NFXP Offshore



- Customer: MCDERMOTT
- End User: QATARGAS
- Contract Award Date: 2023
- Project Status: Ongoing







# MARITIME COMMAND & CONTROL

## Full-Spectrum Situational Awareness







# BlueSHIELD

Our Command and control and intelligence (C2I) system is designed to operate in a distributed, multi-site, multi-agency environment.

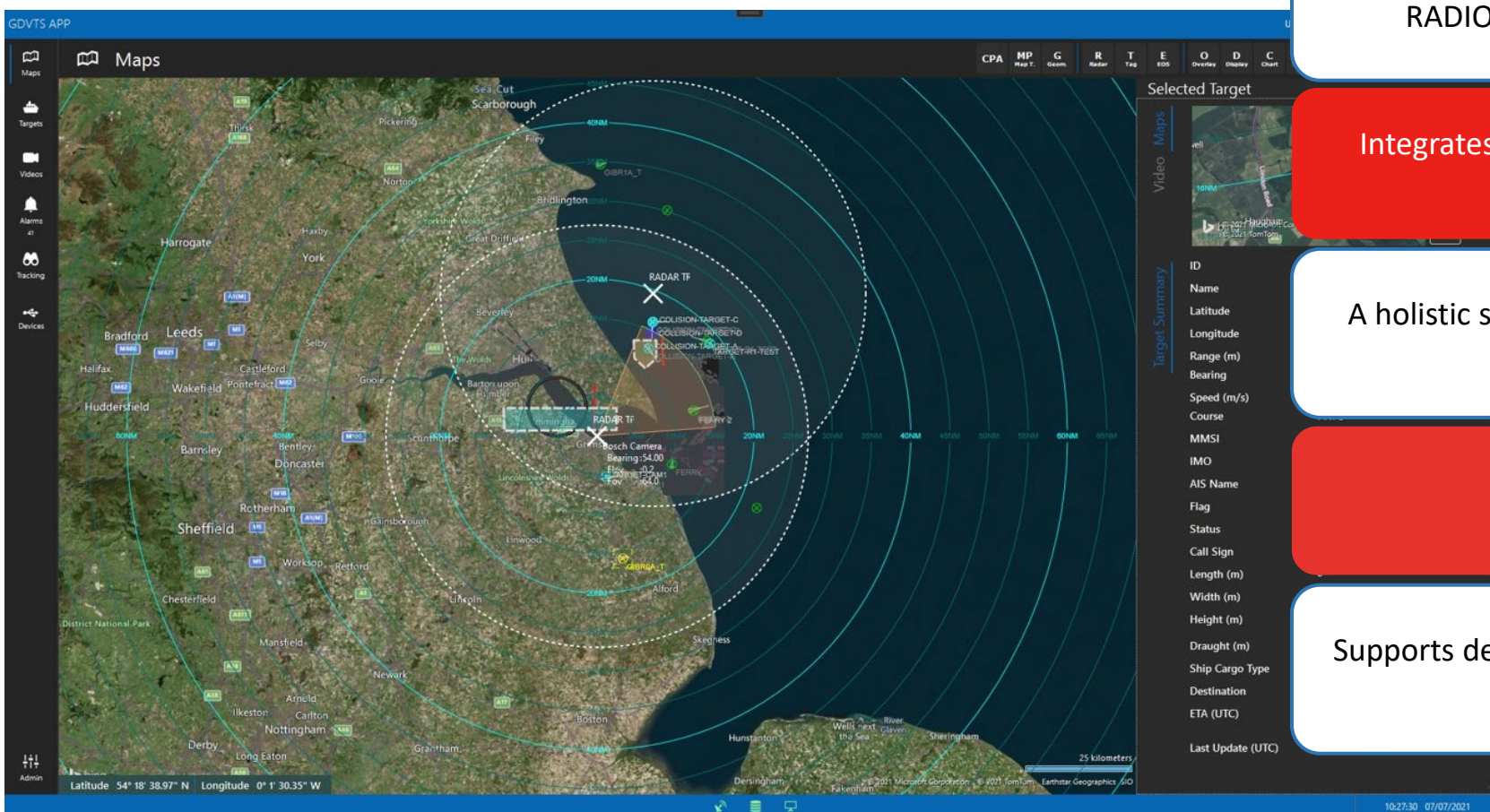
Integrated multi-sensor surveillance platform (RADARs, SONARS, RADIO Comm, AIS, Weather, Anti-Drone, Drone, etc.)

Integrates AI engine to filter and analyse data from sensors, databases or external sources.

A holistic safety tool for both Onshore and Offshore maritime infrastructure.

Common Operating Picture  
Customised user and agency profiling

Supports decision-making with machine learning algorithms for behavioural and image analysis.



## Customisable

### Open-Standard Architecture:

State-of-the-art HMI (IALA-compliant), touch, scalable and adaptable.

