



Project Joint Maritime Information and Coordination Centre (‘JMICC’)

Presentation in support of EUNAVFOR KLE – 19 August

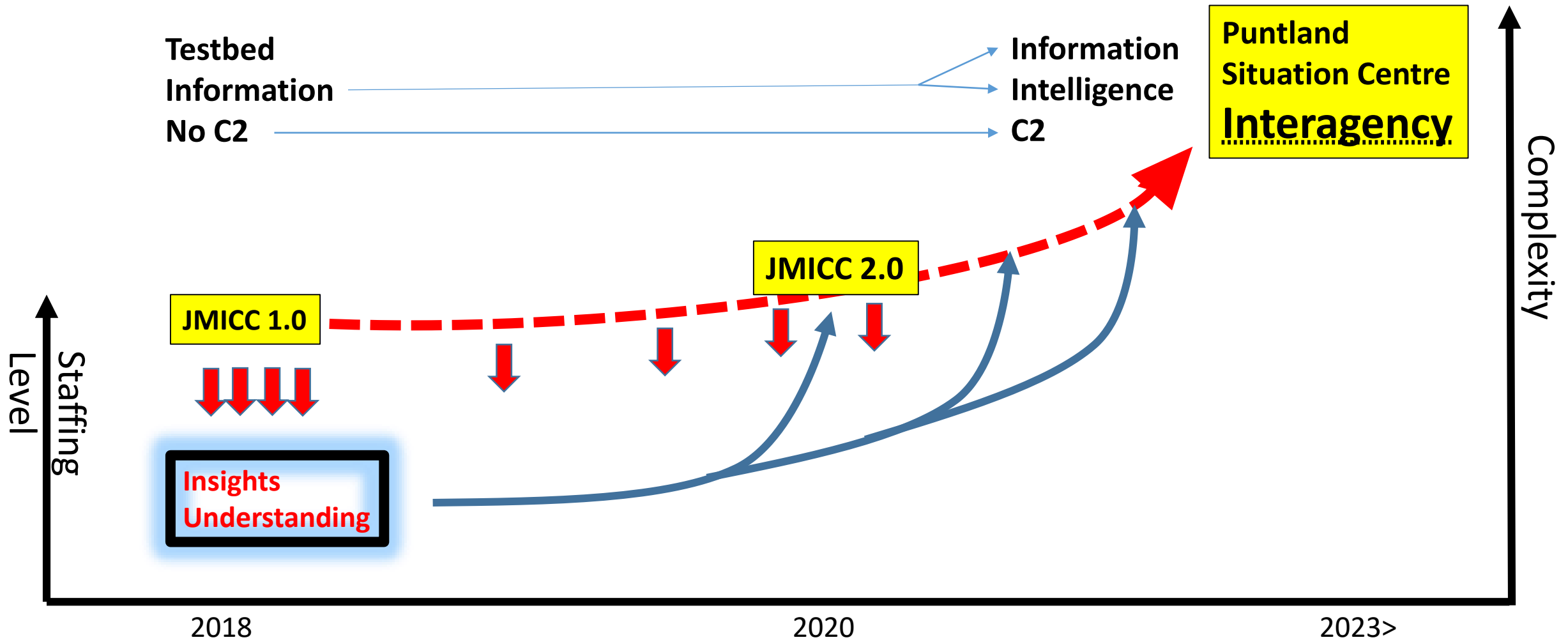
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Joint Maritime Information and Coordination Centre – Upfront:

- The JMICC is a testbed [of a] concept with its ultimate Objective or End State [the “Vision”] to establish a modern Puntland Situation Centre (SITCEN) in Garowe
- Purely conceptual approaches towards the aspired End State need a ‘material’ dimension to visualise the concept; and test and validate the various internal and external processes involved:
 - The JMICC in Garowe and the future Coastal Reporting Nodes represent the “physical & material dimension” towards the aspired End State
 - The teaching, training and the mentoring, *and* the experiences gained provide [insights into to] the “human dimension” needed to operationalise the Vision



