



**“Boat found but four Mayaro fishermen still missing”**

**“Hope fades for four missing fishermen”**

# SMART SEAS TOOLKIT TRAINING WORKSHOP

## DAY 3

*Under the ITU/CTU/TATT Smart Seas Toolkit  
for Disaster Resilience Project*

Presented by the Smart Seas Team  
14 Apr 2023

Say hi in the chat while we wait for the session to begin!

# Day 3 Check-In

# Day 3 Overview

## Day 1

- Toolkit Presentation
- Training: Plenary
- Q&A
- Training: MRCC & Coast Stations
- Q&A
- Day 1 Closure

## Day 2

- Training: Spectrum Mgmt Agencies
- Q&A
- Day 2 Closure

## Day 3

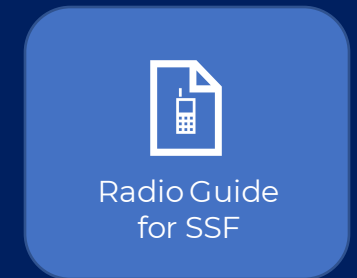
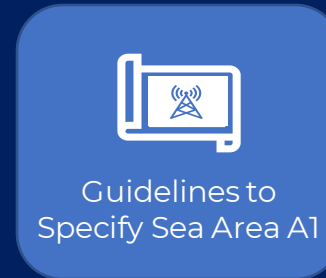
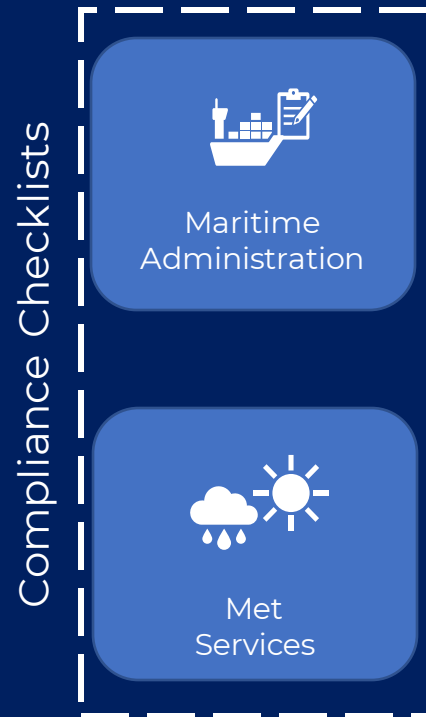
- Training: All Other Agencies
- Q&A
- Workshop Closure: All Agencies

# Training: All Other Agencies

## 3 Cases

1. Monitoring UN compliance
2. Notifying on Sea Area A1
3. Encouraging SSF radio use

## Smart Seas Tools



# Case #1: Monitoring UN Compliance

## Case

Monitoring **compliance** with **UN regs & recs**

## Agencies

- Maritime admins
- Met agencies

## Smart Seas Tools

Compliance Checklists



Maritime Administrations



Met Services

## Trigger

### For use:

- On prescribed schedule by UN
- On prompt from UN (in notifications)

### For update:

- On changes to UN conv & recs

# Case #1: Monitoring UN Compliance

## Compliance Checklist Scenarios

Maritime Admins

### Skipper certification

National legislation does not require skippers of fishing vessels be certificated nor does the national maritime administration monitor this

### Notification to IMO on shore-based facilities

The national maritime administration's policy has provisions for notification obligations. However, the agency has never notified

Met Services

### Record-keeping of all communications<sup>1</sup>

The national met service keeps record of all communications including time of origin and the information received in a shared database according the agency's official policy

### Notification to WMO on broadcast schedules, forecast areas & content

The national met service has notified to the WMO 5 years ago. However, since then broadcast schedules have been changed and notification obligations are not included in the agency's policy

<sup>1</sup> times of origin, transmission and reception of the information provided

# Case #2: Sea Area A1 Notification

## Case

Fulfilling obligations to **notify** & specify Sea Area A1

## Agencies

- Maritime admins

## Smart Seas Tools



## Trigger

- On reminder from UN
- On establishment of new VHF-DSC coast stations

# Case #2: Sea Area A1 Notification



## SOLAS Regulation IV/5.2:

*“Each Contracting Government undertakes to provide the Organization with pertinent information concerning the shore-based facilities in the maritime mobile service, mobile-satellite service and maritime mobile-satellite service, established for sea areas which it has designated off its coasts”*

## Scenario

The National Maritime Authority has never notified the IMO on its established Sea Area A1. They have embarked on planning and executing RF maritime measurements at sea to map A1. They have decided to use the Smart Seas’ RF Maritime Measurement Artefacts.

