

# ELECTRONIC MONITORING

## 電子モニタリング (EM)

**DRIVING TRANSPARENCY & SUSTAINABILITY IN  
OUR FISHERIES**

漁業の世界で透明性と持続可能性をけん引するには

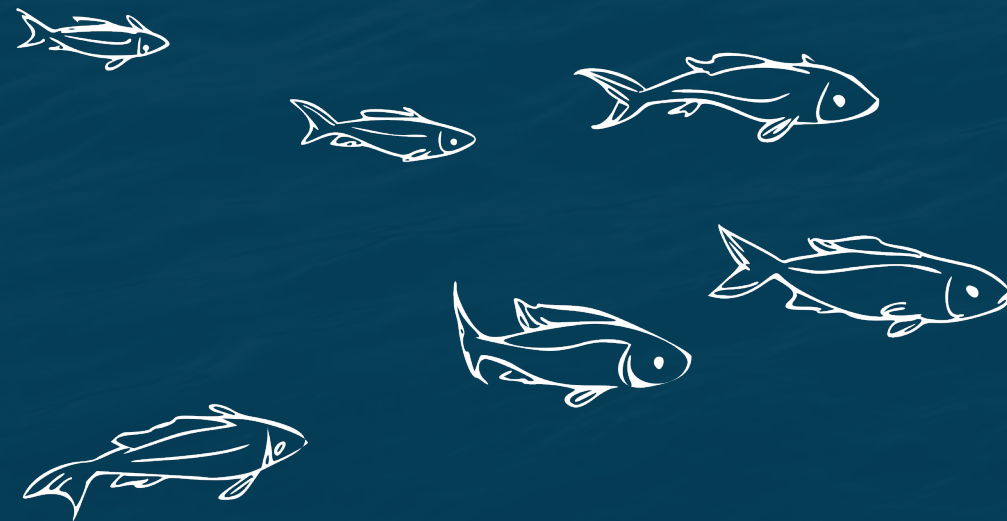
Mark Zimring  
*Program Director, Large Scale Fisheries*

MAY 2023

# Presentation Overview

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## 今日の概要



### 1. Overview of TNC EM Experience

EMに関するTNCのこれまでの経験

### 2. Key Lessons Learned

得られた主な教訓

### 3. Update on EM Policy Status in EU

EUのEM関連政策に関するアップデート

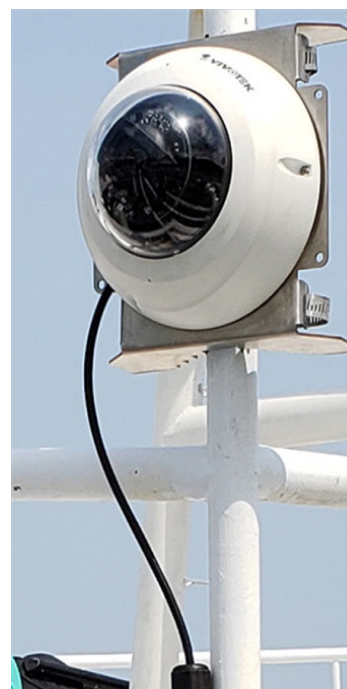
✓ TNC IS SUPPORTING EM IN OVER 20 COUNTRIES GLOBALLY WITH FISHERIES AGENCIES, COMMUNITIES, AND FISHING INDUSTRY.

TNCは世界20カ国以上で漁業担当政府機関、地域コミュニティー、水産業界などとEMをサポートする活動を実施中



# TNC's EM JOURNEY

## TNCのEM関連活動の歩み



2016

- **Launched 4-Country Coordinated Pacific Longline Tuna Pilot**  
4カ国間で調整されたマグロ延縄漁業のEMパイロット事業立ち上げ

2017

- **FSM Announces Technology for Tuna Transparency (T3) Challenge, commitment to 100% monitoring**  
ミクロネシア政府がマグロのモニタリング実施率を100%にする「T3チャレンジ」を発表

2018

- **Transition from Tuna Focus to All Large-Scale Fisheries**

2019

- **Developed First EM Performance Standards**

2020

- **Thai Union 100% Monitoring Partnership Signed**  
タイユニオン社とモニタリング実施率を100%にするパートナーシップを締結

2021

- **Launched Pacific Island Tuna** 「Pacific Island Tuna」設立
- **Launched industry-Led EM Accelerator with Seven Tuna Suppliers on 250+ Vessels**

2022

- **Fish Meal/Fish Oil Initiative Launched**  
「フィッシュミール・魚油イニシアチブ」を設立

2023

- **Several Major Public and Private Sector 100% Monitoring Commitments Pending**

# OUR GOAL: 100% LARGE-SCALE FISHERIES MONITORING

目標 「大規模漁業のモニタリングカバー率を100%にする」

## TECHNOLOGY 技術

- **Edge Computing Risk Assessment Tool**  
最先端のコンピューティング  
リスク評価ツール
- **Global Electronic Monitoring Data Platform**  
グローバルなEMデータプラットフォーム