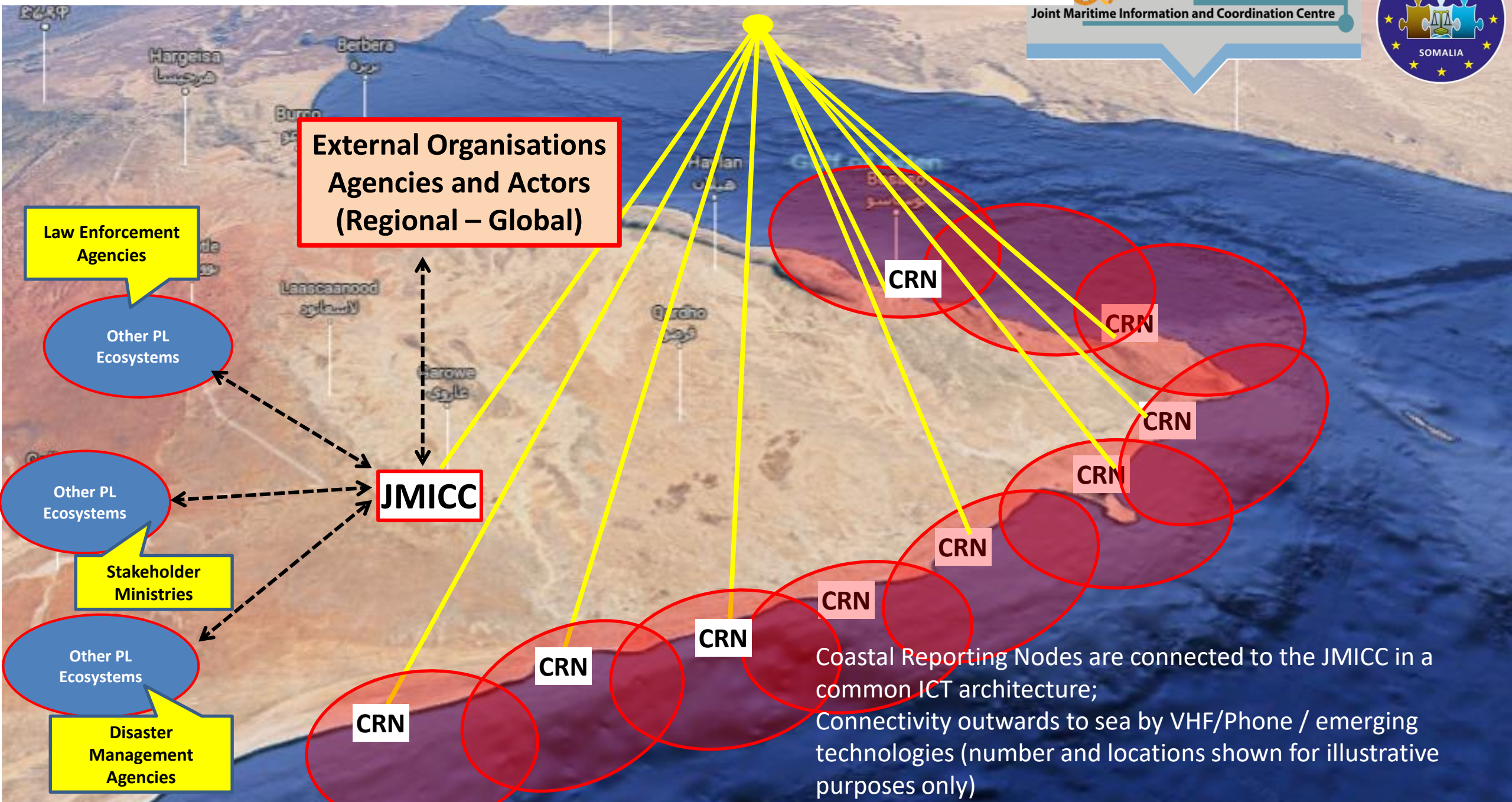
Vision for gradual transition and development



Project Joint Maritime Information and Coordination Centre (JMICC) – key points:

- Political-Strategic Objective: support achieving effective Maritime Governance
- Tactical Objective: achieve persistent (coastal) safety and security through improved shared awareness and rapid, factual information exchange; support decision making for cost-effective and efficient tasking of scarce maritime law enforcement capabilities (afloat); and as well in the coastal areas on land
- Precursor (& testbed) for an Interagency Puntland Situation Centre
- Critical Enabler for future major infrastructural development and resource generation through the exploitation of the 'Blue Economy' potential (nexus security and development)
- Offset strategy in view of limited indigenous law enforcement capabilities

JMICC Local, Regional, Global Connectivity



Coastal Reporting Nodes are connected to the JMICC in a common ICT architecture;
Connectivity outwards to sea by VHF/Phone / emerging technologies (number and locations shown for illustrative purposes only)



Impressions from a visit to Eyl, supported by CTF 465 (ESPS Castilla) – Oct 2018



Coastal Communities Against Piracy Project – UN FAO

The Coastal Communities Against Piracy (CCAP) project aims to provide training and support to artisanal fishermen along the coast of Somalia. It is one main component of the Maritime Security in the Eastern and Southern Africa and Indian Ocean region (MASE) programme, funded by the European Union

• Linkage to Project JMICC:

