Project Updates: Potential Projects - Determining Microplastics Distribution in Coastal Aquaculture Input System and Developing Its Mitigation Plan Towards Seafood Safety; Capacity Building on Vessel Innovation to Combat Marine Debris

Purpose: Information
Submitted by: Indonesia
Project Updates: INDONESIA

Ministry of Marine Affairs and Fisheries
INDONESIA
17th OFWG Meeting
17-18 August 2021
Potential Projects

Determining Microplastics Distribution in Coastal Aquaculture Input System and Developing its Mitigation Plan towards Seafood Safety

Capacity Building on Vessel Innovation to Combat Marine Debris
Determining Microplastics Distribution in Coastal Aquaculture Input System and Developing its Mitigation Plan towards Seafood Safety

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Determining Microplastics Distribution in Coastal Aquaculture Input System

**OBJECTIVES**

- To produce evidence-based information regarding microplastics contamination level and distribution within coastal aquaculture input chain
- To develop capacity and competency of project participants in regulatory and standardized methods of microplastics in aquaculture
- To initiate and develop a mitigation plan and future collaboration to address the APEC-wide issue of marine litter particularly microplastic distribution in seafood aquaculture input chain

**Eligibility & Fund Priorities**

Tackles the overlooked impacts of microplastics to aquaculture

[Safe guarding the quality of life through environmentally sound growth by providing safe and healthy seafood aquaculture products to customers globally]

**Relevance**

- Developing human capital through capacity building in microplastic analysis
- Developing stable, safe & efficient capital markets through structural reform regulatory framework and free or minimal microplastic contamination

**Capacity Building**

- Participants' Capacity Building & evidence-based microplastics distribution in Aquaculture

**Building a common and standardized guide on microplastic prevention in aquaculture**
Determining Microplastics Distribution in Coastal Aquaculture Input System

**ACTIVITIES**

1. **Desk Study**
   - Participants of Desk Study
   - The APEC economies

2. **Research Activity**
   - Three APEC economies in research
   - Research institutions/contractors

3. **Training & Policy Workshops**
   - 21 Representatives from APEC Economies
   - Media
   - General participants

4. **Project's overall outcomes**
   - APEC Economies
   - Network
Determining Microplastics Distribution in Coastal Aquaculture Input System

PROJECT’S MILESTONES

**Research**
- Initiating research preparation (methods and guidelines preparations, finding and selecting third party contractors to carry out the research)
- Conducting a collaboration research
- Collecting samples from other input chain of coastal aquaculture
- Sample data tabulation and analysis

**Research Reports**
- Data interpretation and analysis
- Consultation and Writing Report

**Training and Workshop**
- 2 days workshop to disseminate the research and develop alternative mitigation plan
- 3 days capacity building training on MPs methods & analysis

**Training & Workshop Report**
- Writing and finalizing training and workshop reports

**Project Completion**
- Final report and mitigation plan recommendation
- Circulating the final reports of study desk, research findings, and workshop to other fora/sub fora and other non-APEC entities
- International publications

**Desk Study**
- Developing framework to assess existing policy framework and standard method
- Consolidating with potential partner/researchers for desk study and training
- Online workshop to compile existing policy
- Opening submission and selection for training participants
- Training preparation

**14 Months**
Determining Microplastics Distribution in Coastal Aquaculture Input System
Determining Microplastics Distribution in Coastal Aquaculture Input System

Meet the Core Team

Hatim Albasri, Ph.D.
Researcher (Heavy metal pollution in Aquaculture)

Dr. Rasidi
Researcher (Heavy metal pollution in Aquaculture)

Dr. Rinny Rahmania
Researcher (Marine Debris, Mangroves, microplastics)

Loiita Thesiana
Researcher (Aquaculture)

Dr. Dwiyitno
Researcher (Biotech, Microplastic)

Counterpart

Australia

Viet Nam

Economy #1

Economy #2
Determining Microplastics Distribution in Coastal Aquaculture Input System

Co-sponsoring Economies

Chinese Taipei  Chile
Capacity Building on Vessel Innovation to Combat Marine Debris

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Capacity Building on Vessel Innovation to Combat Marine Debris

**Background**

Marine debris is a real fact faced by every APEC Economies. It threatens fisheries, marine ecosystem, transportation, tourism and even livelihoods sectors in every economy. The debris leakage from land to rivers to sea, then to Pacific Ocean is increasing.

**Objective**

The objective of this project is to develop a guidelines and recommendation for vessel innovation, fleet management and collaboration in international waters to cope with the marine debris. It is expected to support capacity building aspect with research and innovation aspect as mandated in APEC Roadmap on Marine Debris.
Indonesia’s Debris Carrier, Collector & Incinerator vessels

1. Seribu Island Regency.
2. Bekasi City (Citarum River).
3. Debris Incinerator Vessel (DIV) concept (for small islands).
Capacity Building on Vessel Innovation to Combat Marine Debris

**Eligibility & Fund Priorities**

This project applies for ASF Sub-Fund on Marine Debris Management and Innovation.

- It will inform marine debris management technologies, and promote new technologies and innovation for reducing the prevalence and environmental impact of marine debris.

**Benefit to Region**

Addressing marine debris that leaked into the sea and stranded in remote areas requires specific technology and collaborations among economies with common paradigms to deliver it effectively.
## Capacity Building on Vessel Innovation to Combat Marine Debris

### Work Plan

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<thead>
<tr>
<th>Date</th>
<th>Activities</th>
<th>Deliverables</th>
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| February – July 2022 | - Pre survey  
                    | - Comparative study in co-sponsor economies focusing on marine debris management. | - Field survey report  
                    |                                                                              | - Draft of symposium material. |
| August – September 2022 | - Symposium activity.                                                     | - Guidelines,  
                    |                                                                              | - Recommendation and sharing experiences among economies. |
| January – February 2023 | - Drafting final report.                                                  | - Final report.                                            |
Capacity Building on Vessel Innovation to Combat Marine Debris

**Progress**

- **June 2021:**
  - Concept Note Submission

- **July 2021:**
  - CN Endorsement by OFWG

- **Now:**
  - BMC for Inprinciple Approval
Determining Microplastics Distribution in Coastal Aquaculture
Input System

Co-sponsoring Economies

Thailand

Chinese Taipei
THANK YOU

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