



FMC

Fisheries Monitoring Center

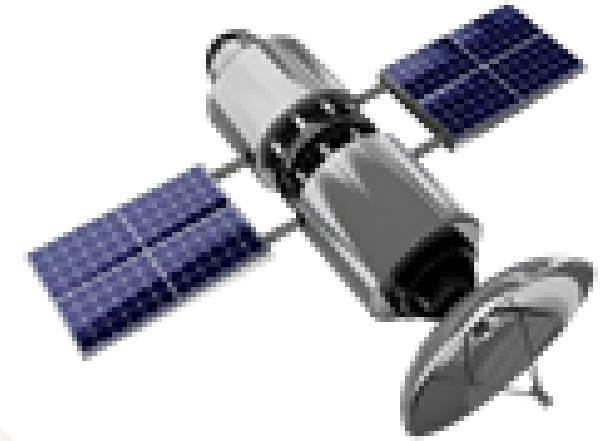
Fishing and Fleets Management Division

Department of Fisheries, Thailand



- HISTORY OF FMC
 - MISSIONS
- FMC OPERATIONS
 - CASE STUDIES

Topics



History of FMC



Pilot project for tracking fishing Vessels

- Used Global System Mobile Communication system (GSM)
- Limitations: Not real time monitoring when vessels go beyond reception area

In 2017 : Upgraded VMS Center to Fisheries Monitoring Center (FMC)

