



Food and Agriculture  
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**Central Asian and Caucasus Regional Fisheries and Aquaculture  
Commission (CACFish)**

**Technical Advisory Committee**

**Fifth Meeting**

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**STATUS AND FUTURE DIRECTION OF THE SECOND FIVE-YEAR  
REGIONAL WORK PROGRAMME (2016-2020)**

**Executive Summary:**

This document provides information on the status of the progress of the second regional work programme (RWP2) 2016-2020. It also provides a brief evaluation and possible future direction for the Five-year Regional Work Programme of the Commission. It includes draft Third Five-year Regional Work Programme 2021-2024 (RWP3) prepared by the CACFish Secretariat.

**Suggested action by the Committee:**

- Note the discussions, recommendations and decisions of the respective FAO fisheries governing bodies and CACFish, and
- Provide further guidance, as appropriate, regarding implementation of these recommendations and decisions.

## INTRODUCTION

1. The aim of this paper is threefold: i) to report on the status, progress and challenges in implementing the second 5-year Regional Work Programme 2016-2020 (RWP2) of the Commission; (ii) to present, as a basis for discussion, the Third 5-year Work Programme (2021-2025) drafted by the CACFish Secretariat; and (iii) identify bottlenecks, opportunities and future directions for the 5-year Regional Work Programme.
2. Implementation of a regional five-year work programme was an idea suggested by the inter-governmental meetings that were considering the establishment of a Regional Fisheries Organization in the Central Asian and Caucasus region. The First 5-year Regional Work Programme was undertaken over the period 2010-2015.
3. RWP2 was adopted by the Commission at its Fourth Session (2015), and based on the recommendations from the 3<sup>rd</sup> Meeting of Technical Advisory Committee (TAC). The RWP2 builds on the progress made under the first Regional Work Programme (RWP1), which represented a significant regional tool for addressing challenges, gaps, as well as realizing opportunities for the Central Asian fisheries and aquaculture sectors. Being an operational instrument of the Commission, RWP2 targets the priority needs of CACFish Member States in the promotion of the development, conservation, rational management and exploitation of living aquatic resources in the CACFish competence area. However, it also aims to address the interests and needs of non-CACFish Member States with whom collaboration has been established, and who are potential Members of CACFish. RWP2 seeks to increase cooperation between CACFish Member States and non-CACFish Member States in areas of mutual interest. Additionally, it aims to promote collaboration among the key stakeholders, namely: academic and research institutions, civil society, and the private sector, with the aim of maximizing the impacts derived from RWP2 activities.
4. The United Nations Sustainable Development Summit approved the 2030 Agenda for Sustainable Development, including the 17 Sustainable Development Goals (SDGs), on 25<sup>th</sup> September 2015. At a national level, the SDGs provide the overarching strategic framework for development policies and programmes. RWP contributes to the following Sustainable Development Goals (SDGs): No Poverty (SDG 1), Zero Hunger (SDG 2), Responsible Consumption and Production (SDG 12) and Life Below Water (SDG 14). The programme also contributes to address the regional challenges through the programmatic approach of FAO Regional Initiatives: (i) Empowering Smallholders and Family Farms for Improved Rural Livelihoods and Poverty Reduction; (ii) Improving Agrifood Trade and Market Integration, and (iii) Sustainable Natural Resource Management Under a Changing Climate.
5. The implementation of the CACFish 5-year Work Programme is monitored, evaluated and reviewed by the TAC and by the Commission with the aim of ensuring the implementation of the programme is undertaken in an effective manner, and it achieves its overall goals and targets.

## PROGRESS DURING THE INTERSESSIONAL PERIOD

6. During the intersessional period the following activities were delivered:
  - Regional training on best practices for cage culture in reservoirs and lakes (05-08 December 2017; Elazig, Turkey).
  - Fish Genetics Resources-Practical Training on Molecular Methods (19-22 March 2019; Trabzon, Turkey)
  - Regional Workshop- Provision of Technical Advice on Restocking and Culture Based Fisheries (11-13 June 2019; Bishkek, Kyrgyzstan)
  - Regional Workshop-Post-harvest market measures, rules, and standards for ensuring safety and the quality of fish and fish products in Central Asian and Caucasus countries (11-13 November 2019; Istanbul, Turkey)

7. A regional workshop on inland stock assessment, in selected large water bodies, scheduled for April 2020, has not been organized due to the COVID-19 pandemic.

