



# Presentation on the “JMICC” and Coastal Reporting Nodes

**Hotel Same – Garowe, 13 November 2019**

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Project Manager Project JMICC

Review Date: 13 Nov 2019

# **EUCAP SOMALIA**

General

Mentoring Maritime Governance

# EUCAP Somalia



- Established July 2012 ('EUCAP Nestor')
- Current Mandate 2019 – 31 Dec 2020
- Marco joined the Mission on 4 Feb 2014
- [www.eucap-som.eu](http://www.eucap-som.eu)

*EUCAP Somalia contributes to the establishment and capacity building of maritime civilian law enforcement capability in Somalia, including Somaliland*



19 Member States

Ceiling: 130

# EUCAP Somalia – Mentoring Maritime Governance

- Critical Government function, same importance as all governance functions on land
  - At least 8 ‘Stakeholder Ministries’ within Puntland are involved directly or indirectly
- The vast potential of the Blue Economy hinges on internationally recognised *effective* Maritime Governance
  - Nexus Maritime Safety and Security – Development – FDI
- JMICC will receive under EU ‘MASE’ programme additional IT to enhance the maritime picture of the West Indian Ocean / Gulf of Aden

# **Project JMICC – Progress Brief**

Key Points

Transition towards Puntland SITCEN

Coastal Reporting Nodes



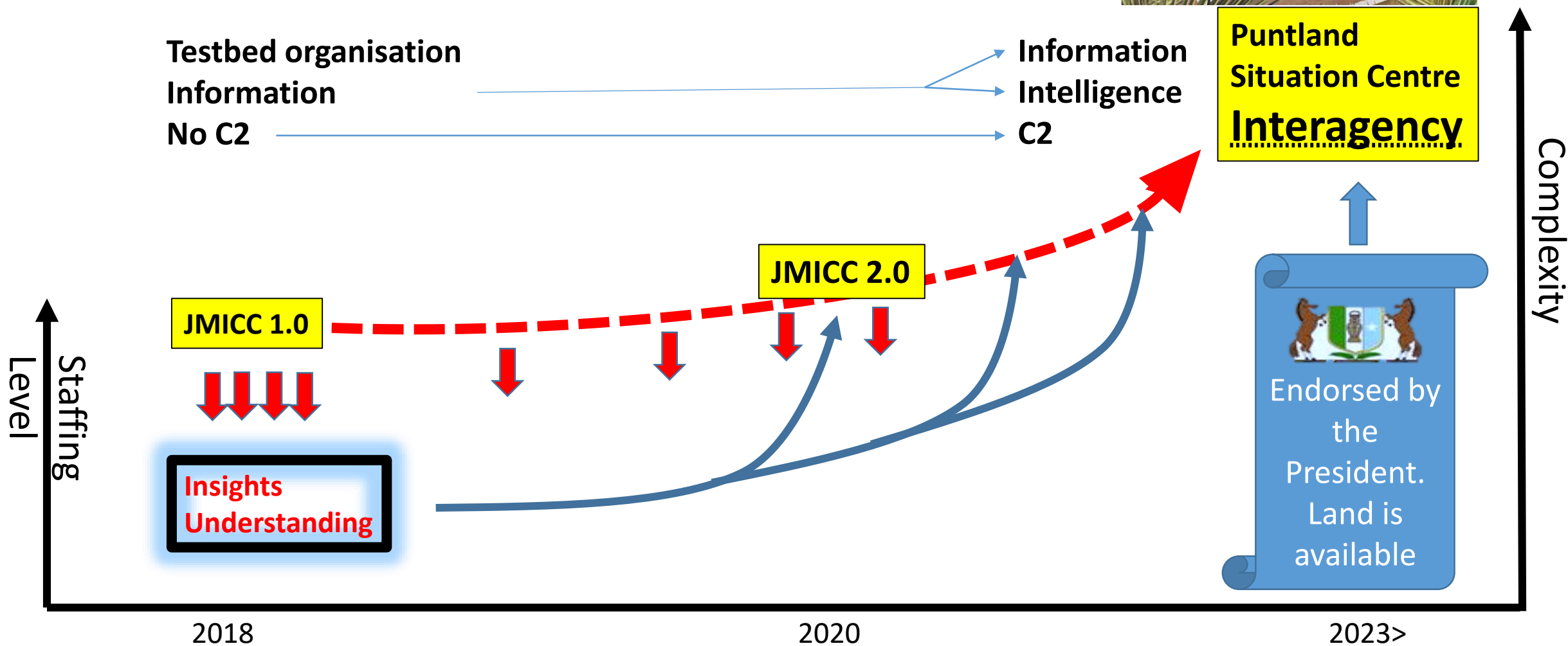
# Project Joint Maritime Information and Coordination Centre – Key Points:



