FOOD AND AGRICULTURE POLICY AND STRATEGY

“FROM SUBSISTENCE TO SUFFICIENCY”
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Foreword

As Liberia undertakes the huge task of post-conflict reconstruction, poverty reduction continues to be our national strategy. It is enabling us to consolidate our hard won peace, revitalize our economy, and steer us into sustainable human development. My government has placed these national hopes and aspirations into our comprehensive “Lift Liberia” Poverty Reduction Strategy document. We are currently engaged in conversations with our people across the country to energize them into implementation of the plan. We are also engaging our development partners and friends in the international community to solicit their continued financial and technical support.

Agriculture is a primary entry point in our Poverty Reduction Strategy. The sector remains the most viable, sustainable and renewable source of national income. The agricultural sector is strategic: approximately 70% of our people depend on it for their livelihood; it is a significant net contributor to the economy because it exports more and imports less; and it contributes significantly to employment and foreign exchange earnings. Regrettably, protracted conflicts, structural constraints and poor policies of the past decimated a sector that is now rebounding but remains challenged by the need to mobilize private sector investments to improve the value chain from land and water management to market access.

This Food and Agriculture Policy and Strategy document (FAPS) is the roadmap for rehabilitating the sector within the overall framework of the Poverty Reduction Strategy. I am gratified that the plan accentuates attracting private capital, diversifying production, and modernizing technologies, especially those used by smallholder farming families many of which are headed by women. These, I believe, are the bedrocks for transforming our agriculture from “Subsistence to Sufficiency”.

I thank the Ministry of Agriculture and all stakeholders of the food and agriculture sector who contributed to the production of these policies and strategies. This compilation is truly historic for the sector; being the first time a comprehensive policy and strategy document has been prepared, validated and published.

I call on all Liberians, our partners in the international community and all others to join us in implementing these policies and strategies. We are a resilient people: with sustainable peace and good governance, we shall strive to make the transition from “Subsistence to Sufficiency” in the food and agriculture value chains by 2015 and make substantial progress in meeting our millennium development goal of halving the proportion of our people who suffer from hunger.

Ellen Johnson Sirleaf
President
Republic of Liberia
Preface

Liberia’s agricultural sector manifests low productivity and minimal competitiveness. This has been brought to the fore in recent times by protracted conflicts that displaced farming communities, degraded transport and processing facilities, and diminished productive capacities. Prior to the conflicts, the sector also suffered from structural constraints and poor policies. The combined impact of these challenges has left the majority (70%) of our people who depend on agriculture for their livelihoods impoverished.

Agriculture is allied to many other sectors. It has been useful in resettling displaced farming families through the provision of agricultural resettlement packages, including planting materials and tools to returnee rural households. It has contributed to the reintegration of former combatants, most of whom lack life skills, into their communities of origin through wage employment opportunities. Food-for-work programs have increased school enrollments and persistence and they continue to provide opportunities for employment of thousands of youths. Agriculture is in the forefront of the struggle for health, particularly maternal health and the fight to reduce child mortality, and is also associated with efforts to improve education, natural resource management, rural development, and the environment. Consequently, coordination between agriculture and other sectors needs to be strengthened to the mutual benefit of all sectors, and eventually, towards attaining national economic recovery, growth, and development.

The Food and Agriculture Policy and strategy (FAPS) document seeks to address the plethora of problems that have historically bedeviled agriculture and its linkages to other sectors in a coherent, consistent and forward-looking manner. It is informed by extensive research and consultations, including international best practices. The document presents a pro-poor, pro-growth framework to transform the sector from the perennial state of subsistence to one of sufficiency, hence the theme: “From Subsistence to Sufficiency”. The ultimate goal is long-term sustainability both in food self-sufficiency and competitiveness in agricultural export commodities. This must be driven by increased levels of private capital investments in the sector, particularly in the value chains such as processing, storage and marketing.

