



**CRIMARIO II**  
INTERCONNECTING  
THE INDO-PACIFIC

# IORIS Operationalisation

**24 October 2023**

**By Martin Cauchi Inglott  
Project Director**

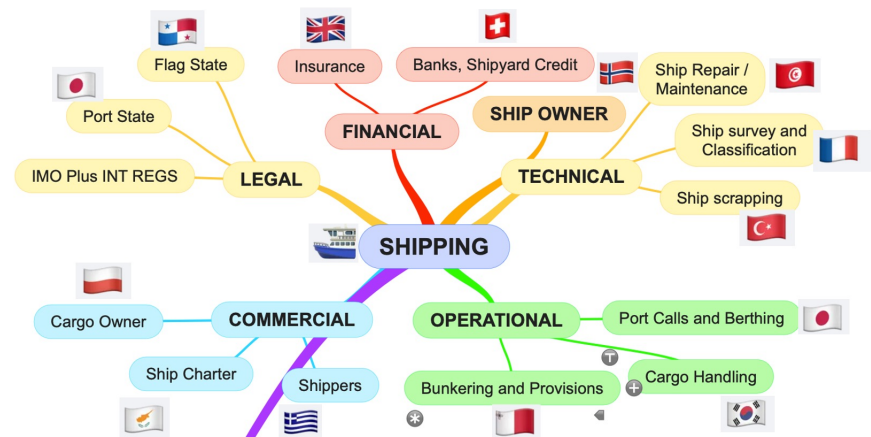


CRIMARIO II, part of the Critical Maritime Routes Programme,  
is an European Union initiative implemented by Expertise France





- Importance of **WHY** need to exchange information
  - Maritime threats and challenges know no borders ...
  - Prevent / deal with incidents;
  - Support friends and partners deal with difficult situations
- Issue: **HOW** we exchange information!
- Challenge 1 – Change Culture / Mindset
  - Build trust and confidence
  - Move from one of a “need to know”
    - To “responsibility to share”
- Challenge 2 – Buy-in
  - High level Political / Military buy-in
  - Implementation - operational level
- Challenge 3 – Language
- Challenge 4 – Int. Complexity of Shipping





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# INFO-EXCHANGE PLATFORM

## INTEGRATED FUNCTIONALITIES

### COORDINATION



Advanced mapping  
+ vessel intercept



Documents  
and forms

### COMMUNICATIONS



Messaging,  
chat and alerts



Voice  
communication

# IORIS

MARITIME OPERATIONAL  
COORDINATION  
& COMMUNICATIONS  
PLATFORM

## DEDICATED AREAS ADAPTABLE TO:

INTER-REGIONAL LEVEL  
(eg. Country 1, Country 2, Country 3)



NATIONAL AGENCIES  
(eg. Customs, Coast Guard, Navy,  
Fishery, Police, etc.)