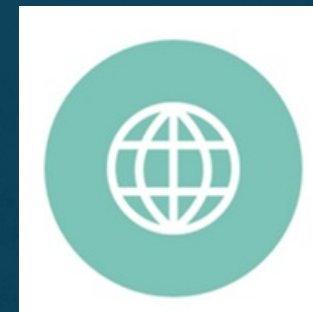
## ON-THE-WATER 洋上

- **Demonstrate value of EM in key regions to accelerate country commitments**  
各国の関心を高めるため、主要地域でEMの価値を示す
- **EM for transshipment monitoring and verification**  
洋上転載の監視と認証
- **EM to support human rights safeguards** 人権擁護の支援



## MARKETS 市場

- **Drive industry leadership - secure 100% monitoring commitments from mid-stream and downstream stakeholders**  
業界のリーダーシップをけん引  
— サプライチェーン中流・下流の  
関係者から100%モニタリング  
のコミットメントを得る



## POLICY 政策

- **Streamline program implementation via EM performance standards**  
EM基準の設定により、実施プログラム間の歩調を揃える
- **Support enabling policy for EM uptake at national & regional levels**  
国・地域レベルの導入を可能にする政策の策定を支援



# WHAT HAVE WE LEARNED?

## これまでの教訓

1

仔細が重要

**The Details Matter.** EM policy is like energy policy—critical to get the details right to ensure that implementation matches ambition.

2

リードするのは市場

**Markets Will Lead.** National/Regional policy is lagging market leadership.

3

長期的な効果にとって肝になるのは、二国間・多国間サポート

**Bilateral/Multilateral Support Key to Long-Term Efficacy.** Public funding & technical support to coastal/island nations will be critical to professionalization & capacity building so that better data=better outcomes.

4

費用や機能性の問題は誇張されている面があるものの重要

**Cost/Functionality Profile Issues Overstated but Important.** Cost concerns a red herring. Opportunities to improve functionality to ensure relevance.

5

国家の安全保障との関連が大きくなりだしている

**National Security Considerations Emerging.** EM's potential role in strategic maritime security initiatives has not yet overridden industry interests in key geographies, but the tide may be turning.

# European Union EM Update

Legal Framework

EUのEM関連政策に  
関するアップデート

法的枠組み

- **The EU Common Fisheries Policy (CFP)** 「EUの共通漁業政策」
  - Goal: Ensure that fishing and aquaculture activities are environmentally sustainable and consistently managed to achieve long-term economic, social and employment benefits
- **EU Fisheries Control Regulation (Regulation (EC) No 1224/2009)** 「EUの漁業規則」
  - Sets out monitoring, inspection and enforcement of fishing operations in EU waters and activities of the EU fleet globally
  - In 2018, the European Commission proposed a revision of the EU Fisheries Control Regulation, identifying significant weaknesses in its current form and encouraging uptake of new technologies (**incl. EM**) to improve fisheries control

2018年、欧州委員会が現行規則の大きな弱点を指摘し、EMなどの新技術を導入する見直しを提案

## European Union EM Update

EM Goals

EUのEM関連政策に  
関するアップデート

EM関連の目標

### 精度の高いデータの収集

- **Accurate data collection:** the European Fisheries Control Agency (EFCA) found a significant proportion of fisheries-dependent data in Europe as sub-optimal and vulnerable to widespread misreporting<sup>1</sup>

### 問題のある種の混獲モニタリング

- **Monitoring bycatch of sensitive species:** every winter, over 10,000 common dolphins die in fishing nets over a three-month period in the Bay of Biscay<sup>2</sup>

### コンプライアンス

- Ensuring **compliance** with the rules, including the landings obligation

<sup>1</sup>European Fisheries Control Agency, 'Annual Report for the Year 2018' (2019):

<https://www.efca.europa.eu/sites/default/files/EFCA%20Annual%20Report%20for%20year%202018.pdf>

<sup>2</sup>Technical Analysis: Landing Obligation and Bycatch Monitoring of Cetaceans (2021):

<http://www.transparentfisheries.org/wp-content/uploads/2021/02/REM-and-bycatch-Fact-Sheet-technical-analysis.pdf>



## European Union EM Update

Status

EUのEM関連政策に  
関するアップデート

現状

- 現在議論されている政策は3通り
- Three policies under consideration:
    - ① 欧州委員会案—大きさに関係なく全ハイリスク漁船へのEM導入を支持。
      - **European Commission:** supporting EM on ‘high risk’ fishing vessels regardless of vessel length
    - ② 欧州議会案—全長12m超のハイリスク漁船、とりわけ水揚げに関する規則を遵守しないリスクのある漁船へのEM導入を支持。
      - **European Parliament:** supporting EM on ‘high risk’ fishing vessels above 12m length or more, specifically those deemed at risk of non-compliance with the Landing Obligation.
    - ③ 欧州理事会案—水揚げに関する規則を遵守しない「深刻なリスク」がある全長24m超の漁船へのEM導入を支持。加盟国がより広範な漁船に導入することへのインセンティブを設けることを支持。
      - **European Council:** supporting EM on vessels deemed ‘serious risk’ of non-compliance with the Landing Obligation, above 24m. Support EU Member States providing incentives for broader uptake.
  - **Final decision imminent [likely a compromise]**  
最終判断はもうすぐ出る予定(おそらく折衷案になる)