I believe that the transformation required in the food and agriculture sector to maximize its contribution to economic growth and poverty reduction can be realized only by making progress toward the following three (3) fundamental orientations as articulated in the FAPS:

- **Improving national food and nutrition security:** by increasing food availability and adequacy from self-reliance production; making food accessible to the population; promoting best practices in food utilization and improved nutrition; contributing to resettlement and reintegration programs; and supporting rural employment and self-reliant wage work to spur local economic development;

- **Enhancing agricultural productivity, competitiveness, and linkages to markets:** by strengthening efficiency, encouraging innovation, fostering sustainability and leveraging opportunities in national and external markets; broadening and deepening private sector participation; increasing public investments mainly in rural infrastructure and creating an enabling macroeconomic environment; and
• **Strengthening human and institutional capacities:** by institutionalizing improved governance; reframing civil society organizations; encouraging demand-driven service delivery; establishing effective and efficient public sector frameworks in agricultural planning, coordination, monitoring and evaluation; reducing risks and improving coping mechanisms; mainstreaming gender and youth in agriculture and rural development; and ensuring sustainable use of natural resources.

We remain cognizant of the need to achieve the food and agriculture sector’s priority interventions in the 2008-2011 lift Liberia Poverty Reduction Strategy, we must be resolute in ensuring that these and other actions result in self sufficiency in our national staple of rice and cassava by 2015.

I express my profound thanks and appreciation to all stakeholders who participated in the demanding and meticulous processes that resulted in the development of the FAPS. I also express my profound thanks and appreciation to all of our stakeholders: public sector institutions, the private sector, civil society institutions, and non-governmental organizations. My heartfelt appreciation goes to our development partners, particularly the Food and Agriculture Organization (FAO), World Bank, International Fund for Agricultural Development (IFAD) and the World Food Program (WFP).

I invite all of our friends and Partners to join the Ministry of Agriculture and the Government and people of Liberia in a focused implementation of this Food and Agriculture Policy and Strategy. Working together, we can transition from "**Subsistence to Sufficiency**" in food production within five years and sustain our regained competitiveness in agricultural exports

J. Chris Toe  
Minister  
Ministry of Agriculture
Acknowledgements

The development of this Food and Agriculture Policy and Strategy (FAPS) has been challenging. All stakeholders contributed, in various participatory ways, to the conceptualization, design, and execution of the research, consultations and vetting processes that facilitated its actualization. The Ministry of Agriculture is most grateful to all stakeholder institutions for the diverse contributions to the realization of this document.

Particularly, the Ministry, with deepest appreciation, acknowledges the technical and financial contributions of its development partners and friends, particularly the:

- Food and Agriculture Organization (FAO);
- World Bank (WB);
- World Food Program (WFP); and
- International Fund for Agricultural Development (IFAD)

The Ministry is also grateful to all those who participated in the regional consultations and the validation of the FAPS and appreciates and thanks the Technical Team, along with the various support staff, for facilitating and coordinating the development of this seminal document.
ACRONYMS AND ABBREVIATIONS