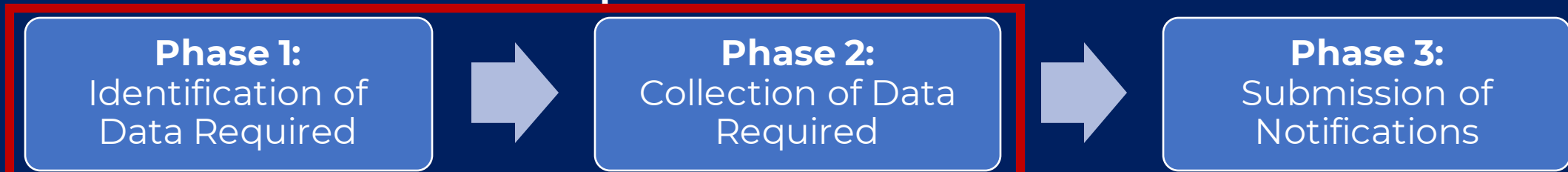
Question: What agency notifies IMO on Sea Area A1 in your country?



# Case #2: Sea Area A1 Notification



## Sea Area A1 Specification & Notification Process



# Case #2: Sea Area A1 Notification



## Required Data

### General Info:

- ✓ NAV/MET Area
- ✓ Country
- ✓ RCC Associated

### Station Information

- ✓ Name
- ✓ Type
- ✓ MMSI
- ✓ Position
- ✓ Range (NM)
- ✓ Purpose
- ✓ Status of Impl.
- ✓ Watch Hours on CH70

### Map Including:

- ✓ Name & Location of Main VHF Stations
- ✓ Transmitter & Receiver Coverage
- ✓ Name & Location of Associated RC(s)

# Case #2: Sea Area A1 Notification



## Multi-Agency Measurement Campaign Phases



# Case #2: Sea Area A1 Notification



# Case #2: Sea Area A1 Notification

Activity

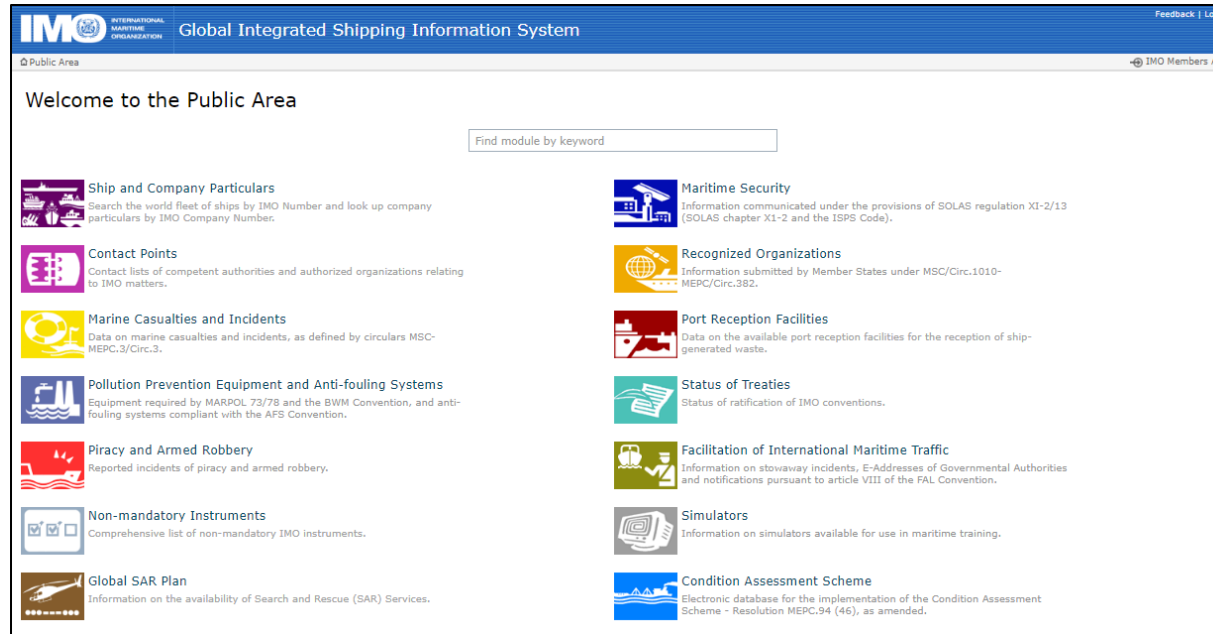
Notification obligations & designated agencies