## **OVERALL EVALUATION AND FUTURE DIRECTION OF THE PROGRAMME**

8. The Regional 5-year CACFish Work Programmes have had unduly ambitious goals requiring large-scale external budgetary support and a reliance on the outcomes from FAO regional programmes / projects. The first (2011-2015) and second (2016-2020) 5-year WP were budgeted at around USD 3 867 000 and 1 700 000 respectively. Although RWP2 was based on more realistic budgetary resources, it remained dependent on external financial sources. Concomitant to RWP1, the anticipated external financial assistance has not yet been secured for the RWP2. The Commission established its first autonomous budget in 2012, and received its first (partial) member contributions in 2013. The contributions received were largely used to support the regular sessions of the Commission and the meetings of TAC. In other words, there were no financial resources with the CACFish budget to support the implementation of the RWP during the period 2011-2013. Furthermore, the RWP was formerly designed with the expectation that it would become more functional over time, and once CACFish had a more autonomous budget and more members.

9. Many of the recent outcomes of the programme have been sustained by outputs from CACFish-funded activities. It should be noted that RWP1 benefited from FAO Projects and programmes conducted in the CACFish competence area. A notable programme worth mentioning includes the Central Asian Regional Programme for Fisheries and Aquaculture Development (FishDev-Central Asia) - recently supplemented by the Project “Capacity Development for Sustainable Fisheries and Aquaculture Management in Central Asia (Phase I aquaculture and food safety), which covers a four-year implementation period from 2020 to 2023. (The FishCap project has a budget of USD 1 million - a smaller budgetary allocation to that of the FishDev-Central programme which had a budget of USD 1,800,000). The current average annual funding level of USD 80 000 remains sub-optimal for the generation of the desired programme impacts.

10. Annex 1 provides an outline of the implementation status of RWP2 activities for the period between May 2016 and June 2020. About twenty percent of the programme activities were completed as of May 2020. The completed activities were funded with CACFish funds. Most of the uncompleted activities are still at the planning stage as the second term of the programme (i.e. RWP2) terminates at the end of this year. During the intersessional period, implementation has also been affected by changes to the Secretary of CACFish: Following the retirement of the CACFish Secretary in June 2016, Victoria Chomo, Senior Fisheries and Aquaculture Officer, took charge as the CACFish Secretary in 2017. In December 2019, she was replaced by Haydar Fersoy, Senior Fishery Officer. Therefore, to date the RWP2 has made limited progress towards its objectives. (Component 5-Research and Capacity Development, has been the component where the fewest deliverables have been produced).

11. The RWP was originally recognized as an important and timely initiative within the context of strengthening regional cooperation in fisheries and aquaculture. It initially identified the need to focus on institutional capacity building to promote sustainable management, and the development of fisheries and aquaculture resources. To an extent, the programme contributed to the integration of capacity development into national fisheries and aquaculture management systems, development strategies and practices - all of which currently face multiple challenges.

12. RWP1 included a wide range of outcomes and associated outputs which while geared to promote regional-wide sustainable development in fisheries and aquaculture, also took into account the needs and priorities identified by the countries. The limited deliverables from the RWP1 and RWP2, which suffered from similar bottlenecks in their implementation, leads to a conclusion that the impact of the programme since its inception in 2010 has largely remained weak. The persistent barriers to the implementing RWP,

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which eventually lessens the systematic impact of the programme can be attributed to the following: (i) The RWP relies too heavily on external financial resources; (ii) Its dependence on external inputs from regional FAO programmes / projects, and (iii) allocation of limited budget from the CACFish autonomous budget due to an increased accumulation of Member States payment arrears.