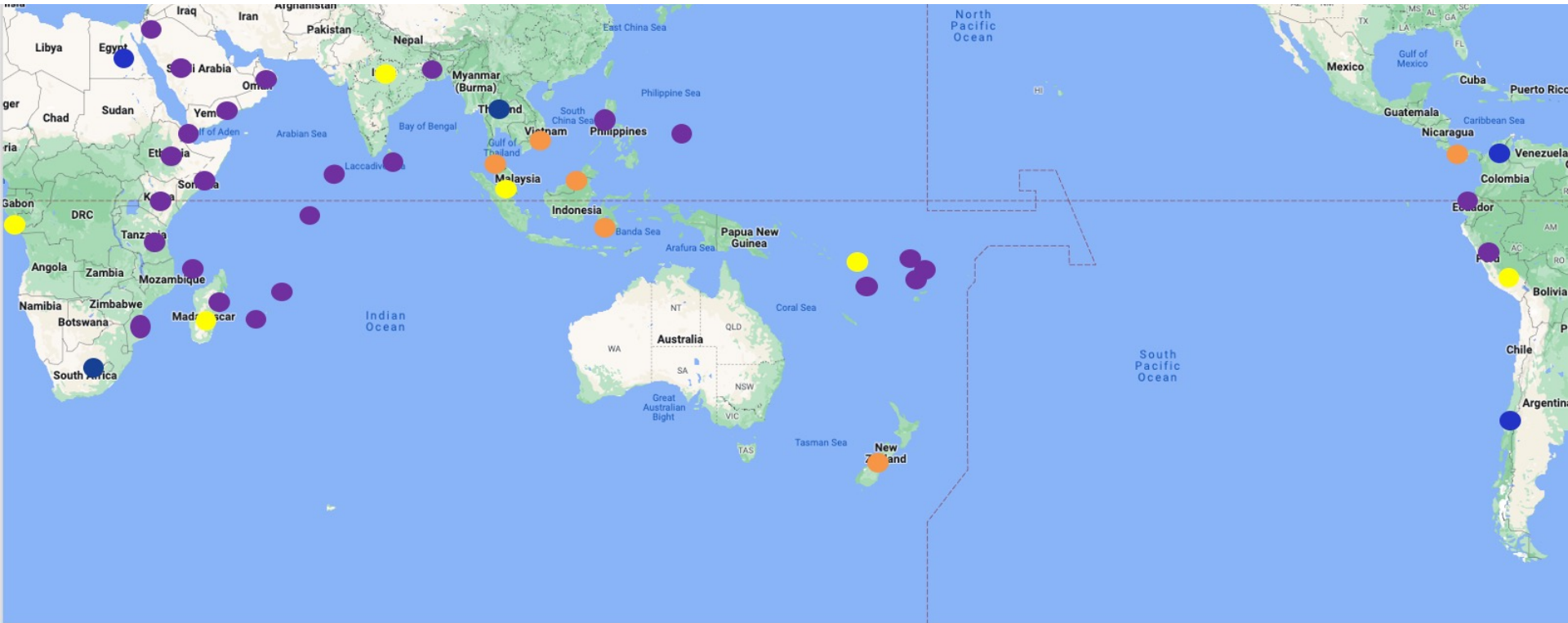
MULTIPLE DOMAINS  
(eg. pollution control, illegal fishing, drug trafficking)



**Neutral / Secure / Web-based / Vessel / Virtual Operations Centre**



- **Common trusted platform**
  - Regionally Governed
  - Neutral and Secure
  - Users decide what to share and when
  
- **Cost-effective Solution**
  - Instead of the agencies in some 40 plus countries / 90 plus agencies
    - developing own independent system,
      - Euro 2 million each
  
- **Harmonisation of System**
  - Instead of over 90 different and independent systems
    - Need to interconnect with each-other
      - High IT development costs
  
- **Common Maritime Operational picture**
  - Integrating Command, Communication, Coordination (C3)



- IORIS User / Trained
- Awaiting IORIS Training
- In discussion
- SHARE.IT

Others IORIS Trained Users:





Regional Map Q 21%

Cursor position: 18.45855 / 59.48181  
Leaflet | © OpenStreetMap contributors, © Oceanwise.eu, Not to be used for navigation

Messages Forms Documents Active Users Markers

Add New Message
Export messages
Show All
en
Search | Filter Q

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**Hazardous Cargo Warning** en

**EU CRIMARIO** (Glen Forbes - IORIS Coordinator) 2022-06-26 09:48:55 UTC

MRCR Nonsuch reports possible sighting of hazardous cargo vessel may have caused an oil spill following failure to alter course towards reefs off Mauritius. More details to be posted when known. en

**Translation:** MRCR نونسوك أبلغ برؤية محتملة لسفينة شحن خطرة قد تسببت في تسرب نفطي بعد الفشل في تغيير المسار نحو الشعاب المرجانية قبالة موريشيوس. سيتم نشر المزيد من التفاصيل عندما تكون معروفة.

