



SMALL SCALE FISHERIES GOVERNANCE - SIERRA LEONE AS A CASE STUDY

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INTRODUCTION

- Small-scale or artisanal fisheries are a more traditional, typically labor-intensive form of fishing performed by men, women and children.

Intro. Cont

- Fish are marketed from small-scale fisheries, and there is extensive international trade of some products. However, for poorer fisher families, including a high percentage of female-headed households, the catch is mainly home consumption and this is referred to as subsistence fisheries

The Artisanal fishery



**Fish Landings at Tombo and some
Artisanal fishing crafts**

Institutional framework of Artisanal Fisheries Management

- **Government Institution**

It should be in charge of the management of fisheries activities collaborating with other line Ministries, other government institutions and cooperation with multilateral agencies and Regional Fisheries Management Organisations (RFMOs).

Cont.

- Local government (Councils) are now in charge of revenue collection through licensing of canoes in the artisanal fishery sector.
- They used to have very high influence over fisheries governance decisions.

General Description of the Small Scale Fisheries

Various binding documentations were developed by the Ministry.

- The Reviewed 2017 Fisheries Act
- The Fisheries Policy
- The Fisheries Regulations

Artisanal management tools

- Artisanal Fisheries Management Plan
- MPAs Strategic Plan
- Community By-laws (Co- Management of MPAs)

Social and economy benefit

- The artisanal fishery is a significant source of employment, rural income generation and fish protein to vast majority of our nationals.
- Over 100,000mt of fish is produced annually from this sector.
- Characterized by diverse fishing gears and crafts and is a major activity in all coastal districts

Cont.

- The fishery is conducted from 640 fishing landing sites in the country and creates direct employment for about 30,000 fishermen.
- An estimated 500,000 additional jobs are provided by ancillary activities like fish processing, marketing, boat-building/repairs, with women playing major roles in the fish processing, distribution and marketing.

Characteristics of Small Scale Fishing Gears

Characterized by diverse fishing gears and crafts

- Hand lines
- Ring nets
- traps
- Long Lines
- Surface driftnet
- Bottom set net
- Cast net
- spears

Types of Fishing Nets



Sets net or Drift net



Surface Drift net



Bottom sets nets



Surface gill net

Fishing canoes frame survey

Total # of Fishing craft	Year of survey	Responsible Donors
8,000	2003	Government of Sierra Leone (MFMR)
9,516	2010	EU funded ISFM frame Survey Report,
11,000	2012	West Africa Regional Fisheries Program (WARFP) Canoe registration frame survey (MFMR)

Types of Fishing Canoes



Kru canoe



STD 1-3



STD 3-5



STD 5-10

Cont.



Beach seine (prohibited)

Characteristics of Fishing Canoes

Type	Length	No. of crew	Engine	Description
One man boat (Kru)	6 m	1	Means of propulsion is by paddle or long pole	This is the smallest fishing canoe used in the artisanal fishery of Sierra Leone. It is a dugout canoe carved from timber and pointed at both ends.. It can be used for hand lines, hook and line fishing, cast net and gillnet fishing.
Standard 1-3	6-8 m	3	Sails	This is also a dugout fishing canoe made of timber with planks lining the upper edges. These canoes are used for hook and line fishing, set net and drift net fishing.

Cont.

Type	Length	No. of crew	Engine	Description
Standard 3-5	7-8m	5	25hp	These canoes are made out of wooden planks. They can be used for hook and line fishing, set and drift gillnet fishing and ringnet fishing
Fiberglass	5-10 m	3-6	150-250 hp	Made of fiberglass, used different fishing gear type .

Reclassification of fishing canoes as Semi Industrial fishing gears

- **Standard 5-10 and Ghana Plank**
 - ❖ The Standard 5-10 canoe is also made out of plank wood and usually motorized with 25 – 40hp outboard engines. The Standard 5-10 canoe can carry a crew of maximal 10 men.
 - ❖ These canoes are used for ring netting, bottom set gillnetting, surface drift netting or bottom drift netting.

