KINGDOM OF CAMBODIA

Nation Religion King



FISHERIES ADMINISTRATION



The Assessment of the Effectiveness of Community Fisheries in Cambodia

Cambodia Programme for Sustainable and Inclusive Growth in the Fisheries Sector: Capture Component (CAPFISH-Capture)

March 2023

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Executive Summary

Based on the financing agreement between the European Union and the Royal Government of Cambodia, a target was set to have 34% of registered CFis qualify as strong in 2022. In total, an assessment of 202 registered communities fisheries in 17 provinces in Cambodia was conducted using pre-designed focus group discussion questions (FGD). The assessment was based on the data collecting tool that was developed in 2018 to assess CFi effectiveness, along with additional questions that helped improve the tool. A scoring system was applied for ranking all responses in relation to four main CFi effectiveness assessment criteria for quantitative data analysis. These criteria are: 1) CFi management and operations; 2) CFi Committee processes for engaging communities; 3) Benefits/impacts of Cfi; and 4) CFi sustainability. Ratings were generated for each variable and the combined average scores of all criteria were used to rank each CFi as strong, moderate, or weak. The results of the analysis showed that 39% (78 CFis) were strong, 51% (103 CFis) moderate, and 10% (21 CFis) were weak. Based on these results, the target was considered as solidly achieved. It was also found that ratings for each of the four key criteria in 2022 were slightly higher than those in 2018, especially for the criterion focussed on the CFi Committees' processes for community engagement.

1. Introduction

1.1 Background

The Royal Government of Cambodia (RGC) has continuously reformed the fisheries sector since 2001, including approximately 1 million hectares of fishing lots, enabling local people to engage in the sustainable and equitable management and use of resources through organizing community fisheries (CFi). At present, there are 516 CFis organized as community-based organisations (CBOs) in both inland and coastal zones of the Kingdom of Cambodia. The Cfis have been supported by the Fisheries Administration (FiA), non-governmental organizations (NGO), and development partners (DP), including EU-funded budgets. These efforts have successfully strengthened the roles of CFis and improved CFi co-management mechanisms. The total number of CFi has remained stable since 2019. Of the 516 CFis, 447 are officially registered, with a total of 332,168 CFi members (35% female) and 4,497 elected CFi Committee members (15.6% female). A total of 150 CFis received small grant support from FiA.

To determine the effectiveness of the CFi approach, in 2018, the Community Fisheries Development Department (CFDD) of FiA conducted a CFi effectiveness assessment in 17 provinces. The results of assessment indicated that 9% of CFi were classified as well-functioning or strong, 52% as moderate, and 39% as weak. In 2022, CFDD conducted a subsequent CFi effectiveness assessment in the same 17 provinces, under the technical support of FAO CAPFISH-Capture. The purpose of this second assessment was to understand changes in the effectiveness of the CFis since 2018.

1.2 Objectives

The main objectives of the follow-up assessment designed and conducted in 2022 were to determine the effectiveness of the registered CFis, to compare the assessments with the baselines established through the 2018 CFi effectiveness assessment, and to use the results of the new assessment to determine whether the improvement target stated in the Financing Agreement between the EU and the RGC has been met. The target was to have 34% of registered CFis qualified as strong in 2022.

2. Assessment Methodology

2.1 Data collection

The assessment on the effectiveness of CFis was conducted by Fisheries Administration Cantonments in 17 provinces¹ that have registered CFis. Supervised and advised by the Community Fisheries Development Department (CFDD), the data collection and assessment was conducted with technical support from the technical staffs of the EU-PGA-FiA.

The methodology of the CFi effectiveness assessment in 2022 was based on that of the assessment in 2018. The CFi selection and data collection methodology of the 2018 assessment were submitted to and subsequently discussed and adopted by the Conservation and Economic Sub-group (TWG-CFi)

¹ Five provinces without CFis (Palin, Kampong Speu, Oddar Meancheay, Preah Vihear, and Phnom Penh) were not included. 115 CFis (out of a total of 119) located in Kratie and Stung Treng provinces were not selected for further data collection because the CFis in these two provinces were covered by another fishery project funded by the World Bank and did not receive EU budget support. The World Bank had its own methodology to assess the effectiveness of the CFis, which was not comparable to the one used by FiA. Kandal was also not included as it did not receive budget support. Only 1 out of 14 CFis in Ratanakiri was included due to budget constraints during the field data collection.

of the Technical Working Group on Fisheries (TWGFi). With the support of the CAPFISH Capture, extensive discussion sessions were conducted and revisions made to the data collection methodology, including FGD questions based on all questions in 2018 and additional questions to improve assessments of CFi effectiveness (Annex 1). This revised methodology was finally approved by the Sub-TWG on Conservation and Economic in 2021.

The field data collection for the assessment took place over 6 months, from May to October 2022. Due to limited resources, 202 registered CFis located in 17 provinces (Prey Veng, Takeo, Kampong Cham, Tboung Khmum, Kampong Chhnang, Pursat, Battambang, Kampong Thom, Siem Reap, Banteay Meanchey, Kep, Kampot, Preah Sihanouk, Koh Kong, Kratie, Stung Treng and Ratanakiri) were selected from among the 447 registered CFis in the entire country for conducting FGD discussion sessions. The sample size of 202 CFis was considered sufficiently large and representative for the total number of 447 registered, with the result statistically significant at the 95% confidence level.

The data collection took place based on a Focus Group Discussion (FGD) method involving 10 CFi members (excluding chief, vice-chiefs, and CFi committee's members) from each community fisheries. The chief, vice-chiefs, and CFi committee's members were not invited to participate in the FGD discussions to prevent biased information about the CFi. The only exception was for the 3 finance-related questions for CFC (Q5.2b, Q5.2.c, and Q5.3.d). These questions were posed to the CFi committee since only they had the knowledge to respond accurately.

