



**Asia-Pacific  
Economic Cooperation**

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**2018/OFWG/WKSP1/006**

# **Forum Fisheries Agency Monitoring Control and Surveillance Systems Framework and Strategies**

Submitted by: Forum Fisheries Agency



**Experts' Workshop on Illegal, Unreported  
and Unregulated Fishing  
Singapore  
27 April 2018**



**FFA**

# **FFA MONITORING CONTROL AND SURVEILLANCE SYSTEMS FRAMEWORK & Strategies**

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**APEC 2018: - IUU Workshop: Singapore**

**Noan Pakop**

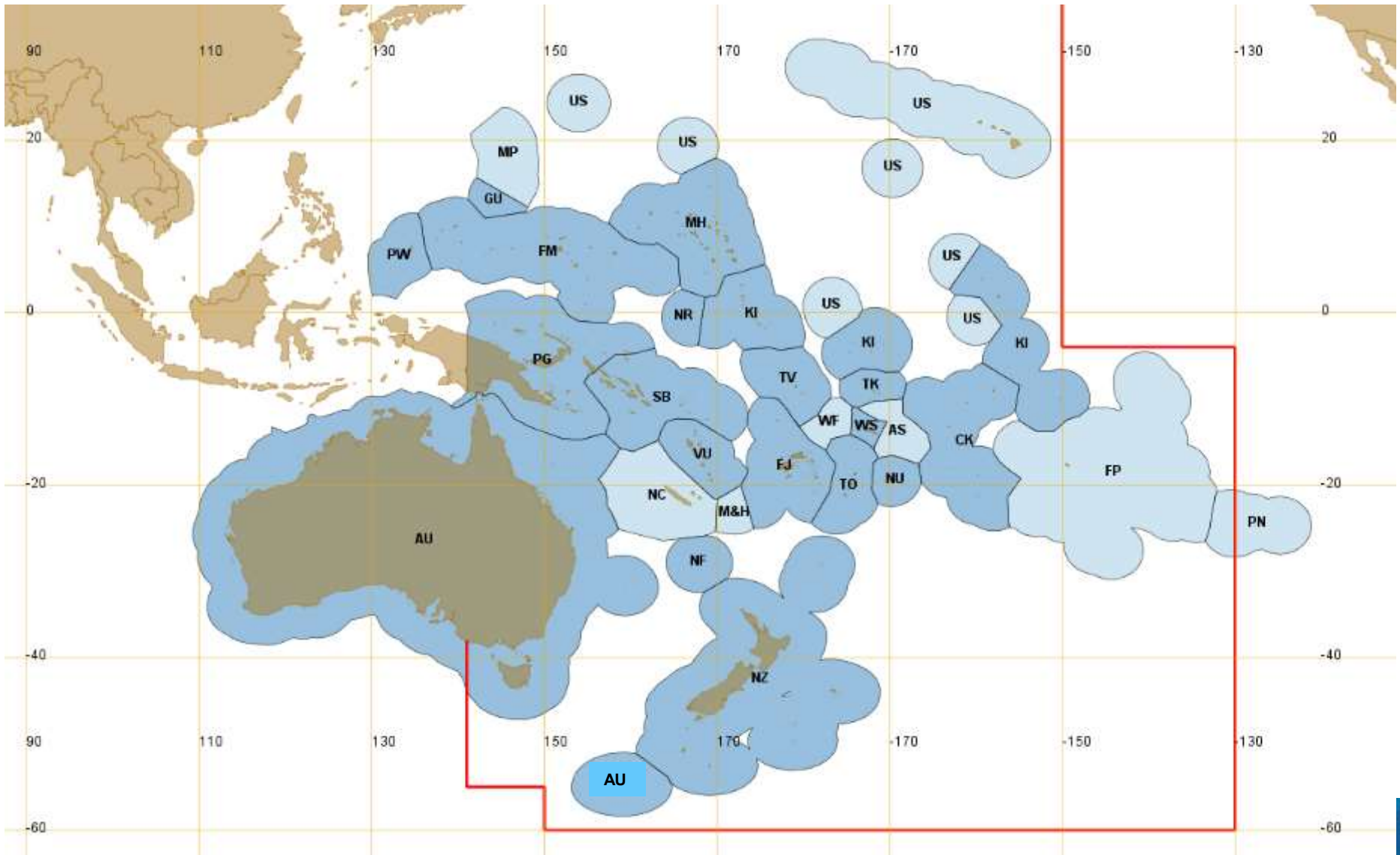
**Director : Fisheries Operations**

**Forum Fisheries Agency**



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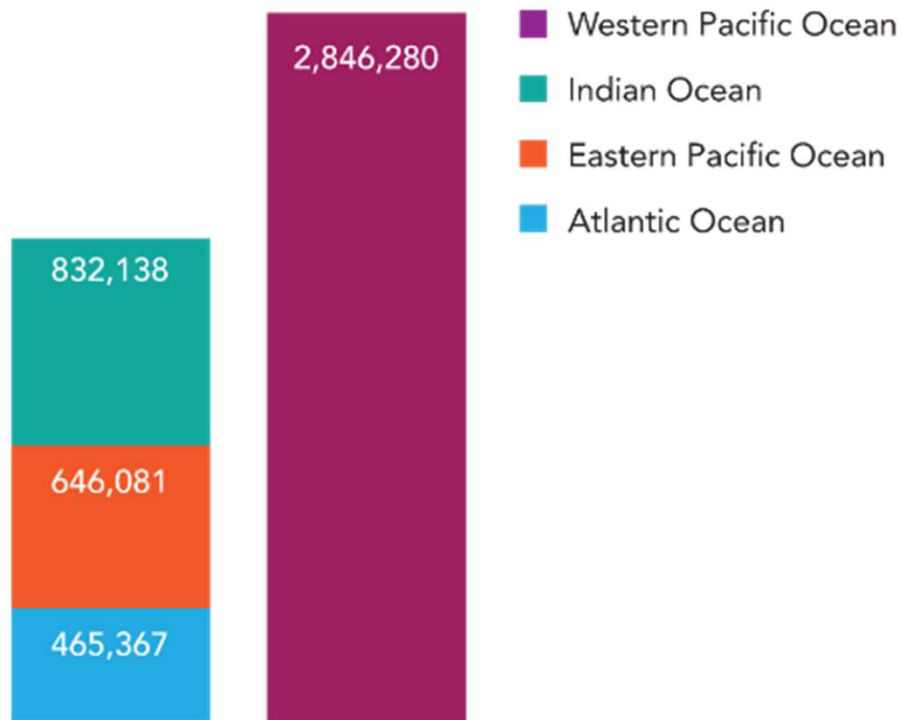
# WCPO and FFA waters