13. The programme ultimately turned out to be a list from which the two-year intersessional period activities of TAC were selected for implementation through the autonomous budget of the Commission. The RWP2 ends in 2020. Against the background outlined above, there exist two options for the future of the programme: (i) continuation of the programme for an additional five-year term (i.e. Third Five-Year Work Programme of the Commission; RWP3) and (ii) abolish the programme, which has had a limited impact to date.

14. The use of external funding presents some possibilities for making the programme more effective than originally planned. However, the above-mentioned challenges and conditions reduce the real potential for improving the implementation and scaling-up the programme, and furthermore, the economic and financial disruption caused by the COVID-19 pandemic will likely limit donors' capacity and availability.

### **THIRD FIVE-YEAR WORKPLAN (RWP3)**

15. The proposed RWP3, which is presented in Annex 2, replaces the previous work programme covering the period from 2016 to 2020. It builds on and complements the previous two work programmes undertaken by the Commission. It maintains previous components and comprises, to a large extent, the activities that have not been completed under the current RWP2. For the reasons mentioned above, it mostly relies on funding from the Commission's own funds, thus corresponding to a more affordable budget than previously assigned to RPW2. (Total cost of RWP3: 1,450, 000 USD). Despite this, RPW3 still maintains the original objectives, focus, and targets set out in RPW1. To increase the impact of the RWP3, there is a need to overcome the funding challenge over its five-year implementation period.

### **SUGGESTED ACTIONS FOR THE COMMITTEE**

16. The Committee is invited to:

- Note the progress made under RWP2,
- Discuss the RWP3 and suggest revisions, if any, and
- Taking into consideration the reported bottlenecks and opportunities to improve the programme, recommend the continuation or abolition of the 5-year Work Programme of the Commission.

## Annex 1

## Progress status of CACFish Regional Work Programme (2016-2020)

## Component 1: Fisheries management

Activities	Timeframe	Total budget (USD)	Budget sources and status	Progress status
<b><i>1.1. Technical assistance for enhancing legal, regulatory frameworks and institutional structures</i></b>				
1.1.1. Review of Fisheries Law of Kyrgyz Republic	2016-2020	55,000	External budget. No budget secured	Undelivered
<b><i>1.2. Capacity development for fisheries policy, management, and planning</i></b>				
1.2.1. Review of technical fishing regulations, licensing and logbook systems	2017	35,000	RWP budget No budget secured	Undelivered
1.2.2. A preliminary study on Geographic Information Systems in fisheries management and planning	2018	40,000	RWP budget No budget secured	Undelivered
1.2.3. Regional Workshop on Incorporation of Ecosystem Approach to Fisheries into planning and management	2019	30,000	RWP budget No budget secured	Undelivered
1.2.4. Capacity development of key stakeholders to enhance co-management	2018	30,000	FISHCap No budget secured	Undelivered
<b><i>1.3. Fisheries data collection and management</i></b>				
1.3.1. Technical assistance for establishment and improvement of fisheries and aquaculture data and information systems at national level	2016- 2020	40,000	RWP budget No budget secured	Undelivered

## Component 2: Aquaculture

Activities	Timeframe	Total budget (USD)	Budget sources and status	Progress status
<b><i>2.1. Capacity building for production systems</i></b>				
2.1.1. Provision of technical assistance for aquaculture production techniques and systems	2016-2020	45,000	RWP budget. No budget secured	Undelivered
2.1.2. Capacity building for artificial propagation of fish seeds	2017	35,000	FishCap or another external budget	Undelivered
2.1.3. Ad-hoc training on hatchery production of trout	2018	30,000	FishCap or another external budget	Undelivered

2.1.4. Farming of new fish species	2016-2107	30,000	RWP budget. No budget secured.	Undelivered
2.2. Provision of technical advice on broodstock management	2016- 2020	50,000	RWP budget. Secured	Publication completed
<i>2.3. Provision of technical advice on fish feed manufacturing</i>	2016-2020	100,000	RWP budget No budget secured	Undelivered