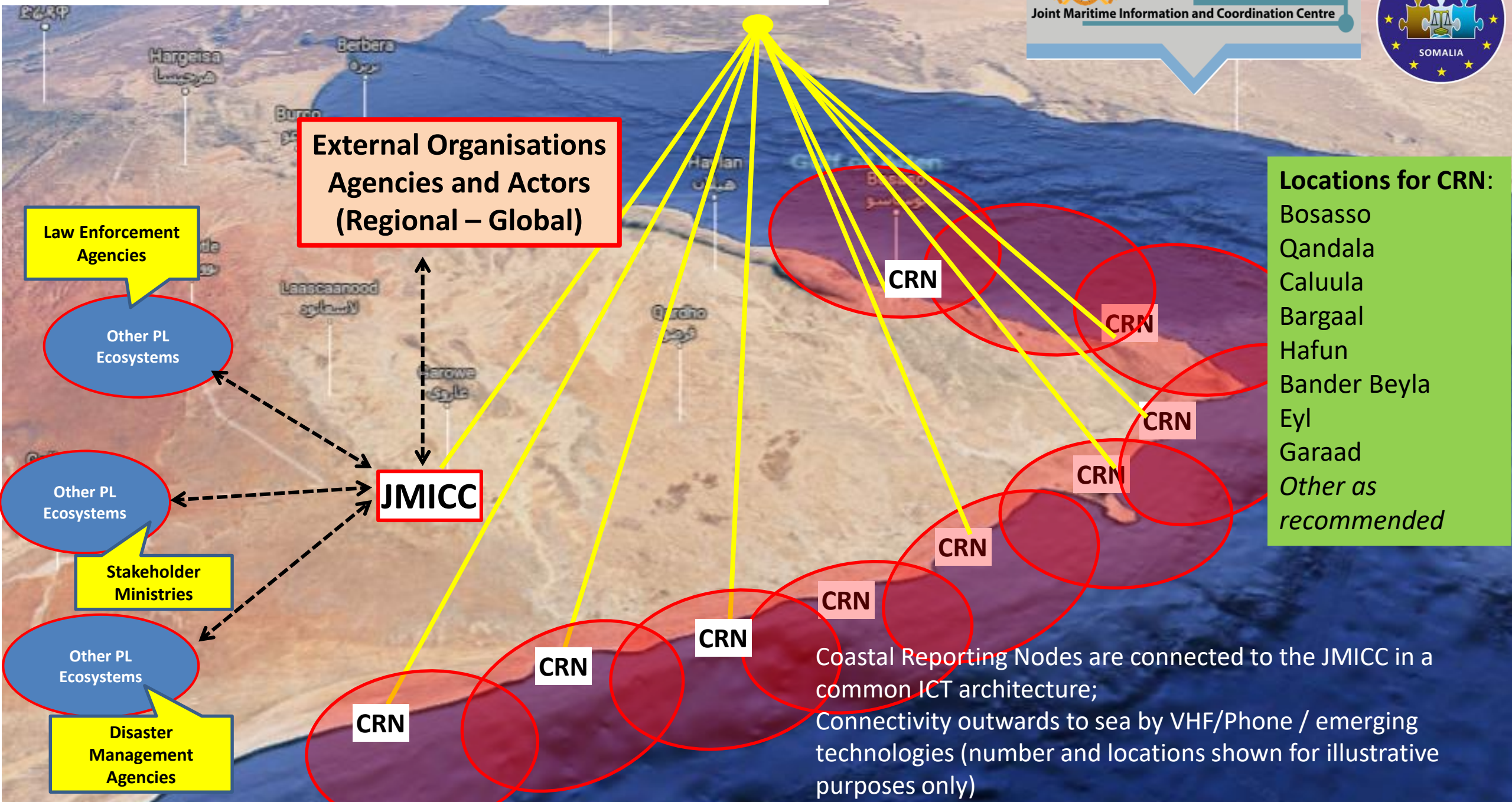
- **Political-Strategic Objective:**
  - support achieving and demonstrate persistent effective Maritime Governance
- **Tactical Objective:**
  - contribute to achieving effective and efficient (coastal) safety and security through improved shared awareness and rapid, factual information exchange; support decision making for cost-effective and efficient tasking of scarce maritime law enforcement capabilities (afloat and ashore); and as well as other Law Enforcement Agencies in the coastal areas on land
- **Precursor (i.e. testbed)** for an Interagency Puntland Situation Centre
- **Critical Enabler and Catalyst** for future major infrastructural development and resource generation through the exploitation of the ‘Blue Economy’ potential
  - Nexus security and development: enhancing productivity, sustaining economic recovery, boosting inclusive growth and promoting poverty reduction in Somalia.
  - Mitigate as much as possible risks and threats that discourage investment
- **Offset strategy** in view of limited indigenous sea-going law enforcement capabilities
  - Achieve operational effectiveness through targeted and collaborative “information operations”



