



Food and Agriculture Organization  
of the United Nations

## CALL FOR EXPRESSIONS OF INTEREST

### One or a team of software development expert(s) to develop a Fisheries Online Reporting information System (Consultant)

Contract duration: not to exceed 91 days  
Vacancy No. IRC4065

Deadline for Applications: 5 May 2017  
Duty station: home based with regular missions to Madrid, Spain

#### Tasks and responsibilities:

**Development of a working prototype for a Fisheries Online Reporting information System (FORS) for Contracting and non-Contracting Cooperating Parties (CPCs) of the International Commission for the Conservation of Atlantic Tunas (ICCAT).**

#### Background

The Common Oceans Tuna Project, also known as "Sustainable Management of Tuna Fisheries and Biodiversity Conservation in the Areas Beyond National Jurisdiction (ABNJ)", with a total budget of 178 million USD of which 27 million USD is a Global Environmental Facility grant, is the largest of four projects that constitute the Common Oceans Program. The objective of the Project is to achieve responsibility, efficiency and sustainability in tuna production and biodiversity conservation in the ABNJ, through the systematic application of an ecosystem approach in tuna fisheries.

The Project, with FAO as implementing agency, comprises 19 partners including all five tuna Regional Fishery Management Organizations (tRFMOs), as well as governments, NGOs and private sector organizations. Structured in three basic components, the Project aims at facilitating and accelerating existing initiatives from the project partners, in some cases, at supporting innovative approaches to tuna fisheries management.

ICCAT, which is one of the partners to the project, is responsible for the conservation of tunas and tuna-like species in the Atlantic Ocean and adjacent seas. The Commission's work requires the collection and analysis of statistical information relative to current conditions and trends of the fishery resources in the Convention area.

At its 2016 Annual Session, the Members of ICCAT have adopted Recommendation 2016-19 "An online reporting system shall be developed and maintained at the ICCAT Secretariat covering ICCAT reporting requirements, with an initial focus on elements of the required CPC Annual Reports. ICCAT has adopted a significant number of measures that require the Contracting Parties to the Convention and Cooperating Non-Contracting Parties, Entities or Fishing Entities (CPC) to submit data and reports in various formats and under different schedules. This information is typically submitted via electronic mail to the general intake address ([info@iccat.int](mailto:info@iccat.int)). This approach places a significant burden on the Secretariat to evaluate the received information and place it into the appropriate databases for scientific and/or administrative uses. Additionally, there is a heavy burden on the Secretariat to extract the information from numerous electronic files in order to produce required reports and communications in a timely manner, in particular reports to support the work of the Compliance Committee.

An online reporting system on the ICCAT website could provide CPCs with a unified and comprehensive approach to submitting information. The system could assist CPCs by providing a "single window" reporting and management tool for tracking and organizing their respective submissions. The online reporting system could replace the need to separately submit Annual Reports and, to the extent possible, many other periodic submissions to the Secretariat.

Such a system could address the persistent problem of lack of reporting and/or incomplete and late reporting that creates work for the Secretariat and that impedes the effective functioning of the Compliance Committee. Extracts of information made directly by CPCs from the online reporting system could replace several reports and documents

*now prepared by the Secretariat and help streamline the support to the Compliance Committee and other ICCAT Sub-committees. In addition, these extracts could be available to CPCs at any time and could facilitate advance and more effective preparation for the Compliance Committee or other ICCAT bodies."*

### **Workflow**

- Component 1 – Drafting of the Terms of Reference for the Online Reporting System;
  - Sub-component 1.1 – Draft the Terms of Reference to be used for the design and implementation of a working prototype of a future online reporting system for ICCAT CPCs, based on the case study of Catch & Effort reporting.
  - Sub-component 1.2 – Extend the Terms of Reference to include the results of a review of the other four tRFMOs' processes and needs.
- Component 2 – Development of the working prototype according to the Terms of Reference, limited to the Catch & Effort data reporting requirement;
- Component 3 – Development of the whole Online Reporting System, covering all the reporting requirements of ICCAT and other four tRFMOs.

### **Scope of the assignment**

The purpose of the assignment is the development of the working prototype according to the Terms of Reference (Cahier des charges) to support and facilitate the reporting of data and information required by ICCAT Recommendations, limited to Catch & Effort reporting.

### **Locations and timeline**

The assignment is expected to start on 15 May 2017 and shall be completed by 30 September 2017, with a demonstration of the Working Prototype planned for the meeting of the ICCAT Standing Committee on Research and Statistics (SCRS) (25-29 September 2017).

The implementation calendar will be defined following consultation between the ICCAT Secretariat and the Expert(s) during the inception meeting at ICCAT Secretariat. It is expected that the expert(s) will work in close collaboration with relevant ICCAT staff, to maximize synergies and avoid any delays.

