



EUROPEAN UNION  
SATELLITE CENTRE

Analysis for decision making

# SatCen in EUCISE2020 and beyond

EUCISE2020 Final Conference  
27 Mar 2019  
Brussels, Belgium

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# Who We Are



Agency of the Council of the EU



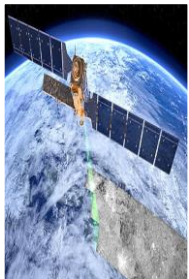
CFSP/CSDP



HQ in Torrejón de Ardoz, Spain



Council Decision 2014/401/CFSP

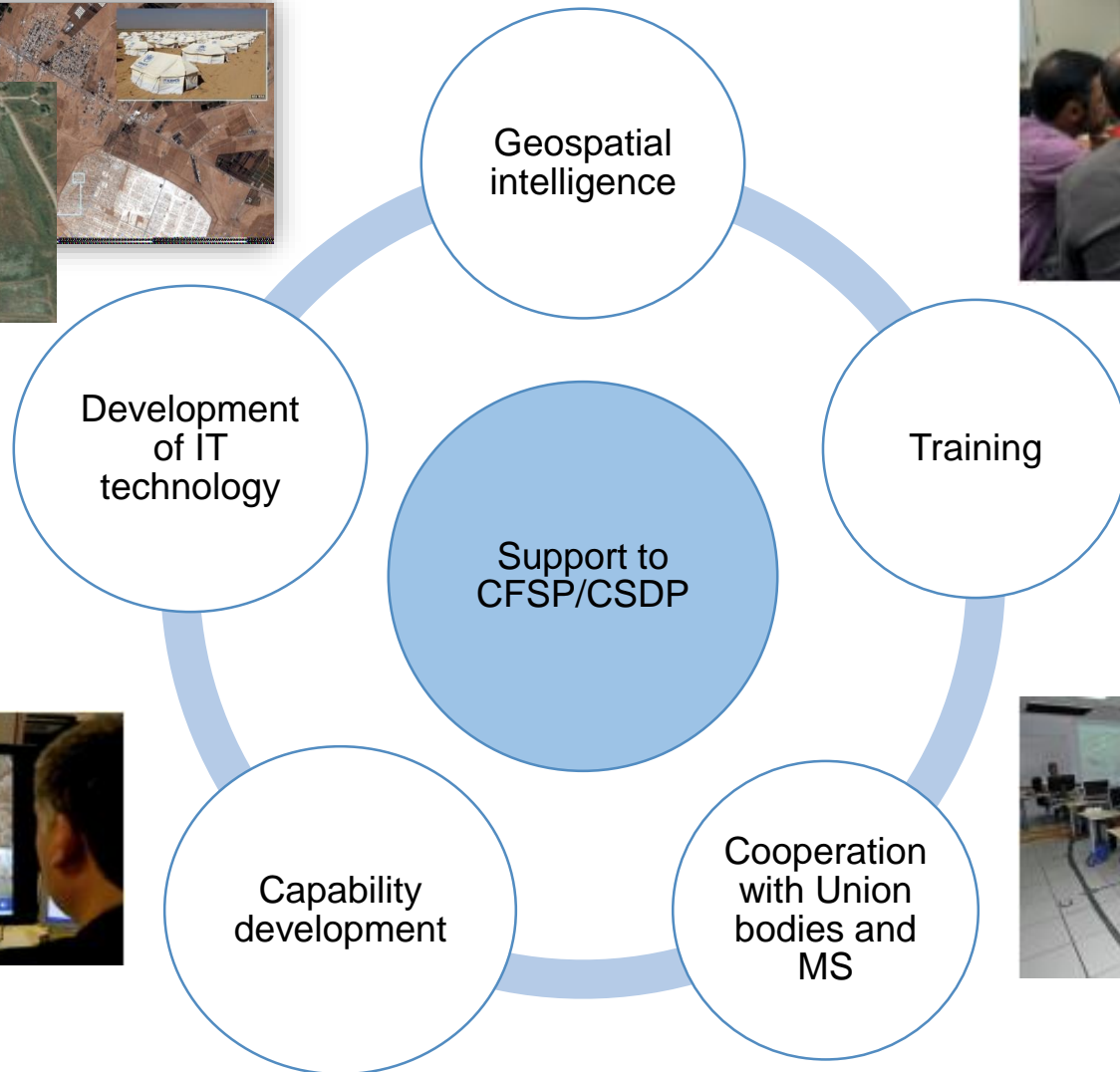


EO Satellite Data – secure context



GEOINT Service Provider, 24/7 availability

# Activities



# Products and Services

Input

- Optical imagery*
- SAR complex analysis*
- DEM*
- Thermal data*
- Full Motion Video*
- Maps/Vectors*
- 3D modeling*
- Volume extraction*
- Collateral Data Analysis*
- OSINF integration*