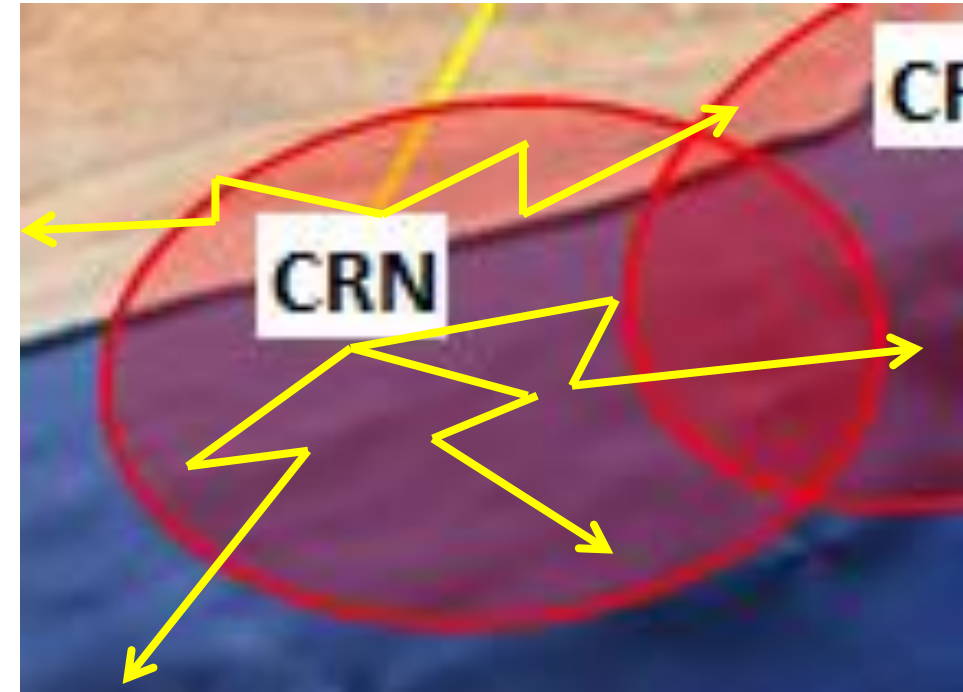
- Fishermen talk with the CRN
- CRN communicates to the JMICC
- Fishing boats – AIS B tracking beacon
- CRN – if equipped – can see location of fishing vessels



Locally (Bosasso) manufactured fishing vessel with ESPS Castilla in the background

Challenging Issues – Engineering assured Data Exchange in the Coastal Areas out to at least 12NM*

- The necessary hardware is ‘COTS’ available; no excessive pricing
- Issues to be addressed:
 - “Legacy” or more technologically advanced
 - Licences and frequency allocation for radio equipment
 - Delivery to Puntland and CRNs
 - Installation, upkeep and running costs
 - Procedural Training / TOT with Police