Semi industrial Fisheries

- For this sector, an area of investment will be to upgrade the larger canoes (Standard 5-10) and the Ghana Type Canoes into Semi-industrial vessels
- They can be fitted with canopies and with ice onboard and capable of multi day fishing
- Decked semi-industrial vessels should be less than 50 GRT
- Once upgraded, there will be increased fish production from semi-industrial
- vessels with the potential for export and return on investment



Artisanal capture species

Captured Small Scale fish species:
pelagic stocks- mainly the clupeids
(*Ethmalosa fimbriata*,

Sardinella maderensis,

Sardinella aurita, *Illisha*

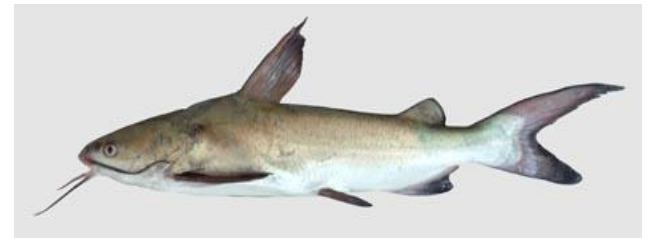
africana) *Caranx hippos* etc.,



Caranx hippos (Cowreh)

Cont.

- *Pomadasys Spp*
(*Grunts*)
- *Pseudotolithus elongatus* (*Bobo Croaker*)
- *Arius spp* (*Sea catfish*)



Co- management

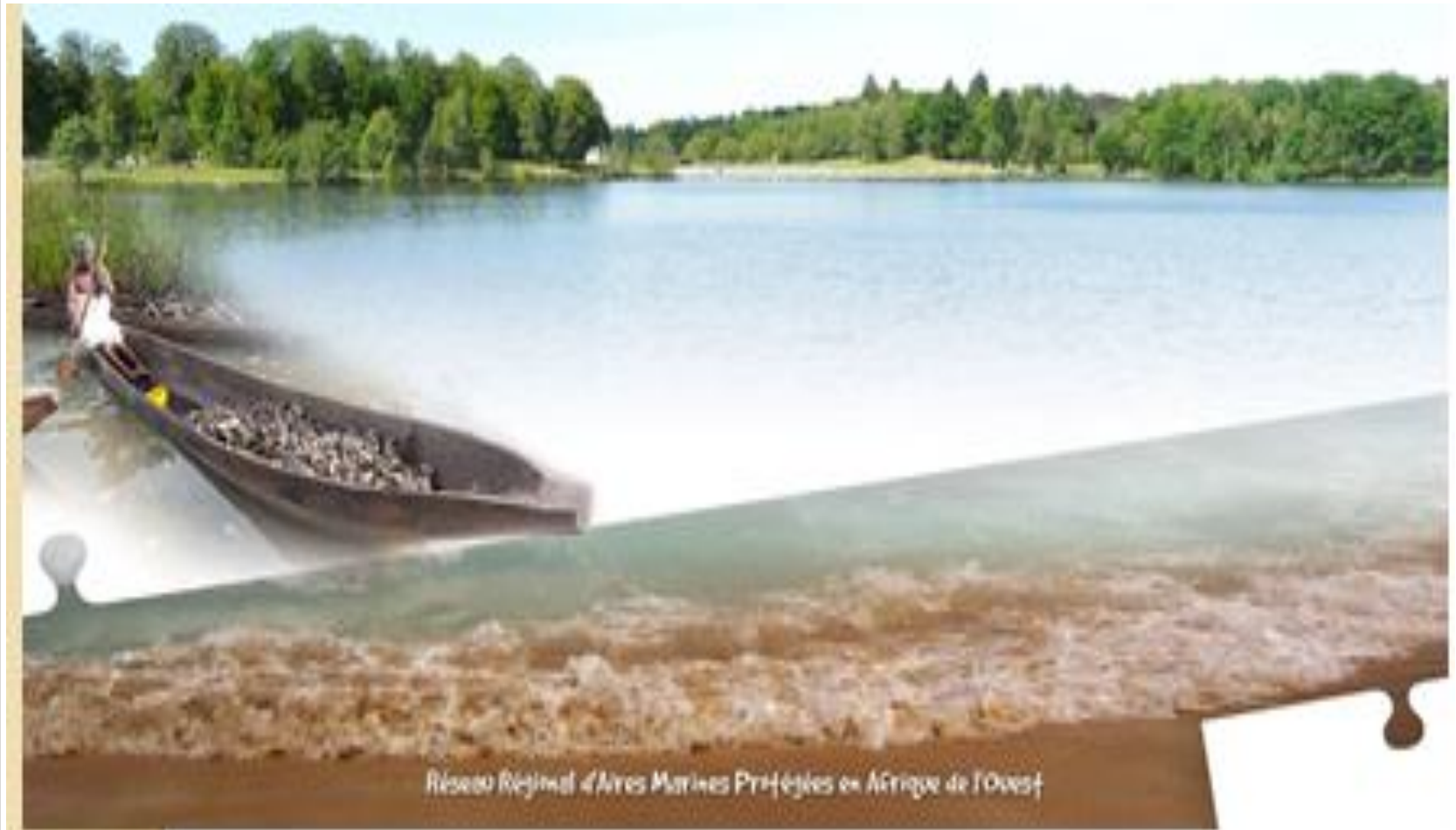
- It is defined as a perspective wherein fishermen's organisations take active part in designing, implementing and enforcing management strategies (Jentoft, 1989; Pomeroy and Berkes, 1997).