*Disclaimer: Translations should not be used to make strategic decisions*

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**New marker added - Tag Name - : Cargo suspicious** en

**EU CRIMARIO** (Glen Forbes - IORIS Coordinator) 2022-06-26 09:16:25 UTC

Cargo suspicious Added By Glen Forbes - IORIS Coordinator en

Suspect vessel last sighted heading towards Maldives.  
\*\*\*\*\*Marker Data Start

Marker Source Type: Collaboration Center Markers  
Marker Type: Ship of Interest  
Longitude: 52.9824686050415  
Latitude: 7.50228055747977  
Heading: 090°  
Speed: 15  
Time of fix: 2022-06-26 10:16 UTC  
Radius:0M  
\*\*\*\*\*Marker Data End\*\*\*\*\*

**Translation:** البضائع التي أضيفت من قبل غلين فوربس - منسق آخر مرة شوهدت فيها سفينة مشبوهة متجهة نحو جزر المالديف.

*Disclaimer: Translations should not be used to make strategic decisions*

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**Marker has been archived** en

**BCN** (Neil Smith) 2022-06-24 15:49:35 UTC

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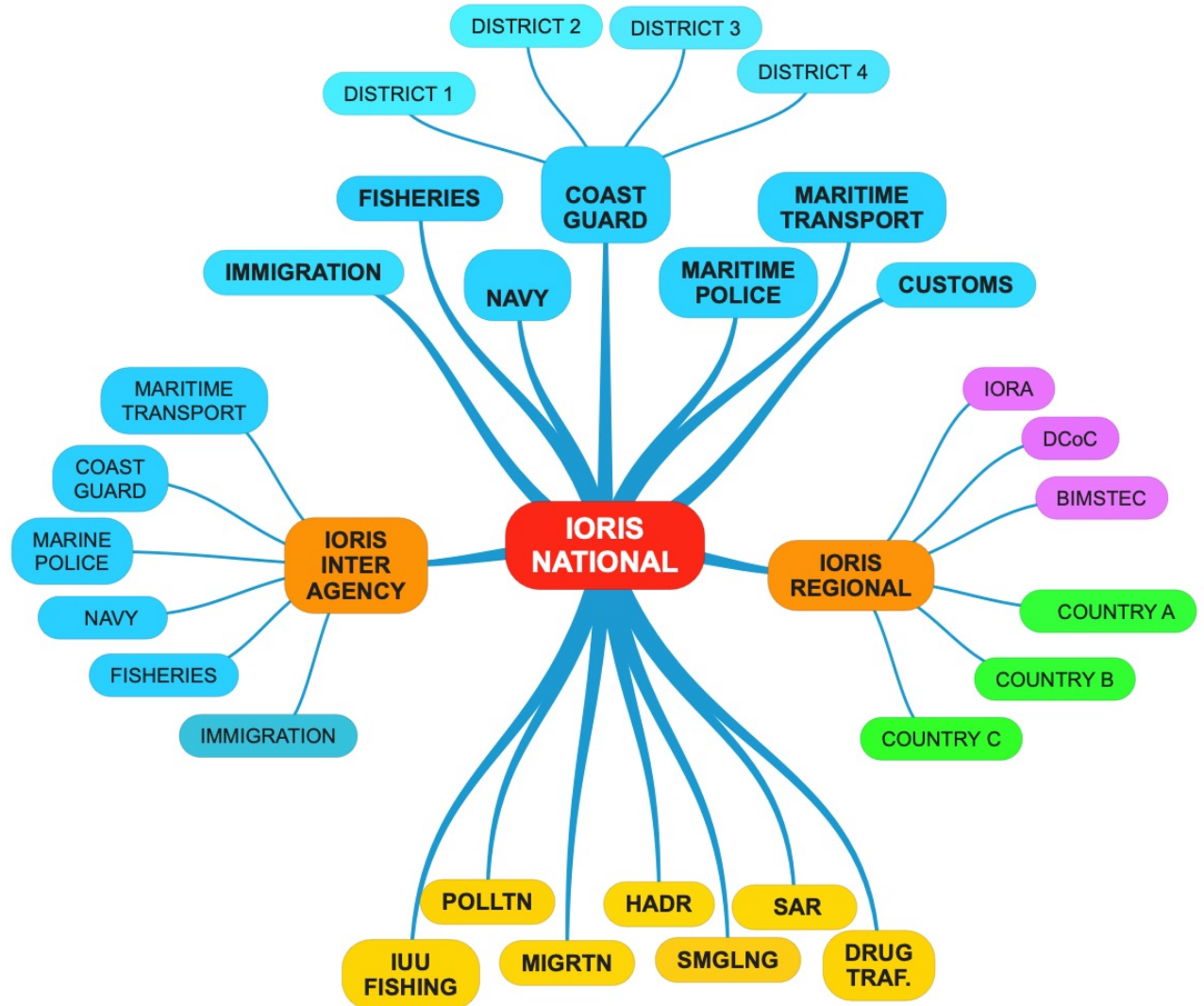
**New User** en



