

# Training and Capacity Building process

# Drivers

## We focus

We focus on management of information and Interagency and regional coordination

## We certify

Our attendees have to pass test (75%) to come back to the next level.

# Drivers

## Sustainability

- We train trainers (courses)
- We use free software or software already purchased by the beneficiary country.

## Adaptability

- We tailor and fine tune our “product” to fit “customer's” request and the state of the art.

# Drivers

## CPX/CRT (Command Post Exercise / Crisis Response Training)

- We don't move assets (ships, planes...),
- But we can contribute as a preparation for live exercise

# Main curricula

## Maritime Data Processing (MDP)

- Visualisation: three levels, seven weeks, e-learning
- Analysis: three levels, seven weeks

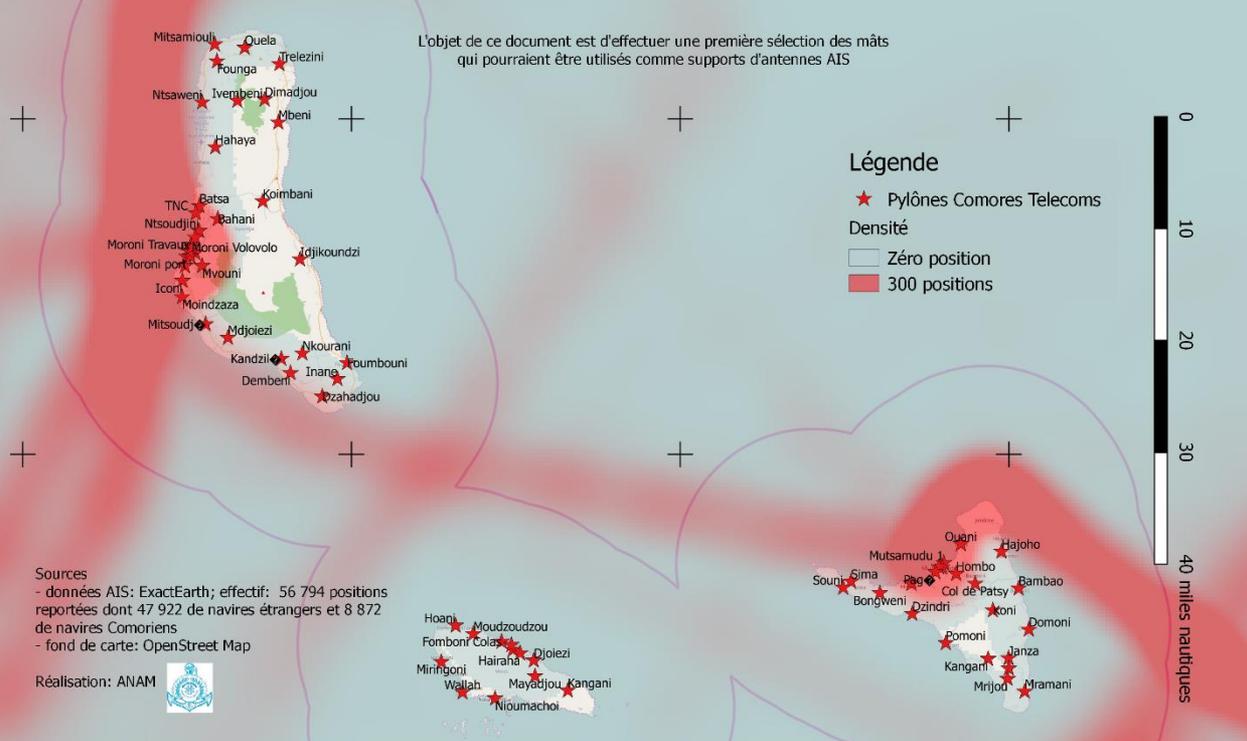
Delivered to Madagascar, Comoros, Seychelles, Mauritius

