



Global project presentation (details)

Development of the IOTC electronic monitoring and reporting information system (e-MARIS)

Phase 1

Draft the Terms of Reference (Cahier des charges) to be used for the design and implementation of an integrated monitoring and reporting information system for IOTC CPCs, web based application accessible through the IOTC web site, to support the reporting of data and information required by the IOTC Resolutions and the Agreement, thus facilitating the reporting requirement against IOTC Resolutions and the Agreement. The design of the integrated monitoring and reporting information system should follow a thorough assessment of the current state of the art and close consultations with the relevant CPCs as identified by the Secretariat.

The phase 1 of the project is financially supported by Areas Beyond National Jurisdiction Program (ABNJ)



Phase 2

The development of the application includes the development of user manuals, both for internal users (installation, administration, maintenance...) and the training of the IOTC CPCs. It shall include the organisation of regional training courses and national training courses.

A draft structure of the application would include the following modules:

- **Information and data input modules:**

Data entry forms for submission of data and to upload documents;

CPCs shall be able to input and update the information by themselves. When information is updated IOTC Secretariat shall be notified. IOTC Secretariat shall be able to verify and validate the information submitted by CPCs.

A draft list of the expected features of the application are presented below:

- Online reporting concerning the IOTC Record of Authorised Vessels (Regular reporting; CPC to add, delete and modify their RAV);

- Online Compliance Questionnaire (2.5 month before the CoC; CPC to be able to complete and submit the CQ; Secretariat to be able to administrate the content of the CQ as it changes every year);
 - Online Implementation Report (Yearly reporting 60 days before the Commission; CPC to be able to complete and submit the IR and upload/attach complementary document; Secretariat to be able to administrate the content of the IR as it changes every year);
 - Online reporting concerning the IOTC Record of Active vessels (Yearly reporting; CPC to be able to report their list of flag vessels active in the IOTC Area for a particular year);
 - Online reporting concerning the IOTC Record of Foreign vessels (Yearly reporting; CPC to be able to report their list of foreign vessels licensed to fish in their waters for a particular year);
 - Online reporting for the at sea transshipment programme (online database to allow CPC to submit request for observer deployment, to allow consortium to input information in the database and generate final trip report to IOTC);
 - Online reporting on active resolutions and reporting requirements (CPC to be able to report on individual requirements, provide required data and upload complementary documents; CPC to be able to monitor its reporting through a dashboard; IOTC secretariat to be able to generate Compliance Report);
 - Online reporting "DATA SUBMISSION" (Resolution 15/02);
 - Online reporting "REGIONAL OBSERVER SCHEME" (Resolution 11/04).
- **Compliance dashboard module** [Restricted access]:
CPCs shall be able to verify their compliance status at any time and generate their National Compliance Report. The production of Compliance Scoreboard including compliance indicators shall be produced to facilitate the assessment process and allow measurement of progress and identification of compliances issues.
 - **Other modules:** the development of other modules shall be assessed and defined (Statistical, analytical, information sharing and communication).

The development of an integrated monitoring and reporting information system (web based) shall facilitate the reporting of data and information by CPCs (electronic forms, upload of reports, etc...), the consultation of the status of reporting against their deadline by the CPCs (compliance dashboard), and the automation of the production of the National Compliance Report and/or Compliance Scoreboard and subsequent use during the Compliance Committee:

- i. Using relevant programming languages, technologies and methodologies identified in the application ToR (Validated by IOTC during the workshop), design, develop, and implement a web based application to collect, store, report data and information. The application shall be connected to IOTC databases, as necessary, and integrated to the IOTC web site,
- ii. Manage corrections, bug fixes, and enhancements for the application, modify the application where necessary and test its applicability to ensure it conforms to the specifications,
- iii. Testing of the application to ensure its reliability and stability, including in liaison with selected CPCs;

- iv. Prepare the necessary technical documentation for the application and develop user manuals (Application Management for the IOTC Secretariat, and use by CPCs),
- v. Regional training course - Using the application/system:
 - Present the final application to the IOTC CPCs;
 - Prepare the training documents/material in close cooperation with the IOTC Secretariat (training programme, power point presentations and other documents/material, as required),
 - Provide end-user training to IOTC CPCs (data entry, reporting, etc...),
 - Prepare the final report of the training course,
- vi. Debriefing at the IOTC Secretariat (maximum 2/3 wd in the Seychelles),
 - Present the final mission report.
 - Discuss and plan next implementation phase related to the technical assistance and assessment of the performance of the application and debug of the application, when necessary.

Phase 3

Technical assistance to IT section of IOTC, including training and assessment of the performance of the system and debug the system when a bug occurs.

- i. Provide application management support to the IT section of the IOTC secretariat,
- ii. When bug occurs debug the application or modify features of the application and test its stability and make changes to the application, where necessary;
- iii. Provide debug reports to the IT Section of the IOTC Secretariat.