Designed for digital use Suitable for hardcopy

IMINT Products

QuickRep    First Impression Reports    Briefing Notes    Reports    Studies

GEOINT Products

GIS    Web Map Services    Copernicus Service to SEA

+ Training, RTDI, SST Services



# Sensors

## EU Sensors



Sentinel-1



Sentinel-2



Sentinel-3

## Governmental

Hélios II



COSMO  
SkyMed



SARLupe



## Commercial



RapidEye



Spot 5



Spot 6-7



Deimos 1



Deimos 2



Eros A-B



TerraBella



Kompsat 3



TerraSAR-X



COSMO  
SkyMed



Pleiades



GeoEye



WV 1



WV 2



WV 3



WV 4

# Current Engagements



Operations



Regional Conflicts



Piracy



Migration



Proliferation  
WMD



Disasters  
Humanitarian Aid

# Copernicus

COPERNICUS – a multi-component system



Copernicus

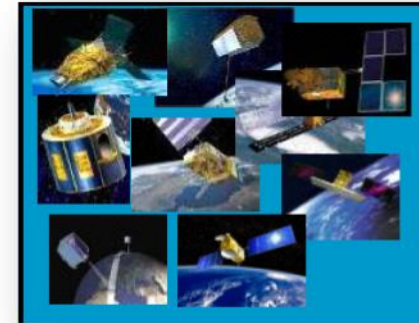
Space-based



Sentinels



6 services use Earth Observation data to deliver timely and reliable geo-information