# Main curricula: visualisation

Vessel Name	Vessel Type	Vessel Flag	Incident Type	Result	Date	Incident Position
1 COMPTON	bulk carrier	Liberia	Hijack	Attempted	02 January 2012	133.2 Yemen
2 ALSAFINA AL SALAM	dhow	Yemen	Hijack	Attempted	03 January 2012	133.2 Yemen
3 UNDA	bulk carrier	Marshall Islands	Hijack	Attempted	04 January 2012	205 Gulf of Aden
4 TCHUANAN CEDI	bulk carrier	Yankee	Hijack	Attempted	04 January 2012	12.2133333 Yemen
5 JALORE	crude oil tanker	India	Hijack	Attempted	05 January 2012	750 Gulf of Aden
6 SUNOHNE	bulk carrier	Bahamas	Hijack	Attempted	05 January 2012	440 Arabian Sea
7 HAPPY BIRD	log tanker	Isle of Man	Hijack	Attempted	05 January 2012	943 Arabian Sea
8 AJ Wasel	dhow	Yemen	Hijack	Attempted	05 January 2012	22.45 Oman
9	crude tanker		Hijack	Attempted	05 January 2012	14.85 Oman
10	pipe layer vessel		Hijack	Attempted	05 January 2012	13.5566667 Yemen
11	crude oil tanker	Liberia	Hijack	Attempted	05 January 2012	12.3333333 Yemen
12	general cargo vessel		Hijack	Attempted	05 January 2012	26.4833333 OMAN
13	dhaw		Hijack	Attempted	05 January 2012	6.5166667
14	Khaleef		Hijack	Attempted	05 January 2012	
15	merchant vessel		Hijack	Attempted	05 January 2012	
16	general cargo ship	Panama	Hijack	Attempted	06 February 2012	
17	log tanker	Singapore	Hijack	Attempted	06 February 2012	
18	chemical tanker	Panama	Hijack	Attempted	06 February 2012	
19	bulk carrier	Panama	Hijack	Attempted	06 February 2012	
20	bulk carrier	Malta	Hijack	Attempted	07 February 2012	
21	chemical/oil products tanker	Vietnam	Hijack	Attempted	07 February 2012	
22	chemical/oil products tanker	Panama	Hijack	Attempted	07 February 2012	
23	crude oil tanker	Singapore	Hijack	Attempted	07 February 2012	
24	bulk carrier	Liberia	Hijack	Attempted	07 February 2012	
25	container ship	Singapore	Hijack	Attempted	07 February 2012	
26	dhaw	Oman	Hijack	Attempted	07 February 2012	
27	ro-ro cargo ship	Sri Lanka	Hijack	Attempted	07 February 2012	
28	container ship	Singapore	Hijack	Attempted	07 February 2012	
29	container ship	Singapore	Hijack	Attempted	07 February 2012	
30	chemical tanker	Saudi Arabia	Hijack	Attempted	07 February 2012	
31	chemical/oil products tanker	Panama	Hijack	Attempted	07 February 2012	
32	dhaw		Hijack	Attempted	07 February 2012	
33	crude oil tanker	Tanzania	Hijack	Attempted	07 February 2012	
34	log tanker	Singapore	Hijack	Attempted	07 February 2012	
35	oil products tanker	Bahamas	Hijack	Attempted	07 February 2012	
36	dhaw	Yemen	Hijack	Attempted	07 February 2012	
37	chemical/oil products tanker	Panama	Hijack	Attempted	07 February 2012	
38	chemical/oil products tanker	Panama	Hijack	Attempted	07 February 2012	
39	general cargo ship	Yemen	Hijack	Attempted	07 February 2012	
40	Incidents 2012 Complete					

## Samples of visualisation work

### Carte de chaleur des positions AIS de l'année 2015 autour des îles de Ngazidja, Anjouan et Mohéli



Row Description	Attempt	Hijack	Total Sum
1 bulk carrier	22	1	23
2 chemical tanker	3	0	3
3 chemical/oil products	11	2	13
4 container ship	9	0	9
5 crude oil tanker	13	1	14
6 dhow	3	6	9
7 fishing dhow	1	1	2
8 fishing vessel	2	0	2
9 general cargo ship	8	2	10
10 general cargo vessel	1	0	1
11 log tanker	1	0	1
12 log tanker	5	0	5
13 merchant vessel	1	0	1
14 oil products tanker	1	4	5
15 passenger (cruise) shi	1	0	1
16 pipe layer vessel	1	0	1
17 ro-ro cargo ship	2	1	3
18 tug	1	0	1
19 utility vessel	1	0	1
20 vehicles carrier	2	0	2
21 crude tanker	1	0	1
<b>Total Sum</b>	<b>94</b>	<b>16</b>	<b>110</b>

# Main curricula: Analysis

## Samples of cases studies (Analysis curriculum)

- *“This morning the Suez canal closed unexpectedly, and for a minimum of one year. What consequences on maritime shipping, maritime safety and security?”*
- « Ce matin le canal de Suez a fermé sans préavis, et pour une période d’un an. Quelles conséquences sur le transport maritime, la sécurité et la sûreté maritime? »

# Main curricula: Exercises

## Exercises

- Smuggling,
- IUU,
- human trafficking,
- Pollution,
- ... (tailored team)

# Planning process

## Needs assessment

- A CRIMARIO focal point for training is nominated in each country.
- Countries express their needs from a list of existing curricula and exercises or ask for tailored or new ones.
- A draft programme including sharing costs and tech specs for the training environment is built and submitted to the countries for validation.