In each FGD session, a technical group consisted of one person from the FiA-CFDD and two people from a Fisheries Administration Cantonment (FiAC) serving as facilitators. Prior to the field work, a training course and pre-testing were conducted. The FiA staff acted as the supervisor, both advising and assisting the FiACs staff in conducting the FGD sessions and data incorporation.

The FGD questions contained four main criteria: 1. community fisheries management and operations; 2. CFC's processes for community engagement; 3. benefits/impacts of CFi activities; and 4. the CFi sustainability. Within each criterion, there were detailed but simple and easily understood questions.

To answer each question, participants (members of a CFi) were asked to choose only one among three choices: 1 = weakness/less/no; 3 = moderate/same/some; or 5 = strong/better/more/yes.

2.2 Data input and analysis

The data from each of the FGD sessions were incorporated into a pre-designed data template using EXCEL Spreadsheet (Annex 2). The analysis first averaged each of the four criteria. A total average was then calculated for each of the CFis by combining the results from all 4 criteria. The scoring result of a CFi fell into one of the three types of the CFis below. These categories were fully discussed within and adopted by members of the CFDD and the technical experts. The calculation was conducted for individual CFis, as well as at both provincial and national levels.

- Type (1) "Weak": Score <3
- Type (2)"Average": Score 3-4
- Type (3) "Strong": Score >4.

3. Results and findings

3.1. Chaktomuk Region

Prey Veng province is located in the Chaktomuk region. There were 24 registered CFis. Thirteen CFis were selected as the sample of the assessment. The results of assessment in Prey Veng indicated that 31% of CFis were strong, 69% moderate, and 0% week (Figure 1).

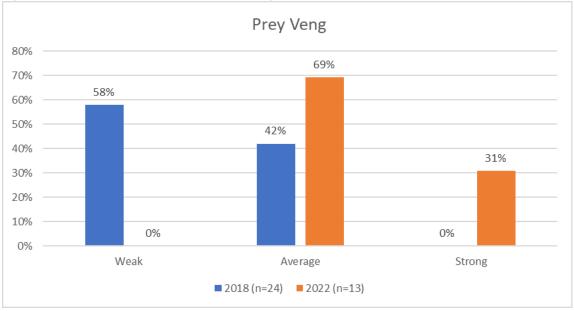
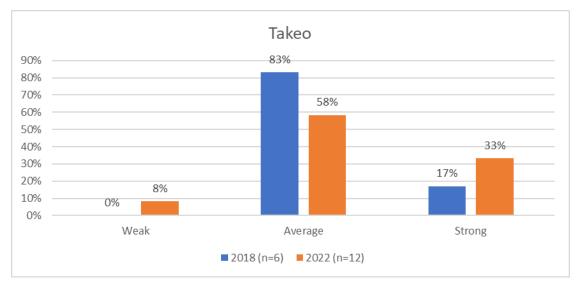


Figure 1: The result of CFi assessment in Pre Veng in 2022 vs 2018

Takeo province is located in the Chaktomuk region. There were 12 registered Cfis and all of them were selected for assessment. The result showed that 33% of CFis were strong, 58% moderate, and 8% week (Figure 2).





3.2. Mekong Region

Kampong Cham province is located in the Mekong Region. There were 13 registered CFis. Nine CFis were selected as the sample for assessment. The results of assessment in Kampong Cham indicated that 11% of CFis were strong, 56% moderate, and 33% week (Figure 3).

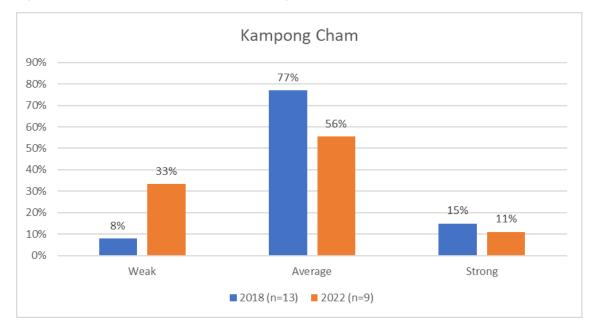
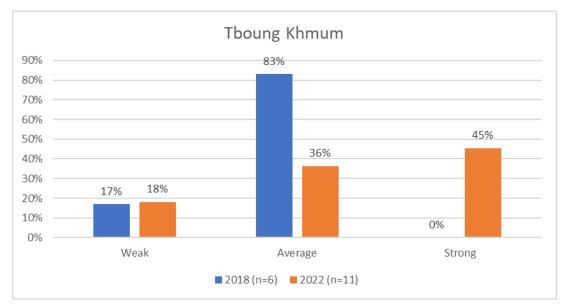


Figure 3: The result of CFi assessment in Kampong Cham in 2022 vs 2018

Thoung Khmum province is located in the Mekong region. There were 14 registered CFis. Eleven CFis were selected as the sample of the assessment. The results showed that 45% of CFi were strong, 36% moderate, and 18% week (Figure 4).





3.3. Tonle Sap lake

Kampong Chhnang is one of the provinces located in Tonle Sap. There were 54 registered CFis in this province. Forty of registered Cfis were selected as the sample of the assessment. The results of assessment in this province indicated that 43% of CFis were strong, 55% moderate, and 3% week (Figure 5).

