

Marine Stewardship Council (MSC)
Doulong River Crayfish Fishery Improvement Project
FIP Action Plan Meeting – Brussels 24 April 2017



Photo: Rod Cappell

Objectives of the meeting

- **Review the draft FIP Action Plan**
- **Agree what can be done locally by Baolong and their partners**
- **See what outside help or resources are required**

Our understanding of the Fishery

- Only red swamp crayfish is landed by traps
- The FIP will only cover traps (no other gear)
- Baolong buy from around 10% (e.g. 50 to 60) of the 500 or so fishermen
- ALL fishers in Dafeng will be included in the UoA, inc. those not selling to Baolong.
- ***DISCUSSION AND CLARIFICATIONS***

Results of the Pre-assessment (MRAG, 2016)

Principle 1: Stock Status

Performance Indicator (PI)	Score	IPG priority	
		Critical	Non-critical
1.1.1 Stock status	<60	✓	
1.1.2 Stock rebuilding	60-80		✓
1.2.1 Harvest strategy	60-80		✓
1.2.2 HCRs	<60	✓	
1.2.3 Information and monitoring	60-80		✓
1.2.4 Assessment of stock status	<60	✓	

Fail <60

Pass with condition (60 – 79)

Results of the Pre-assessment (MRAG, 2016)

Principle 2: Ecosystem

Performance Indicator (PI)	Score	IPG priority	
		Critical	Non-critical
2.1.1 1° species outcome	<60	✓	
2.1.2 1° species management	<60	✓	
2.1.3 1° species information	<60	✓	
2.2.1 2° species outcome	<60	✓	
2.2.2 2° species management	<60	✓	
2.2.3 2° species information	<60	✓	
2.3.1 ETP species outcome	60-80		✓
2.3.2 ETP species management	<60	✓	
2.3.3 ETP species information	<60	✓	
2.4.1 Habitat outcome	60-80		✓
2.4.2 Habitat management	60-80		✓
2.4.3 Habitat information	60-80		✓
2.5.1 Ecosystem outcome	60-80		✓
2.5.2 Ecosystem management	<60	✓	
2.5.3 Ecosystem information	<60	✓	

Results of the Pre-assessment (MRAG, 2016)

Principle 3: Fisheries Governance and Management

Performance Indicator (PI)	Score	IPG priority	
		Critical	Non-critical
3.1.1 Legal & customary framework	60-80		✓
3.1.2 Consultation, roles & responsibilities	60-80		✓
3.1.3 Long-term objectives	60-80		✓
3.2.1 Fishery-specific objective	60-80		✓
3.2.2 Decision-making processes	60-80		✓
3.2.3 Compliance & enforcement	<60	✓	
3.2.4 Management performance	<60	✓	

FIP Summary

Doulong River Trap Fishery for the Red Swamp Crawfish (Crayfish) <i>Procambarus clarkii</i>		Start date: 26 April 2017
Fishery location: Doulong River and associated waterways in Dafeng District, Yancheng Prefecture, Jiangsu Province, PR China	Fishing method: Traps	End date: 31 st March 2020
Project leaders: Lyons Seafood Ltd Bakkavor Foods Ltd Jiangsu Baolong Group Co. Ltd. Other main project partners: Bureau of Fisheries (Dafeng District) (BoF) Fishery Technology Service Station (FTSS) Dafeng Crayfish Fishery Association (DCFA) (tbc) Dafeng Crayfish Fisherman's Group (tbc)		External Partners WWF China / UK MSC China Coop Marks & Spencer's

Identify FIP leads and partners

- **Who should deliver the different actions?**
- **Are they willing to lead the action?**
- **Do they have the resources (staff and finances) to deliver the action?**
- **Who else needs to be involved?**