# Vision for gradual transition and development



# JMICC Local, Regional, Global Connectivity



**External Organisations  
Agencies and Actors  
(Regional – Global)**

**Law Enforcement  
Agencies**

**Other PL  
Ecosystems**

**Other PL  
Ecosystems**

**Stakeholder  
Ministries**

**Other PL  
Ecosystems**

**Disaster  
Management  
Agencies**

**JMICC**

**CRN**

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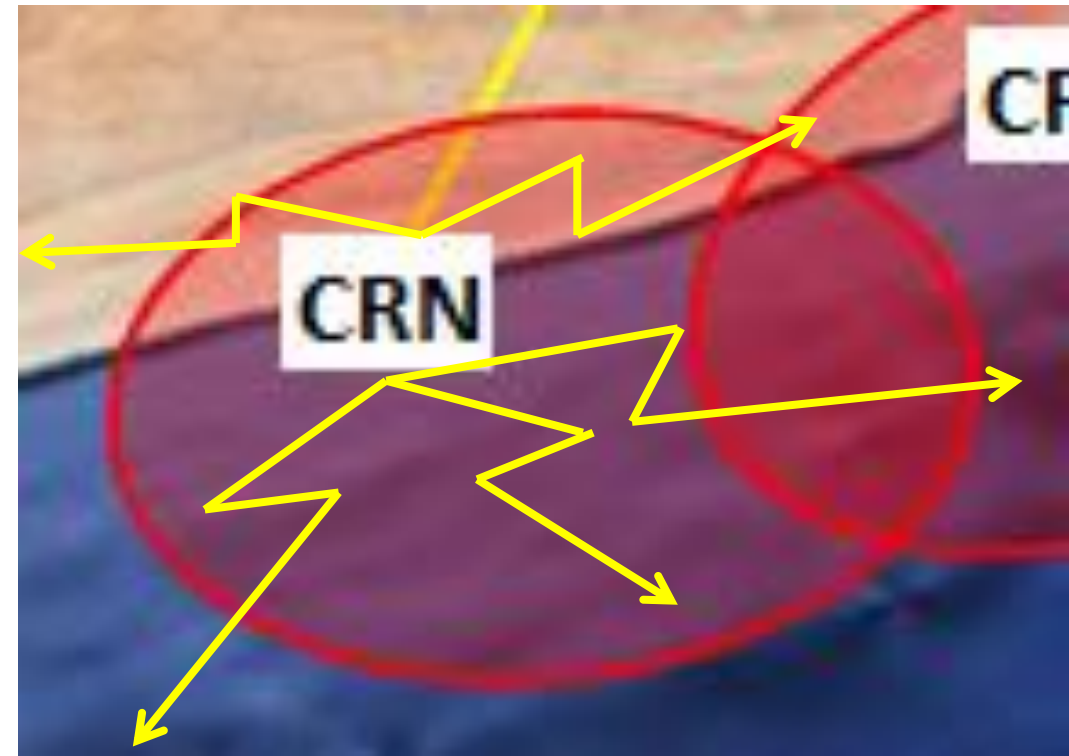
**Locations for CRN:**  
Bosasso  
Qandala  
Caluula  
Bargaal  
Hafun  
Bander Beyla  
Eyl  
Garaad  
*Other as recommended*

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)