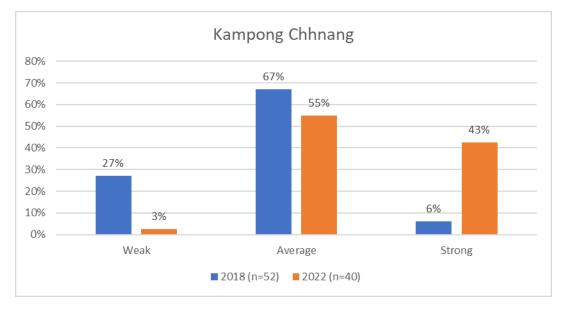


Figure 5: The result of CFi assessment in Kampong Chhnang in 2022 vs 2018

Pursat is another province located in the Tonle Sap Region. There were 32 registered CFis. Eighteen CFis were selected as the sample of the assessment. The results of assessment showed that 44% of CFis are strong, 50% moderate, and 6% week (Figure 6).

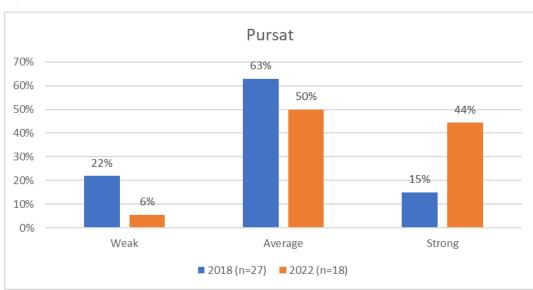


Figure 6: The result of CFi assessment in Pursat in 2022 vs 2018

Battambang province is also located in Tonle Sap Region. There are 42 registered CFis. Thirty CFis were selected as the sample of the assessment. The results of assessment in this province indicated that 23% of CFis are strong, 70% moderate, and 7% week (Figure 7).

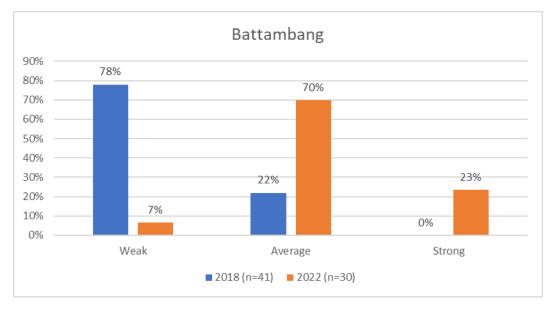
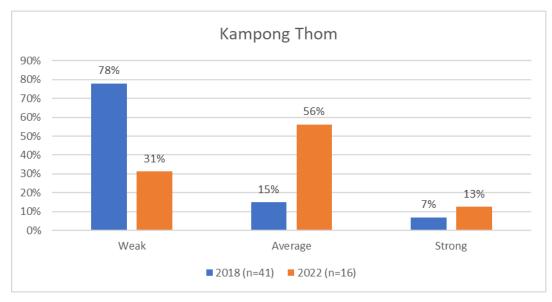


Figure 7: The result of CFi assessment in Battambang in 2022 vs 2018

Kampong Thom province is also located in Tonle Sap Region. There are 40 registered CFis. Sixteen CFis were selected as the sample of the assessment. The results of assessment in this province indicated that 13% of CFis were strong, 56% moderate, and 31% week (Figure 8).





Siem Reap is also located in Tonle Sap Region. There are 22 registered CFis. Eight were selected as the sample of the assessment. The results of assessment in this province indicated that 75% of CFis were strong, 25% moderate, and 0% week (Figure 9).

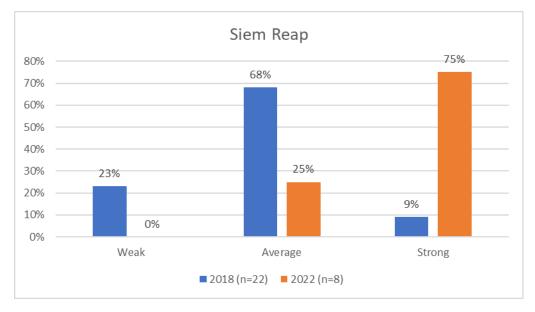
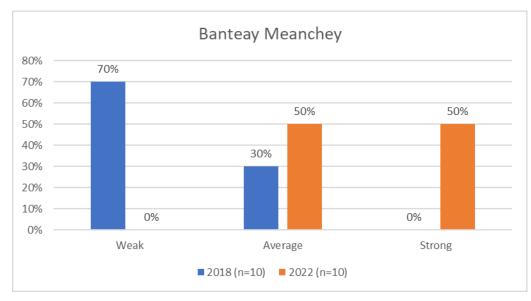


Figure 9: The result of CFi assessment in Siem Reap in 2022 vs 2018

Banteay Meanchey province is also located in Tonle Sap Region. There are 17 registered CFis. 10 were selected as the sample of the assessment. The results of assessment in this province indicated that 50% of CFis were strong, 50% moderate, and 0% week (Figure 10).

Figure 10: The result of CFi assessment in Banteay Meanchey in 2022 vs 2018



3.4. Coastal Region

Kep province is located in the coastal region. There were 5 registered CFis. All of CFis were selected as the sample of the assessment. The results of assessment in Kep province indicated that 80% of CFis are strong, 20% moderate, and 0% week (Figure 11).

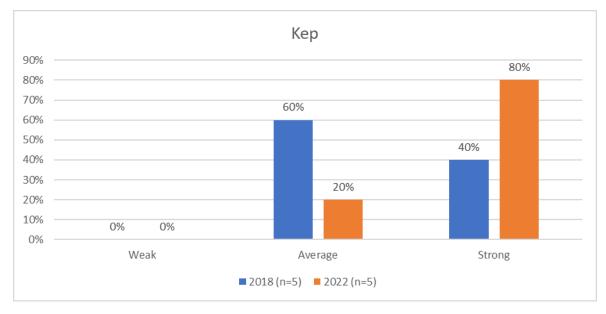
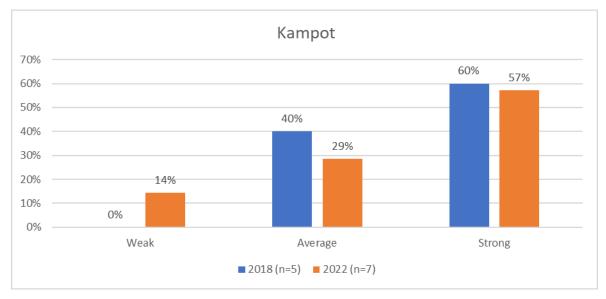


Figure 11: The result of CFi assessment in Kep in 2022 vs 2018

Kampot is another province in the coastal region. There are 7 registered CFis. All of them were selected as the sample of the assessment. The results of assessment in Kampot province indicated that 57% of CFis were strong, 29% moderate, and 14% week (Figure 12).

