

SUSTAINABLE FISHERIES **MANAGEMENT PROJECT (SFMP)**

Exchange Visit for Town and Country Planning Department Officers: Workshop Report



SEPTEMBER 2016









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Cover photo: Workshop in session (Credit: Hen Mpoano Photo)

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ACRONYMS

CR Central Region

CRC Coastal Resources Center EDC Environmental Data Center

EPA Environmental Protection Agency
GIS Geographic Information System

GoG Government of Ghana

ICFG Integrated Coastal and Fisheries Governance

ICM Integrated Coastal Management LAP Land Administrative Project

LOGODEPLocal Government Development ProjectMMDAsMetropolitan, Municipal Districts AssembliesNDPCNational Development Planning CommissionSFMPSustainable Fisheries Management ProgramTCPDTown and Country Planning Department

UCC University of Cape Coast
URI University of Rhode Island
UAV Unmanned Aerial Vehicle
USA United States of America

USAID United States Agency for International Development

VRA Volta River Authority WR Western Region

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INTRODUCTION

Since its inception two years ago, the Ghana-USAID Sustainable Fisheries Management Project (SFMP) has been working with Government of Ghana (GoG) to help save the near collapse status of the Ghanaian fishery by rebuilding marine fisheries stocks and increasing production through effective fisheries management strategies and adoption of responsible fishing practices. Working closely with the Town and Country Department (TCPD), the project intends to build the capacity of the department to promote geospatial applications for coastal planning.

The SFMP project is currently providing support to two regions- Western and Central as well as the National headquarters of the department. Comparatively, the Western region is ahead of the central region in terms of spatial planning due to a number of reasons, notable among them is the support received through development assistance initiatives such LAP, ICFG and LOGODEP. SFMP seeks to bridge this gap and provide platform planners from the 2 regions to share knowledge and good practices for coastal planning through learning and exchange visits.

To this end, in July, 2015 the project assembled Planning officers from the 2 regions to demonstrate the successes, experiences and challenges from the western regional GIS Data Hub. This year's Exchange Visit event was intended to illustrate tools and methodologies for coastal spatial planning and highlight the utility of spatial planning approaches for completing coastal climate vulnerability assessments and adaptation planning using examples from the Western region. Additionally, the event provided the opportunity to initiate preliminary discussions on the outline and content of an Integrated Coastal Management toolkit proposed for central region.

The event was well attended with participants from TCPD, UCC and Lands Commission. The one day workshop assembled 35 participants including Spatial Planners and Technical officers from all the Coastal MMDAs in the two regions; representatives from UCC and Lands Commission. The TCPD Directors of the two regions were both present at the workshop. The newly refurbished GIS Data Hub was the venue for the workshop.



Figure 1 Cross section of participants at the workshop

OVERVIEW OF SFMP AND PURPOSE OF THE EXCHANGE VISIT



Figure 2 Mensah explaining the purpose of the workshop

Justice introduced the Sustainable Fisheries Management Project to the participants. He indicated that the purpose of the SFMP is to save the near collapse status of the Ghanaian fishery by rebuilding marine fisheries stocks and increasing production through effective fisheries management strategies and adoption of responsible fishing practices.

Justice also hinted the need to address spatial planning in a typical fisheries management project. He explained that fisheries, though mostly water dependent, requires proximity to land for market, transportation and processing.

SUMMARY OF PRESENTATIONS

Presentations were delivered by Christopher Damon from the Environmental Data Center of the University of Rhode Island; Peter Owusu Donkoh from Spatial Solutions Ltd and Stephen Kankam from Hen Mpoano

Uav Technology for Coastal Planning

Christopher Damon, EDC, URI, Rhode Island

Chris Damon's presentation highlighted the results of a UAV pilot study that was conducted in the western and central regions in December, 2015, June, 2016 and September, 2016. He also threw light on some of the initial analysis and methodology that was employed to quantify vulnerability of some coastal communities. In his submission, Chris Damon provoked the Planning officers to critically think about building resilience of coastal communities as he presented some issues that emanated from the pilot studies.



Figure 3 Chris Damon facilitating a brainstorming session

Questions, Comments and suggestions

- There is the need for a holistic study through collaboration with other departments to help understand the landscape before planning is initiated.
- The overarching question planners should ask first is "How did we come this far?"
- As we anticipate excessive coastal erosion in the future resulting from Climate change, we should also check other stressors like sand winning.
- Is there any adaptation plan for the people of Shama and Anlo Beach relative to the spate of erosion of the sandbar?
- There is a resettlement plan for the people of Anlo Beach. However, individuals are required to acquire their own piece of land in the proposed site for development

- Developers should be required to provide engineering details that support any proposed infrastructural development before permits are issued
- The new Town and Planning Authority law will empower the authority to regulate development more effectively.
- UAV images could be used to support analysis and proposals to the government to solicit funds for some interventions.