Action Plan

Principle	Component	Performance Indicator	Actual Year 1	Expected Year 2	Expected Year 3	Actual Year 2	Status	Actual Year 3	Status
1	Outcome	1.1.1 Stock status	60-79	60-79	≥80	---		---	
		1.1.2 Stock rebuilding	<60	60-79	≥80	---		---	
	Management	1.2.1 Harvest Strategy	60-79	60-79	≥80	---		---	
		1.2.2 Harvest control rules and tools	<60	≥80	≥80	---		---	
		1.2.3 Information and monitoring	60-79	≥80	≥80	---		---	
		1.2.4 Assessment of stock status	<60	≥80	≥80	---		---	
2	Primary species	2.1.1 Outcome	<60	60-79	≥80	---		---	
		2.1.2 Management	<60	60-79	≥80	---		---	
		2.1.3 Information	<60	60-79	≥80	---		---	
	Secondary species	2.2.1 Outcome	<60	60-79	≥80	---		---	
		2.2.2 Management	<60	60-79	≥80	---		---	
		2.2.3 Information	<60	60-79	≥80	---		---	
	ETP species	2.3.1 Outcome	60-79	≥80	≥80	---		---	
		2.3.2 Management	<60	60-79	≥80	---		---	
		2.3.3 Information	<60	60-79	≥80	---		---	
	Habitats	2.4.1 Outcome	60-79	≥80	≥80	---		---	
		2.4.2 Management	60-79	60-79	≥80	---		---	
		2.4.3 Information	60-79	60-79	≥80	---		---	
	Ecosystem	2.5.1 Outcome	60-79	≥80	≥80	---		---	
		2.5.2 Management	<60	60-79	≥80	---		---	
		2.5.3 Information	<60	60-79	≥80	---		---	
3	Governance and Policy	3.1.1 Legal and customary framework	60-79	≥80	≥80	---		---	
		3.1.2 Consultation, roles and responsibilities	60-79	≥80	≥80	---		---	
		3.1.3 Long term objectives	60-79	≥80	≥80	---		---	
	Fishery specific management system	3.2.1 Fishery specific objectives	60-79	≥80	≥80	---		---	
		3.2.2 Decision making processes	60-79	60-79	≥80	---		---	
		3.2.3 Compliance and enforcement	<60	60-79	≥80	---		---	
		3.2.4 Management performance evaluation	<60	60-79	≥80	---		---	
Total number of PIs equal to or greater than 80			0	10	28				
Total number of PIs 60-79			13	18	0				
Total number of PIs less than 60			15	0	0				
Overall BMT Index			0.23	0.68	1.00				



MSC standard



Principle 1 – Stock management

1. Stock assessment & management

Principle 2 – Environment

2. Bycatch assessment and management

3. ETP assessment and management

4. Habitat assessment and management

5. Ecological risk assessment and management

Principle 3 – Fishery management

6. Doulong River Crayfish Fishery Management Plan

7. Control & Enforcement

Principle 1 – Stock management

Stock assessment & management

Action	IPG Activities	Lead / Partners	Year		
1. Stock assessment and management					
a. Stock defined & assessment methodology agreed	1a, 3a, 3b	DCFA with BoF & international scientific support	1		
b. Stock rebuilding strategy developed	16a	As above	1		
c. Stock rebuilding strategy agreed	16b	As above	1		
d. Harvest strategy and HCRs formulated	2a, 2b, 2c, 17a, 17b	As above	1		
e. HCRs agreed and monitored	1b, 2d, 17c	As above		2	
f. Stock assessment	1c, 3c	As above			3
g. Harvest strategy & HCR re-evaluation	2e, 17d, 17e, 17f	As above			3

Principle 2 – Environment

2. Bycatch assessment and management

Action	IPG Activities	Lead / Partners	Year		
2. Bycatch assessment and management					
a. Bycatch assessment (1°, 2° & ETP species)	6a, 7a, 8a, 11b, 19a Sentinel fleet survey	DCFA and Baolong	1		
b. Bycatch outcome status assessment (PSA)	4b, 7b, 19a	Poseidon		2	
c. Draft Bycatch Management Strategies	5b, 6b, 8b, 9b, 11c	DCFA with BoA (and Poseidon, with local scientific support)		2	
d. Final Bycatch Management Strategies	5c, 6c, 8e, 9c, 11da	DCFA with BoA (and Poseidon, with local scientific support)			3