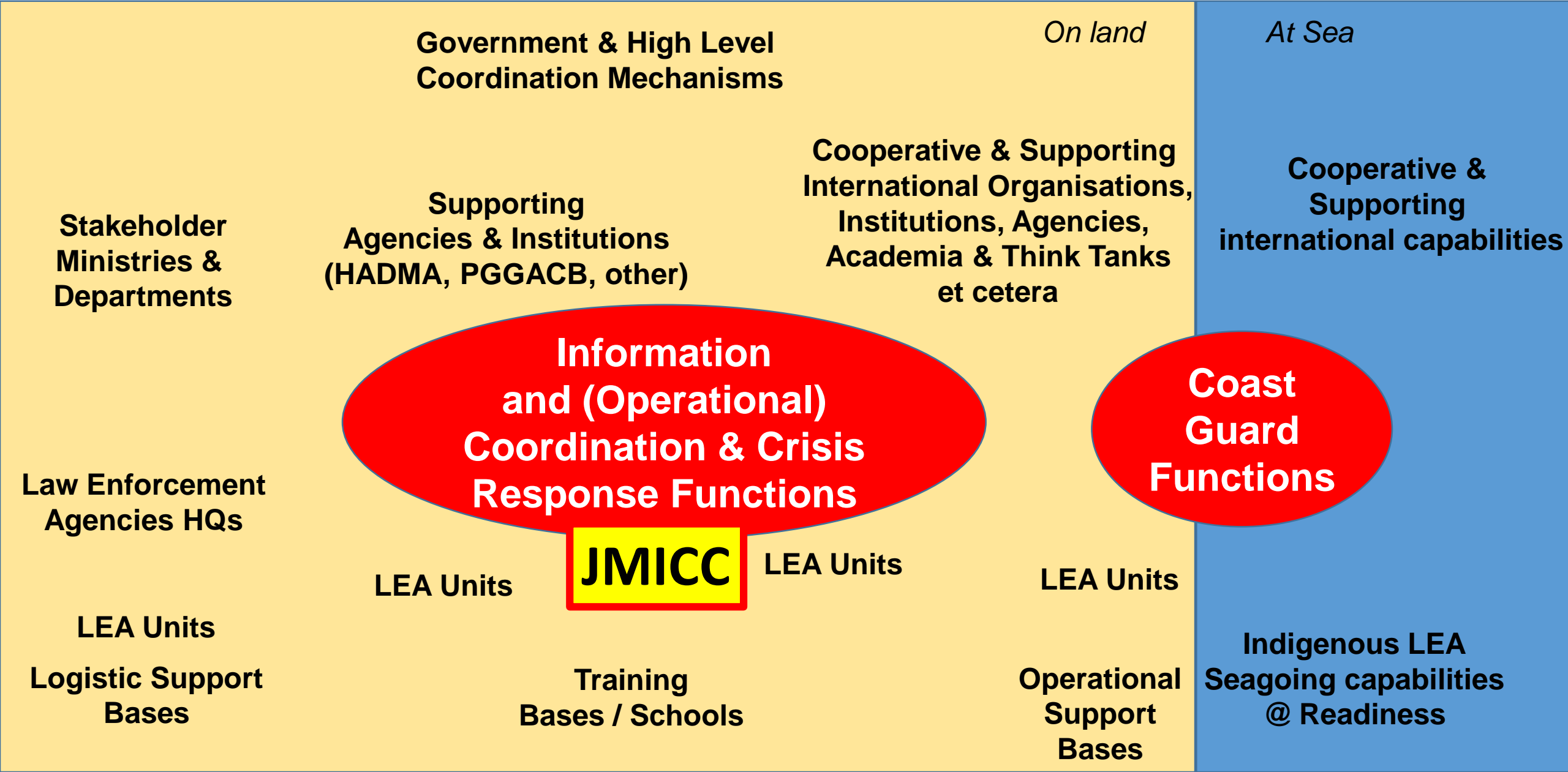


LoRaWAN = Long Range Wide Area Network

* Linked to initial ambition for MLEA



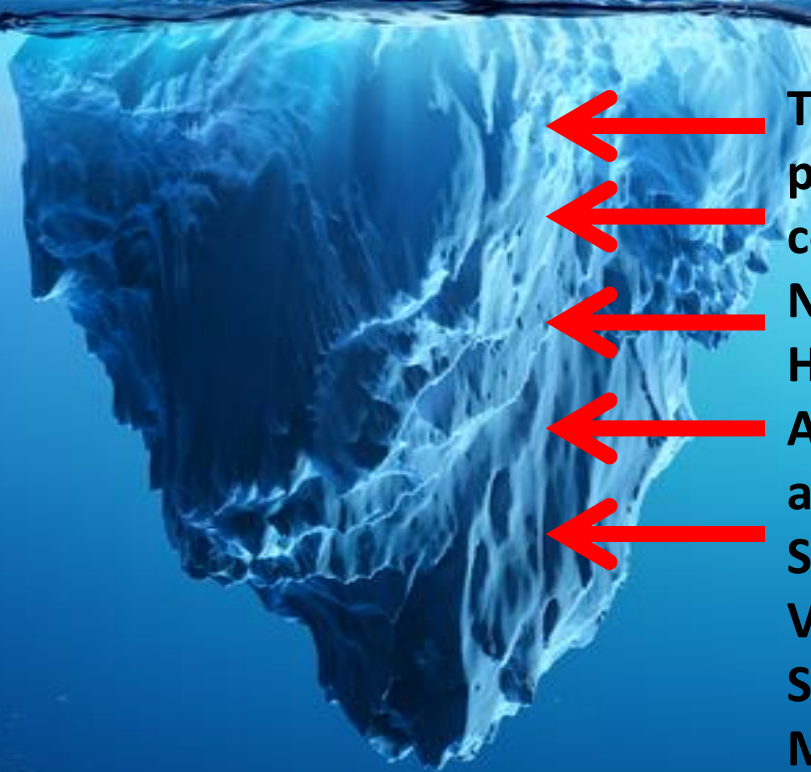
The Value Chain for Maritime Governance



The “JMICC Iceberg”



JMICC in its current location: a Working environment with IT, flat screen TVs, server room, office furniture and equipment, etc.



Trained and competent staff; working practices (SOP, SOI, etc.); Budget for running costs; JMICC POC Network; Coastal Reporting Nodes; enhanced facilities (kitchen/toilet); High Capacity internet; Formal Establishment; Achieving 24/7 ‘open for business’; motivated and happy staff; Stakeholder support; Sponsorships; external training courses; clear Vision and Mission; Job Descriptions; Staff’ “Critical Requirements”; HR policy; Mentor and OJT programme;

ET CETERA!!!