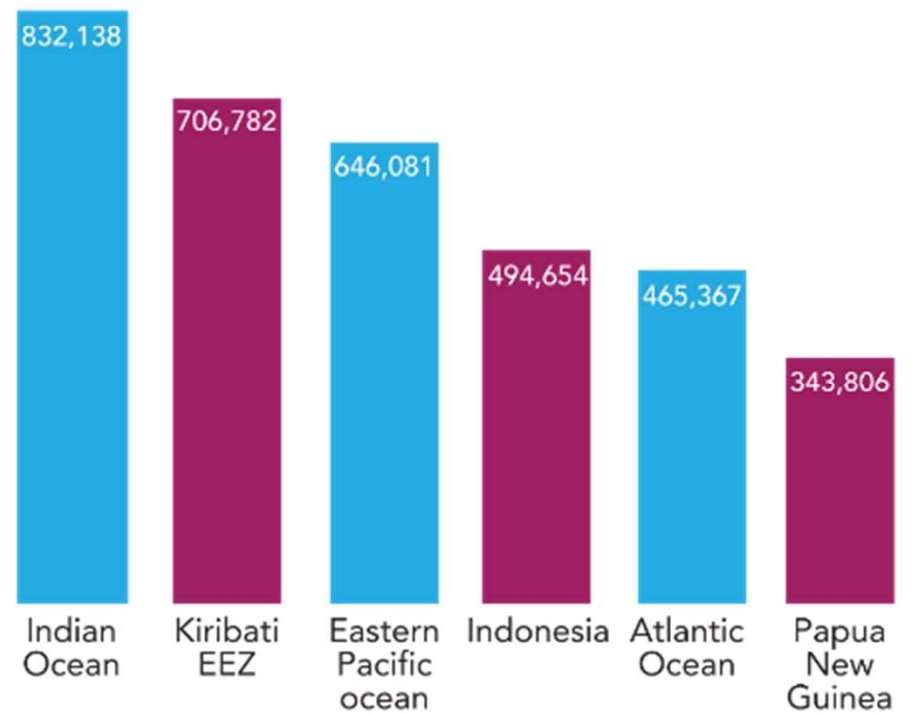


# Western Pacific Ocean in Context

Tuna catch by Ocean Basin (2014)