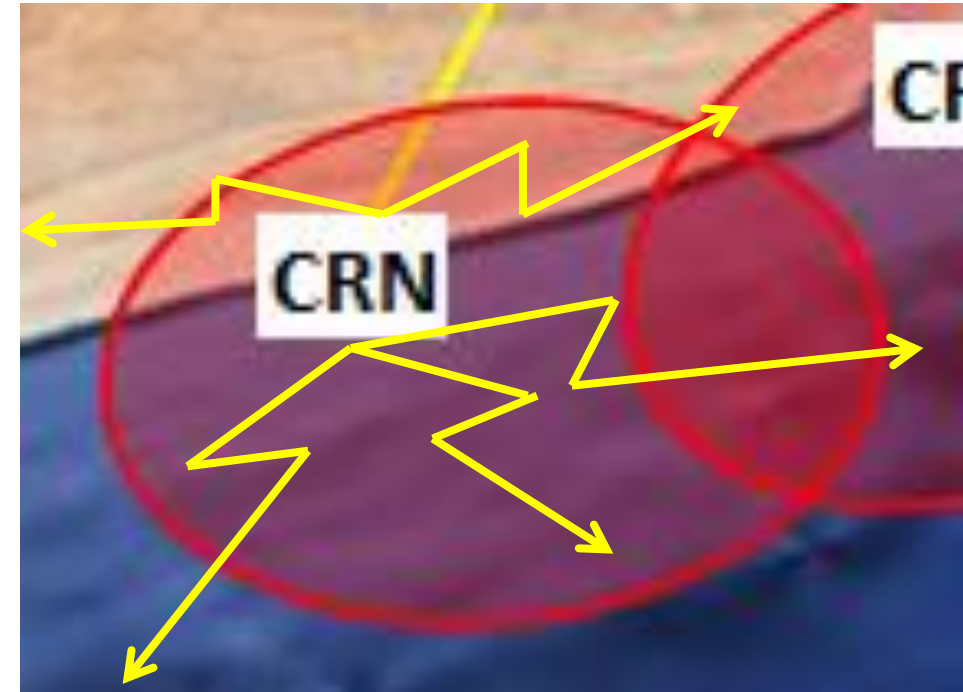
# Coastal Reporting Node (CRN) – What is it?

- An existing physical structure, such as a Police Station or local public building with ‘a spare room’ 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, furniture etc.
  - Effective manning of the ‘Ops room’ is very dependent on staff available; and electricity and internet being functional
  - Language: Somali, (very) limited English
- Additional Incident Control Point during emergencies, natural disasters
  - Not ‘just maritime’
- Mini Maritime Rescue Coordination Centre



# 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

# Meeting Deputy Mayor and Elders in 'Upper Eyl' – 15 Oct 2018





**13 Nov 2019**  
**Delivery,**  
**assembly,**  
**installation and**  
**testing IT and**  
**office furniture**  
**for Eyl**



## Other CRNs.....

- Bosasso almost operational, final installation of IT equipment in BP-MPU Operations Room on 27 November
- Next: **Garaad**
  - Will we use a temporary location first?
  - Will there be a new location identified (Survey end 2018?)
  - Request ASAP clarity how to proceed to have it operational before end 2019



# Phasing for CRNs (Intentions)

- 1<sup>st</sup> Phase to Improve Present Situation:
  - ICT connection to the JMICC ‘Ecosystem’
  - Automatic Identification Systems (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 and repeaters)
  - 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 (after 202x) – **EXAMPLES & SUGGESTIONS**

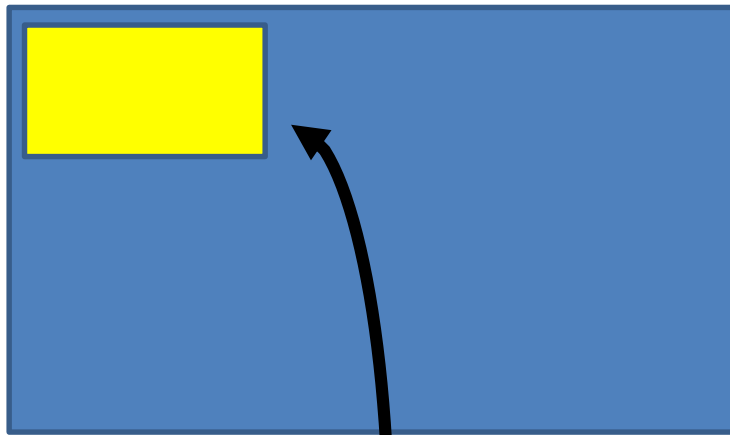
- Improve Present Situation through:
  - EO/IR sensors
  - Coastal radars

- **Replace CRNs by modern, bespoke 'nodes' with high-tech equipment (next slide)**