Figure 12: The result of CFi assessment in Kampot in 2022 vs 2018



Preah Sihanouk province is also located in coastal region. There were 13 registered CFis. Ten CFis were selected as the sample of the assessment. The results of assessment in this province indicated that 30% of CFis are strong, 50% moderate, and 20% week (Figure 13).

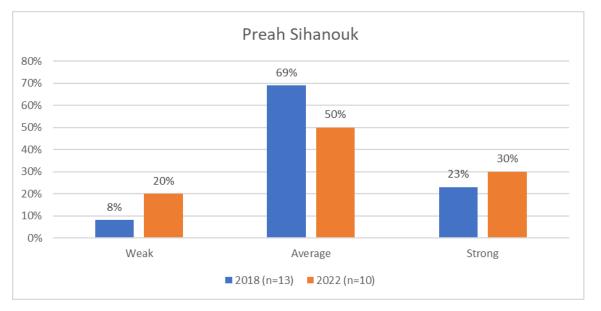
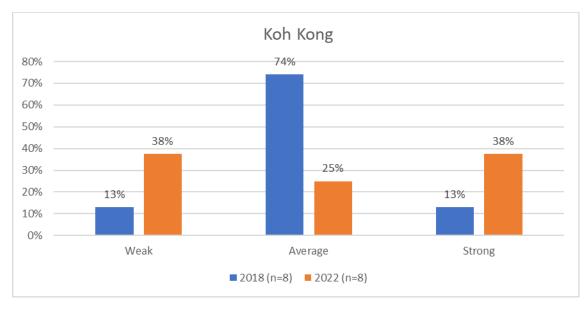


Figure 13: The result of CFi assessment in Preah Sihanouk in 2022 vs 2018

Koh Kong province is located in the coastal region. There are 14 registered CFis. Eight CFis were selected as the sample of the assessment. The results of assessment in Koh Kong indicated that 38% of CFis were strong, 25% moderate, and 38% week (Figure 14).

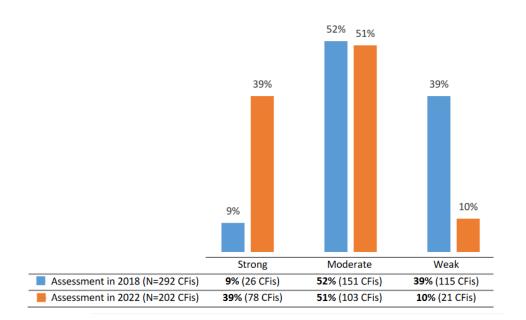
Figure 14: The result of CFi assessment in Koh Kong in 2022 vs 2018



3.5. Summary of all results

The data collection for registered CFis in the 17 provinces in 2022 showed that 39% (78 CFis) were strong, 51% (103 CFis) moderate, and 10% (21 CFis) were weak. In comparing the 2022 results with those from 2018, while roughly half of the CFis in both assessments were assessed as moderate, the overall number of strong CFis increased in 2022 while that of weak CFis dropped. The results of these assessments indicate that the proportions of strong and weak CFis have reversed, with weak CFis decreasing from 39% in 2018 to 10% in 2022, and strong CFis increasing from 9% in 2018 to 39% in 2022 (Figure 15). Therefore, the target of 34% strong CFis was met.

Figure 15: CFi Effectiveness Assessment in 2018 vs 2022



CFi Effectiveness Assessment in 2018 vs 2022

S.N	Regional	English	CFI	Survey	Survey	% Survey 2022	Weak	Average	Strong	% Weak	% Average	% Strong	Total
			Registered	2018 (n)	2022 (n)	to CFi Register	2022 (n)	2022 (n)	2022 (n)	2022	2022	2022	
1	Chaktomuk	Phnom Penh											
2	Chaktomuk	Kandal	5	3		0%							
3	Chaktomuk	Prey Veng	28	24	13	46%	0	9	4	0%	69%	31%	100%
4	Chaktomuk	Takeo	12	6	12	100%	1	7	4	8%	58%	33%	100%
5	Chaktomuk	Svay Rieng	1										
	sub-total Chakto	omuk	46	33	25	54%	1	16	8	4%	64%	32%	100%
6	Mekong	Kampong Cham	13	13	9	69%	3	5	1	33%	56%	11%	100%
7	Mekong	Tboung Khmum	14	6	11	79%	2	4	5	18%	36%	45%	100%
8	Mekong	Kratie	63		2	3%	0	0	2	0%	0%	100%	100%
9	Mekong	Stung Treng	52		2	4%	0	0	2	0%	0%	100%	100%
10	Mekong	Ratanak Kiri	14	14	1	7%	0	0	1	0%	0%	100%	100%
11	Mekong	Mondul Kiri	3	2		0%							
	sub-toal Mekong	I	159	35	25	16%	5	9	11	20%	36%	44%	100%
12	Southern	Kampong Chhnang	54	52	40	74%	1	22	17	3%	55%	43%	100%
13	Southern	Pursat	32	27	18	56%	1	9	8	6%	50%	44%	100%
14	Southern	Battambang	42	41	30	71%	2	21	7	7%	70%	23%	100%
15	Southern	Pailin											
16	Southern	Kampong Speu											
	sub-toal Souther	'n	128	120	88	69%	4	52	32	5%	59%	36%	100%
17	Northern	Kampong Thom	40	41	16	40%	5	9	2	31%	56%	13%	100%
18	Northern	Siemreap	22	22	8	36%	0	2	6	0%	25%	75%	100%
19	Northern	Banteay Meanchey	17	10	10	59%	0	5	5	0%	50%	50%	100%
20	Northern	Oddar Meanchey											
21	Northern	Preah Vihear											
	sub-toal Norther	'n	79	73	34	43%	5	16	13	15%	47%	38%	100%
22	Marine	Кер	5	5	5	100%	0	1	4	0%	20%	80%	100%
23	Marine	Kampot	7	5	7	100%	1	2	4	14%	29%	57%	100%
24	Marine	Preah Sihanouk	13	13	10	77%	2	5	3	20%	50%	30%	100%
25	Marine	Koh Kong	10	8	8	80%	3	2	3	38%	25%	38%	100%
	sub-toal Marine		35	31	30	86%	6	10	14	20%	33%	47%	100%
	Total		447	292	202	45%	21	103	78	10%	51%	39%	100%

