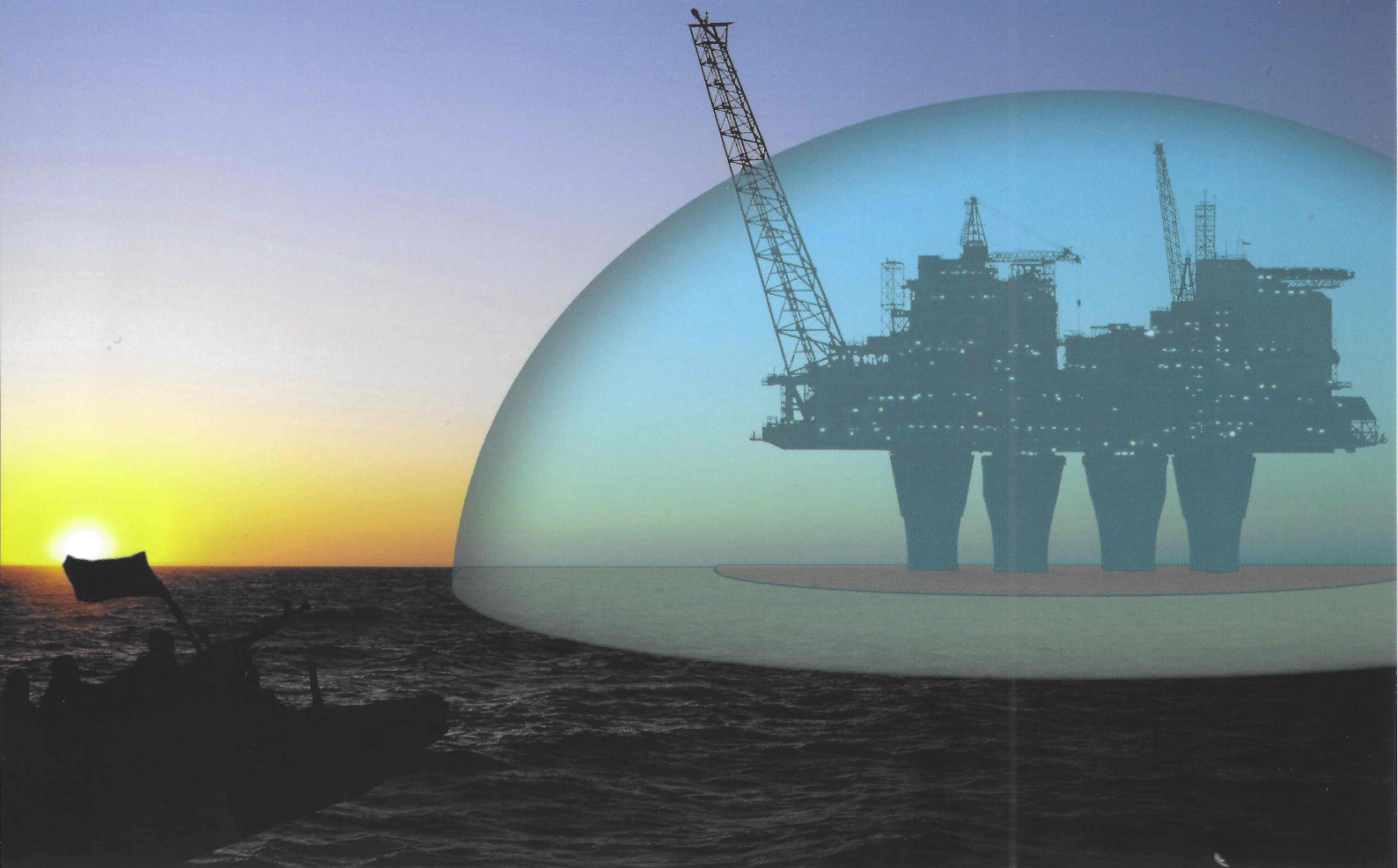


VMAS

VESSEL MONITORING & ALERT SYSTEM

EARLY THREAT DETECTION AND DECISION AIDING
to protect seafarers, cargoes, vessels
and valuable economic assets