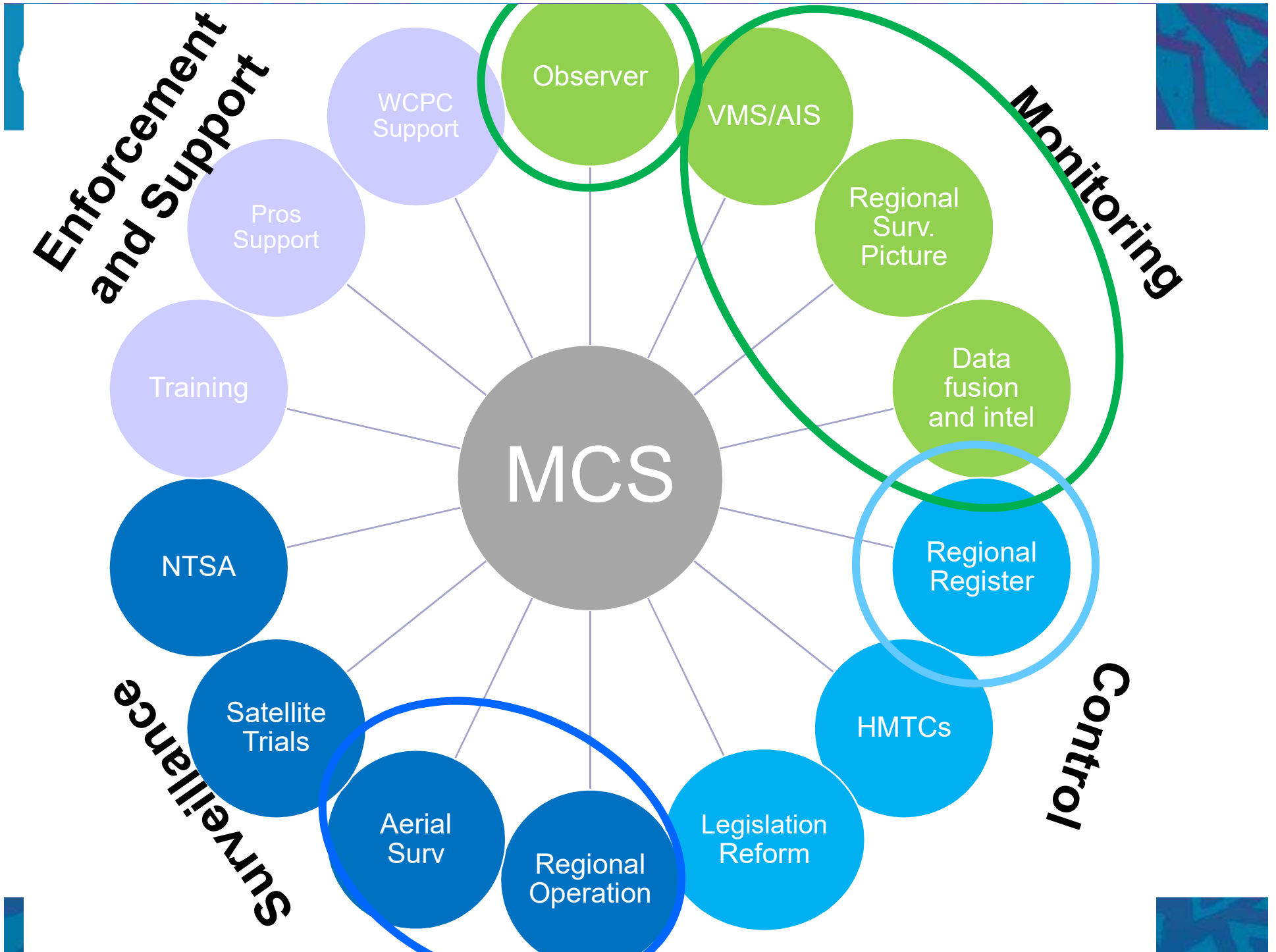
Pacific EEZs versus Ocean Basins





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## 2. FFA Regional MCS Framework



2/12/2014 12:26 am

# Regional Operations

Operation RAI BALANG  
Operation ISLAND CHIEF/BIG EYE

Operation TUI  
MOANA

KURUKURU

Image Landsat

Data SIO, NOAA, U.S. Navy, NGA, GEBCO

Google earth

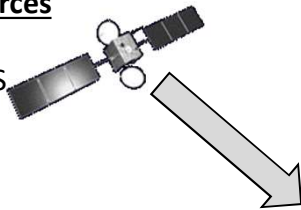
9°57'38.52"S 179°50'29.94" E elev -157 m eye alt 8049.81 km



# “A Comprehensive System”

## VMS Data Sources

- FFA VMS
- WCPFC VMS
- AIS



VMS datasets are validated and correlated, and cross-referenced with regional and national info on eOps to determine level of IUU risk

## Regional Surveillance Picture

(Displays all VMS datasets and MCS info on a single picture for ease of use)



Analysed fisheries info disseminate to Members to support national MCS activity



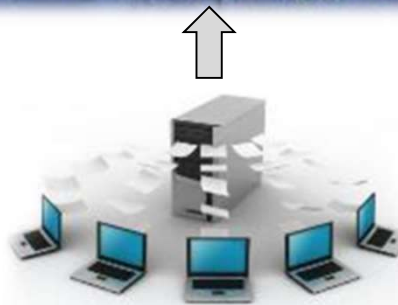
**Members**

Members take enforcement actions by deploying national assets, use of long-arm enforcement options, and Prosecution under national laws



**National Information Management System**

National MCS Information feed into eOps



**FFA Electronic Operations Room (eOps)**

(One-Stop-Shop for MCS info to aid analysis)

Regional MCS Information feed into eOps