- Upgraded VMS devices
- Upgraded relevant VMS regulations

2011

2015

2017

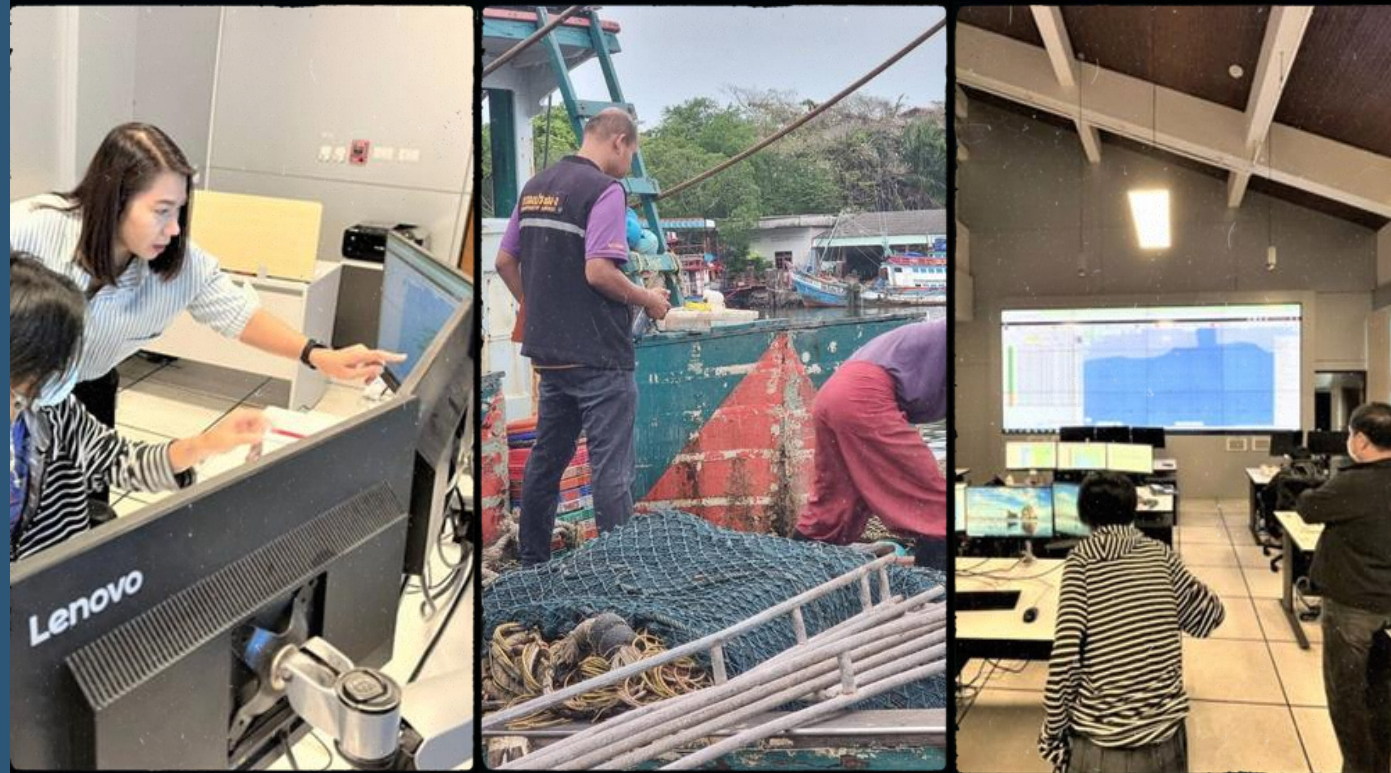
Established VMS Center

- Introduced Satellite technology for real time monitoring (Royal ordinance on Fisheries, 2015)
- Installed for fishing vessels and related vessels >30 GT
- VMS signal transmits every 1 hour



Missions

- **Control Domestic Fishing Vessels and Carriers**
- **Control Thai Flag Oversea Fishing Vessels and Carriers**
- **Verify Foreign Flag Vessels before port in to Thailand**