Sea area A1 specification



Sea area A1 notification



IMO's GISIS<sup>1</sup> Portal

<https://gisis.imo.org/Public/Default.aspx>

<sup>1</sup>Global Integrated Shipping Information System

# Break

When we return: Case #3 - Encouraging SSF Radio Use

Resumes at 11:10 AM (AST)

# Case #3: Encouraging SSF Radio Use

## Case

To **encourage fishers** to use **radios**

## Agencies

- Fisheries divisions
- Fisheries NGO's
- Training institutions
- Maritime admins

## Smart Seas Tools



## Trigger

Fisher outreach

# Case #3: Encouraging SSF Radio Use

Activity

Float plan template completion



Keeping resources on hand



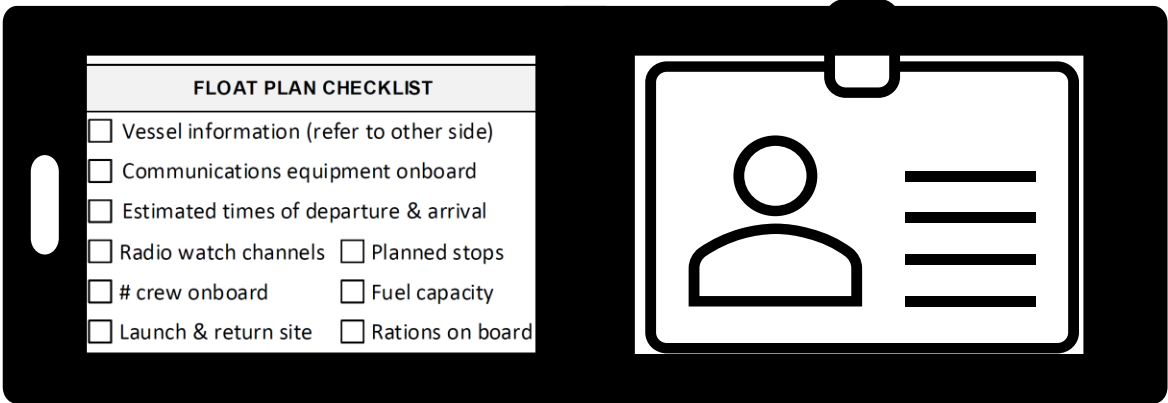
Key radio guidelines identification

## Float Plan Scenario

**Jeremy Roberts (37), Roger Seepaul (32) & Kari Phillips (31)** are planning to embark on a fishing trip on their **vessel Red Rogue (reg. no 435678)** at **9 am** to **Blue Rock** and expect to **return to Green Point Port at 2 pm**. The **vessel is red**, about **5 metres long** and is **equipped with a VHF radio** with the **callsign 9Y3MR** and **MMSI 003216579**. **Roger's cellphone** is usually on throughout the trip and can be **contacted at xxx-xxx-4321**.