Table 1: Summary result of CFi assessment in 2022 by province

Correlation between effectiveness criteria and strong CFi rating

An analysis of correlations between CFi status and factors in the 4 effectiveness criteria (Table 2) revealed that strong CFis were characterized by a range of variables including: several related to the impacts/benefits of the CFi (7 out of 17 variables); regular patrolling (1 out of 7 variables) under CFI management; and 2 out of 11 CFi sustainability variables, i.e., the levels of participation anticipated by CFi members in community fisheries activities, and future level of the knowledge about the CFi by-laws anticipated among the CFi members.

Table 2: Results of correlation analysis between the strength of CFi status and variables in the 4 effectiveness criteria in the 2022 CFi Effectiveness Assessment

Correlation				
coefficient	Variables with strong relationship with the strength of CFi status			
Management	1 out of 7 Management variables 2022			
0.615**	Patrolling regularly			
CFiC	0 out of 7 Committee variables 2022			
	No variables with strong correlation			
Benefits/impacts	nefits/impacts 7 out of 17 Benefits/Impact variables 2022			
	Compared to a few years ago, how proud CFi members are now to be a part of the			
0.699**	community			

	Compared to a few years ago, how are the socioeconomic benefits of CFi members
0.631**	in comparison to non-CFI members now?
0.692**	Compared to a few years ago, how is the fish catch now?
0.685**	Compared to a few years ago, how is the income now?
	Compared to a few years ago, how is the CFi fishing ground now providing fish and
0.656**	other aquatic resources for income of the CFi members?
	Compared to a few years ago, how is the CFi fishing ground now providing fish and
	other aquatic resources for food security (household consumption) of the CFi
0.674**	members?
0.600**	Compared to a few years ago, how is the fish stock in your CFi fishing areas now?
Sustainability	2 out of 11 Sustainability variables 2022
	Based on the current level of the participation of CFi members in the community
0.616**	fisheries activities, what level do you think will be in the future?
	Based on the current level of the knowledge about the CFi by-laws among the CFi
0.631**	members, what level do you think will be in the future?

Comparative analysis of CFi pairwise status 2018 VS 2022

Given that 163 CFis (81%) in the data set of the 2022 CFi effectiveness assessment were also included in the 2018 data set, a paired comparison analysis was also performed to assess changes in the statuses of these 163 CFis over the 4 years between these two assessments. The results (see summary in Table 3) show that the proportion of CFis in the moderate status category was similar; 52% in 2018 and 55% in 2022. Comparable to the overall assessment results based on the total 202 registered CFis, there was a significant reduction in weak CFis from 39% in 2018 to 9% in 2022. This was paralleled by an increase in the percentage of strong CFis from 10% in 2018 to 37% in 2022. Among the CFis assessed as being weak in 2018, 13% remained weak in 2022, while 63% were assessed as moderate and 24% had become strong. Of the CFis assessed as moderate in 2018, 7% were now assessed as weak while 43% had become strong. In the CFi group assessed as strong in 2018, 44% were assessed as moderate in 2022.

	Status 2018							
Status 2022	Weak n (%)	Moderate n (%)	Strong n (%)	Total (%)				
Weak	8	6	0	14				
	(13%)	(7%)	(0%)	(9%)				
Average	40	42	7	89				
	(63%)	(50%)	(44%)	(55%)				
Strong	15	36	9	60				
	(24%)	(43%)	(56%)	(37%)				
Total n (%)	63	84	16	163				
	(39%)	(52%)	(10%)	(100%)				

Table 3: Results on changes in CFi statuses from paired analysis of 163 registered CFis in both the 2018 and 2022 assessments

The four main criteria for assessing CFi effectiveness in 2018 and 2022 were comparable. Similar "average" ratings were given for each of the 163 CFis in each of the four main criteria: 1. community fisheries management and operations; 2. CFC's processes for community engagement; 3. benefits/impacts of CFi; and

4. CFi sustainability. The 2022 results show slightly higher ratings, especially for the criterion focused on the CFC's processes for engaging communities.