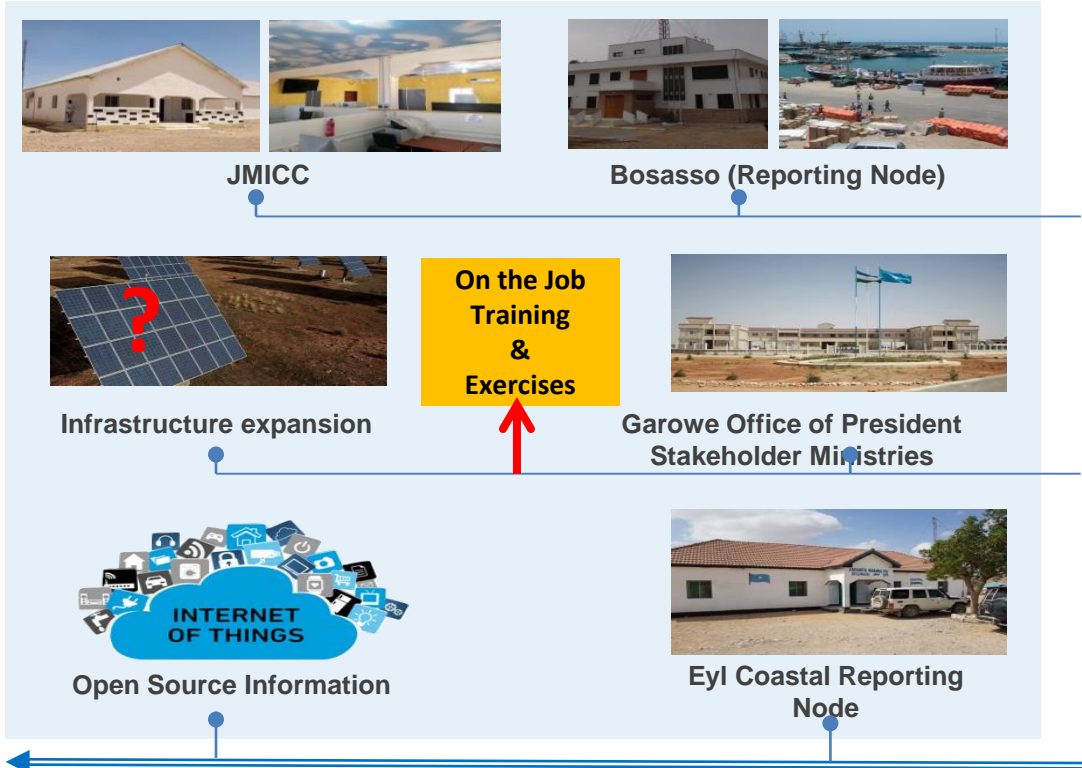
JMICC – Stakeholder Ministries

- Office of the President
- Ministry of Security & DDR
- Ministry of Maritime Transport, Ports & Maritime Crime Prevention
- Ministry of Fisheries and Marine Resources
- Ministry of Interior, Federalism and Democratization
- Ministry of Information, Telecommunication, Post and Cultural Heritage
- Ministry of Agriculture, Environment and Climate Change
- Ministry of Justice, Constitution & Religious Affairs
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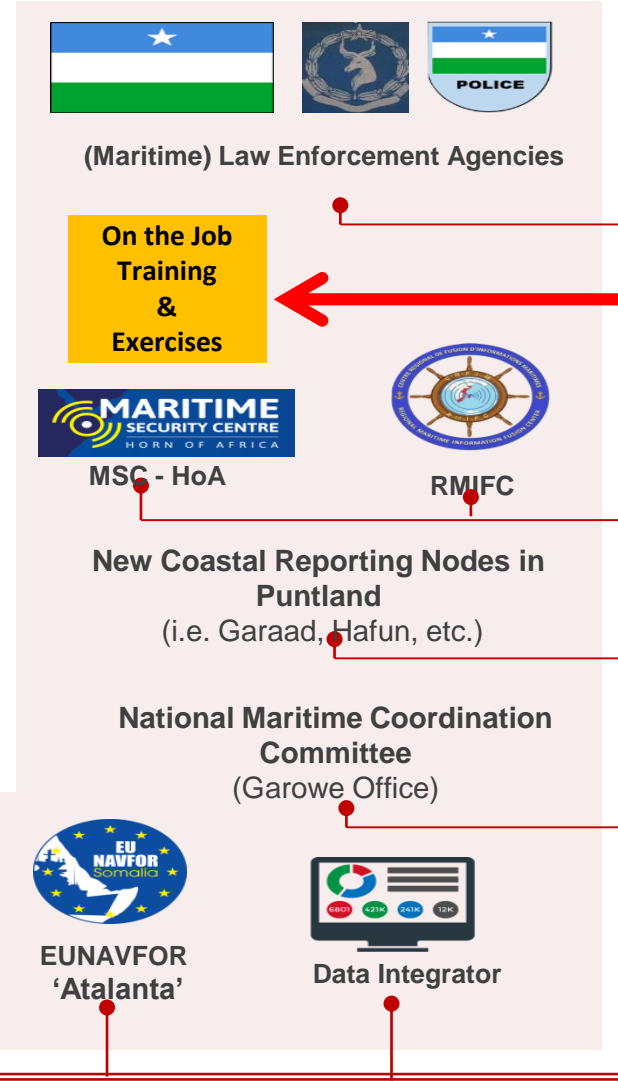
IMPLEMENTATION PLAN – TRANSITION JMICC 1.0 TO JMICC 2.0 (2019 – 2020)