Contributing missions









...added-value products



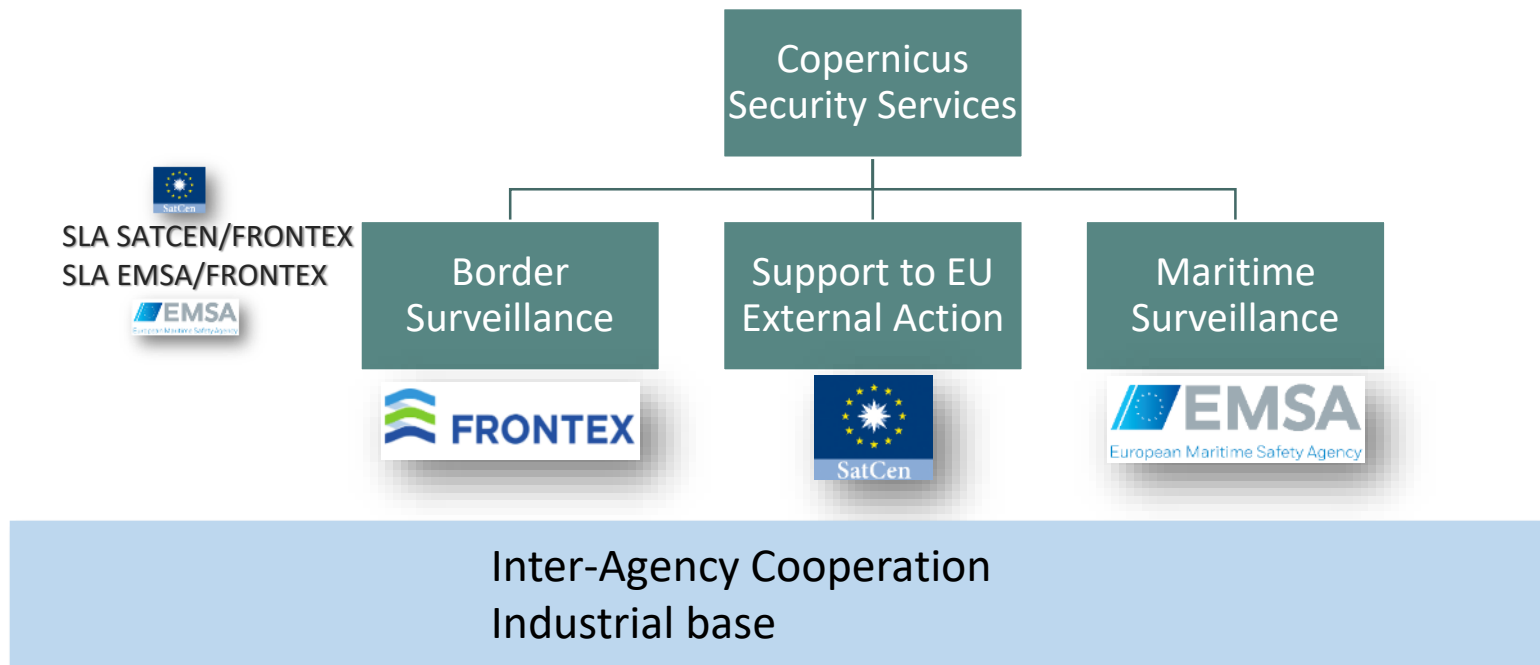
ground-based

in-situ

-  Atmosphere Monitoring
-  Marine Environment Monitoring
-  Land Monitoring
-  Climate Change
-  Emergency Management
-  Security



# Copernicus – Security Services



- Synergies (services & agencies).
- Common view on development.
- Share future projection.
- User Access to services.

# Capability Delivery – Delegated Operations - SEA

## SEA Service Evolution



### Evolution:

- New products progressively integrated into the portfolio (in full coordination with Commission and Users)

### New tools and methodologies:

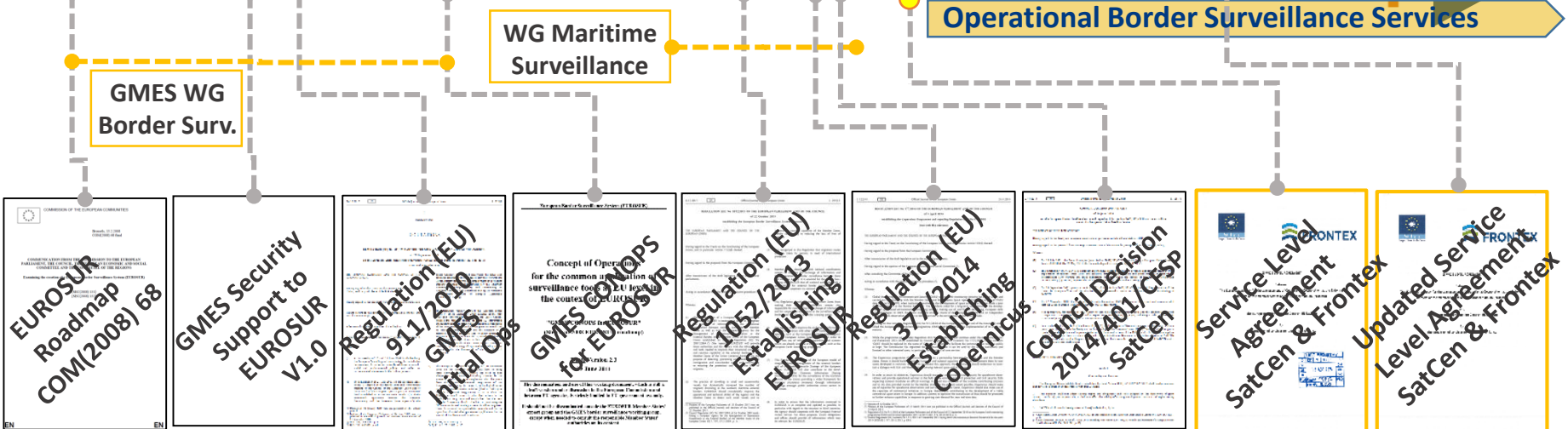
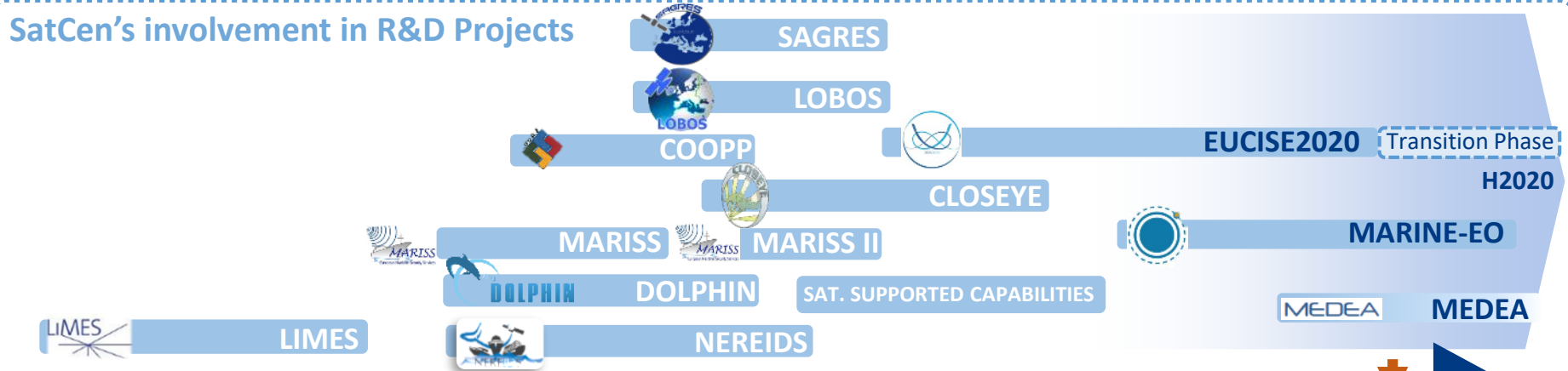
- Improvement of methods, infrastructure, workflow (e.g. Users' portal)

