

# **IORA Fisheries & Aquaculture project – Outline of proposal**

## Theme

To develop a synthesis of fisheries and aquaculture information and related activities of Indian Ocean Rim countries on a biennial basis: Report on catches/production, resource status, current research initiatives, challenges, collaboration and opportunities.

## Approach

- Split into two projects (Fisheries and Aquaculture).
- Success will rely on active participation of member countries' co-ordinators
- Initial gap analysis of existing data (from FAO templates)
- Regional workshop to task countries to address gaps
- Regional co-ordinator to collate and interpret regional contributions in a report and identify opportunities and funding sources for research and co-ordination
- Report and final synthesis to be available to member countries and on the IORA website

## Timeframe

IORA to request IO countries to make available the FAO questionnaire-based data (1<sup>st</sup> quarter of 2018).

Capture data on purpose-designed database (2<sup>nd</sup> quarter of 2018)

Review and gap analysis (3<sup>rd</sup> quarter of 2018).

IORA workshop of country co-ordinators to present the review and gap analysis (4<sup>th</sup> quarter of 2018)

Co-ordinators to fill in gaps and additional info (1<sup>st</sup> quarter of 2019)

IORA regional co-ordinator to collate, synthesize and produce draft report (3<sup>rd</sup> quarter 2019).

## Project details

### Fisheries

- Introduction, history and management (including socio-economic) *Part of each country's profile (doesn't change often) – partly based on FAO templates; develop short questionnaire to fill gaps; + desktop literature review*
- Annual catches (*per species/group*) for as long a time as possible. *FAO template*
- Effort - Number of boats/participants per sector. *FAO template + additional short questionnaire for non-boat numbers of harvesters*
- Current status (including catch and effort) *see below*
- Countries to provide fisheries sub-sector (i.e. commercial, artisanal etc) *Use 2 broad groups (small-scale and commercial) for top five (ten?) species/species groups (separate inland, marine) as per FAO definition. Countries to provide their own definitions*
- Estimated value of landings (in USD) *Use FAO template + modify to include 1<sup>st</sup> sale price for top 10 species/groups*
- Rank the current exploitation status *Effort not part of FAO templates and not feasible to get this retrospectively; use country co-ordinators' opinion - use FAO template + modify to include status of top 20 species/groups*
- Level (good, poor, none) of management and type (TAC, Limitations, closed areas etc) of regulation *Part of country profile; address in short profile questionnaire; + desktop literature review*
- Active research and monitoring *Part of the country profile; address in short profile questionnaire; + desktop literature review*
- International research collaboration and funders *Omit?*
- Percentage consumption - Local vs exported (preferably on a sector basis) *Part of country profile, address in short profile questionnaire; desktop literature review to add to this*

- Contribution of fishery products to food security *Part of country profile, address in short profile questionnaire; + desktop review*
- Export destination countries and volumes
- Recent peer-reviewed research *Part of country profile, address in short profile questionnaire; + desktop literature review*
- Distinguish territorial and international catches *See issues below*
- Fishery type – semi-industrial, industrial and small-scale *Difficult to get this resolution. FAO does not try (vessel type gives an indication; non-boat fishing not captured – modify template. Suggest small-scale and commercial, countries to define these)*

### Aquaculture

- On individual species basis
- Introduction, history (previous production), culture techniques and management (including socio-economic)- *Part of each country's profile (doesn't change often) – partly based on FAO templates; develop short questionnaire to fill gaps; + desktop literature review*
- Current Production (breakdown for all culture systems) for as long a time as possible. *FAO template*
- Export destination countries and volumes
- Management standards (permitting, EIA etc)
- Recent peer-reviewed research
- International research collaboration and funders

### Issues for discussion

- FAO: “Duplication of requests to national office should be avoided as much as possible”; 18 IORA countries already contribute to their regional initiatives (RECOFI - regional database and

information centre; APFIC - produces a biennial review of status and potential of fisheries and aquaculture; WIOFish database)

- Separate country co-ordinators for aquaculture, inland, marine sectors for some countries
- FAO templates only cover landings of that specific country's vessels (national flag)
  - Non-IO countries' catches in IO countries' EEZs are reflected in templates (area fished code) but no. of vessels (only tuna).
  - Can't resolve IO countries' making catches in neighbouring countries' waters
- Tunas/tuna-like species + effort not well captured by FAO (IOTC)
- ABNJ catches/effort not on FAO templates (source from SIOFA/IORA dialogue partners etc)
- FAO template for catch data includes industrial, subsistence + recreational catches (not separated)

Which IO countries to include? – 21 member states as a minimum; plus the 4 non-member non-Gulf states. Need IO non-tuna landings from at least dialogue partners (and others eg Spain, Korea) who make catches in the IO (i.e. reported for fishing areas 51 and 57; obtainable from FAO?)

IORA member states (21)	IORA Dialogue Partners	Non-members (14) (non-Gulf states; RECOFI states)
Australia, Bangladesh, Comoros, India, Indonesia, Iran, Kenya, Madagascar, Malaysia, Mauritius, Mozambique, Oman, Seychelles, Singapore,	China Egypt France (Mayotte/Réunion) Germany Japan United Kingdom (BIOT) United States of America	Bahrain, Djibouti, Eritrea, Egypt, Iraq, Israel, Jordan, Kuwait, Maldives, Myanmar, Pakistan, Qatar, Saudi Arabia, Timor-Leste

Somalia, South Africa, Sri Lanka, Tanzania, Thailand, UAE, Yemen		
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