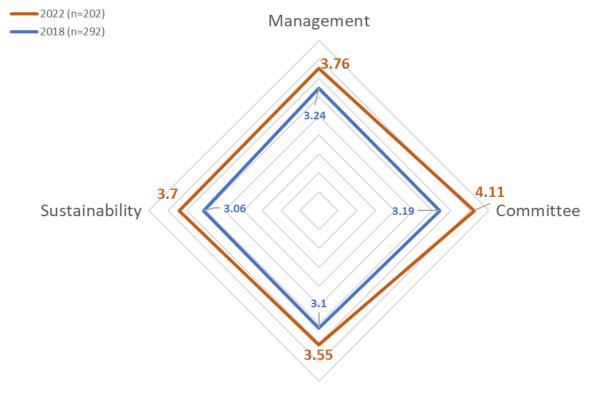


Figure 16: Comparing mean scores of the four effectiveness criteria in 2018 and 2022

Impacts

Table 4: Summary result of pair - CFi assessment moving up and down from 2018 and 2022

	Weak	Average	Strong		
Status (n)	2018	2018	2018	Total (n)	Status 2022
Weak 2022	8	6		14	9%
Average 2022	40	42	7	89	55%
Strong 2022	15	36	9	60	37%
Total	63	84	16	163	100%
Overall 2018	39%	52%	10%	100%	
Weak 2022	13%	7%	0%	9%	
Average 2022	63%	50%	44%	55%	
Strong 2022	24%	43%	56%	37%	
Total	100%	100%	100%	100%	

Table 5 presents a comparison among those 163 Pair-CFis conducted in both 2018 and the follow up in 2022. Of these CFis, more than 3 times more CFis are presently rank as strong in comparison to 2018. Similarly, the percentage of CFis with weak status declined from 39% in 2018 to 9% in 2022.

S.N	Regional	English	Panel-Pair	% W	leak	% Ave	erage	% St	rong
			2018-22 (n)	2018	2022	2018	2022	2018	2022
1	Chaktomuk	Prey Veng	13	62%	0%	38%	69%	0%	31%
2	Chaktomuk	Takeo	6	0%	0%	83%	33%	17%	67%
	sub-total Chakto	muk	19	42%	0%	53%	58%	5%	42%
3	Mekong	Kampong Cham	6	17%	33%	67%	67%	17%	0%
4	Mekong	Tboung Khmum	4	25%	0%	75%	25%	0%	75%
5	Mekong	Ratanak Kiri	1	0%	0%	100%	0%	0%	100%
	sub-toal Mekong		11	18%	18%	73%	45%	9%	36%
6	Southern	Kampong Chhnang	36	22%	3%	69%	56%	8%	42%
7	Southern	Pursat	15	20%	7%	53%	47%	27%	47%
8	Southern	Battambang	30	70%	7%	30%	70%	0%	23%
	sub-toal Southern		81	40%	5%	52%	59%	9%	36%
9	Northern	Kampong Thom	15	80%	27%	7%	60%	13%	13%
10	Northern	Siemreap	8	38%	0%	63%	25%	0%	75%
11	Northern	Banteay Meanchey	6	83%	0%	17%	83%	0%	17%
	sub-toal Norther	n	29	69%	14%	24%	55%	7%	31%
12	Marine	Кер	5	0%	0%	60%	20%	40%	80%
13	Marine	Kampot	3	0%	0%	33%	33%	67%	67%
14	Marine	Preah Sihanouk	9	11%	11%	78%	56%	11%	33%
15	Marine	Koh Kong	6	0%	50%	100%	33%	0%	17%
	sub-toal Marine		23	4%	17%	74%	39%	22%	43%
	Total		163	39%	9%	52%	55%	10%	37%

Table 5: Summary result of pair - CFi assessment 2018 and 2022

4. Conclusion and recommendations

Comparing the results of the CFi effectiveness assessments in 2018 and 2022, it can be concluded that the effectiveness of registered CFis improved significantly over time. Data from the two CFi status assessments indicate that the number of weak CFis are reducing, whilst the number of strong CFi are increasing. The proportion of CFis assessed as 'moderate' appears to be unchanged, representing about half of all registered Cfis, while the proportion of strong CFis increased and that of weak CFis decreased. The proportions of strong and weak CFis have in fact reversed, with the number of weak CFis decreasing over the four years between assessments from 39% to 10%, while the number of strong CFis comparably increased from 9% to 39%. Therefore, the target of 34% strong CFis was met.

The CFi effectiveness assessment is a critical tool to track the situation and effectiveness of all CFis in Cambodia. It is also a means to provide important input for developing plans and policies for supporting the CFi development process. The methodology developed in 2018 was sound and successfully implemented. This methodology continued to be used in 2022 with an improved data

collecting tool that integrated up-to-date and additional variables for CFi effectiveness. In future assessments, the tool should be adjusted to make sure that important variables for the time period are taken into consideration. The questions should remain to be easy to understand and answer by the community members. Participants attending the FGD session should be CFi members (instead of the village chief, CFi chief and CFi committee members) to avoid biased information. The only exception applies to those questions that only the CFi committee themselves can respond accurately.

These 2018 and 2022 assessments demonstrate that CFi effectiveness can rise from weak or moderate to strong. At the same time, the findings show that CFis that were strong in the past can dropinto the moderate category over time. This finding is very important and indicates the importance of continuing activities and capacity building support to all CFis, regardless of the category they are in, to ensure that they can become or remain strong, and can be sustainable into the future.

All CFis (registered and non-registered) should be assessed to assess the strengths and weaknesses of each CFi. The pair-wise analysis with the CFis included in both 2018 and 2022 assessments should be continued when possible as these will help track the differences of the individual CFis. Additionally, a study should be conducted to identify the factors and root causes of CFis being inactive or weak, and to subsequently address these factors in the most effective ways possible.

Since staff members of the FiACs have the capacity to do follow-up assessments with the simple, predesigned FGD questions and data template, they should be able to carry out a new assessment within next three years, and to provide the results from each of the Cantonments to the FiA-CFDD for compiling and conducting overall analysis and synthesis. It is important the CFDD has support from other relevant FiA departments in their data analysis as this has been an area of low capacity.