### Component 3: Inland fisheries and conservation

Activities	Timeframe	Total budget (USD)	Budget sources and status	Progress status
<i>3.1.Support to inland fisheries management and conservation objectives</i>				
3.1.1. Inland stock assessment in selected large bodies	2020	60,000	FISHCap or another external budget	Postponed
<i>3.2. Provision of technical advice on preservation of genetic resources</i>	2019	35,000	RWP budget No budget secured	Completed
<i>3.3. Workshop on the Habitat Rehabilitation for Inland Fisheries</i>	2019	35,000	RWP budget No budget secured	Undelivered
<i>3.4. Provision of technical advice on the establishment of Monitoring, Control and Surveillance (MCS) systems in inland fisheries</i>	2016-2020	40,000	RWP budget No budget secured	Undelivered
<i>3.5. Provision of technical advice on stocking, restocking and culture based fisheries</i>	2019	45,000	RWP budget No budget secured	Completed

### Component 4: Post-harvest and marketing

Activities	Timeframe	Total budget (USD)	Budget sources and status	Progress status
<i>4.1. Provision of post-harvest management, food safety and quality and HACCP certification</i>				
4.1.1. Development/updating of post-harvest management by development/effective implementation of marketing measures, rules, standards for safe and quality fish and fish products	2019	65,000	RWP	Completed
4.1.2. Provision of technical advice on fish marketing and fish processing and diversification of processed fish and fish products	2016-2020	60,000	RWP budget No budget secured	Undelivered
<i>4.2. Provision of fish market information</i>	2016-2020			

4.2.1. Development of a (national) fish market information system	2017	60,000	FishCap or another external budget	Undelivered
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**Component 5: Research & capacity development**

<b>Activities</b>	<b>Timeframe</b>	<b>Total budget (USD)</b>	<b>Budget sources and status</b>	<b>Progress status</b>
<i>5.1. Support to research, technology development, training and education in fisheries and aquaculture</i>				
5.1.1 Advice and training on fish genetics resources	2016-2018	50,000	RWP budget No budget secured	Undelivered
5.2. Training of researchers, technical ministerial staff, hatchery managers and representatives of fishers' organization	2016-2020	800,000	External donor budget No budget secured	Undelivered

**Annex 2:  
DRAFT THIRD FIVE-YEAR WORKPLAN (RWP3)**

**1. GUIDING PRINCIPLES, VISION, REGIONAL GOALS, AND OBJECTIVES**

The guiding principles, vision, regional goals, and objectives of the Third 5-Year Regional Work Programme (2021–2025) (RWP3) are as follows:

*Guiding principles:*

The RWP3

- Builds on the Second 5-Year Regional Work Programme (2016–2020) of Commission,
- Seeks collaborations with CACFish Member States, non-CACFish member States and key stakeholders from the region,
- Reflects the common interests and priorities of all parties to the Commission,
- Comprises progress review, updating, monitoring and follow-up processes to be undertaken by TAC and Commission,
- Emphasizes the need for institutional capacity building,
- Emphasizes on knowledge sharing, and promotion of better management practices,
- Seeks external funds, and
- Seeks contribution of FAO fisheries/aquaculture projects.

*Goals:*

- Continually promote sustainable management and development of the fisheries and aquaculture sector in the Central Asian and Caucasus region, and
- Contribute to the increased production of inland capture fisheries and aquaculture (including culture based fisheries).

*Main objective:*

- Strengthen the institutional, scientific, technical, legal and structural capacities in order to promote the development, conservation, rational management and best utilization of living aquatic resources, and

*Vision:*

The vision of RWP3 is to be a self-reliant and effective regional cooperation mechanism that promotes sustainable and responsible inland fisheries and aquaculture in Central Asia and Caucasus.

The following are some of the main factors that could best contribute to achieving the vision:

- Partnership and collaboration,
- Policy coherence for management and development of sustainable inland fisheries and aquaculture,
- Concerned regional effort to regulate fisheries and aquaculture in a better and sustainable manner,
- Strengthened networking among key stakeholders,

- Enhanced research capacity,
- Education and training,
- Implementation of incentive programmes, and
- Promotion of co-management.