# COMMUNITY AREAS

## COMMUNITY AREAS

- D.Blue
  - Authorities
- Orange
  - Interagency
    - Purple
      - IO
    - Green
      - Country
  - Regional
- L.Blue
  - Districts
- Red
  - Regional
- Mustard (Cases)
  - Drug
  - Migration
  - Fishing
  - SAR





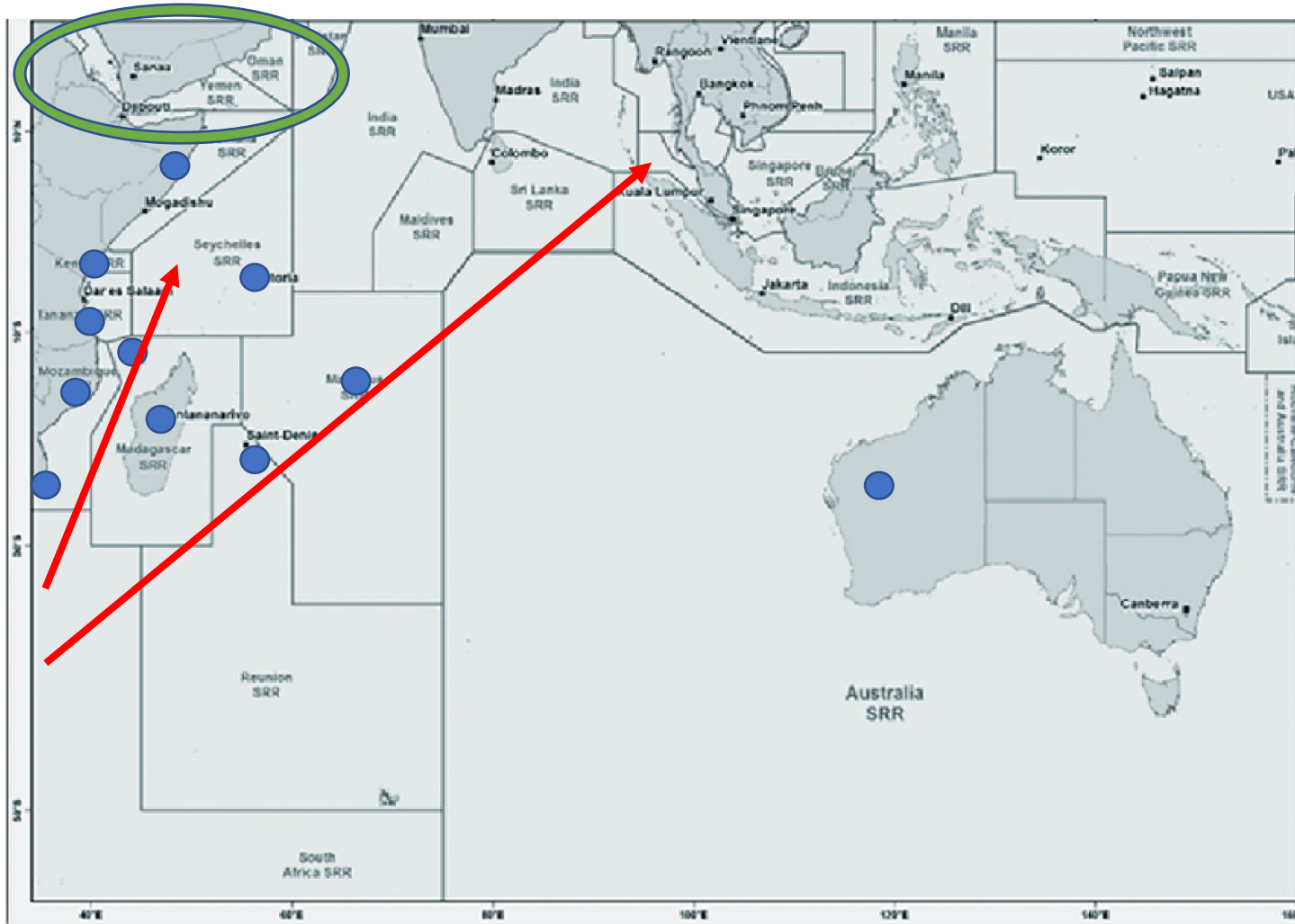
Access to multiple community areas

The screenshot displays the IORIS web application interface. At the top, a red navigation bar contains the IORIS logo, date (5 April 2022), time (UTC 15:13:27, Local Time 18:13:27), and user options (Training Site, English, Home, Admin, Help, Chat, Global Directory, My Tools, Log Off). Below this is a dark blue menu bar with various training sessions: Training Sessions, CRIMARIO Training ONLY, Exercise, Nations Training Area - IORIS V2.0, Train the Trainers, test 2, CARAT, Philippines, CRIMASREX 21, West Indian Ocean, DEMO ONLY, Maldives, and ATALANTA. A row of blue buttons provides access to specific community areas: Oil Spill Initial Reporting / Oil COM, Pollution Control Indian Ocean Bjorn, Illegal Ivory, TTT Nicolas, pollution control indian ocean nelson, Said LAVANI- ToT, and Area Admin Course 18-22 Oct 2021. Below the buttons, a news snippet reads: "FV Dark Storm involved in possible illegal fishing activity". The main content area features a "Regional Map" showing the Indian Ocean region, including the Andaman Sea, Gulf of Thailand, and parts of Southeast Asia. The map includes a search bar, zoom controls, and a cursor position of 3.34070 / 102.15000. The map shows various islands, including the Nicobar Islands and the Andaman Islands, and is overlaid with a grid.