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<th>Acronym</th>
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<tr>
<td>ACDB</td>
<td>Agricultural Cooperative Development Bank</td>
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<td>ADB</td>
<td>African Development Bank</td>
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<td>AEPCRB</td>
<td>Agricultural Export Promotion and Commodity Regulatory Board</td>
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<td>ADPs</td>
<td>Agriculture Development Projects</td>
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<td>ARI</td>
<td>African Rice Initiative</td>
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<td>ASC</td>
<td>Agriculture Steering Committee</td>
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<td>CAADP</td>
<td>Comprehensive African Agriculture Development Program</td>
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<td>CAAS-Lib</td>
<td>Comprehensive Assessment of the Agricultural Sector of Liberia</td>
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<td>CARI</td>
<td>Central Agriculture Research Institute</td>
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<td>CBOS</td>
<td>Community Based Organizations</td>
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<td>CCRF</td>
<td>Conduct for Responsible Fisheries</td>
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<td>CDA</td>
<td>Cooperative Development Agency</td>
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<td>CFC</td>
<td>Community Fisheries Centers</td>
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<td>CFSNS</td>
<td>Comprehensive Food Security and Nutrition Survey</td>
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<td>CGIAR</td>
<td>Consultative Group on International Agricultural Research</td>
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<td>CORAF</td>
<td>Council for Agricultural Research and Development</td>
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<td>CSOs</td>
<td>Civil Society Organizations</td>
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<td>DOPC</td>
<td>Decoris Oil Palm Company</td>
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<tr>
<td>EBA</td>
<td>Every thing But Arms</td>
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<tr>
<td>ECA</td>
<td>Economic Commission for Africa</td>
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<td>ECOWA</td>
<td>Economic Community of West African States</td>
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<td>ECOWAP</td>
<td>ECOWAS Common Agriculture Policy</td>
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<td>EEZ</td>
<td>Exclusive Economic Zone</td>
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<td>AGOA</td>
<td>African Growth and Opportunities Act</td>
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<td>EIA</td>
<td>Environmental Impact Assessment</td>
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<td>EWS</td>
<td>Early Warning Systems</td>
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<td>FARA</td>
<td>Forum for Agricultural Research in Africa</td>
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<td>FAO</td>
<td>Food and Agriculture Organization</td>
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<td>FAPS</td>
<td>Food and Agriculture Policy and Strategy</td>
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<td>FBO</td>
<td>Farmer-Based Organization</td>
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<td>FCDB</td>
<td>Farmers’ and Cooperative Development Bank</td>
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<td>Forestry Development Authority</td>
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<td>FFS</td>
<td>Farmer Field Schools</td>
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<td>FM</td>
<td>Frequency modulation</td>
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<td>FIVIMS</td>
<td>Food insecurity and vulnerability information mapping system</td>
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<td>GDP</td>
<td>Gross Domestic Product</td>
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<td>GOL</td>
<td>Government of Liberia</td>
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<td>HACCP</td>
<td>Hazard Analysis Critical Control Point</td>
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<td>HIV/AIDS</td>
<td>Human Immune Virus/Acquired Immune Deficiency Syndrome</td>
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<td>HYVs</td>
<td>High Yielding Varieties</td>
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<td>ICC</td>
<td>Implementation Coordination Committee</td>
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<td>ICT</td>
<td>Information Communication Technology</td>
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<td>IFC</td>
<td>International Finance Corporation</td>
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<td>IDPS</td>
<td>Internally Displaced Persons</td>
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<td>IFAD</td>
<td>International Fund for Agricultural Development</td>
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<td>INGOs</td>
<td>International Non-Governmental Organizations</td>
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<td>Acronym</td>
<td>Full Form</td>
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<tr>
<td>IPDM</td>
<td>Integrated Pest and Disease Management</td>
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<td>IPRS</td>
<td>Interim Poverty Reduction Strategy</td>
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<td>ISMOR</td>
<td>Integrated and Sustainable Modernization of Rice</td>
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<td>IITA</td>
<td>International Institute of Tropical Agriculture</td>
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<td>ITK</td>
<td>Indigenous traditional knowledge</td>
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<td>IUU</td>
<td>Illegal Unreported and Unregulated</td>
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<td>LCCC</td>
<td>Liberia Cocoa and Coffee Cooperation</td>
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<td>LCUNA</td>
<td>Liberia Credit Union National Association</td>
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<td>LINNK</td>
<td>Liberia National NGO Network</td>
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<td>LMA</td>
<td>Liberia Marketing Association</td>
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<td>LPMC</td>
<td>Liberia Produce Marketing Cooperation</td>
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<td>LPCC</td>
<td>Liberia Palm Produce Cooperation</td>
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<td>LRRI</td>
<td>Liberia Rubber Research Institute</td>
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<tr>
<td>LRDA</td>
<td>Liberia Rubber Development Authority</td>
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<td>M &amp; E</td>
<td>Monitoring and Evaluation</td>
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<td>MFI</td>
<td>Micro-finance Institutions</td>
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<td>MDGs</td>
<td>Millennium Development Goals</td>
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<td>MHSW</td>
<td>Ministry of Health and Social Welfare</td>
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<td>MOA</td>
<td>Ministry of Agriculture</td>
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<td>MOGD</td>
<td>Ministry of Gender and Development</td>
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<td>NARC</td>
<td>National Agricultural Research Council</td>
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<td>NARS</td>
<td>National Agricultural Research System</td>
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<td>National Agriculture Extension Project</td>
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<td>NERICA</td>
<td>New Rice for Africa</td>
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<td>New Partnership for Africa’s Development</td>
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<td>NGOS</td>
<td>Non Governmental Organizations</td>
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<td>NPC</td>
<td>National Palm Corporation</td>
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<td>NWRS</td>
<td>National Water Resource Strategy</td>
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<td>OPEC</td>
<td>Organization of Petroleum Exporting Countries</td>
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<td>OXFAM</td>
<td>Oxford Committee for Famine Relief</td>
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<td>PMSP</td>
<td>Planting Materials Supply Program</td>
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<td>Poverty Reduction Strategy</td>
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<td>R&amp;D</td>
<td>Research and Development</td>
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<td>RAS</td>
<td>Rubber Advisory Service</td>
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<td>RDF</td>
<td>Rubber Development Fund</td>
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<td>UN</td>
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<td>US</td>
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<td>Technical Advisory Committee</td>
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<td>WATSAN</td>
<td>Water and Sanitation</td>
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<td>WARDA</td>
<td>West Africa Rice Development Agency</td>
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EXECUTIVE SUMMARY

