

# Using coastal support and technology to support the fleet

Technology oriented capability development in coastal monitoring







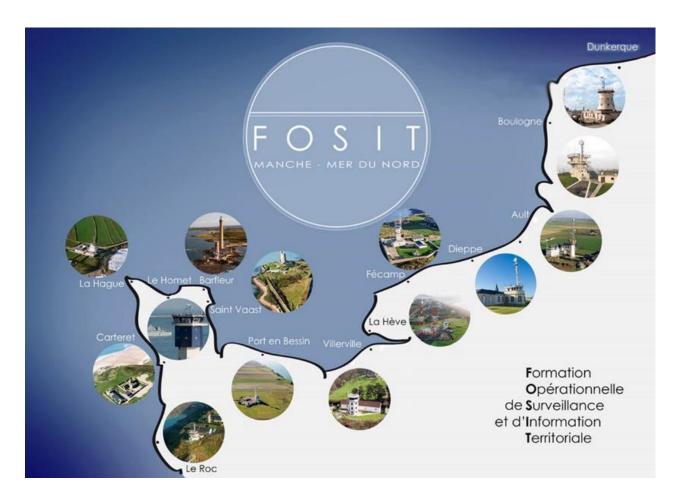
# Maritime surveillance in the Channel – a French perspective



Liberté Égalité Fraternité











### Maritime surveillance in the Channel – a French perspective



# 14 semaphores



## **Primary missions:**

- 24/7/365 surveillance (RADAR, VHF, optical...);
- Maritime Domain Awareness
- general maritime monitoring missions



## **Secondary missions:**

SAR, vessel traffic monitoring, fisheries surveillance, cultural artefact protection (wrecks...), protected marine areas surveillance...





#### Maritime surveillance in the Channel – the status quo



# A two pronged approach:









- surveillance at sea (vessels / aircrafts).









### Maritime surveillance in the Channel – key development areas

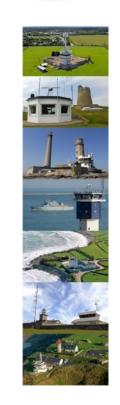


# A technology driven capability development effort:



# Key additional capacities in development:

- Drones (consumer grade) + MILSPEC SUAS;
- -EO/IR systems;
  - -Next gen. digital RADAR;
  - -(New) mobile semaphore system;
  - -Al...





#### Maritime surveillance in the Channel – key development areas





Égalité

# **Centralised / program driven :**

- -Large scale projects / long term investments;
- -Standardised systems;
- -Top down.



# Decentralised / innovation / partnership driven :

- Win-win industry-navy partnerships;
- « One shot » deployment;
- Very short capacity building timing.







## Maritime surveillance in the Channel – key development areas















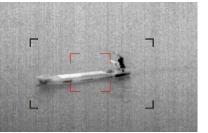














# Maritime surveillance in the Channel – the way forward Current + future acquisition plan:







- ☐ Consumer grade quadcopters : atm = ANAFI USA;
- ☐ Target: +/- 20 machines (6 remaining for initial target);



- Initial MILSPEC SUAS capability:
  - ☐ 2 SURVEYCOPTER ALIACA (SMDM) systems ordered;
- Under consideration : COTS VTOL
  - ☐ compatible with FR regulatory framework;
  - ☐ Able to operate from populated areas & small take off/landing zones.





#### Maritime surveillance in the Channel – done focus



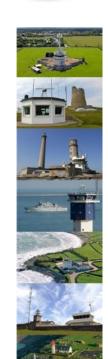


## Coastal drone capacity building:

- a few years in development;
- most semaphores equipped w/ consumer grade drones;
- limited additional recon capability.



- SMDM (Navy mini drone system) = Survey copter ALIACA;
- Channel and North Sea deployment upcoming;
- HR costs VS operational capability gain;
- □ worthy investment!





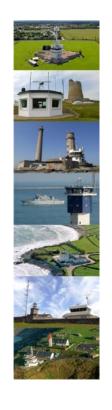


#### **Maritime surveillance in the Channel – SMDM**











#### **Opportunities for industry input**



# Program & partnership driven:



- -FOSIT Channel & North Sea = testing grounds;
- □ VTOL drone programs;
- □EO/IR camera programs;
- □ Payloads (RADAR, cameras, EW…)



Short cycle innovation and capability enhancement





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Thank you for your attention.