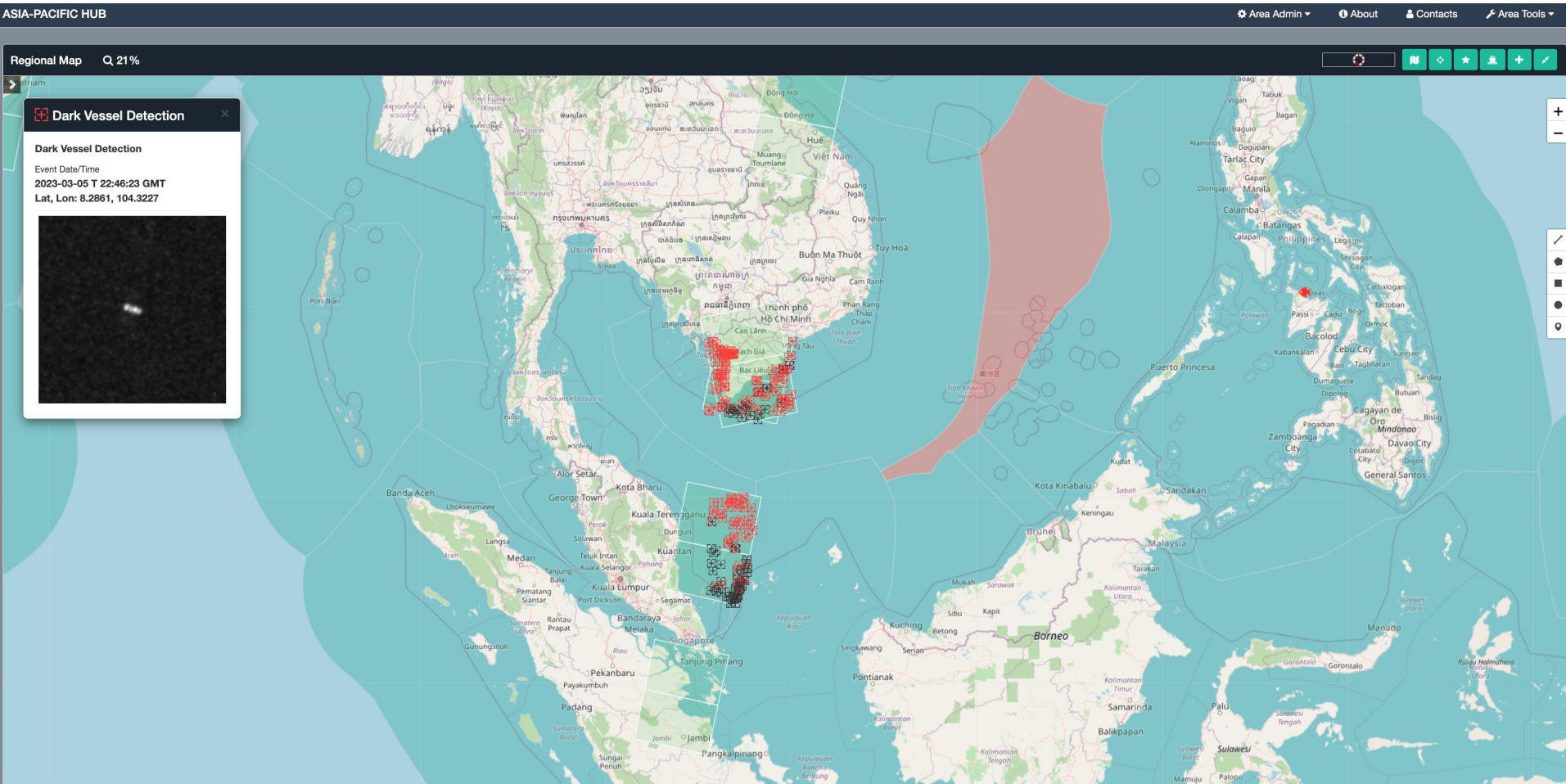
# GEOGRAPHIC AND THEMATIC COMMUNITY AREAS



Vessel Traffic Monitoring / SAR Network /// Regional IORIS SOP for the Indo-Pacific



## SKYLIGHT





## **SITUATION**

- Challenging to monitor vast ocean spans.
- No web-based two-way communications between governments and shipping

## **VISION**

- Link Maritime Centres with Shipping
  - Vessel Traffic Monitoring
  - Search and Rescue
  - Group/private/VoIP chats

## ADVANTAGES

- Broader maritime domain awareness
  - Open channel of communication amongst Centres / MVs
    - Vessel intentions
    - receiving notifications in return
  - Company Security Officers
    - Build a picture of the security threats
      - intended ports of call
      - alert MSSCs of intended voyage plans **in advance**
      - give a heads-up to coastal authorities **en route**.
- Cost-effective solution



## IORIS For Maritime Security

- Protecting Shipping Against Piracy / Armed Robbers
- Protecting Shipping Against Terrorists
- Protection of Ports / Critical Infrastructures
- Company Security Officers
- Chief Information Security Officers