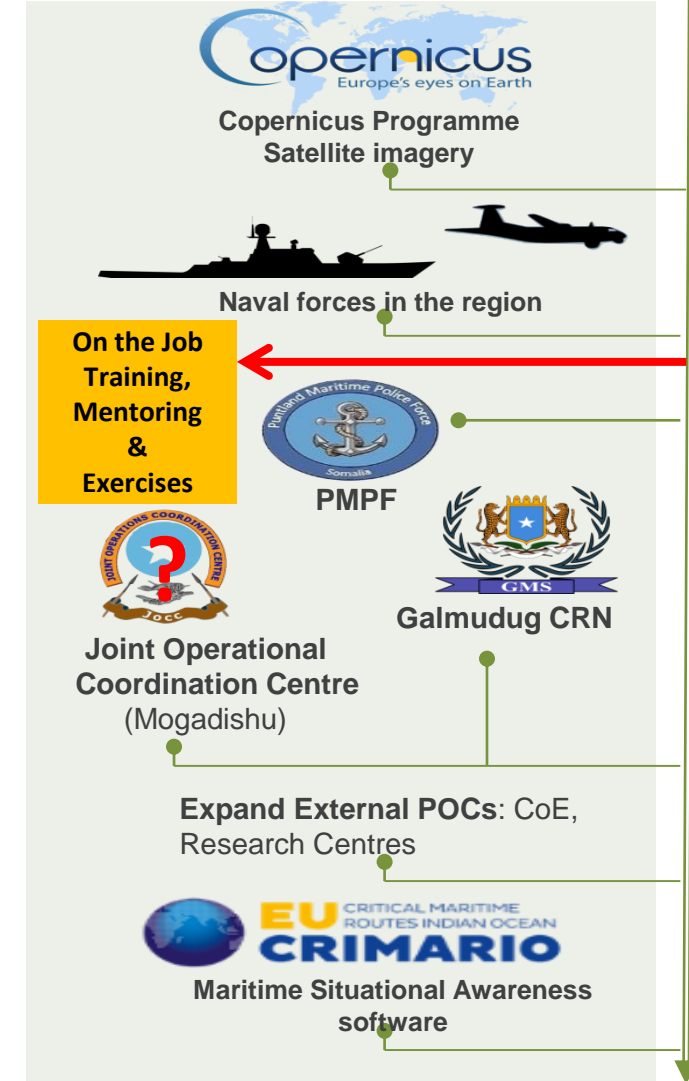
Phase 1 Q1 – Q3 2019



Phase 2 Q3 – Q4 2019



Phase 3 Q1 – Q4 2020



2019: Limited – Initial Operational Capability

2020: Initial Operational Capability





JMICC 'Standing Banner'

(cut in the middle to fit slide)



The JMICC is a new Puntland Government Agency established to improve the sharing and utilisation of information to counter maritime crimes

Vision

To evolve into a globally connected National (Puntland) Situation Centre providing high-grade information and advice to influence Maritime Governance policy development; and support Government decision making processes during incidents, accidents, disasters and crisis management.

Embrace comprehensive inter-agency cooperation to counter future regional risks and threats.

Mission (2019 - 2020)

The JMICC will:

- Provide timely and factual information to Government Institutions and Agencies;
- Build a network of Somali and External Entities to support research, analysis and dissemination of timely, accurate and fact-based information;
- Monitor local, regional and international news and provide 'alerts' in order to support the information requirements of all beneficiaries necessary to plan and conduct their tasks in a safe and expedient manner, within the Rule of Law;

"Encourage Blue Economy Thinking"