Among the 4 criteria of effectiveness, a correlation analysis between the CFi effectiveness status and the factors that support strong CFis shows the benefits and impacts of the CFi are most important, followed by regular patrolling and the level of participation by CFi members in community fisheries activities and their levels of knowledge regarding the CFi legal frameworks. Therefore, to encourage the community fisheries to work towards sustainability and efficiency, the two most important tasks should focus on the implementation of the main activities affecting CFi impacts and sustainability.

In combination with other assessments and studies, it is clear that sustainable financing mechanisms should be developed and strengthened to make sure that all CFis can become more self-reliant, stronger, and sustainable. Collecting cash contributions should be undertaken from people who are not CFi's members but who conduct fishing activities in the CFi area—a practice that has not been common in most CFis in the country. Identifying possibilities for CFis to secure sources of income to directly support CFi development will be an important incentive for both the CFi committee members and their families as well as other community members to join in the CFi activities, and increase their readiness to take on the responsibilities, tasks, and ownership of the CFi. At the same time, it is necessary to amend the sub-decree on Community Fisheries Management to make it possible for a CFi to do community-based and small fishing inside of its CFi area and to have more rights for developing the CFi. The promotion of supplementary and alternative sources of income, such as

saving groups, eco-tourism, and credit services are very important for the livelihoods of poor local fishers and local people.

Lastly, the knowledge of which CFis are strong in each of the province and region could allow hosting events to effectively support knowledge exchange, having strong CFis provide lessons learnt and good practices to those that are moderate or weak. Simultaneously, the knowledge of weak and moderate CFis should be used to initiate and strengthen the capacity of CFi committee members to address areas of needs.

Focus Group Discussion for CFi's Effectiveness Assessment

(Please tick $[\checkmark]$ only one answer per question, unless specified)

a. ID:	b. Date:	c. Name(s) of facilitator(s)			
		Interviewer:			
		Note taker:			

I. Description of CFi	
1.1 What is the name of the CFi?:	
1.2 Where is it located?	1.2.1 Village(s):
1.2.2 Commune(s):	1.2.3 District(s):
1.2.4 Province:	

II. Management/Operation of CFi					
To what extent has CFi been with the following management and operation aspects?					
2.1 Creating a conservation area	1. No 🗆	3. In preparation \Box	5. Yes 🗆		
2.2 Making conservation area useful for conserving fisheries	1. No 🗆	3. Some 🗆	5. A lot 🗆		
2.3 Resolving fisheries conflicts in the CF fishing area	1. No 🗆	3. Sometimes 🗆	5. Always 🗆		
2.4 Reducing illegal fishing	1. No 🗆	3. Some 🗆	5. A lot 🗆		
2.5 Patrolling regularly	1. No 🗆	3. Sometimes	5. Often 🗆		
2.6 Enforcing rules and internal regulations against illegal fishing	1. No 🗆	3. Some 🗆	5. A lot 🗆		
2.7 Disseminating information on fisheries laws, sub- decrees, rules and regulations to community members	1. No 🗆	3. Sometimes 🗆	5. Always 🗆		

III. Community Fishery Committee (CFC) process of engaging communities				
To what extent has the CFC been in the following processes?				
3.1 CFC meets and consults with members	1. No 🗆	3. Some 🗆	5. Fully 🗆	

jects	1. No 🗆	3. Some 🗆	5. Fully 🗆
3 CFC holds re-elections together with the 1. N		3. Yes with	5. Yes and
community and support from fisheries officials		some delay 🗆	on time 🗆
one	1. No 🗆	3. Some 🗆	5. Fully 🗆
	1. No 🗆	3. Some 🗆	5. Fully 🗆
	4 N -		
ien,	1. NO 🗆	3. Some 🗆	5. Fully 🗆
	4 11		
	1. NO 🗆	3. Some 🗆	5. Fully 🗆
		T	T
1. No	o better	3. Some better	5. Much
acce	SS 🗆	access 🗆	better access
1. No	o better	3. Some better	5. Much
acce	SS 🗆	access 🗆	better access
1. No 🗆		3. Some people	5. All people
1. Less 🗆		3. Same 🗆	5. More 🗆
1. Les	SS 🗆	3. Same 🗆	5. More 🗆
1. Les	SS 🗆	3. Same 🗆	5. More 🗆
1. No I	oenefit 🗆	3. Some	5. Lots of
			benefits
1 Less 🗆			5 More 🗆
000			
1.1.655		3. Same 🗆	5 More 🗆
	·		
1. Less		3. Same 🗆	5 More 🗆
	Dine Dinen, 1. No acce 1. No acce 1. No 1. Les 1. Les 1. Les	1. No □ s 0ne 1. No □ 1. No □	1. No 3. Yes with some delay one 1. No 3. Some 1. No 3. Some 1 nen, 1. No 3. Some 1 1. No 3. Some 1 1 1. No 3. Some 1 1 1. No 3. Some 1 1 1. No better 3. Some better 1 1 1. No better 3. Some better 1 1 1. No better 3. Some people 1 1 1. No 3. Some people 1 1 1 1. No 3. Some people 1 1 1 1 1. Less 3. Same 3 3 3 3 1. Less 3. Same 3 3 3 3 3 1. Less 3. Same 3