ENHANCE SITUATIONAL AWARENESS AGAINST MARITIME THREATS

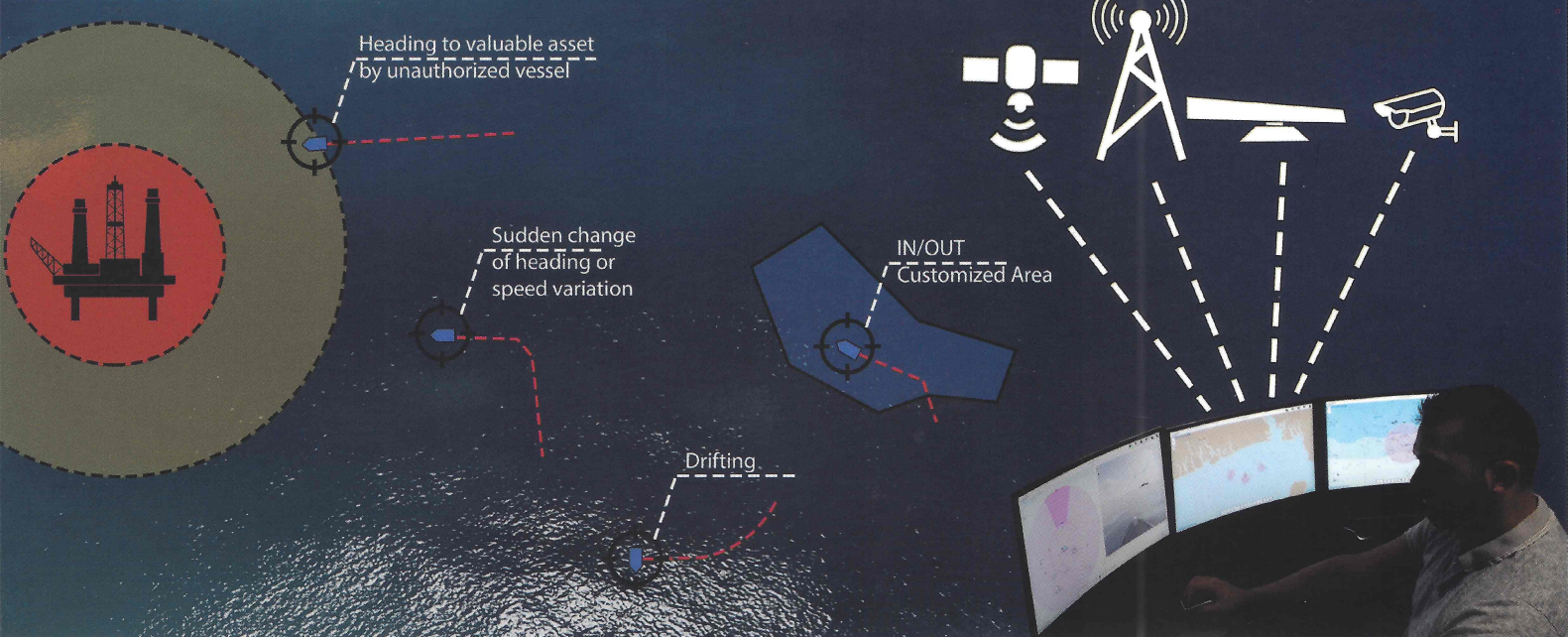
VMAS system provides an intuitive understanding of the global maritime picture. It **generates automatic and personalized alarms** regarding suspicious vessels' behaviors and situations. In addition, it grants users an easy management of security vessels and immediate access to information of interest.

VMAS is **adapted to monitor coastlines, to protect littoral and offshore activities, particularly** against **piracy** and **to struggle against illegal fishing as well as all sort of trafficking** in the most sensitive areas of the world.

Key points :

- Automatic detection of suspicious behaviors and security breaches
- Cost reduction thanks to improved operations of security vessels
- Internationally patented solution

SUSPICIOUS BEHAVIORS



Automatic & Personalized alarms



- ▶ Real-time scene analysis & alert
- ▶ Suspicious behavior detection (heading, abnormal speed variation,...)
- ▶ Personalized rules & areas
- ▶ Geographic zone customization
- ▶ Proprietary rule engine

Radar & AIS Surveillance



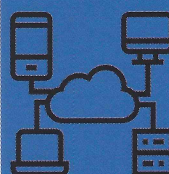
- ▶ Immediate threat localization
- ▶ Interoperability with any type of radar & sensor
- ▶ Integrated radar processing extraction & tracking
- ▶ High quality radar video display
- ▶ AIS multi receivers private network

Fleet Monitoring & Management



- ▶ Personalized & upon your need
- ▶ Management of security vessels
- ▶ Situation record & replay
- ▶ Standardized maritime maps and/or personalized maps

Web-based Client Server Architecture



- ▶ Configurable & connectable
- ▶ Multi-users secure online access
- ▶ Worldwide access from any web browser

Nigeria



Installation:
1 Maritime operation center
4 X-Band Radar
9 AIS class 5

VMAS manages all TOTAL E&P maritime activities in the Gulf of Guinea

- 10 000 square kilometers under VMAS monitoring
- 4 offshore and 1 onshore sites covered using acquisition and fusion of a dozen AIS, radar sensors & satellites
- About 100 assets daily managed and more than 500 vessels continuously monitored
- 3 months historical data storage capability for recording and replay of vessels' movements & alarms



Djibouti



Installation:
1 Maritime operation center
3 Semaphores
3 X-Band Radar
3 AIS class 5
4 remote workstations

Republic of Guinea



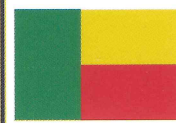
Installation:
1 Maritime operation center
2 Semaphores
1 X-Band Radar
1 S-Band Radar
2 AIS class 5

Democratic Republic of the Congo



Installation:
1 Maritime operation center
1 Semaphore
1 X-Band Radar
1 AIS class 5
3 remote workstations

Benin



Installation:
1 Maritime operation center
1 Semaphore
1 X-Band Radar
1 AIS class 5



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