Context and sector overview

Liberia is at peace after 14 years of civil war ended in 2003. The Government is taking actions to rebuild the shattered economy, consolidate peace, ensure security and improve the livelihoods of the estimated 3.5 million inhabitants (2008 Census). A Poverty Reduction Strategy (PRS) has been developed and launched. The PRS sets out a framework for rapid, equitable, and inclusive growth, poverty reduction and progress towards achieving the millennium Development Goals (MDGs).

The PRS recognizes the role and contributions to be made by the agriculture sector towards poverty reduction: it accounts for employment of nearly 70% of the economically active population, and since 2003 over 90% of total export earnings. It has also made significant contributions to the gross domestic production (GDP) during and after the war. The value chains of the sector’s commodities possess tremendous potential for improved access to food, remunerative employment, and sustainable livelihoods of the rural people.

Liberia’s agriculture sector is forest based, dominated by traditional subsistence farming systems mainly in the uplands, and characterized by labor intensity, shifting cultivation, low technologies and productivity. Although rice, cassava and vegetables production accounts for about 87% of cultivated land, the output of the staple foods remains below national requirements. Small acreages of tree crops are maintained for generating cash income. Commercial agricultural activities are almost exclusively plantation estates of rubber, oil palm, coffee and cocoa; the latter two are produced exclusively for export, and little or no value is added to rubber and oil palm. Besides the plantation estates, very little private sector investment has been made in the agriculture sector, except for limited commodity trading which has persisted over the years.

The livestock sub sector has been decimated as a result of the civil conflict, and current livestock population is below 10% of national consumption requirements. The fisheries sub sector is under-developed with only about 6.8% of sustainable yield harvested annually. Land and water resources are abundant and they offer potential for significant expansion of agriculture production. An estimated 600,000 hectares of land for irrigation exist, with less than 1% of it developed.
Key Challenges

The sector is confronted with several constraints that are mainly structural: low capacities of farmers and institutions, and decimated infrastructures. The key challenges are as follows:

- Increasing productivity and incomes of Liberia’s subsistence farmers, by transforming them into commercial farmers through the adoption of new techniques and technologies, improving access to seeds, fertilizers, and other inputs, diversifying their enterprises and strengthening linkages to output markets;
- Restoring value chains and increasing community and private sector participation in supply and value chains;
- Ensuring access, both physically and economically, of the population to nutritious food, by rebuilding farm-to-market roads and enhancing incomes generation;
- Reforming the MOA and building its capacity for effective and efficient performance of its functions, particularly in the areas of policy and planning, coordination and regulation, and resource mobilization and leadership.
- Strengthening key agricultural institutions that were damaged or destroyed during the civil conflict;
- Slowing the extent of illegal fishing, increasing the value added from catches and maximizing sustainable yield;
- Enhancing the enabling environment for agriculture sector growth and development including increased private sector investment with interventions such as land reforms that will allow for longer term planning, and stable, sustained engagement in the sector;
- Slowing deforestation, slash-and-burn cultivation, and tree cutting for firewood and charcoal, which degrade habitats and deplete natural resources;
- Providing greater opportunities for women and youth in agriculture, especially the formal sector; and
- Responding to the impact of the world food crises on Liberia, including providing food assistance to vulnerable households, and increasing domestic food production and cushioning the effects of the global financial crises on agricultural exports by adopting appropriate macroeconomic stances.
Vision and Objectives

National Vision

A nation that is peaceful, secured and prosperous, with democratic and accountable governance based on the rule of law, and abundant economic opportunities for all Liberians (PRS 2008 derivative).

FAPS Objectives

A revitalized and modernized food and agriculture sector that is contributing to shared, inclusive and sustainable economic growth and development of Liberia by

- Making safe and nutritious foods available in sufficient quantity and quality at all times to satisfy the nutritional needs of all Liberians;
- Ensuring inclusive and pro-poor growth in agricultural production, productivity, competitiveness, value addition and diversification, and linkages to markets; and
- Building effective and efficient human and institutional capacities of stakeholders to plan, deliver services, invest, and monitor activities, while concurrently sustaining natural resources, mitigating risks to producers and mainstreaming gender and youth considerations.

Sector Policies and strategies

Policy 1: Improved Food and Nutrition Security: Safe and nutritious foods are available in sufficient quantity and quality at all times to satisfy the nutritional needs of all Liberians.

Strategies

- Improving food availability;
- Enhancing accessibility of the population to nutritious food;
- Promoting improved food utilization;
- Contributing to resettlement and reintegration programs; and
- Supporting rural employment and self-reliant wage work to spur local economic development.

Policy 2: Enhanced Competitiveness and Linkages to Markets: Enhanced, inclusive and pro-poor growth in agricultural production, productivity, competitiveness, value addition, diversification and linkages to markets.

Strategies

- Improving the efficiency, competitiveness and sustainability of food and agriculture supply chains, particularly those of small holders, and linking these chains to markets;
• Creating more and better opportunities for much greater involvement of the private sector in agriculture; and

• Increasing public investments and creating an enabling environment for agricultural and agribusiness development.

**Policy 3: Strengthened Human and Institutional Capacities:** Strong and efficient human and institutional capacities in the public sector, civil society organizations and the private sector to carry out effective planning, delivery of services, coordination and monitoring activities in the sector, as well as sustain natural resources, mitigate risks to producers, and mainstream gender and youth considerations in planning and implementation of activities in the sector.

**Strategies**

• Instituting improved governance, promoting civil society organizations, and facilitating decentralized and demand-driven service delivery;

• Establishing functional, effective and efficient public sector support framework in agriculture for planning, coordinating, service delivery, monitoring and evaluation;

• Reducing risks and improving coping mechanisms;

• Mainstreaming gender and youth in agriculture and rural development; and

• Ensuring sustainable use of natural resources.