Coastal Spatial Planning, Climate Vulnerability Assessment and Adaptation Planning

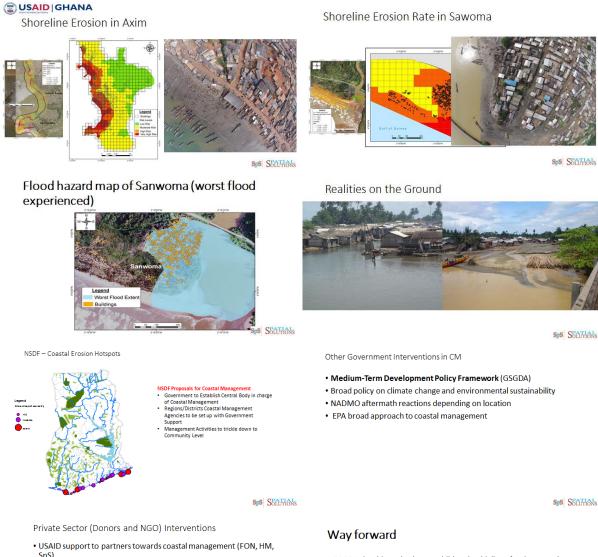
Peter Owusu-Donkoh, Spatial Solutions Ltd

Mr. Owusu Donkoh's presentation reviewed some of the coastal management plans that have been developed for the country or specific areas in the country. He indicated that the country has not yet developed a comprehensive coastal plan for the management of coastal resources. However, he indicated efforts of some districts in the western region like Shama and Ahanta West in developing typical coastal plans. He then reiterated the commitment of the SFMP project to support the region to develop an Integrated Coastal Management toolkit for the entire region.



Figure 4 Presentation on Climate Vulnerability Assessment and Adaptation Planning

Mr. Owusu Donkoh also gave some highlights of a coastal climate vulnerability assessments and adaptation planning study that was conducted in Axim and Sanwoma in the Western region



- Tullow Oil (Jubilee Partners) contribution towards preparation of spatial plans with emphasis on coastal manageme
- · GSGDA should emphasize on additional guidelines for the coastal
- TCPD should review the LAP 1 manual for preparation of spatial to include special additional requirements and emphasis on coastal
- Government should set up a national department solely responsible

Figure 5 Selected Slides from the presentation

Questions, Comments and suggestions

- Kwame Nkrumah introduced the coastal road which was supposed to check development along the beach frontage of communities.
- EPA has conducted an assessment of the entire coastline of the country
- Tangible and feasible proposals for the management of coastal fronts should be submitted to companies like the Jubilee partners, Mining companies, etc
- Government agencies like VRA should stop the 'lip service' and support the protection of wetlands.
- Some coastal issues cross district boundaries, hence the need for some joint area planning to manage some key resources.

Central Regional Toolkit: Lessons from Western Region

Stephen Kankam, Hen Mpoano

Stephen's task was to introduce the Integrated Coastal Management toolkit to the Planning officers from the central region. He provided a brief background of the ICM toolkits that were developed for five coastal districts in the western region under the Integrated Coastal Fisheries and Governance (ICFG) Initiative. Unfortunately, none of the officers from the western region for which the toolkit was developed had even seen the toolkit for their respective districts. Stephen attributed this anomaly to the non-participation of the planning officers in the document development process.



Figure 6 Stephen leading discussion on the ICM toolkit proposed for the Central region

Stephen stepped participants through the content and the general outline of the ICM toolkit and initiated a discussion on the outline of the proposed toolkit for the central region.

QUESTIONS, COMMENTS AND SUGGESTIONS

- The toolkit should be tailored to the needs of the Physical planners. The previous toolkits were designed with both Development and Physical Planners in mind, but the product has since not been used.
- The Central regional ICM toolkit could either adapt the NDPC outline or develop a customized outline, drawing inspiration from the new Land use Planning Law.
- The new Town and Country Planning Authority should be involved at every level of the toolkit development to encourage the mainstreaming of the document in planning the region
- Some technical details like the boundary of the coastal zone should be backed by literature or some planning regulations

• Implementation of the strategies in the toolkit may transcend district boundaries; hence a regional approach to such issues should be adopted.

BREAKOUT SESSION

After Stephen's presentation, participants were randomly divided into 2 groups to discuss the outline and content of ICM toolkit proposed for central region. The groups also discussed priority areas and data gaps that need to be filled prior to the toolkit development.



Figure 7 Pictures of the two groups in the breakout session

Each of the groups discussed and shared their responses to the following questions;

- a. What should the outline of the toolkit look like?
- b. What are the priority areas and issues in the region that the toolkit should address?
- c. Do you need additional data that will feed into the toolkit?