*Key regional priority areas addressed by RWP:*

Regional priorities of RWP3 areas follows:

- Increased inland fisheries and aquaculture production,
- Fisheries planning and policy; food safety and rural development,
- Fisheries and aquaculture production as well as handling, harvesting, processing, and marketing of fish and fish products,
- Fisheries research and technology transfer,
- Institutional capacity building for management and conservation of fisheries resources, and
- Fisheries co-management.

## **II. CONTEXT OF THE WORK PROGRAMME**

The content of RWP3 falls primary into two sets of inter-linked categories: (i) technical components; and (ii) programme coordination, management, monitoring and evaluation. RWP3 comprises a non-exhaustive list of activities, taking into account the technical component of the RWP1(2011-2015) and RWP2 (2016-2020). The sets one and two are elaborated in detail in Section V and VI, respectively. As seen in Section V, the technical components of RWP3 are given in section IV:

The Rules of Procedures of the Commission comprise a range of varying specified responsibilities and tasks to TAC, including technical oversight, monitoring and evaluation of projects and programme of work activities of Commission.

There are six essential considerations for the RWP3:

1. As an operational programme of Commission, it will function towards, among others, developing institutional capacity for data and information exchange, promotion of better management practices, and enhanced research capacity.
2. The Commission provides the essential financial and human resources required for smooth running of the RWP3. However, external donor funds and technical support from and collaboration with other projects/programmes of FAO and donors and partners are thought to be necessary.
3. As with RWP1 and RWP2, RWP3 runs on a rolling basis. In other words, the programme activities do not necessarily be finalized at the end of the 5-year programme period. If it is deemed necessary, new additions and amendments can be made to RWP3 during inter-sessional implementation period by the Commission at its annual sessions. The programme thus embarrasses flexibility to incorporate arising issues and reflect future demands.
4. The development and implementation of specific projects/programmes and activities under the work programme shall be undertaken by the CACFish members with the assistance of the CACFish Secretariat.
5. The implementation of the programme and the activities under it shall be coordinated by the CACFish Secretariat. TAC, on the other hand, shall monitor and evaluate the programme while the Commission has full autonomy to manage the programme.

The work programme shall consist of varying types of activities. Key RWP3 activities include:

- Trainings and workshops,
- Technical and institutional assistance on the better management practices and technology transfer,
- Projects/programmes,
- Policy development, planning and fisheries legislation updating.

### III. INSTITUTIONAL OUTCOMES OF THE WORK PROGRAMME

A crucial set of outcomes of the work programme is the adoption of institutional strategies, procedures and processes that will sustain the Commission. These outcomes for the Commission itself as an organization will enhance its ability to achieve the over-arching outcomes desired for the better sector governance, stronger institutional support, and improved technology and production systems.

The institutional outcomes shall be:

- 1) **A higher profile of inland fisheries and aquaculture in national plans and development programmes:** A major outcome of the work programme would be the due recognition of the importance of the sector in national development and its capacity to contribute to poverty alleviation and the achievement of food security. Successful results would cumulatively raise the profile of the sector in national development plans, rural development plans and poverty reduction strategies and programmes. The indicator or practical proof of this would be an increased allocation of state budgetary funding for the management and development of the sector.
- 2) **Stronger working relations among stakeholders:** The five-year implementation period of the work programme should enable the sector to establish and strengthen important working relations among the primary stakeholders within the sector including governments, producers, consumers, suppliers of technical inputs, service providers, NGOs, donors and regional and international institutions and development agencies. Participatory approaches to be adopted by the work programme will involve stakeholders in policy-making, planning, implementation and monitoring. The desired outcome of such relations would be an easy and open flow of information, closer cooperation, and trust between stakeholders.
- 3) **Integration into rural development programmes:** The work programme will seek to integrate aquaculture and inland fisheries planning within the overall rural development planning, taking into account multi-sectoral developments and views. Sectors that need to be collaborated with include among others water/irrigation, hydropower, tourism, education, agriculture, food, import/export and health. Multi-sectoral co-ordination will bring agencies together; raise awareness of the potential of inland fisheries and aquaculture in other rural development sectors to improve national and local economies, as well as community livelihoods and household incomes.
- 4) **Synergy with programmes of other institutions and organizations.** To add value to its own projects and to other projects in the region, to build on other related efforts rather than competing with or duplicating them, the work programme shall be designed to establish functional linkages with projects and donors that have fishery- and aquaculture-related mandates in the region.