4.2.e Compared to a few years ago, how	are	1. Less 🗆		3. Sam	ne 🗆	5 More 🗆
the markets for fish now?						
4.2.f Compared to a few years ago, how	are	1. Less 🗆		3. Sam	ne 🗆	5 More 🗆
the alternative livelihood sources (cash	n and					
non cash) now?						
If more, what are the alternative livelihood	ds? Pleas	se specify.				
4.2.g Compared to a few years ago, how		1. Little 🗆		3. Mo	derately	5. Enough for
CFi fishing ground now providing fish a						most
other aquatic resources ² for income of	the					members \Box
CFi members?						
4.2.h Compared to a few years ago, how		1. Little 🗆			derately	5. Enough for
CFi fishing ground now providing fish a						most
other aquatic resources for food securi	ity					members 🗆
(household consumption) of the CFi members?						
4.2.i Other (specify):	1. Less 🗆			3. Same 🗆		5 More 🗆
Environment			5. Sdll			
4.3.a Compared to a few years ago, how	is tho fi	shistock	1 \//c	orse 🗆	3. Same □	5. Better 🗆
in your CFi fishing areas now?	IS LIFE II.	SITSLUCK	1		5. Same 🗆	J. Detter
4.3.b Compared to a few years ago, how	is the co	ondition	1. Wo	orse 🗆	3. Same 🗆	5. Better 🗆
of the fish brood stock in your CFi conser						
Compared to a few years ago, how has	CFi nov	v helped in	prove,	/restore	e the follow	ing habitats for
fish and aquatic life in the CFi area?						
4.3.c Inundated/flooded forest	0. Not	relevant	1. Wo	orse 🗆	3. Same 🗆	5. Better 🗆
4.3.d Coral reef	0. Not relevant		1. Wo	orse 🗆	3. Same 🗆	5. Better 🗆
4.3.e Mangrove	0. Not relevant		1. Wo	orse 🗆	3. Same 🗆	5. Better 🗆
4.3.f Seagrass	0. Not relevant		1. Wo	orse 🗆	3. Same 🗆	5. Better 🗆
4.3.g Compared to a few years ago, how is			1. Wo	orse 🗆	3. Same 🗆	5. Better 🗆
understanding of the importance of sustai	ning nat	ural				
resources among community members?						

V. Community Fisheries Sustainability			
Social			
5.1.a Based on the current level of fishers who are members of the CFi (compared to the total number of fishers in the community), what level do you think will be in the future?	1. Less □	2. Same 🗆	3. More 🗆

² Other aquatic resources include animals and plants that come from the CFi fishing grounds.

5.1.b Based on the current level of the participation of	1. Less 🗆	2. Same 🗆	3. More 🗆
CFi members in the community fisheries activities,	1. 2005	2. Sume 🗆	5. WOLC -
what level do you think will be in the future?			
5.1.c Based on the current level of the knowledge	1. Less 🗆	2. Same 🗆	3. More 🗆
about the CFi by-laws among the CFi members, what			
level do you think will be in the future?			
5.2.d Based on the current CFi Committee's	1. Weaker 🗆	2. Same 🗆	3. Stronger 🗆
ability/capacity to lead CFi, what level do you think will			
be in the future?			
Economic			
5.2.a Based on the current fisheries-related income of	1. Less 🗆	3. Same 🗆	5. More 🗆
CFI community members , what do you think it will be			
5.2.a Based on the current fisheries-related income of CFI community members , what do you think it will be in the future?	1. Less □	3. Same 🗆	5. More 🗆

ASK ONLY CFC	1. Less 🗆	3. Same 🗆	5. More 🗆
5.2.b Based on the current CFC budget to support CFi			
activities, what do you think it will be in the future?			

ASK ONLY CFC	a. No funding 🗆	b. Government 🗆	c. NGO 🗆
5.2.c What are the current financing sources of CFi?	d. Donor 🗆	e. CFI members (membership fee) 🗆	f. Companies 🗆
Check [✓] all that apply)	g. Church/ pagoda □	h. Contributions from non-CFi fishers □	i. Income from fishing operations □
	j. Income from eco-tourism □	k. Internal micro- credits (e.g. from saving groups) □	I. Others, specify

Governance			
5.3.a Based on the current fisheries management, what do you think it will be in the future?	 Will not improve (continue to be poorly managed) □ 	3. Will be managed better □	5. Will be managed sustainably \Box
5.3.b Based on the current fisheries harvest control (who, where and how fisheries are harvested), what do you think it will be in the future?	1. Will still have no control □	3. Will have more control □	5. Will have sustainable control over
5.3.c Based on the current compliance to fisheries rules, what do you think it will be in the future?	1. Still nobody will comply □	3. More people will comply □	5. Everyone will comply 🗆

ASK ONLY CFC	1. Less 🗆	2. Same 🗆	3. More 🗆
5.3.d Based on the current means and budget			
for patrolling, what do you think they will be			
in the future?			

Environment			
5.4.a Based on the current condition of the fisheries resources, what do you think they will be in the future?	1. Unsustainable/ Worse □	2. Same 🗆	3. Sustainable/ Better □
5.4.a Based on the current condition of the fisheries habitats, what do you think they will be in the future?	1. Unsustainable/ Worse □	2. Same 🗆	3. Sustainable/ Better □

6. What do you think are the 3 most important things that would make CFi stronger and more sustainable?

PLEASE BE SURE TO TAKE NOTES AND ENTER THE INFORMATION ACCURATELY.

- 1.

 2.
- 3. _____

Thank you very much for your participation.

Ι.	н.			III.			IV.		_	_	_	۷.	_		_	_	Mean	Mean	Mean	Mean	Total
																					mean
1.1	2.1	2.2	2.6	3.1	3.2	3.6	4.1	4.2	4.3	4.7	4.8	5.1	5.2	5.3	5.9	5.11	មធ្យម	មធ្យម	មធ្យម	មធ្យម	ចំលើយរួម
																	0	0	0	Ŭ	~
								a.	_	_	_		_	a.	_	_	=	=	IV	v	II,III,IV,V
									-	-	-		-		-						
									-	-	-		-		-						
									_	_	_		_		_						
									_	_	_		_		_						

Annex 2: Data template for incorporating and analysing the CFi's effectiveness





Prepared by: Technical Support by: Department of Community Fisheries Development Food and Agriculture Organization of the United Nations

Food and Agriculture Organization of the United Nations

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