FMC Operations



Control Room

4 Shifts Monitoring

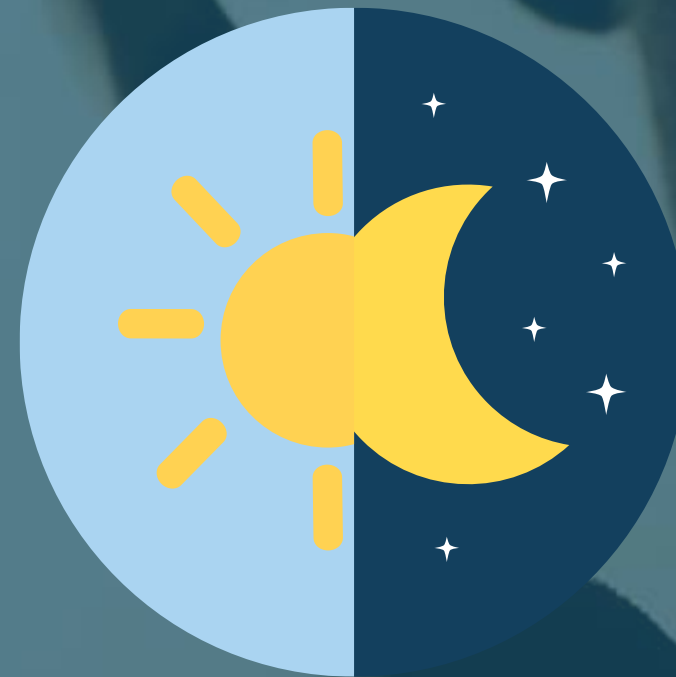
8 Staff/Shift

2 Days work/ 2 Days Off

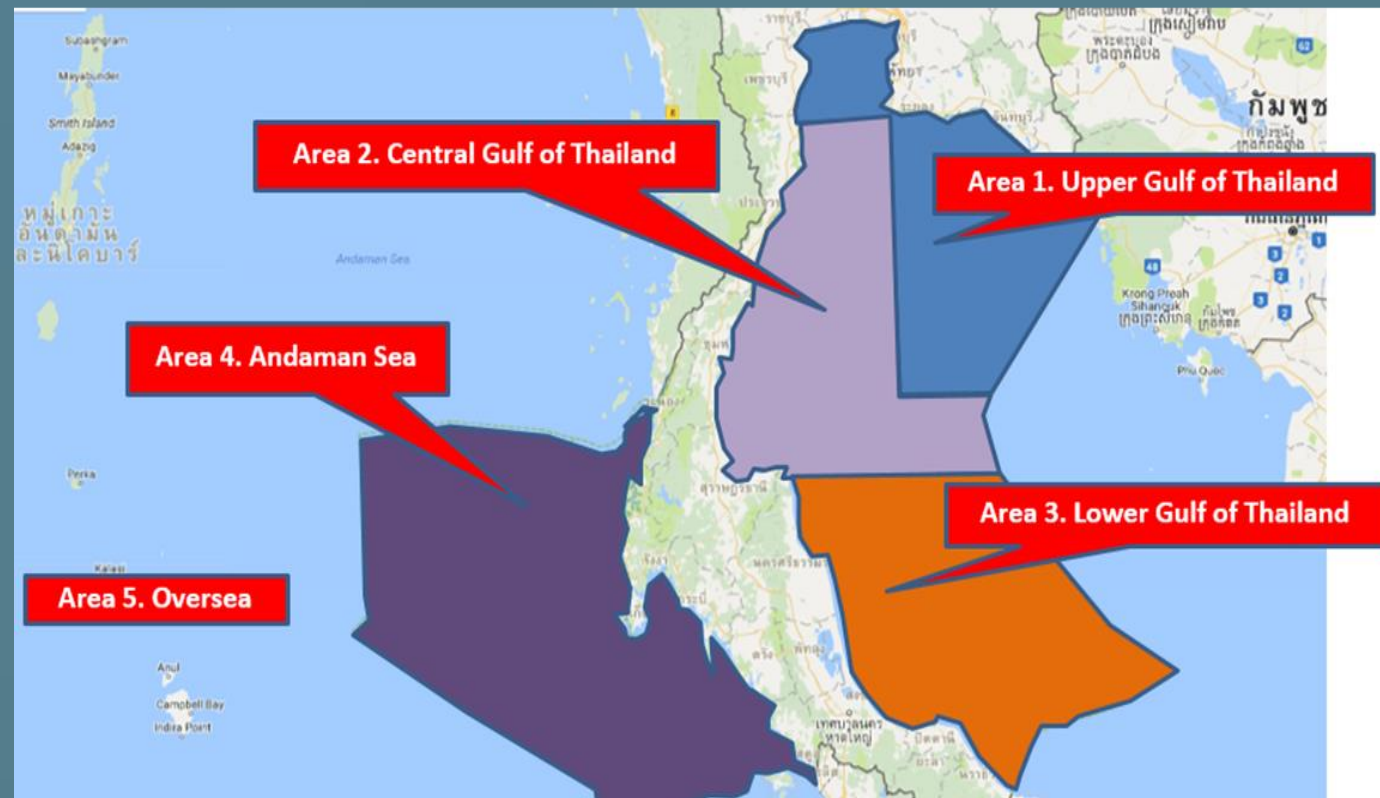
24/7



7 A.M.
7 P.M.



7 P.M.
7 A.M.



Vessel Monitoring System



Speed Position Time

Heading ID Vessel Device Status



Satellite Communication



Land Earth Station



Thai Service Provider



Operation



vms.fisheries.go.th

VMS

DOF Tracking History Position Compare Location EEZ Watch Withhold Vessel Random Alert Fisheries Report