Fisheries Marine Protected Areas

MPAs can be powerful means of:

- i. Protecting Critical Marine Areas;
- ii. Increasing public awareness and understanding about the importance of life in the sea; and
- iii. Providing sites for research

Photo. of MPA

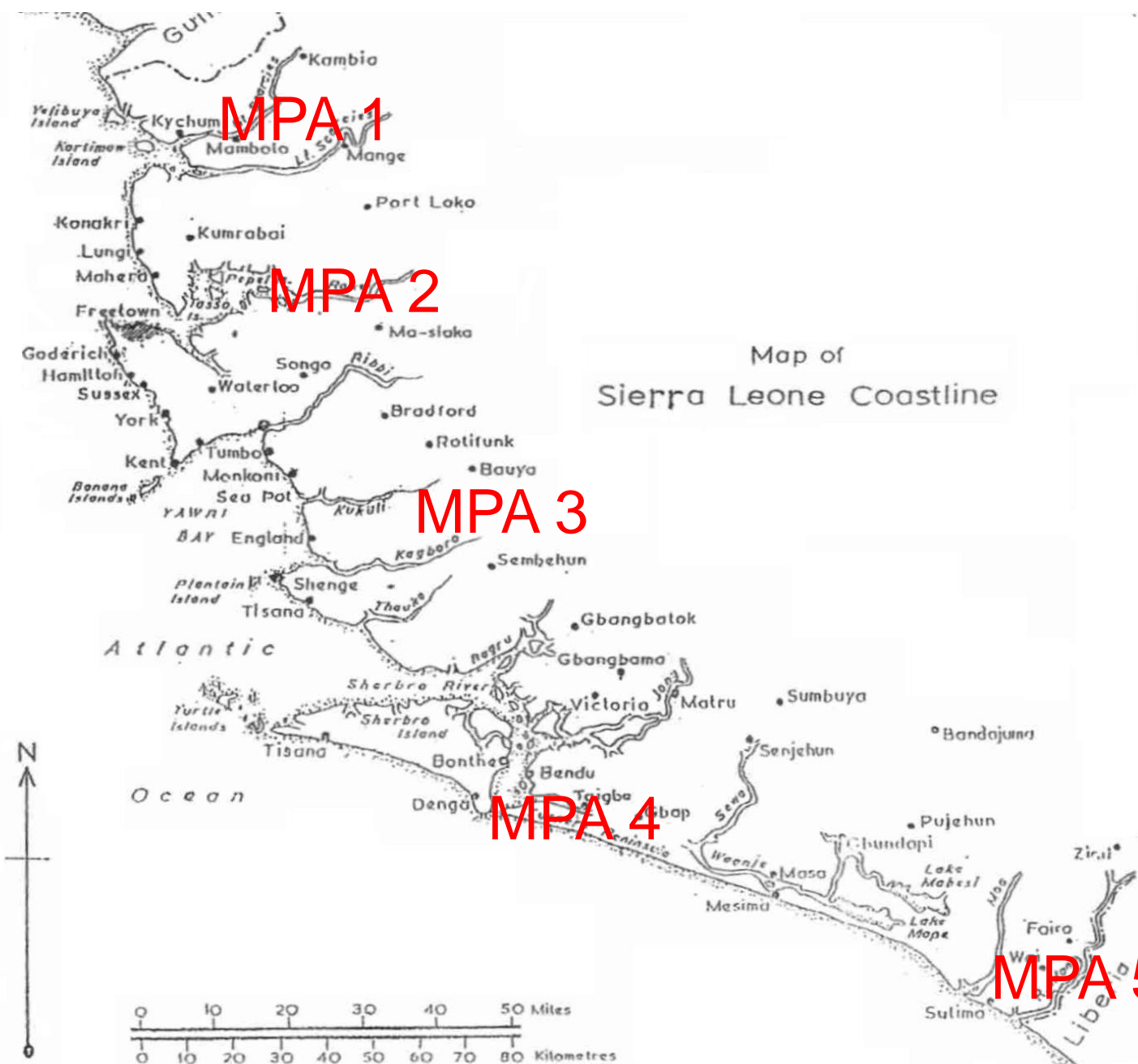


Réseau Régional d'aires Marines Protégées en Afrique de l'Ouest

DECLARED & GAZETTED MPAs IN SIERRA LEONE

Declared Five MPAs :

- i. Scarcies River Estuary
- ii. Sierra Leone River Estuary
- iii. Yawri Bay
- iv. Sherbro River



MPA 1

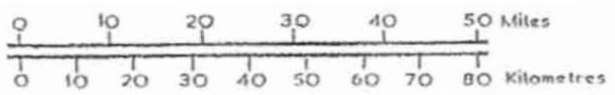
MPA 2

MPA 3

MPA 4

MPA 5

Map of Sierra Leone Coastline



APPROACH/PROCESS

- No one approach has emerged as best in every situation