### Support from Industry:



# SatCen's involvement in Border & Maritime Surveillance

## SatCen's involvement in R&D Projects



## Milestones



# MARSUR

Since 2008, SatCen has been participating in MARSUR at working level within the context of its cooperation with EDA

SatCen's membership of MARSUR foresees the possibility to provide information on a voluntary basis.

SatCen, by joining the MARSUR Users network, gains the possibility to request and have access to maritime information directly from Member States's Navies, useful for the IMINT and GEOINT analysis.

This activity responds to the objective of the EU Maritime Security Strategy, aiming to secure the EU's maritime security interests against risks and threats in the global maritime domain.



**31 May 2017**

**Captain (Navy) Dr. Joerg Hillmann, MARSUR  
Management Group Chair and SatCen Director Pascal  
Legai during the signature of MARSUR Technical  
Arrangement**

# SatCen support to CISE

- **Integrated Maritime Policy (IMP) 2007**
- **Communication CISE {SEC(2009) 1341}**
- **Communication on roadmap towards establishing CISE**  
- **COM(2010) 584**
- **SatCen supports BLUEMASSMED Project 2010**
- **SatCen joins TAG January 2011**
- SatCen part of TAG (Technical Advisory Group) to support the development of the Common Information Sharing Environment (CISE) roadmap for the surveillance of the EU maritime domain
- **SatCen part of COOP Project 2013/2014**
- **SatCen part of EUCISE2020 December 2014 - present**

# European Union Maritime Security Strategy

## Council conclusions on the revision of the European Union Maritime Security Strategy (EUMSS) Action Plan

Action No.	Action	Lead Actor/Horizon
<b>MARITIME AWARENESS</b>		
A.2.1	Promote a coherent regime for maritime surveillance across the EU by fostering better complementarity of information exchange between EU agencies, between EU agencies and Member State authorities, and between Member State authorities themselves. This regime should be built upon existing mandatory systems in Union law and voluntary initiatives such as the Common Information Sharing Environment (CISE), and should be in line with the relevant legal framework, including the Directive on security of network and information systems (NIS Directive).	MS, COM, EEAS, EBCGA, EFCA, EMSA, SatCen By 2020
A.2.2	Promote and implement by 2020 the Common Information Sharing Environment (CISE) enabling enhanced interconnection and exchange of classified and non-classified information between civil and military authorities, across sectors and across borders, in line with existing EU mandatory systems and taking into account voluntary, sectoral and cross-border initiatives. Support in that regard the necessary uptake and consolidation of the CISE at EU and Member State level, taking into account, as appropriate, interoperability solutions and the information sharing network tested in the Pre-Operational Validation project EUCISE2020, and including a potential transition period.	MS, COM, EEAS, EDA, EBCGA, EFCA, EMSA, SatCen By 2020

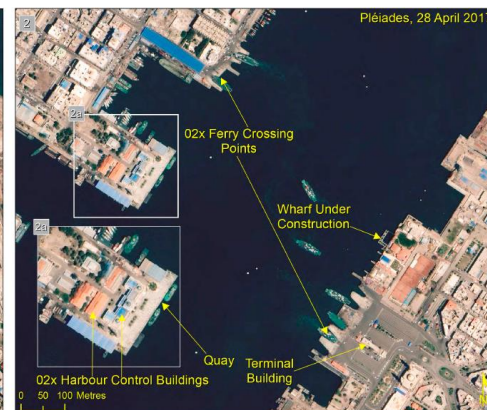
*Better complementarity of information exchange between EU agencies and Member states authorities .*