## IORIS for Maritime Safety

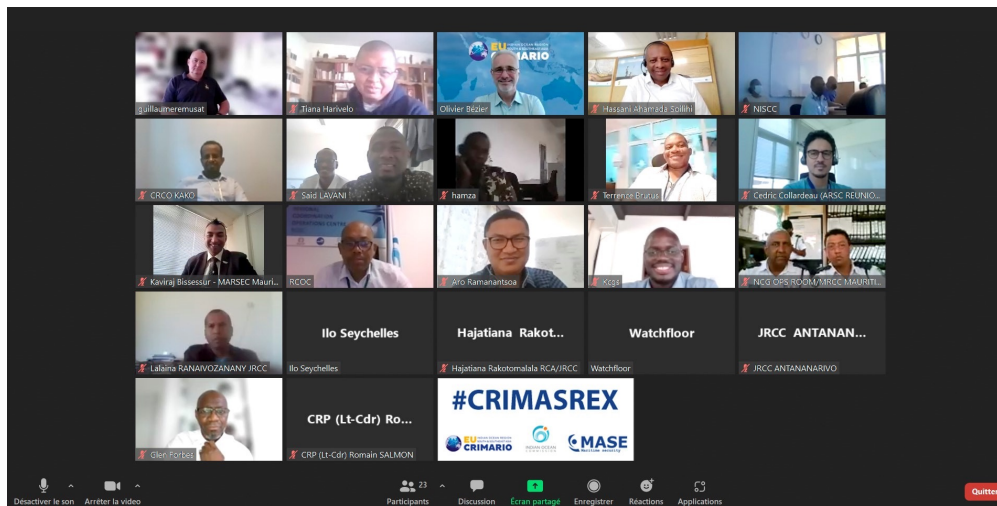
- Vessel Traffic Monitoring
- Search and Rescue Coordination
- Combatting Marine Pollution
- Harbour Master and Port Operations





## IORIS based CRIMASREX WIO

- Safety Based
  - Search and Rescue – Airliner in distress
  - Health Incident at Sea
- 7 Countries / 17 Agencies



**IS1.4 « Drug »**  
August 2019

**FINAL DEBRIEF**

IS1.4 "Drug" was an exercise scheduled and conducted by the EU CRIMARIO project to the primary benefit of Mauritius with the participation of RMIFC in Antananarivo and RCOC in Mada. It included a local development for Mauritius centered on legal framework concerns and precursors. For the two centers, it aims at training crews in managing the information and draft COA<sup>1</sup> during a drug situation in western Indian Ocean in compliance with their tasks.

It is derived from the PIBEX series exercises conducted from June 2012 to June 2014 (five editions) by the MARSIC project.

IS series exercises also covers topics like oil spill, terrorism, human trafficking, piracy, and smuggling.



## Live Exercise – Indian Ocean Naval Symposium (IONS)

- Humanitarian Assistance
- Co-organised by India and France
- Participation of 15 IONS members





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# IORIS GOVERNANCE

IORIS Conference for the Indian Ocean – the Seychelles, 6-7 December 2022







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# IORIS GOVERNANCE Steering Committee Meeting



- IORIS Community established May 2024
  - Regional Governance Structure
- Active IORIS users define the future
  - 13 – Full Members
  - 22 – Provisional Members
  - 16 – Associate Members
- Int /Regional organisations – observer
- EU ensures for sustainability (funding)





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# IORIS Steering Committee Working Group Meetings (Policy, Operational, Technical, Legal)



- Nairobi, Kenya: 16 to 18 October 2022
- Regional IORIS SOP for the Indo-Pacific Endorsed



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**SHARE.IT**  
INTEROPERABILITY  
FRAMEWORK



**UNODC**  
United Nations Office on Drugs and Crime

**SHARE.IT** 

SYSTÈME A



SYSTÈME B



**IORIS**

SYSTÈME C



SYSTÈME X



SYSTÈME Y



SYSTÈME Z

**3rd SHARE.IT INTEROPERABILITY CONFERENCE**  
**UN Bangkok Premises - 20 TO 24 November 2023**



- **Promotes cross-sectoral, inter-agency and cross-regional cooperation across the Indo-Pacific**
- **Offers Neutral and Zero Cost Solutions**
  - IORIS (centralised)
  - SHARE.IT (de-centralised)
- **Organise National/Regional exercises**
- **Stand ready to continue supporting partners implement its strategies and workplans**



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Thank You.

Questions?



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Website: [www.crimario.eu](http://www.crimario.eu)

Newsletter (on subscription - via email [info@crimario.eu](mailto:info@crimario.eu))

For any contact: [info@crimario.eu](mailto:info@crimario.eu)



CRIMARIO II is an European Union initiative implemented by Expertise France

**EXPERTISE  
FRANCE**  
GROUPE AFD