#### IV. TECHNICAL COMPONENTS

The RWP3 has the following overall objective and consists of five thematic components:

<b>Overall objective:</b> Promotion of strong management and development of fisheries and aquaculture in the Central Asian and Caucasus regions.	
<i>Components</i>	<i>Specific Objectives</i>
<b>1: Fisheries and aquaculture management</b>	Improved regional management of the inland fisheries and aquaculture sector for a more orderly, rapid and sustainable development and increased economic opportunities.
<b>2: Aquaculture</b>	Improved production technology and systems for increased aquaculture production.
<b>3: Inland fisheries and conservation</b>	Improved inland fisheries management and conservation practices in the region.
<b>4: Post-harvest and marketing</b>	Increased quality and safety of fisheries and aquaculture products available in the markets in the region.
<b>5: Research &amp; capacity development</b>	Improved capacities for fisheries research and technology development, extension, education and training in fisheries and aquaculture

**Component 1: Fisheries and aquaculture management**

Activities	Outputs	Key performance indicators	Timeframe	Budget (USD) and budget sources
<b><i>1.1 Provision of technical advice on the modernization of laws and regulations governing fisheries and aquaculture</i></b>	Improved legal, institutional and regulatory framework			
1.1.1. Review of laws, policies and regulations governing fisheries and aquaculture	Updated national laws, policies and regulations governing the fisheries and aquaculture		2023	50,000 RWP
1.1.2. Review of technical fishing regulations, licensing and logbook systems	Updated technical fishing regulations, licensing and logbook systems		2023-2024	40 000 RWP
1.1.3. Regional workshop on planning and policy development for increased aquaculture production in the beneficiary countries	-Preliminary study report - Recommendations for TAC and CACFish		2022	35,000 RWP
1.1.4. Regional Training on Geographic Information Systems in fisheries and aquaculture management and planning	A preliminary project on Geographic Information Systems is in place	- Preliminary study report - Recommendations for TAC and CACFish	2022	40,000 RWP
1.1.5. Regional Workshop on Incorporation of Ecosystem Approach to Fisheries into planning and management	Strengthened capacity for Ecosystem Approach to Fisheries into planning and management	- Workshop and TAC recommendations - Number of participants	2021	40,000 RWP
<b><i>1.2. Improvement of the fisheries and aquaculture data and information in the region</i></b>				
1.2.1. Regional review of fisheries and aquaculture data and information system in the Central Asian and Caucasus region	Improved capacity for Fisheries data collection and management	- Study report - Recommendations for TAC and CACFish	2022	40,000 RWP
<b>Budget subtotal (USD)</b>				245 000

**Component 2: Aquaculture**

<b>Activities</b>	<b>Outputs</b>	<b>Key performance indicators</b>	<b>Timeframe</b>	<b>Budget (USD) and budget sources</b>
2.1. Capacity building for production systems	Improved inland aquaculture production systems	Renewed or new facilities and production systems		
2.1.1. Farming of new fish species	Diversified aquaculture production	Mission reports of experts	2021	35,000 RWP
2.1.2. On-farm feeding and feed management in aquaculture	Increased capacity for fish feed management	Mission reports of experts	2023	40,000 RWP
2.1.3. Regional training workshop on cage culture systems in lakes	Increased capacity for lake aquaculture		2022	40,000 RWP
2.1.4. Regional training on fish disease and health management in aquaculture	Increased capacity for fish health management	- Workshop and TAC recommendations	2024	40,000 RWP
2.1.5. Regional workshop on freshwater fish hatchery management of main commercial species	Increased capacity for freshwater hatchery aquaculture production	Workshop and TAC recommendations	2022	40,000 RWP
2.1.6. Regional training for hands-on training on pond aquaculture of main commercial species	Increased capacity for pond aquaculture	Workshop and TAC recommendations	2022	35,000 FISHCap
2.1.7. Practical hands-on training on production of live feeds	Increased knowledge and skills for production of live feeds	Mission reports of experts	2023	35,000 RWP
2.2. Support to the sustainable development of aquaculture in the region for improved food security and human nutrition, targeting smallholders and extension agents				
2.2.1. Regional workshop on adaptation of Best Management Practices (BMPs) for aquaculture farm management	Increased knowledge of BMPs	Workshop and TAC recommendations		40,000 FISHCap
<b>Budget subtotal (USD)</b>				305,000