If the expert(s) is(are) not based in Madrid, it is recommended that the expert(s) spend an initial period of at least ten working day within ICCAT offices in Madrid. For the rest of the assignment, the expert(s) shall be home based and spend three days per month in Madrid to facilitate interactions with ICCAT staff.

### **Reporting**

Reporting language: English.

The expert(s) will be required to provide an Inception Report no later than one week after the inception period, and monthly progress reports during the assignment.

The Software Application will be accompanied by a comprehensive documentation written in English:

- Code shall be written/commented according to best practices and any standards, rules, nomenclatures etc. adopted by ICCAT;
- Design documents will be provided as required by ICCAT's technical staff;
- Manuals will be provided for the installation/administration of the application, for the ICCAT users and for the CPC users.

The experts will report to Carlos Bravo, Applications development Coordinator, CIO.

### **Technical Supervisor**

The technical supervisors of the expert(s) will be professional staff of the ICCAT Secretariat and of the Common Oceans ABNJ Tuna Project.

Key performance indicators	
<p><b>The deliverable is a software application accessible through the Internet and deployed on ICCAT's servers. High-level Draft Specifications for the deliverable software are available in the Annex to this document.</b></p> <p><b>Expected Outputs:</b></p> <ol style="list-style-type: none"> <li>1 Inception phase: setting up the project, getting familiar with ICCAT tools, needs, existing applications etc. with Inception Report submitted no later than one week after the end of the Inception phase (10 working days).</li> <li>2 Developing the working prototype               <ol style="list-style-type: none"> <li>2.1 CPC facing features (20 working days)</li> <li>2.2 ICCAT facing features (40 working days)</li> <li>2.3 Testing, bug fixes etc. (10 working days)</li> </ol> </li> <li>3 Monthly reports</li> <li>4 Software Documentation (8 working days)</li> <li>5 Demonstrate the Working Prototype at the meeting of the ICCAT Standing Committee on Research and Statistics (SCRS) (3 working days).</li> </ol> <p><b>All deliverables (total working days: 91)</b></p>	<p>Required Completion Date:</p> <p>31 May</p> <p>30 June</p> <p>31 July 30 August</p> <p>Last day of each month May to September</p> <p>25 September</p> <p>25-27 September</p> <p><b>30 September</b></p>
<p>The main performance indicators will be:</p> <ul style="list-style-type: none"> <li>• Delivery of all reports as expected, and technically cleared by FAO and ICCAT</li> <li>• Delivery of all features, working as expected and technically cleared by FAO and ICCAT</li> <li>• Timeliness of deliveries (see above)</li> </ul>	

## Candidates should meet the following requirements:

### Minimum Requirements

- Graduate qualifications in information technology / software development or other qualifications relevant to the demands of the assignment;
- Minimum five years of experience in the field of information technology including activities such as functional analysis, requirement collection and implementation for complex client / server systems, design and implementation of web-based applications, relational database design and performance tuning, open source technologies and knowledge of multiple modern programming languages, front-end technologies and software engineering paradigms;
- Proven experience in UI/UX design of web-based information systems and applications;

### Desirable

- Prior experience working in the Fisheries field;
- Knowledge and experience (or capability to rapidly acquire) of the application of information systems and services to fisheries management

## Competencies

- Excellent communication, interpersonal, relationship building and customer service skills;
- High level of proficiency in English, written and limited knowledge of another ICCAT official languages (French, Spanish).

## Technical/Functional Skills

- Proven experience in UI/UX design of web-based information systems and applications;

## Selection criteria

Previous experience in the functional analysis, architectural design and implementation of comparable systems (remotely accessible, web-based applications with integrated and customizable business processes workflows). The selected expert(s) should be able to demonstrate a successful history of complex application design and implementation, preferably in the field of fisheries. The use of industry-validated, simple and robust technologies will be promoted, as well as open-source, free solutions rather than closed-source, proprietary solutions, unless already in use at the ICCAT Secretariat.

## Additional Information

FAO seeks gender, geographical and linguistic diversity in its staff and international consultants in order to best serve FAO Members in all regions.

All candidates should adhere to FAO values of Commitment to FAO, Respect for All and Integrity and Transparency.

## How to apply

All applications are to be made through FAO's [iRecruitment](#) system. Click on the link below to access [iRecruitment](#), complete your online profile and apply for this Call for Expression of Interest.

<http://www.fao.org/employment/irecruitment-access/en/>

In order for your application to be properly evaluated, please ensure that all sections of your iRecruitment account are completed. Incomplete applications will not be evaluated.

If you need help, or have queries, please contact: [iRecruitment@fao.org](mailto:iRecruitment@fao.org)