The responses from the two groups are displayed in the table below;

Table 1 Responses from the Two Groups

Questions	Group 1	Group 2
Toolkit outline	 Demographic Characteristics Socio-economic Characteristics Location of key infrastructure Extent of physical development 	 Introduction The District/Community profile Identification of issues Solution for issues

Questions	Group 1	Group 2		
Priority Areas	 Land Ownership Existing water bodies Major Tourism Sites Coastal land degradation Sanitation Elmina Iture Brenu-Akyinim Moree Ekon Saltpond Apam 	Areas of Interest		
Data Gaps	 High resolution imagery Environmentally sensitive areas Existing and proposed modes of transportation (rail, road,water) Data on sand winning activities Location of existing sanitary facilities 	 Population Land size Satellite images Base maps 		

NEXT STEPS

Planners in the central region will benefit from ongoing training in the application of GIS for coastal land use planning and management. This training will anchor the development of guidelines and regional tool kit for coastal planning and management in the coastal districts of the central region.

TRAINING PROGRAM

Exchange Visit for Western and Central TCPD

Date: September 22, 2016

Venue: Central Region GIS Data Hub, Cape Coast

Objectives

- To illustrate the utility of spatial planning approaches for completing coastal climate vulnerability assessments and adaptation planning using examples from the Western region of Ghana.
- To encourage peer to peer exchange of tools and methodologies for coastal spatial planning.
- To initiate preliminary discussions on the outline and content of a central region Integrated Coastal Management toolkit.

Session Plan

Table 2 Session Plan

8.30 - 9.00	Participant registration		
9.00 –9.30	Welcome and Purpose of the Exchange Visit		
9:30 -10.00	Presentation 1: Chris Damon		
	UAV technology for coastal planning		
10.00–10.30	Plenary Discussion		
10.30–11.00	Snack Break		
11.00–11.30	Presentation 2: Peter Owusu Donkor		
	Coastal spatial planning, climate vulnerability assessment and adaptation planning		
11.30–12.00	Plenary Discussion		
12:00 -1.00	Presentation 3: Stephen Kankam		
	Central Regional Toolkit: Lessons from Western Region		
1.00-1.30	Plenary Discussion		
1.30 - 2.15	Lunch Break		
2.15 – 3.00	Breakout Session		
3.00-3.30	Plenary Report back		
3.30	Adjourn		

GHANA SUSTAINABLE FISHERIES PROJECT-SpS PARTICIPANTS ROSTER INFORMATION

Required in English

Please Print

Title of Course: EXCHANGE VISIT FOR TOWN AND COUNTRY PLANNING

DEPARTMENT OFFICERS

Activity: WORKSHOP

Date: 22ND SEPTEMBER, 2016

Length of Course: Less than three days X Three days or

longer

First Name	Surname	Organization/Community	Sex	Do you wish to receive messages on SFMP
ELSIE	NAI	KEEA TCPD	f	Y
PATRICK	COBBINA	TCPD- EFFUTU MUNICIPAL	m	Y
RICHMOND	OBIRI	TCPD- AWDA	m	Y
PHILIP	ADJEI	GEDA	m	
NICHOLAS	PUJAS	EKUMFI TCPD	m	
SETH	ANKRAH	ABURA-DUNKWA TCPD	m	
AMA	FERKAH	WR- TCPD	f	Y
NANA EFUA	ACKAH	STMA TCPD	f	Y
CELESTINA	AMA BAIDEN	CR- TCPD	f	Y
EMMANUE L	ANSAH LARBI	TCDP	m	Y
ALEX	KWASI ASAMOAH	TCPD	m	Y
CUPID	OPOKU	TCPD	m	Y
EBENEZER	DADZIE- PANTSIL	WR-TCDP	m	Y

First Name	Surname	Organization/Community	Sex	Do you wish to receive messages on SFMP
FRANK	MARTEY KORLI	CR-TCDP	m	Y
COSMOS	APPIAH- AMPOSAH	CR-TCDP	m	Y
ISAAC	ADOAH	TCDP	m	Y
ANDREW	OHENE AGYEKUM	CR OFFICE TCDP	m	Y
SAAH YAW	MENSAH	TCPD	m	Y
STEPHEN	NANA YAW KAKRABA	ТСР	m	Y
BENEDICT A	NANA ANSAH	TCDP	m	Y
EBENEZER	OKRAH	TCP	m	
RAPHEAL	FIAVE	WR-TCPD	m	Y
JONES	RICHARD JOHN	TCPD	f	Y
OBED	AGYAPON G	GOMOA EAST	m	Y
ENOCH	TEYE	EKUMFI TCPD	m	Y
JUSTICE	NANA INKOOM	WASCAL	m	Y
GLORIA	YUKI	UCC	f	Y
ANTHONY	OSEI- MENSAH	TCDP	m	Y
ALEXANDE R	ADJEI	RD	m	
ISAAC	ABBAN	TCPD	m	
ISAAC	AFFUM	TCPD	m	Y
NANA	KUSI NSIAH	TCPD	m	Y
CHRISTIAN	OWUSU	LC/SMD	m	Y
FRANK	YARTEL	TCPD	m	Y
EMMANUE L	MENSAH	UCC	m	Y