- Each can make a valuable contribution to maintaining biological diversity, depending on the ecological and socio-economic factors in each area.



The Paramount Chief of Kagboro Chiefdom(Yawri Bay MPAs) delivering welcome remarks



Co- Mg't Consultative Workshop (Sherbro River MPA)

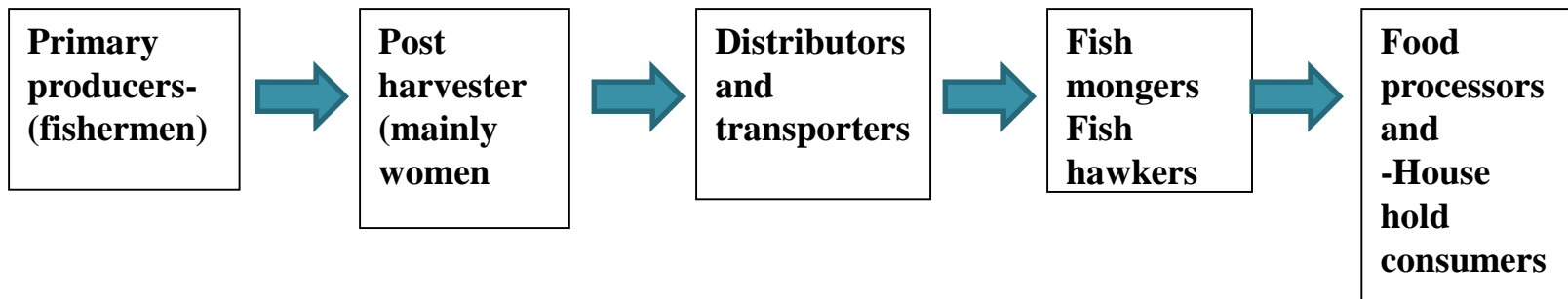


Women doing primary processing on Herring



Women in Fisheries

Simple supply chain in the artisanal fishery markets



Challenges

- IUU fishing including IEZ violations and destruction of artisanal fishing gears
- The use of undersized meshed nets by artisanal fishers
- Licensing of artisanal fishing crafts and attendant gears
- Indiscriminate dumping of wastes into the sea
- Myths and Culture



Thank You all for listening