# Case #3: Encouraging SSF Radio Use



**Laminated Wallet Card**

# Case #3: Encouraging SSF Radio Use

Activity

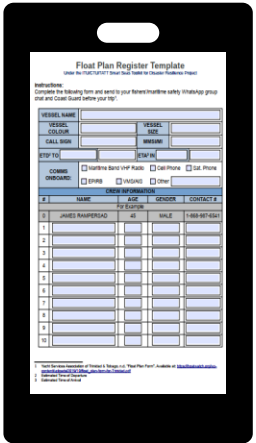
Float plan template completion



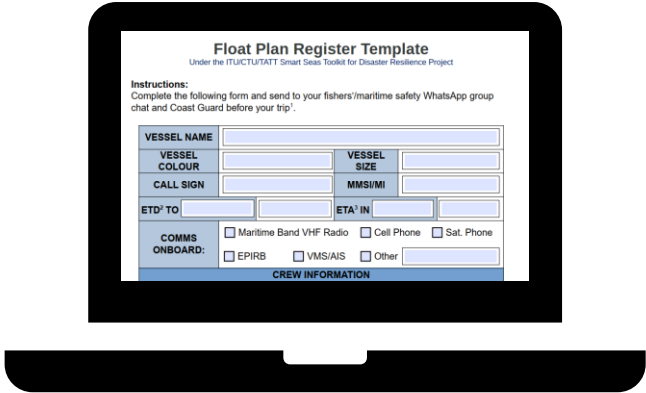
Keeping resources on hand



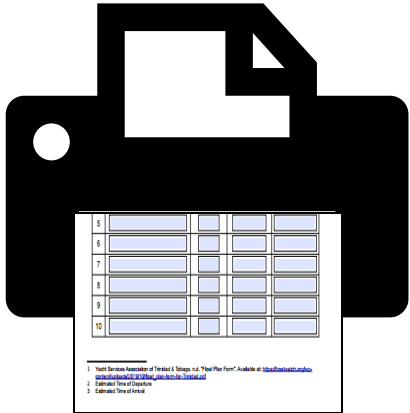
Key radio guidelines identification



Fillable Copy on Phone



Fillable Copy on PC



Printout

# Let's Recap:

**Question 1: The Maritime Authority records all information on incidents at sea relating to radio communications and shares with other agencies on a regular basis. What would be their compliance status according to SOLAS Reg IV/17.1?**

(a) Compliant

(b) Non-compliant

(c) Partially compliant

(d) Not Applicable

IMO SOLAS Conv Reg IV/17.1

*“A record shall be kept to the satisfaction of the Administration and as required by the Radio Regulations, of all incidents connected with the radiocommunication service which appear to be of importance to safety of life at sea”*

# Let's Recap:

**Question 2: Which of the following method(s) can be used to estimate & measure Sea Area A1?**

(a) RF Field Measurements

(b) Estimation using IMO's equations

(c) Coverage simulations

(d) Coast Stations

(Hint: select all that are true)

# Let's Recap:

**Question 3: The artefact which fishers can fill detailing their vessel information, arrival & departure info and comms and persons on board is called a:**

(a) Emergency Report

(b) Float Plan

(c) MRCC Survey

(d) Radio Plan

# Let's Recap

## Case 1

Monitoring UN  
Compliance

- Structured monitoring of maritime comms-related UN compliance

## Case 2

Sea Area A1  
Notification

- Multistakeholder approach to fulfilling obligation to notify on sea area A1

## Case 3

Encouraging SSF  
Radio Use

- Convenient resources to support effective use of the radio for SSF safety

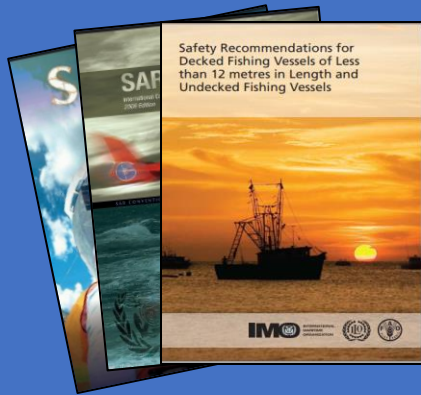
# Questions: Your Turn

(Please raise your hand & we will call on you)