**Regional Databases**







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### **3. FFA Regional MCS Review and Strategies**



# Regional MCS Evaluation

## ➤ Main Findings

- MCS Framework is sound
- Significant progress implementing RMCSS but  
**IUU fishing is still an ISSUE**
- Changes to the design and focus of the MCS Framework is required to maintain progress



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## Main findings : IUU Quantification Study

**Volume:** 306,440t

**GOOD NEWS**

This is down -  
previous  
estimates were  
750 million to  
1.5 billion

**BAD NEWS**

This is still a  
large part  
(10%) of total  
catch

duct either  
ing IUU

(US  
value



# Key Risk Areas

<b>Risk</b>	<b>Best Estimate (t)*</b>	<b>Best Estimate (\$)*</b>
Reporting violations	167,341	\$313.42
Post-harvest risks	39,580	\$164.12m
Other license conditions	88,440	\$117.93m
Unlicensed fishing	11,078	\$20.65m

\*Upper and lower limits provided



# MCS responses

## **Risk**

## **Current FFA supported initiatives/responses**

Licensed fleet

- National MCS capability & capacity
- Harmonised licensing MTCs
- Pacific Patrol Boat program
- Data sharing arrangements
- E-Reporting and E-Monitoring
- Supply chain
- Evaluation of observer coverage



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## **Risk**

## **Current FFA supported initiatives/responses**

Illegal transshipment (LL sector)