Principle 2 – Environment

3. ETP assessment and management

Action	IPG Activities	Lead / Partners	Year		
3. ETP assessment and management					
a. ETP Desk Study	11a	DCFA with Baolong (and local scientific support)	1		
b. ETP Risk assessment	19c	DCFA with Baolong (and local scientific support)	1		

Principle 2 – Environment

4. Habitat assessment and management

Action	IPG Activities	Lead / Partners	Year		
4. Habitat assessment and management					
a. Habitat mapping	22a	DCFA with Baolong (and local scientific support)	1		
b. Habitat outcome status assessment (CSA)	20b	DCFA (and Poseidon)		2	
c. Draft Habitat Strategy	21b, 22b	DCFA (and local scientific support)		2	
d. Final Habitat Strategy	21c, 22c	DCFA (and local scientific support)			3

Principle 2 – Environment

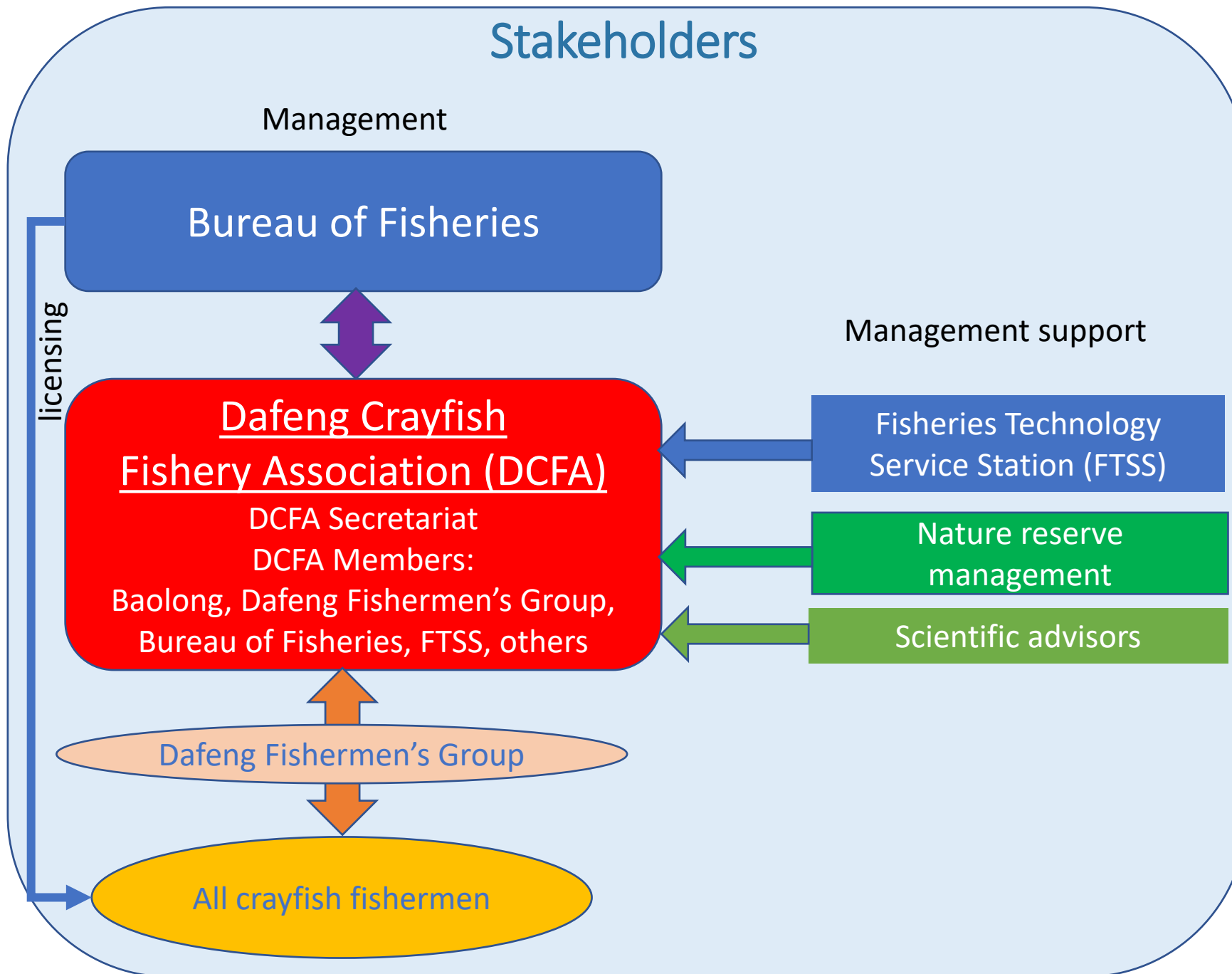
5. Ecological risk assessment and management

