Overview

- **Brief Scenario Description**

- **Scenario Results**

- **Maritime Operational Difficulties**

- **The CISE Solution**

- **The CISE Added Value**

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…EU takes under serious consideration the challenges and threats faced in the wider region of South East Europe, and it fully supports actions of m-s to prevent any illegal activities at sea…
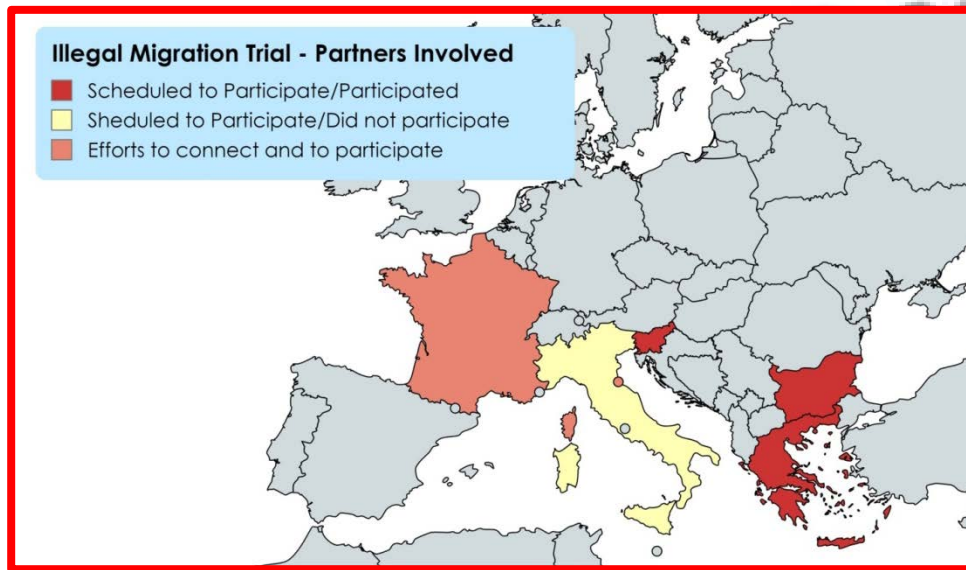
Illegal Migration Trial - Partners Involved
- Scheduled to Participate/Participated
- Sheduled to Participate/Did not participate
- Efforts to connect and to participate

Initiator CISE-ALERT partner: Hellenic MOD

Applicable Use Cases (WP2): Use Case 2: Illegal Activities (Migration/Trafficking)

Storyboard: In order to address the illegal trafficking activities at sea, an Authority A1 may be interested to gather information not yet available in its system from other maritime authorities B,C,D (in the same country or in other EU countries) regarding a suspicious vessel. The aim of this exchange through CISE is to help the Authority B1 to draw a conclusion whether an illegal activity is taking place or not and if needed, to put in place an operation to intercept the suspicious vessel.

Initiator Legacy System: AIS NETWORK - NSS (owner: Hellenic Navy)

Brief Scenario Description

Objective

- To combat illegal trafficking in the SE Mediterranean sea

Action Plan

- To Detect suspicious activities at sea
- To Monitor suspected vessels
- To Intercept if needed suspected vessels

Intended Result

- Information Fusion
- To automatically alert partners about a Vessel of Interest
- To exercise and exchange effective Command and Control orders

Scenario Results

Authority (Country)	Vessels of Interest list		Event Reporting		Operational Assistance Request		Area of Interest	
Role	Init.	Sup.	Init	Sup.	Init.	Sup.	Init.	Sup.
EAMA (BG)		Received /exchanged successful: **6**		Received: 2		Received:3 **Not received:3**		Received:1 **Not received:2**
Mzi(SL)		Received /exchanged successful: **3** **Not successful: 3**		Received: 2		Received:3 **Not received:3**		Received:3
HMOD (GR)	Successful steps : **6**		Successful steps : **2**		Successful sent : **6**		Successful sent : **3**	
Summary	**75%**		**100%**		**50%**		**80%**	

As Albert Einstein might have advised, C2 must be as simple as possible, and no simpler.

- **Command and control (C2)**: is an essential element of the art and science of naval warfare.
- **Command** is the act of making decisions and ordering action
- **Control** is the act of monitoring and influencing this action.

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MSA – Different Sources

AIS:
Sea Vision
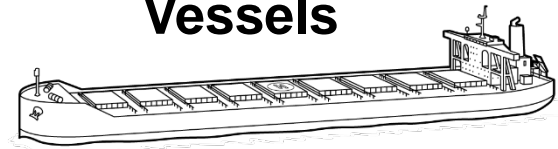
Ships

Mar Air Patrol

Vessels

MOC

Mar. Security Agencies
AIR FORCE
FISHERIES DEPT.
COAST GUARD
POLICE
CUSTOMS

LRIT

CISE

MARSUR
Maritime Surveillance Networking

V-RMTC
VIRTUAL REGIONAL MARITIME TRAFFIC CENTRE

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Maritime Operational Difficulties

The CISE solution give the answers to the common operational needs of any maritime operation:

How to collect information about a VOI?	• **Contact each single possible contributor separately by traditional means**
How to alert neighbouring partners about a VOI?	• **Contact each single affected partner separately**
How to alert partners about a maritime incident?	• **Contact them separately**
How to Command and Control assets on-scene?	• **Continuous information briefings among involved partners**

Nowadays EU Maritime Operations Centers (MOC), work in a rather fragmented way:

- MOC's uses its own Legacy System (LS) to manage maritime incidents.

- LSs do not exchange information

- There is not a single operational picture to be used as a reference by all MOCs

Challenges and Opportunities

- Eliminate manual entry of data by machine to machine exchange of data
- Create common operational picture
- Exchange info in a user friendly environment

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The CISE Solution

Maritime Operational Needs

TRANSLATED THROUGH THE CISE SERVICES

INTO A COMMON OPERATIONAL TOOL

Sharing Info.

No single tool for C&C

Hampered Coordina-tion and Coopera-tion

Absence of a EU data repository

Safety and Security

Rapid Info. flow

Fusion of different data sources

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The CISE Services are in charge of doing all these time-consuming information exchanges and coordination among partners, in an automated way which is understandable by all different Legacy Systems.

How to collect information about a VOI?
- **CISE VOI Service**

How to alert neighbouring partners about a VOI?
- **CISE Risk Profile Service**

How to alert partners about a maritime incident?
- **CISE Event Reporting Service**

How to Command and Control assets on-scene?
- **CISE Request for Operational Assistance Service**

Connecting Assets

Connecting Military-Civilian

Connecting EU Agencies

#2 CISE-ALERT Trial

Illegal Migration Smuggling Networks

THANK YOU FOR YOUR ATTENTION

Captain Dimitrios SKITSAS
Hellenic Navy Head of Maritime Surveillance

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