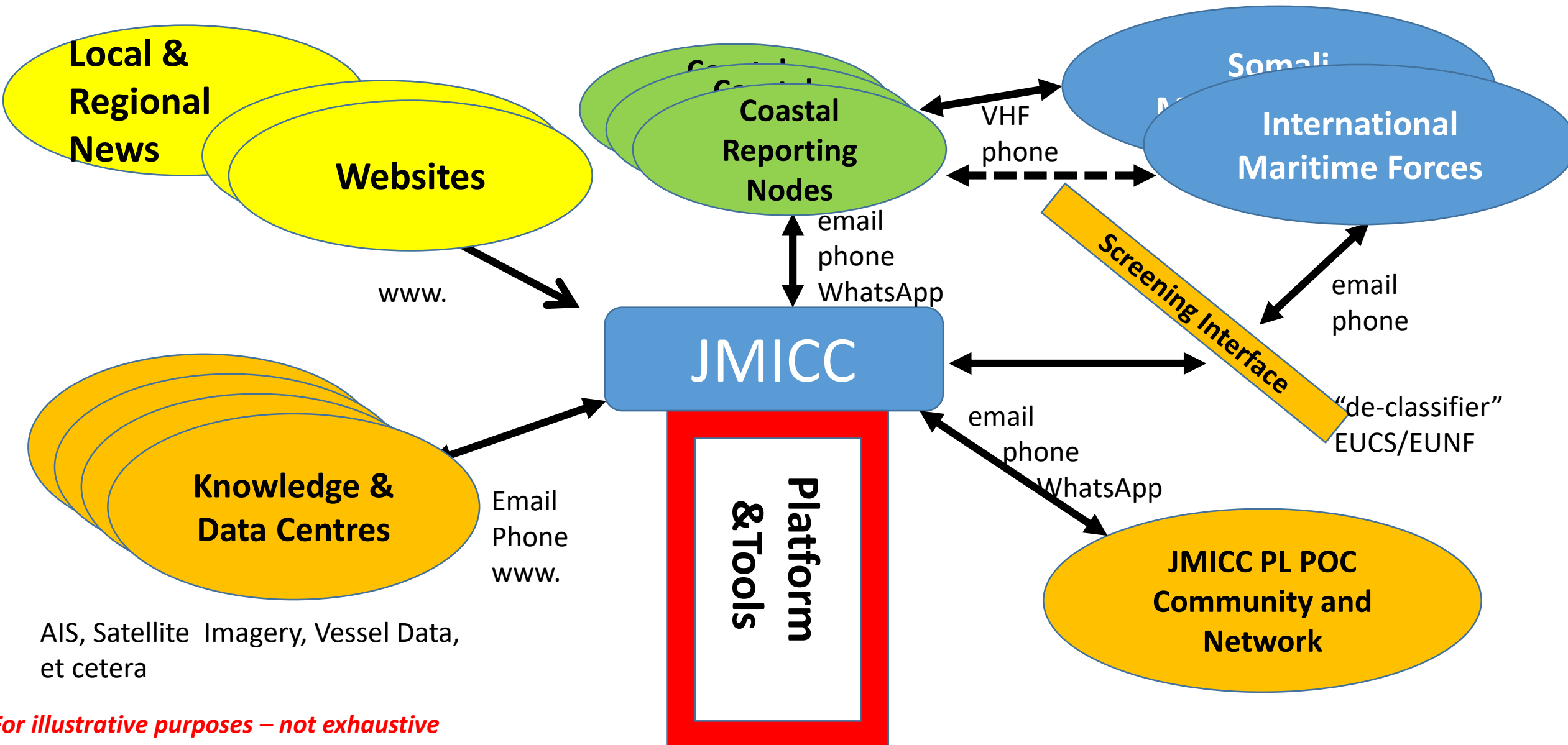


The JMICC is established with support from EU CAP Somalia





Sources of Information



For illustrative purposes – not exhaustive



Coastal Reporting Node (CRN) – What is it?

- A physical structure, often a Police Station or local public building, that already has, or will be equipped with “24/7” electricity and internet
 - Project JMICC will refurbish selected and prioritised police stations; and establish a dedicated room with ICT equipment
 - Effective manning of the ‘Ops room’ is very dependent on staff available; and electricity and internet being functional (not always 24/7)
 - Language: Somali, (very) limited English



Phasing – 2

- 1st Phase to Improve Present Situation:
 - ICT connection to the JMICC ‘Ecosystem’
 - AIS feed at prioritised CRN
 - Improve connectivity between Law Enforcement units (on land/sea) and CRN (and thus the JMICC)
 - TBC: Use Somtel/Golis infrastructure (i.e. masts)
 - Establish Coastal Reporting Sectors associated to each CRN
 - (Maritime) VHF Channel separation
 - Group communication / define User Community
 - Teaching and Training of dedicated staff (on site and at the JMICC)



Phasing – 3

- 2nd Phase to Improve Present Situation:
 - Vessel (radio signal) detection capability (transmissions from ships with no AIS, or AIS switched off)
 - Extended reach out to sea (up to 24NM?)
- After 2020, or earlier when external funding support identified

Phasing – 4

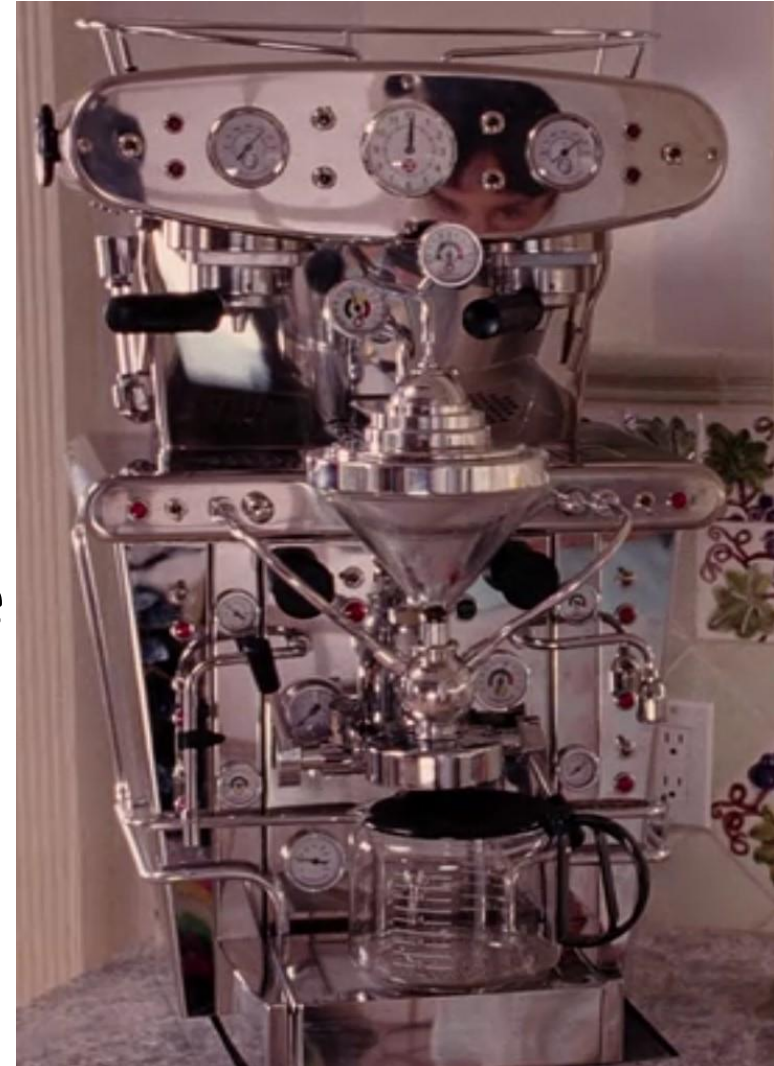
- 3rd Phase to Improve Present Situation:
 - EO/IR sensors
 - Coastal radars
- After 2020