S	Risk FI	Vessel Name	Position	Speed	Update	Route
1	I	มโน	Thailand EEZ, 11° 0.052', ...	0.6 knot	00:49:58	
2	I	มโน	Thailand EEZ, 10° 54.384'...	0.4 knot	00:49:58	
3	S	มโน	Thailand EEZ, 2544 จด 1,7...	0 knot	00:49:58	
4	I	มโน	Thailand EEZ, best report 1...	0.4 knot	00:50:59	
5	S	มโน	Thailand EEZ, best report 1...	0 knot	00:49:58	
6	M	มโน	Thailand EEZ, 11° 35.705'...	6.5 knot	00:01:30	
7	M	มโน	Thailand EEZ, 2544 จด 1,7...	5.7 knot	00:16:37	
8	S	มโน	7° 11.732', 100° 35.324'	0 knot	00:34:49	
9	I	มโน	Thailand EEZ, 11° 46.910'...	0.4 knot	00:49:58	
10	I	มโน	Thailand EEZ, 9° 0.012', 9...	0.2 knot	00:16:35	
11	M	มโน	Thailand EEZ, 7° 37.907', ...	5.3 knot	00:46:57	
12	M	มโน	Thailand EEZ, 10° 5.202', ...	2.2 knot	00:19:38	
13	I	มโน	Thailand EEZ, 7° 8.981', 9...	0.4 knot	00:19:38	
14	M	มโน	Thailand EEZ, 13° 5.061', ...	2.2 knot	00:19:37	
15	I	มโน	Thailand EEZ, 8° 49.076', ...	0.2 knot	00:19:37	
16	M	มโน	Thailand EEZ, 8° 3.590', 9...	1.1 knot	00:16:35	
17	S	มโน	Thailand EEZ, 2544 จด 1,7...	0 knot	00:16:37	
18	S	มโน	Thailand EEZ, 2544 จด 1,7...	0 knot	00:16:35	
19	M	มโน	Thailand EEZ, 7° 46.809', ...	2.6 knot	00:16:35	
20	S	มโน	Thailand EEZ, 9° 0.041', 9...	0 knot	00:16:35	
21	S	มโน	Thailand EEZ, best report 1...	0 knot	00:49:58	
22	I	มโน	Thailand EEZ, 8° 58.294', ...	1 knot	00:50:59	
23	M	มโน	Thailand EEZ, 8° 44.895', ...	2.2 knot	00:44:56	
24	M	มโน	Thailand EEZ, 8° 46.552', ...	3.6 knot	00:49:57	
25	I	มโน	Thailand EEZ, 9° 1.997', 1...	0.6 knot	00:55:01	
26	I	มโน	Thailand EEZ, 11° 56.885'...	0.3 knot	00:01:30	
27	M	มโน	Thailand EEZ, 11° 29.747'...	5.5 knot	00:01:30	
28	S	มโน	Thailand EEZ, 63 4/4, 1...	0 knot	00:01:30	
29	S	มโน	Thailand EEZ, 63 4/4, 1...	0 knot	00:01:30	
30	I	มโน	Thailand EEZ, 7° 55.762', ...	0.2 knot	01:00:05	
31	S	มโน	not detected, 9° 56.55...	0 knot	01:00:05	
32	M	มโน	Thailand EEZ, 8° 46.082', ...	3.3 knot	00:55:01	
33	I	มโน	Thailand EEZ, 11° 28.494'...	0.6 knot	00:49:58	
34	I	มโน	Thailand EEZ, 11° 35.836'...	0.5 knot	00:44:56	
35	M	มโน	Thailand EEZ, 8° 45.035', ...	4.1 knot	00:44:56	
36	I	มโน	Thailand EEZ, 9° 49.292', ...	0.7 knot	00:44:56	

Map Satellite

Box ID: [REDACTED]
Vessel Name TH: [REDACTED]
Vessel Name EN: [REDACTED]
Call Sign: false
Cruise License: 392100190
Fisheries Card: [REDACTED]
Number: 659401010860
FL issue date: 2022-03-29
FL exp. date: 2024-03-31
Ship Expire: 2024-03-02
Overseas:
Speed: 0.4 knot
GPS Provider: เทพนิศา
Thailand EEZ
Lat/Lng: 7° 48.739', 101° 27.183'
Risk FI:
Incidence:
Box abnormal report:
Cradle status:
Update (UTC+7): 2024-01-31 00:05:51
Update (UTC): 2024-01-30 17:05:51