*Enhanced interconnection and exchange of classified and non-classified information between civil and military authorities.*

# Conclusion

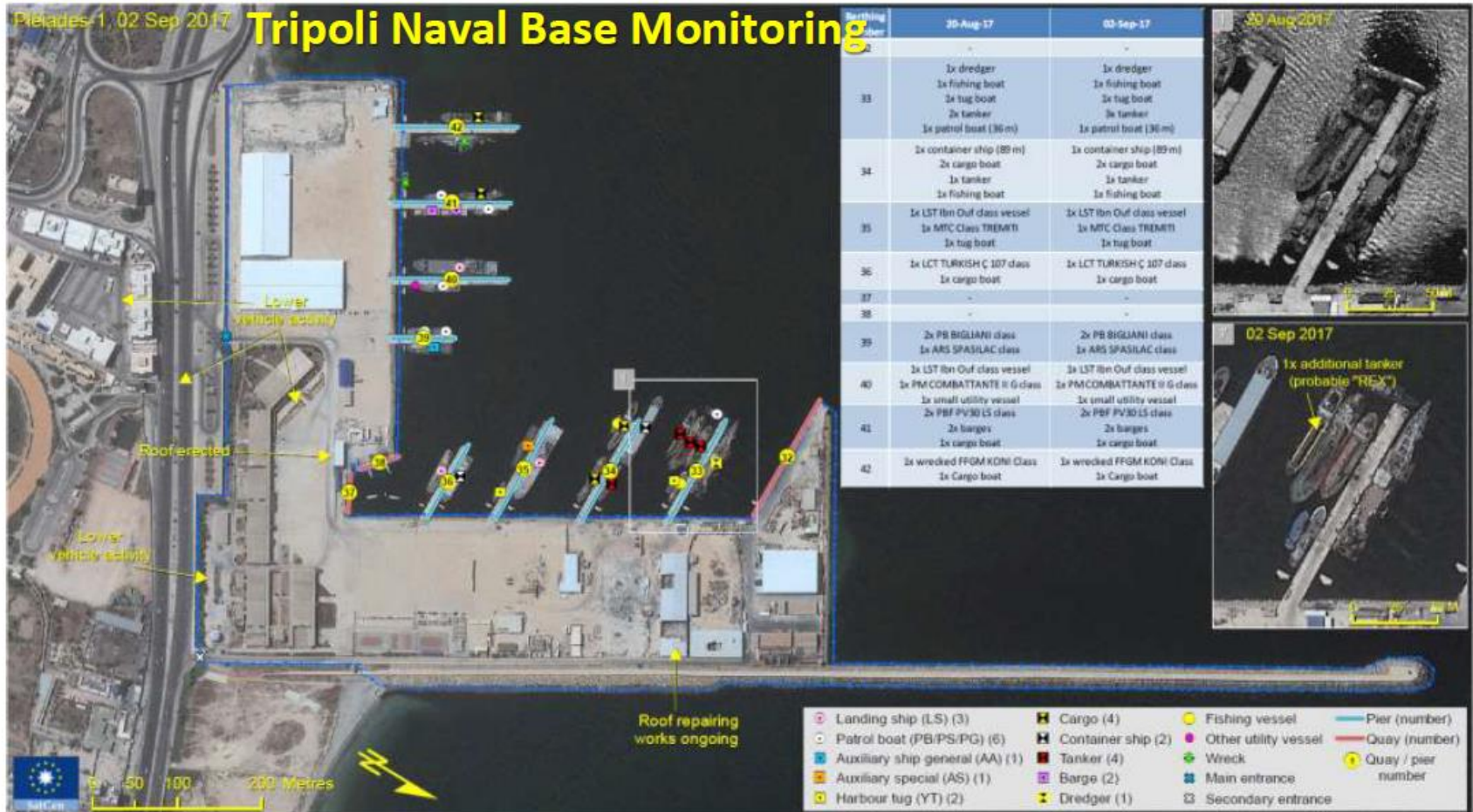
- SatCen is the only EU Agency partner of EU CISE project
- SatCen had an active participation in the development of CISE
- SatCen owns a part of the IPR's – as EU CISE partner
- SatCen is willing to continue to support CISE's further development and actively participate in the transition phase
  
- Satellite Services are crucial for maritime surveillance activities, based on SatCen know how in GEOINT we can further develop these services and provide them through CISE
- Better knowledge of maritime situational awareness from CISE access can improve GEOINT services provided by SatCen to its users on Coastal and Maritime areas of interest.