# Planning process

Code	Title of the course	Description and objectives	Target audience	Programme outline	Requirements
MDP 3	Maritime data processing : Data visualisation - level one	<p>This course aims at giving all skills necessary to extract (from a file, from internet, from a database...), clean, format and present the data (on a spreadsheet, a chart, a GIS...). Attendees can follow the demonstration of the facilitator and repeat it live in the classroom (fitted with two video projectors) on their computer. This course is divided into two levels. Each level includes a 10 days' course in classroom with a written test, and 20 hours of E-training with a written test. MDP3 and MDP3.1 are compulsory to begin MDP4.</p>	<p>Staff in charge of data preparation and visualisation from maritime operation centres and law enforcement administrations. MDP3 and MDP3.1 are compulsory to begin MDP4.</p>	<p>Sorting and grouping, visualisation with a spreadsheet - From the spreadsheet to the GIS - Regional (Indian Ocean) specificities in formats - Change of format – Advanced use of Google Earth – Pivot tables – Hypothesis test – from data sheet to Geographic Information System - Sharing data: FTP and Wiki - Query with SQL - qGIS</p>	Attendees must have their own computer (with admin rights) with a Wi-Fi capability, and with a spreadsheet (whatever the editor: MS Office , OpenOffice...) and Google Earth installed. Additional free software will be installed during the course.
MDP 3.1	Maritime data processing : Data visualisation -E-training level one				Attendees must have their own computer (with admin rights) with a Wi-Fi capability, and with a spreadsheet (whatever the editor: MS Office , OpenOffice...) and Google Earth installed. Additional free software will be installed during the course.
MDP 4	Maritime data processing : Data visualisation - level two				Attendees must have their own computer (with admin rights) with a Wi-Fi capability, and with a spreadsheet (whatever the editor: MS Office , OpenOffice...) and Google Earth installed. Additional free software will be installed during the course.
MDP 4.1	Maritime data processing : Data visualisation - E-training level two				Attendees must have their own computer (with admin rights) with a Wi-Fi capability, and with a spreadsheet (whatever the editor: MS Office , OpenOffice...) and Google Earth installed. Additional free software will be installed during the course.

# Planning process

## Course preparation

- CRIMARIO recruits lecturers, facilitators and instructors.
- The country nominates his attendees.
- Some technical courses may be subject to entry tests from CRIMARIO.

# Planning process

## Preparation of an **exercise**

- The country nominates a director of the exercise.
- CRIMARIO and the director of the exercise draft an EXOPORD (exercise operation order)
- CRIMARIO recruits external expert and the country nominates internal experts

# Running of the event

## Running of training courses

- CRIMARIO nominates a course director.
- The country gathers the attendees on the training facility.
- Course duration: 1 to 3 weeks.
- All training sessions are subject to final test (written test and/or short project). Success mark is 75% and over.

# Running of the event

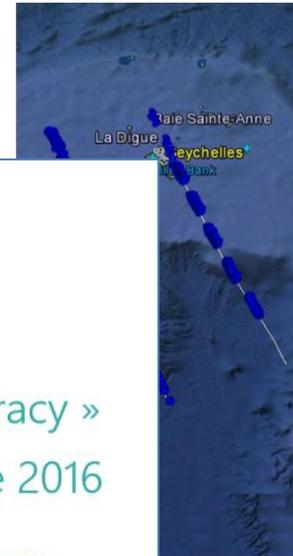
## Running of training **exercise**

- The live phase may be preceded by targeted trainings or conferences (1 or 2 days max)
- The live phase can last from 12 to 96 hours, with the possibility to freeze, accelerate or compress time.
- Hot debrief is done the day after live phase
- Comprehensive debrief is sent 15 days later to the designated national authority

# Exercises

## IS1.1 « pollution » Seychelles 26-29 Sep 2016

### Final debrief



IS1.1 "Pollution" was an exercise prepared by the EU CRIMARIO project to the benefit of the Seychelles administration. It aimed at training response teams in managing the information during a pollution situation in eastern Indian Ocean in compliance with their national plans and in coordination with their regional partners. It is a "command post exercise" (CPX), no asset was moved on the ground or at sea.

For this edition, CRIMARIO gathered expertise from the CEDRE (France), the Italian Coast-Guard, and the French Navy/MASE program.

The exercise took place at DRDM's premises under the direction of Paul Labaleine, the director of the DRDM. The live phase last two days (27 and 28 September). All parties consider this first edition very successful.

of the oil spills  
(red)

EU CRIMARIO PROJECT  
CRITICAL MARITIME ROUTES PROGRAMME

## IS1.2 « Piracy » 14th June 2016

### FINAL DEBRIEF

IS1.2 "Piracy" is an exercise scheduled and conducted by the EU CRIMARIO project to the benefit of the three Information Sharing Centers created in the frame of the Djibouti Code of Conduct (IMO-C102/14, 3 April 2009). It aims at training ISC crews in managing the information during a piracy situation in eastern Indian Ocean in compliance with their tasks (combination of art 2, 8,9,10 of DCoC).

It is derived from the PIREX 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, counter narcotic, and smuggling.

## Restitution de l'exercice « Visualisation et Analyse » de données d'intérêt maritimes

Moroni, le 25 janvier 2018

EU CRIMARIO project    Funded by    Implemented by

# Training and Capacity Building

**Olivier Bézier**  
olivier.bezier@crimario.eu



- CMR website:  
<http://www.criticalmaritimerooutes.eu/>
-  @EUCrimario
-  [EU Crimario](#)