**Component 3: Inland fisheries and conservation**

<b>Activities</b>	<b>Outputs</b>	<b>Key performance indicators</b>	<b>Timeframe</b>	<b>Budget (USD) and budget sources</b>
3.1. Support to inland fisheries management and conservation objectives				
3.1.1. Workshop on the habitat rehabilitation for inland fisheries			2024	40,000 RWP
3.1.2. Provision of technical advice on the establishment of Monitoring, Control and Surveillance (MCS) systems in inland fisheries			2021-2023	30,000 RWP
3.1.3. Regional Workshop on the Elaboration of National Plans of Action to Prevent, Deter and Eliminate Illegal, Unreported and Unregulated Fishing (IUU)			2022	40,000 RWP
3.1.4. Inland Fisheries Resource Enhancement and Conservation	Increased institutional capacity for inland fisheries resource enhancement and conservation	Workshop and TAC recommendations	2024	40,000 RWP
3.2. Provision of technical advice on preservation of genetic resources	Increased knowledge on preservation of fishery genetic resources	- Workshop recommendations - Number of trainers - IUCN Red List of threatened species	2021	50,000 RWP
<b>Budget subtotal (USD)</b>				200,000

**Component 4: Post-harvest and marketing**

<b>Activities</b>	<b>Outputs</b>	<b>Key performance indicators</b>	<b>Timeframe</b>	<b>Budget (USD) and budget sources</b>
<b><i>4.1. Provision of post-harvest management, food safety and quality and HACCP certification</i></b>	Increased availability of high quality and safe fish and fisheries products in the domestic markets in the region			
4.1.1. Development/updating of post-harvest management by development/effective implementation of marketing measures, rules, standards for safe and quality fish and fish products	Enhanced post-harvest management and increased quality and safety of fish and fish products	- TAC recommendations - CACFish decisions or recommendations	2021-2024	60,000 FISHCap or other external budget
4.1.2. Provision of technical advice on fish marketing and fish processing and diversification of processed fish and fish products	Enhanced capacity for processing and diversifies processed fish and fish products	Mission reports of experts	2021-2024	60,000 RWP
<b><i>4.2. Provision of fish market information</i></b>				
4.2.1. Development of a (national) fish market information system	An operational fish market information system	- Fish market information system - TAC recommendations - CACFish decisions or recommendations	2021-2024	60,000 RWP
<b>Budget subtotal (USD)</b>				180,000

**Component 5: Research & capacity development**

<b>Activities</b>	<b>Outputs</b>	<b>Key performance indicators</b>	<b>Timeframe</b>	<b>Budget (USD) and budget sources</b>
5.1. Support to research in fisheries and aquaculture	Improved capacities for applied research and technology transfer			
5.1.1 Training of researchers, technical ministerial staff, hatchery managers and representatives of fishers' organization	Increased institutional and technical capacity	Training reports - Number of people trained	2021-2024	300,000 RWP
5.2. Capacity development				
5.2.1. Short-term exchange visits for experts and scientists	Increased knowledge and technical capacities	Visit reports - Number of people trained	2021-2024	160,000 RWP
5.2.2. Preparation of training materials on various aspects of fisheries and aquaculture	increased accessibility of information and knowledge.	- Training reports - Number of people trained	2021-2024	60,000 FISHCap or other external budget
<b>Budget subtotal (USD)</b>				520,000
<b>Grand total (USD)</b>				1,450,000