Action	IPG Activities	Lead / Partners	Year		
5. Ecological Risk Assessment and Management					
a. Ecological Risk Assessment	12a, 13a, 23a	DCFA (and local scientific support)	1		
b. Draft Ecological Management Strategy	12b, 13b	DCFA (and local scientific support)		2	
c. Final Ecological Management Strategy	12c	DCFA (and local scientific support)			3
d. On-going ecological monitoring	13c	DCFA			3

Principle 3 – Fishery management

6. Doulong River Crayfish Fishery Management Plan

6. Fishery management	IPG Activities	Lead / Partners	Year		
a. Establish DCFA	28a	Baolong with BoF & FIP partners	1		
b. Draft and approve Fisheries Management Plan	24a, 24b, 25a, 25b, 26a, 27a, 28b, 28c,	DCFA	1		
c. Review Management Plan	15b	DCFA		2	
d. Review Management Plan	15c	DCFA (with local fisheries expertise)			3



Doulong River Crayfish Management Plan

1 Scope and objectives

- 1.1 Introduction
- 1.2 Scope of the plan
- 1.3 Objectives

2 Management structure and responsibilities

- 2.1 Dafeng Crayfish Fishery Association
- 2.2 Structure and responsibilities of DCFA

3 Stock management

- 3.1 Stock identiy
- 3.2 Stock assessment
- 3.3 Harvest strategy
- 3.4 Data

4 Environmental management

- 4.1 Bycatch species
- 4.2 Endangered, threatened and protected species
- 4.3 Habitat and ecosystem interactions

5 Evaluation and monitoring

- 5.1 Review process
- 5.2 Timing of reviews

Documents

China
Fisheries
Law

Dafeng
5-year plan

Nature
reserve
plan

Doulong River Crayfish
Management Plan

Crayfish Fishers Code of
Practice (CoP)

Management

Bureau of Fisheries

Dafeng Crayfish
Fishery Association (DCFA)

DCFA Secretariat

DCFA Members:

Baolong, Dafeng Fishermen's Group,
Bureau of Fisheries, FTSS, others

Dafeng Fishermen's Group

All crayfish fishermen

Principle 3 – Fishery management

7. Control and Enforcement

7. Control and enforcement	IPG Activities	Lead / Partners	year		
a. Review Control & Enforcement and prepare plan	14a, 14b	DCFA with BoF	1		
b. Enforcement Reporting and review of sanction regime	14c, 14d	DCFA with BoF		2	

- Bureau of Fisheries oversees the regulations
- DCFA oversees the Code of Practice
- MoU between DCFA and BoF on best way to divide MCS tasks
- Make sure licensed fishers only operate where they are licensed to and in line with regulations (e.g. mesh size, MLS)
- Management plan will specify additional management measures (e.g. number of traps, fishing season, landing points)
- Appropriate sanctions applied
- No non-licensed fishers