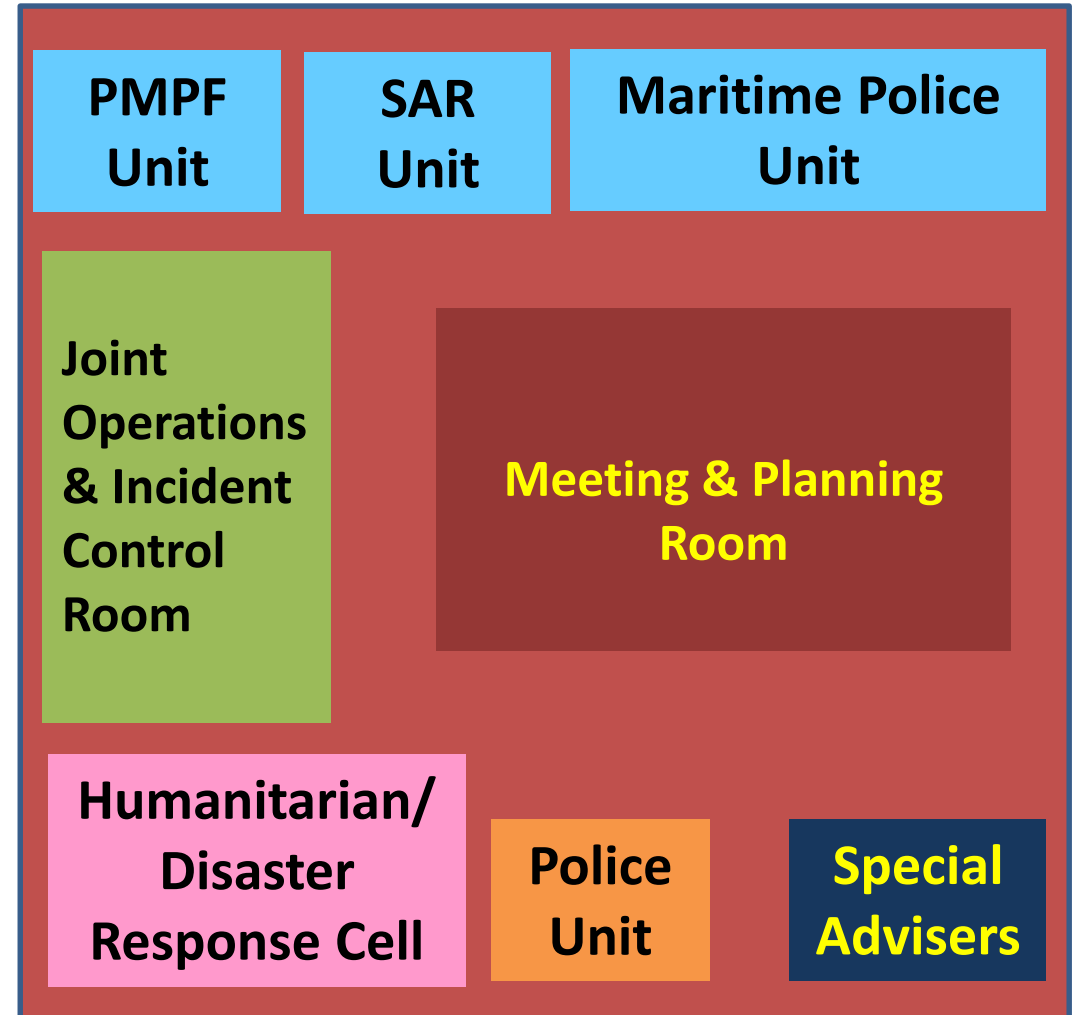
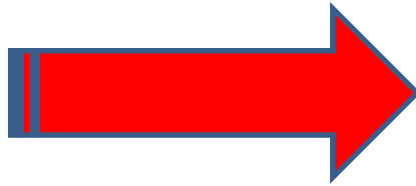


*“The Jamaican Government has ordered several Thales's Coast Watcher 100 coastal surveillance systems to strengthen its capabilities. Under the USD30 million contract, the company will supply a turnkey system built around several Coast Watcher 100 radars, electro-optical sensors, and Global Maritime 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)*

# “Next Generation Coastal Reporting Nodes”



‘From **one room** in an existing building towards a **multifunctional building**’



# Other Initiatives

- **Subventi**

- Proposal for installation of “AIS Class B” transmitter on fishing vessels
  - Position of fishing vessels can be monitored
- Provisional agreement between EUCAP Somalia and Subventi to use the **JMICC – Coastal Reporting Net infrastructure**
- Major synergy!



# **PUNTLAND SITUATION CENTRE**

# CONCEPT 3D IMPRESSION



# SECTION - CLIMATE RESPONSIVE ARCHITECTURE



## CONCEPT 3D IMPRESSION



Instructing authorities:

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