

**USAID Sustainable Fish Asia Local Capacity Development Activity  
Training on Fisheries Traceability Technology for Sustainable Fisheries Management**

**Description of existing fisheries traceability technologies for sustainable fisheries  
management relevant to small scale fisheries**

Dear Participant,

In order to obtain an overview of the current situation regarding fisheries traceability technologies for small scale fisheries in your country, please kindly fill in the information in the matrix below.

Please refer to Page 2 for an example matrix and Page 3 for information on data collection points of electronic Catch Documentation and Traceability (eCDT) in fisheries value chains.

It will be appreciated if you can submit this table (page 1 only) to Ms. Novena Rena Parengkuan ([nparengkuan.contractor@rti.org](mailto:nparengkuan.contractor@rti.org)) by **May 25, 2022**. Thank you.

**Country:** **XXX**

**Organization that operates or monitors the technologies:** *(if applicable)*

| <b>Information</b>  | <b>Description</b>  |
|---|---|
| <b>Technology</b>   | <i>Type/Name of technology</i>  |
| <b>Supply Chain</b>   | At-sea Capture: <i>type of vessel</i><br><i>(Note: other supply chain nodes include Landing, Processing, if relevant)</i> |
| <b>User</b>   |   |
| <b>How it works<br/>(Brief description of<br/>the Technology)</b> |   |
| <b>Key<br/>Data/Information<br/>collected</b>                     |   |
| <b>Other information</b>  |   |
| <b>Remarks</b>  | <i>Provide some information pilot sites/areas, number of SSF beneficiaries and experiences, if any.</i>                   |

**Add photo (if available):**

**Source of Information:**

**Description of existing fisheries traceability technologies for sustainable fisheries management relevant to small scale fisheries**

**The example of FAME Vessel Transponders in the Philippines**

**Country: Philippines (Example)**

| <b>Information</b>  | <b>Description</b>  |
|---|---|
| <b>Technology</b>   | <i>FAME Vessel Transponders</i>   |
| <b>Supply Chain</b>                                       | <i>At-sea Capture: Small-scale fishing boats<br/>(Note: other supply chain nodes include Landing, Processing, if relevant)</i>  |
| <b>User</b>   | <i>Small-scale fishers</i>  |
| <b>How it works (Brief description of the Technology)</b> | <i>FAME makes use of radio frequency to send and receive information through “gateways” that receive information from the vessel transponders and send data to a cloud server. Data can be sent up to 50 km offshore and can be further extended via mesh technology that allows transponders to provide connectivity to those within range. Personal communication, together with catch data, can be sent through the FAME transponders.</i> |
| <b>Key Data/ Information collected</b>                    | <i>Name of Boat/Fisher<br/>Location of fishing ground<br/>Fishing gear<br/>Species harvested<br/>Catch (kg)</i>   |
| <b>Other information</b>                                  | <i>Enables data capture at the point of landing<br/>Offers added-value business management tools, such as sales and loan management<br/>Allowing users to capture and process transactions without connectivity, with data transmitted once the device is re-connected</i>  |
| <b>Remarks</b>  | <i>Provide some information pilot sites/areas, number of SSF beneficiaries and experiences, if any.</i>   |

**Add photo (if available):**





























Vessel Tracking Technology: Small Scale Fisheries



**Reference or Source of Information:**

See: <https://www.seafdec-oceanspartnership.org/news/impact-story-1-futuristic-aviation-and-maritime-enterprise-fame-improving-small-scale-fishers-capacity-to-meet-traceability-requirements/>;  
<https://www.seafdec-oceanspartnership.org/news/usaid-oceans-and-fame-form-partnership-to-support-philippine-small-scale-fisheries/>

## Data collection points of eCDT in fisheries value chains

|  |  |   |   |  |   |  |  |
|--|--|---|---|--|---|--|--|
|  |   |    |    |   |   |   |   |
| <b>Seafood Supply Chain</b>  | At sea capture (small scale; >4 to <30 MT)   | At sea capture (medium scale; >30 MT)   | Port  | Buyer/Broker   | Shipper (land or boat; domestic)  | Processor (1 <sup>st</sup> , 2 <sup>nd</sup> etc.)   | Shipper (air or ship; export)  |
| <b>Current:</b><br>Typical data capture method (not integrated across supply chain)          | <br>None, or paper                                | <br>None, or paper                               | <br>Paper or electronic                          | <br>Paper or electronic                     | <br>Paper                                   | <br>Paper and electronic                    | <br>Paper and electronic                    |
| <b>Who</b>   | Captain  | Captain   | Company and Port Authority (government)   | Buyer/Broker (company or agent)  | Shipper (company)   | Processor (company)  | Shipper and Export Authority (government)  |
| <b>Data/Document Type</b>  | Logbook and Captain's certificate  | Logbook and Captain's certificate   | Catch certificate / document  | Purchase order   | Manifest or delivery order  | Raw material, batch ID; finished good ID   | Certificate of Origin; Packing list; Health certificate; Bill of lading  |
| <b>Future:</b><br>Data capture method via USAID Oceans' CDT System (integrated across chain) | <br>Mobile data collection device; pushed to DEX* | <br>Mobile data collection device; pushed to DEX | <br>Mobile data collection device; pushed to DEX | <br>Data submission into DEX; cloud storage | <br>Data submission into DEX; cloud storage | <br>Data submission into DEX; cloud storage | <br>Data submission into DEX; cloud storage |
| <b>CDT data submission method</b>  | <br>Cell or satellite                           | <br>Cell or satellite                          | <br>Cell or WiFi                               | <br>Internet                              | <br>Internet                              | <br>Internet                              | <br>Internet                              |

\*Data Exchange (DEX)