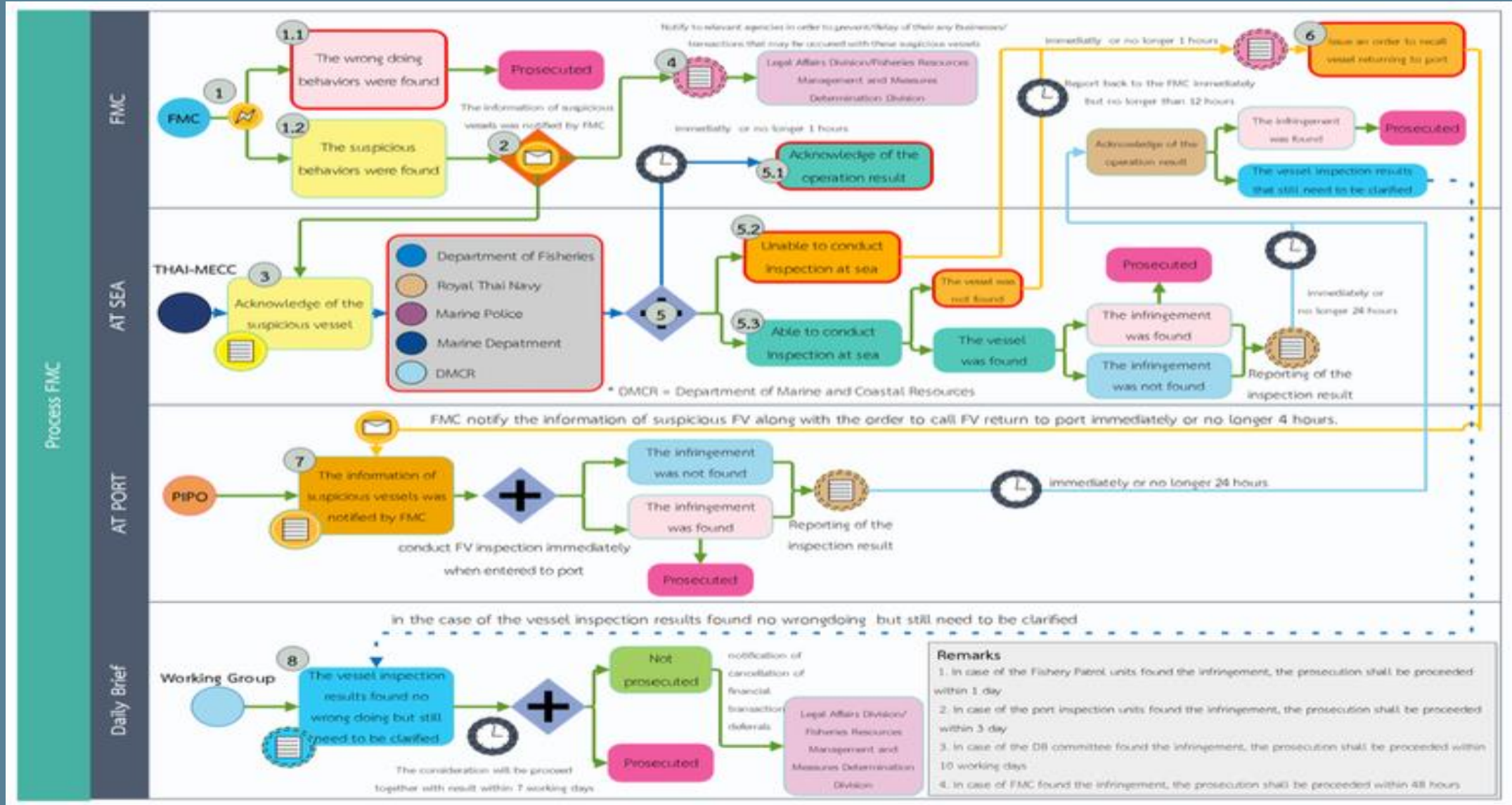
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Online on 2024-01-30 23:49:24 | Tracking+ © 2012, Xsense Information Service Co., Ltd. | © Copyright DEPARTMENT OF FISHERIES 2011

Operation



- Department of fisheries
- 30 - Port In Port Out Control
- 21 - Forward Inspection Point : FIP



Inspection at sea



Inspection at Port





Air Surveillance



เวลา ๐๕๑๓ บ.ลว.๑ ได้บินไปยังจุดที่ ศปก.ศรชล.ภาค ๑
 แจ้งพบกลุ่มเรือประมง จำนวน ๓ ลำ