Session feedback:  
<http://bit.ly/3KE0wkl>



# Toolkit Provides Resources to...



Support & monitor  
**compliance** with  
**UN regs & recs**



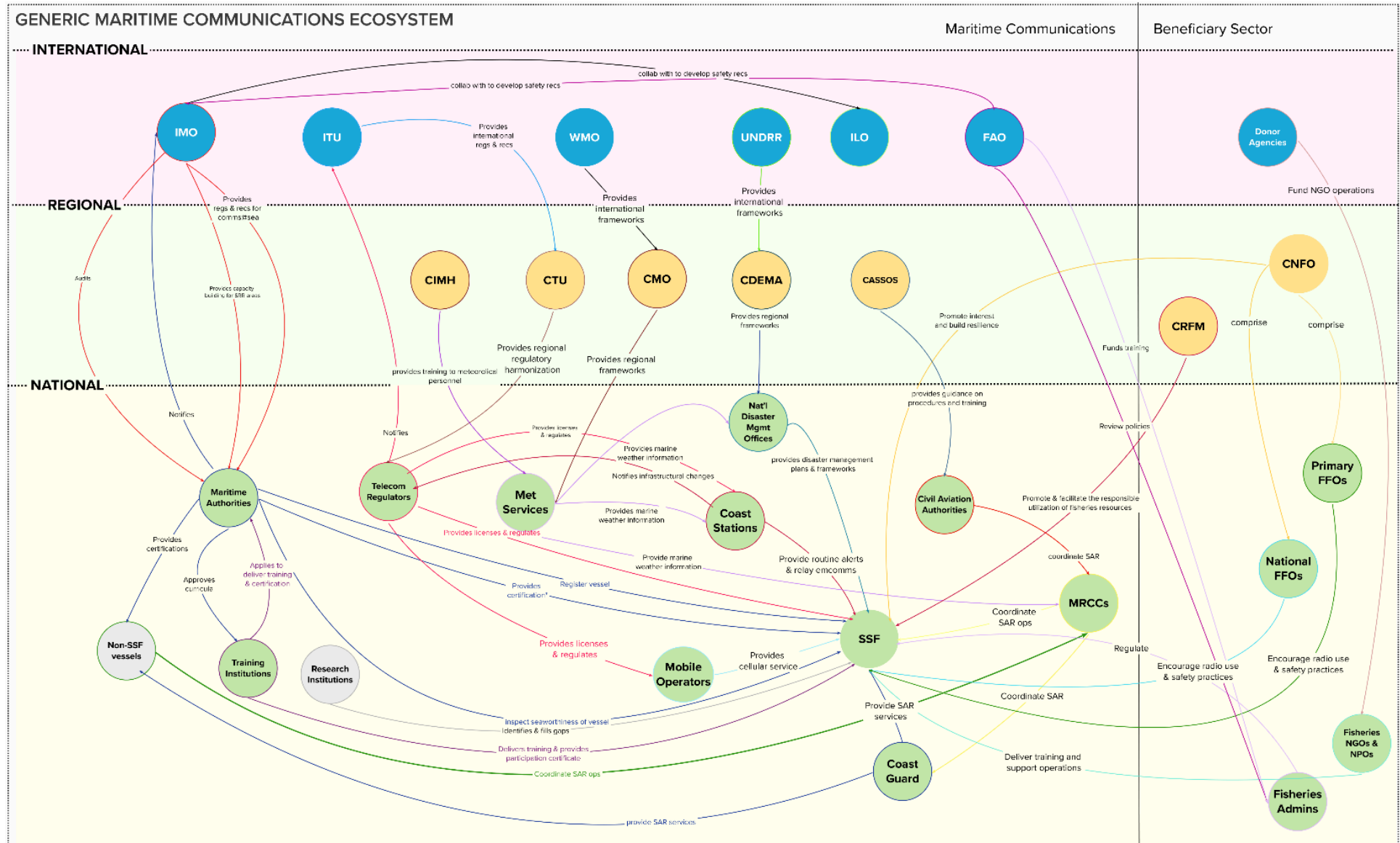
Strengthen  
**operations** within  
the ecosystem



Strengthen **VHF**  
**radio capacity**



# Toolkit Beneficiary Agencies



# Toolkit Recap

Informational Resources

Checklists

Guidelines

Templates

Guidelines & Templates

Data Collection Resources

## REGULATION

*Compliance Tracking*

UN Compliance:



Checklists



Opportunity Estimator

## OPERATIONS

*Strengthening the Ecosystem*

Ecosystem



Ecosystem Maps 2022



Agency Role Specification

Info product Dev & Dissemination



Register of Carib. Coast Stations



Map of Carib. Coast Stations



Key Website Messaging Resources

Data Collection



Register of Incidents at Sea



MRCC & Coast Station Survey



UN-Compliant Licensing Form



RF Measurement Planning & Execution Resources



TTO Measurement Strategies & Tools



Guidelines to Specify Sea Area A1



VHF Channel Usage Specification

Ltd. Coast Station Ops



Operationalizing Limited Coast Stations



Radio Guide for Limited CS Ops

SSF Radio Ops



Float Plan:

- Register
- Checklist



Radio Guide for SSF

## CAPACITY

*Knowledge, Skills & Resources*



Nominal VHF Radio Curricula for:

- SSF
- CS

# Toolkit Training Recap

## Day 1: All Agencies

Case 1: UN Compliance

Case 2: Data Collection

Case 3: Info Product  
Dev & Dissemination

Case 4: Capacitating  
the Ecosystem

## Day 1: MRCCs & Coast Stations

Case 1: Op'ing Ltd.  
Coast Stations

Case 2: Supporting  
UN Notifications

## Day 2: SMAs

Case 1: Monitoring  
UN Compliance

Case 2: Info Product Dev &  
Dissemination

Case 3: RF Monitoring  
& Meas

## Day 3: All Other Agencies

Case 1: Monitoring  
UN Compliance

Case 2: Sea Area  
AI Notification

Case 3: Encouraging  
Radio Use

# Closure



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Regional Policy Development,  
Caribbean Telecommunications  
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**Mrs. Cynthia  
Reddock-Downes**

Chief Executive Officer,  
Telecommunications Authority of  
Trinidad and Tobago (TATT)

# Next Steps: AID in Filling Gaps

Adapt | Integrate | Develop

**A**dapt the tools to fit  
your jurisdiction

**I**ntegrate the tools into  
your existing processes

**D**evelop an enabling  
environment, together

**Thank You**