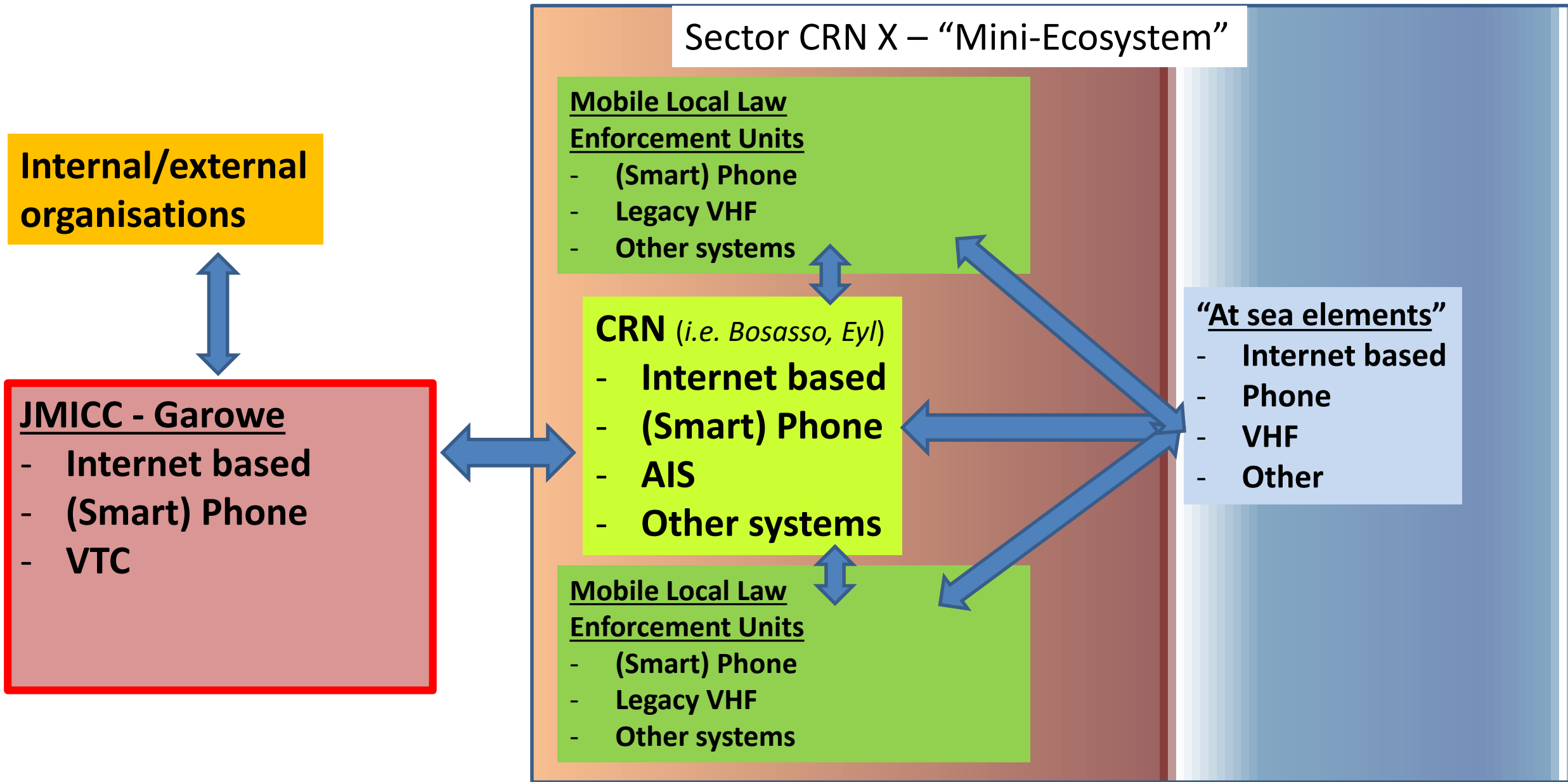
“The Jamaican Government has ordered several Thales's Coast Watcher 100 coastal surveillance systems to strengthen its capabilities. Under the USD30 million contract, the company will supply a turnkey system built around several Coast Watcher 100 radars, electro-optical sensors, and Global Maritime Distress and Safety System (GMDSS) radios. It will also deliver a National Control Centre that will process data from radars and sensors to provide operational capacity to the Jamaican Defence Forces.” (May 2019)

Solutions are to:

- Avoid adding different layers of hardware
- Allow future expansion 'within family' (guaranteed interoperability/interfaces)
- Be 'to the point': no additional features that are unlikely to be used
- Be robust, (relative) low level of maintenance



Schematic – Data Exchange – 1





Schematic – Data Exchange – 1

*How to realise
CRN Phase 1 with
a minimum of
(additional)
equipment?*