## Integrates heterogeneous sensors

### Extension of Surveillance Coverage:

Integration of Aerial Drones and Submarine Sensors, Infrastructure Protection in the Air, Maritime and Submarine Domains

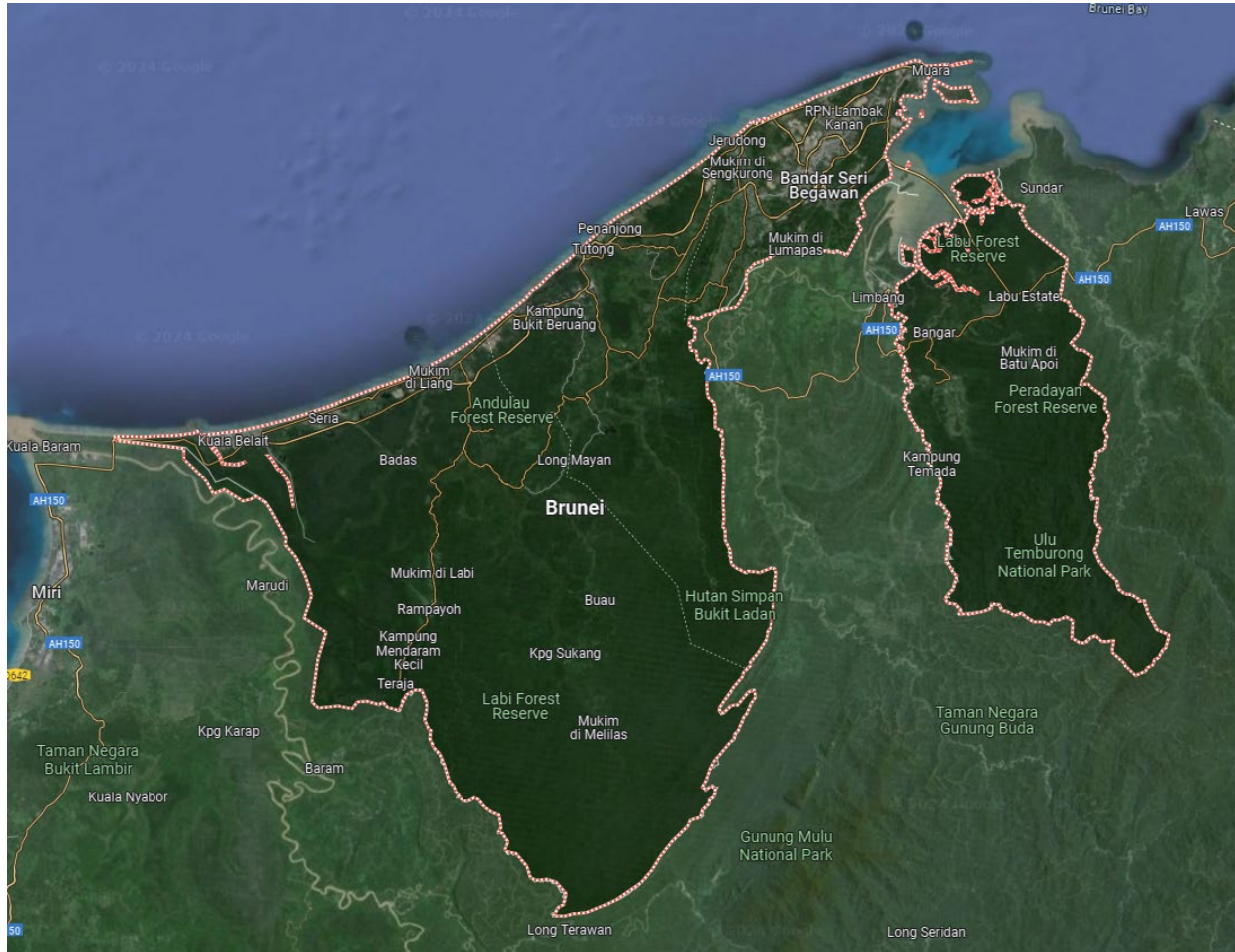




# BRUNEI NATIONAL COASTAL SURVEILLANCE SYSTEM (NCSS)



## Program Overview – New Nation-Wide level of Maritime Safety and Security



- Delivery to the Brunei Government the National Coastal Surveillance system, with the aim to protect the national waters including Off-Shore installations
- This turn-key project includes the sensors suite and the C2I platform, the erection of Radar Towers along the coast plus the renovation of Main Control building and relative infrastructure
- The NCSS provides an enhanced situational awareness improving the protection of naval forces, ports, ships and other maritime assets around the Brunei Darussalam coastline and within the EEZ.
- NCSS will be connected with relevant Brunei and international agencies' operation centers, patrol and surveillance platforms and databases both at sea and in the air with high availability on a 24/7 basis.

# DRONE SURVEILLANCE



Counter UAV System designed around your needs

## Fully Autonomous Aystem

- **Automatic detection** and alarm reporting
- **Multi-site view** with multiple sensor and target vision
- **Role-based access** with log and end-to-end encryption

## Passive Detection

- **RF Detectors:** Dedrone proprietary. Long Range passive detection and position.
- **Acoustic Detectors:** short range passive detection

## Active Detection

- **RADAR:** Long Range detection of small UAV

## PTZ Camera

- **Long Range** visible and thermal sensors
- **Target classification** with Deep Learning analytics algorithm
- **Automatic tracking**



# THANK YOU

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