- Coordination of data/stats from regional operations
- WCPFC reforms – esp High Seas
- Enhance aerial surveillance
- Data cross-verification
- Catch Documentation
- Port inspections



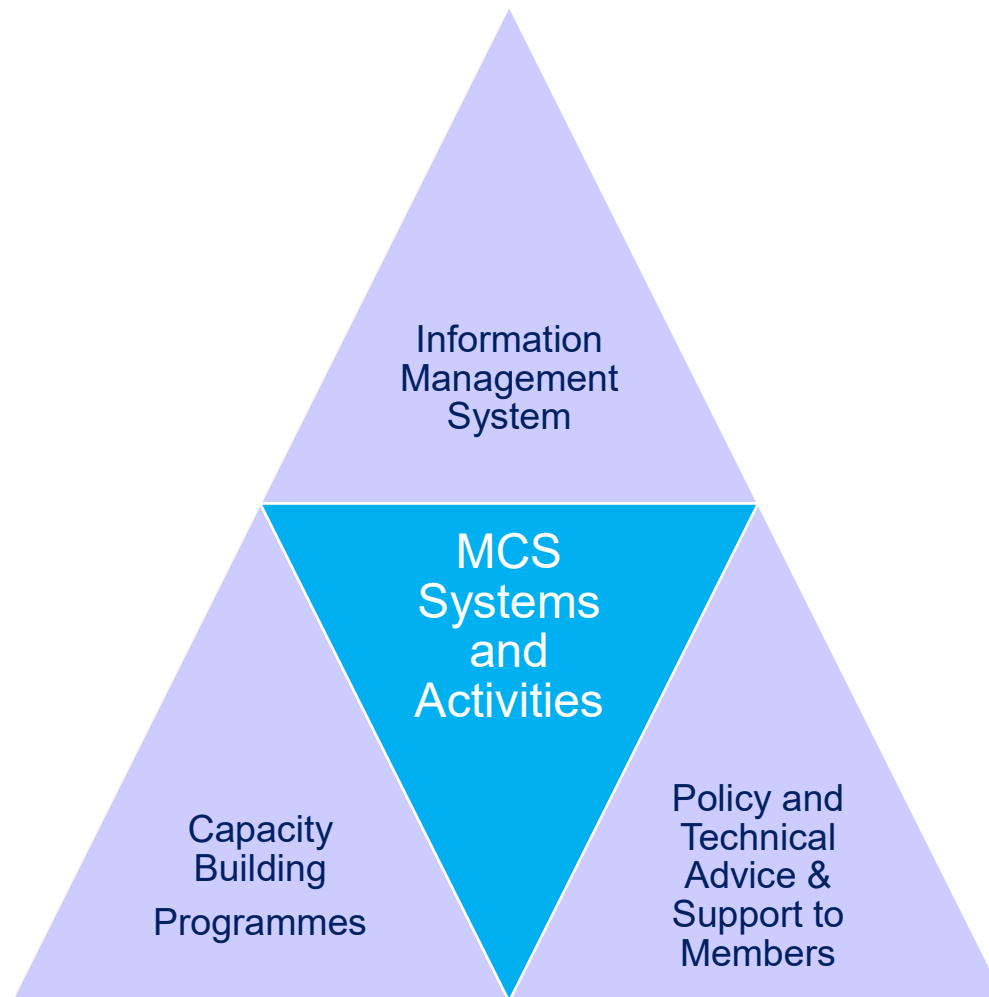
# MCS responses

<b>Risk</b>	<b>Current FFA initiatives/responses</b>
Data deficiencies	<ul style="list-style-type: none"><li>• <b>Implementing and enhancing E-Reporting and E-Monitoring</b></li><li>• <b>More detailed data cross-verification (e.g. logsheet vs. observer data)</b></li><li>• <b>Implementing Catch Documentation Scheme</b></li><li>• <b>Increased port inspections</b></li><li>• <b>Stronger sanctions for catch reporting violations</b></li></ul>



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# Regional Coordination - National Action







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# Thank you

