





CAPE TOWN, 25-27 OCTOBER 2017

E-MARIS VALIDATION Workshop

APPLICATION SCOPE, ORGANISATION & DEVELOPMENT

E-MARIS VALIDATION WORKSHOP

The global aim of the e-MARIS project is to replace the current manual process with a web-based centralized system that would allow CPCs to declare their information and help the IOTC Secretariat in assessing the Compliance Status of each CPC.

- e-MARIS should cover all requirements, both for Compliance and Science
- e-MARIS should cover the whole process:
 - information calls
 - information submission
 - reporting & compliance evaluation
 - production of reports & other compliance products

- information calls
 - schedule / reminders
 - content of the call: what to report
 - follow-up

- information submission:
 - one central location for all submissions
 - submission through the system, with instant feedback
 - possibility to update submissions
 - visible submission status

- reporting & compliance evaluation:
 - constantly visible reporting status
 - after evaluation by IOTC, visible draft compliance status

- production of reports
 - « national reports» on science information (CPCs)
 - «implementation reports» on CMMs (CPCs)
 - compliance reports (IOTC)
 - other reports as per future needs

- other compliance products:
 - live reporting and draft compliance status
 - individual CPCs compliance scorecard
 - global CPCs compliance scoreboard
 - > any other product as per future needs

- Proposed organisation comes from results of IOTC (and other tRFMOs) requirements & processes review
- It takes into account the existing IOTC systems
- It tries to be as close as possible to the current processes in place, to minimise disruption



- Implementation Dashboard for CPCs (see the submission requirements, answer questions, submit requested documents and data, get feedback from IOTC Secretariat, etc.)
- Compliance Dashboard for IOTC (see submission status for each CPC, interact with CPCs, build Compliance reports, etc.)
- Administration tools for IOTC (manage users, build Implementation Report templates, manage notification schedule, perform administrative tasks, etc.)
- Links to the IOTC Statistical Working System (sending CPC data submissions to it and retrieving validation and QA information from it)



TECHNICAL REQUIREMENTS

- System requirements:
 - Hardware: preferably a Virtual Machine
 - Software: open-source, proven technologies
 - Reliability: must be running 24/7/365
 - Security: must comply with the IOTC Data Access rules & policies

TECHNICAL REQUIREMENTS

- Information storage:
 - Statistical data: existing solution used by IOTC
 - e-MARIS information, data and files: ad-hoc

TECHNICAL REQUIREMENTS

- Application hosting:
 - Local: on a physical server running on the Secretariat's premises
 - Cloud: deployed on a remote (virtual) server, maintained by a third-party provider

DEVELOPMENT

- The scope of e-MARIS is rather massive, as evidenced by the number of features proposed above and the importance it would have within the IOTC processes.
- To avoid overly long development time and the numerous issues that plague software projects that try to do too much at once, it is recommended to adopt a progressive, modular approach
- A first phase could be to work with the selected software developers to identify the main features for e-MARIS, and evaluate the time and resources for their implementation, which would help prioritize development.

DEVELOPMENT

- ► 1. CPC-facing features:
 - a. Signing in and out, user access privileges etc.
 - b. displaying the list of requirements
 - c. submitting the required data and storing it
 - d. updating and displaying the reporting status.
- 2. IOTC-facing features:
 - a. Signing in and out, user access privileges, managing user accounts etc.
 - b. Managing requirements sets and requirements.
 - c. Validating CPC submission.

DEVELOPMENT

- For the roll-out of e-MARIS, it is recommended to also use a progressive approach:
 - 1. Start with a few selected CPCs and a limited set of requirements, and guide them through using e-MARIS to submit the required information.
 - > 2. Get their feedback, both in terms of what works and what doesn't.
 - 3. Fix issues, improve features, add missing features.
 - 4. Iterate by adding more CPCs/requirements. Do this for each new feature.