# Products - GeoINT

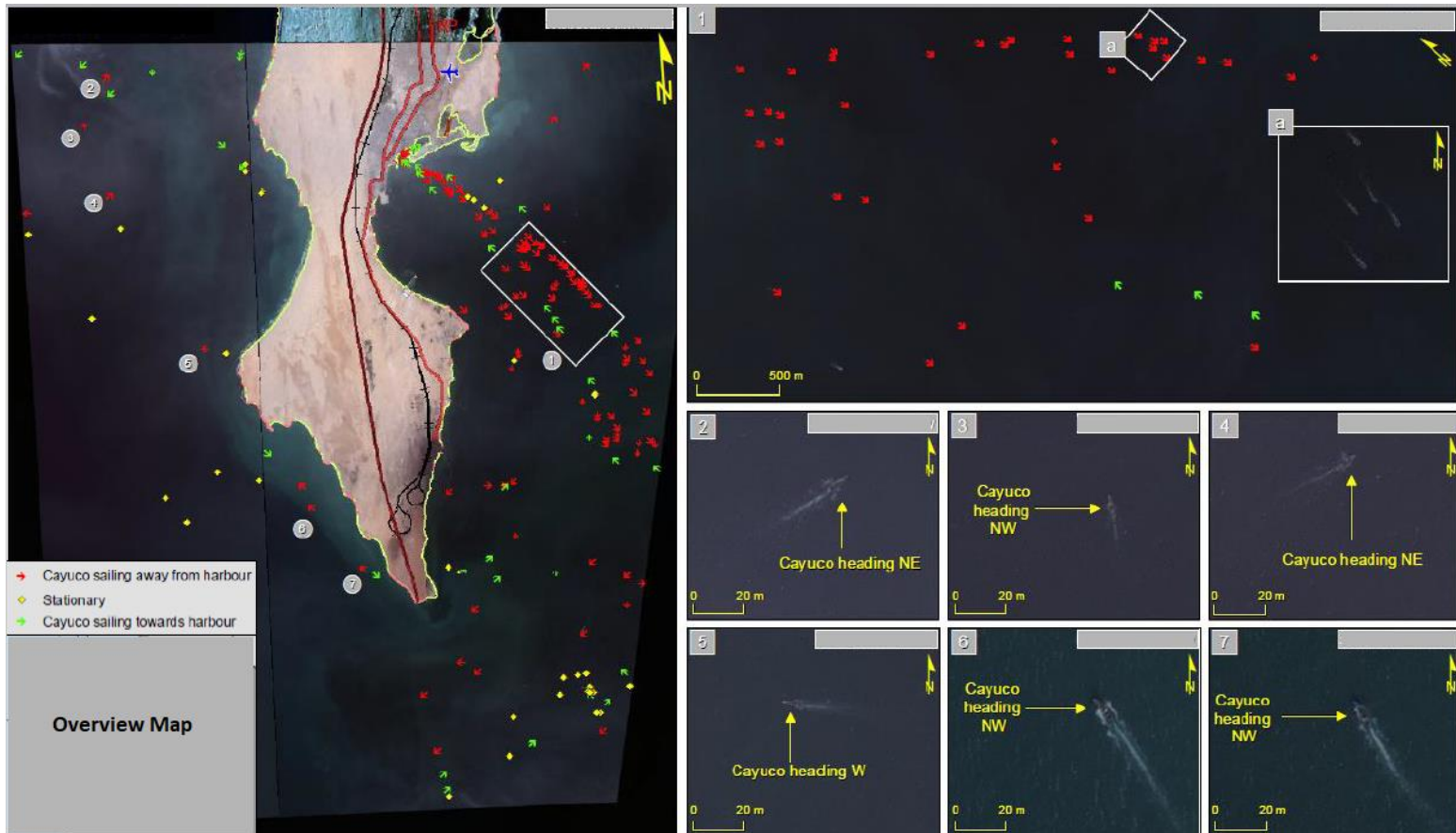


# Naval base monitoring

## Support to EU NAVFOR MED SOPHIA



# Analysing activity of small vessels



# IMINT - Vessels in ports





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