ACFT 12-10-17N 218°

34 33 00 01 02

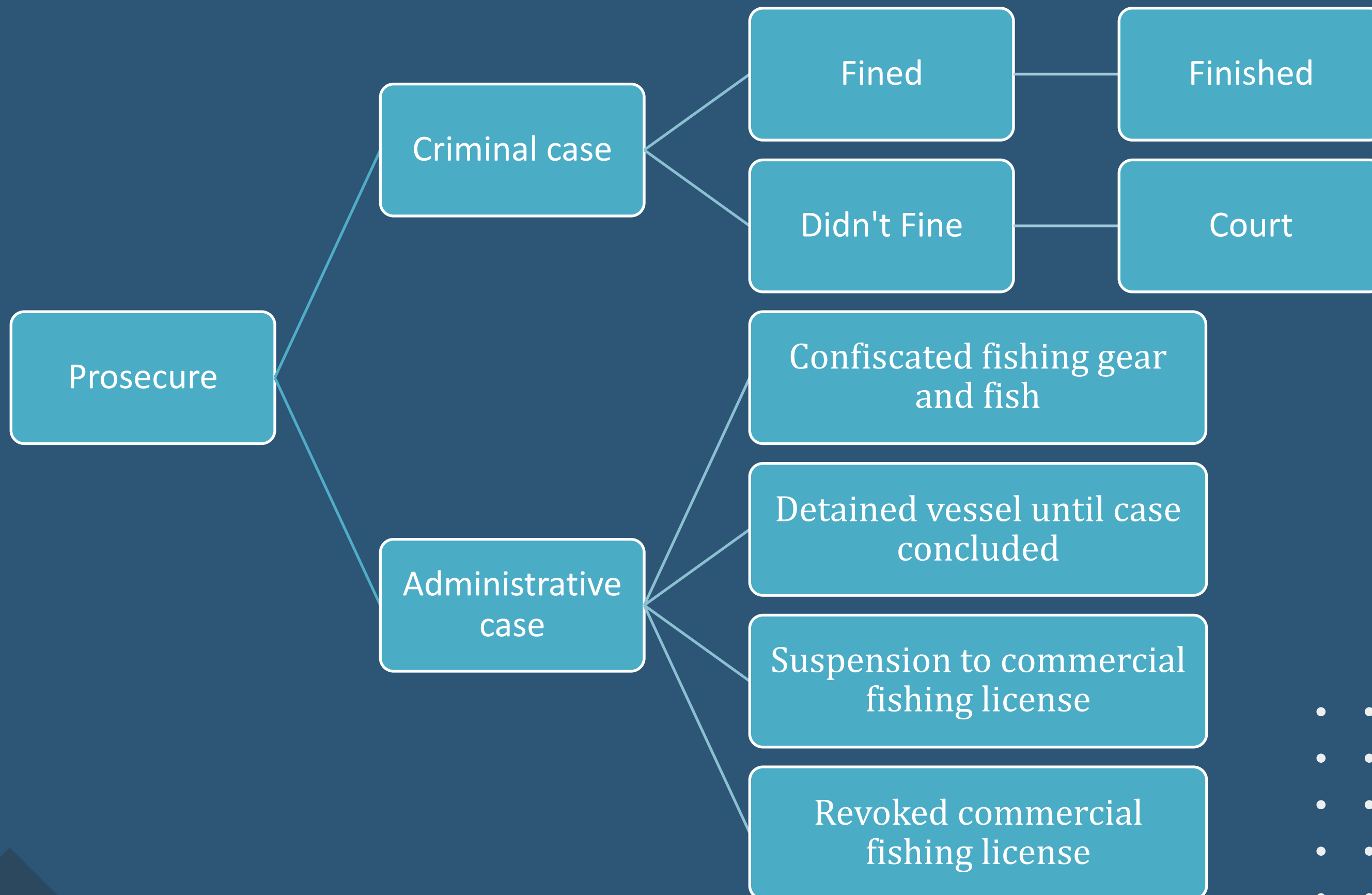
OFF NONE

NEWPOI TGT 217° 11:53:41N

0:00:11

0:02:33

Legal Proceeding







Thank You

Fisheries Monitoring Center

Call: 02-561-3132

Line ID: @114velss