**Other Key Policies and Strategies**

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<tr>
<th>ACTION AREA</th>
<th>KEY POLICY</th>
<th>MAIN STRATEGY</th>
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<tbody>
<tr>
<td>Food Crops</td>
<td>Sustainable self-sufficiency in rice through small holdings, large scale food production and transitional mechanized cultivation</td>
<td>Participatory design and implementation of an Integrated and Sustainable Modernization of Rice (ISMOR) program under the framework of a national rice development strategy.</td>
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<td>Tree Crops</td>
<td>Increased production and productivity of Rubber, Oil Palm, Cocoa and Coffee; competitiveness of small holders</td>
<td>Creating linkages between out-growers and processors; improving land utilization and provision of essential inputs; providing adequate investment incentives</td>
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<td>Livestock</td>
<td>Restocking, focusing on small ruminants short-cycled animals; reduced production costs</td>
<td>Revitalizing the value chains in livestock production</td>
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<tr>
<td>ACTION AREA</td>
<td>KEY POLICY</td>
<td>MAIN STRATEGY</td>
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<td>Fisheries</td>
<td>Sustainable availability and accessibility of fish, particularly from increased artisanal output</td>
<td>Building and rehabilitating infrastructures for fisheries; enforcing industrial fishing regulations; developing a fisheries’ plan and building human capacities; entering external markets</td>
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<tr>
<td>Forestry</td>
<td>Ensure sustainability of Liberia’s forestry resources.</td>
<td>Balancing conservation, community and commercial utilization of forest resources; undertaking environmental impact assessment, and designing and implementing environmentally sound plans in agriculture projects.</td>
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<td>Extension services</td>
<td>Decentralized, demand-driven extension services targeting small holders and focusing on food security</td>
<td>Participatory design and implementation of a National Agricultural Extension Project inclusive of Operation Eliminate Hunger (OpEH)</td>
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<td>Agricultural Education</td>
<td>Continuous production of quality manpower in agriculture and extension services personnel</td>
<td>Partnership with universities and colleges and implementing special training programs in agriculture.</td>
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<tr>
<td>Agricultural Research</td>
<td>Revitalized research system integrated with extension services and linked to private sector</td>
<td>Establishing a National Agricultural Innovation System; a National Agricultural Research strategy and rehabilitating CARI.</td>
</tr>
<tr>
<td>Planting Materials and Agro-chemicals</td>
<td>Small holders have access to adequate, affordable and quality planting materials fertilizers and pest management inputs</td>
<td>Design and implement a Planting Materials Supply Program and improve Crop protection knowledge and skills (Designing an IPDM strategy)</td>
</tr>
<tr>
<td>Pest/Disease Management</td>
<td>Integrated pest and disease management applied widely by farming communities and monitored utilization of agro-chemicals</td>
<td>Establishing a Plant Protection and Regulatory service Bureau at the MOA that is integrated with the extension system using Farmers’ Field Schools’ Approach in applying IPDM to farming.</td>
</tr>
<tr>
<td>Agricultural Mechanization</td>
<td>Adopted cost-recovery utilization of small-medium scale mechanization technologies</td>
<td>Establishing within the MOA an Agricultural Engineering Unit and mechanization services provision centers in strategic areas around the country</td>
</tr>
<tr>
<td>Financial Services</td>
<td>Widespread access to financial services by farmers, especially small holders</td>
<td>Encouraging commercial banks to play greater role in sector; strengthening and expanding rural banks, micro-finance institutions, and promoting linkages between formal and informal financial services</td>
</tr>
<tr>
<td>Agricultural Markets</td>
<td>Small holders having access to markets; agribusinesses increased and strengthened, particularly for small producers</td>
<td>Establishing agricultural Market Information Services; rehabilitating markets; constructing storage and processing facilities; building capacities of marketing bodies; meeting requirements to enter external markets</td>
</tr>
<tr>
<td>ACTION AREA</td>
<td>KEY POLICY</td>
<td>MAIN STRATEGY</td>
</tr>
<tr>
<td>-----------------------------------</td>
<td>---------------------------------------------------------------------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Rural infrastructures and processing</td>
<td>Investments in rehabilitation of roads, market buildings, storages facilities</td>
<td>Mobilizing resources from partners (government, private sector, donors) to provide the needed infrastructures; coordinating government outlay to facilitate synergy; encouraging local fabrication of processing equipment.</td>
</tr>
<tr>
<td>Food Safety</td>
<td>Wide awareness of link between food and health; widespread compliance to food safety and quality control measures</td>
<td>Strengthen institutional capacities of MOA and relevant agencies such as MOHSW and MCI to regulate food safety and quality.</td>
</tr>
<tr>
<td>Macroeconomic environment</td>
<td>Macroeconomic policy environment supportive of pro-poor and pro-growth policies</td>
<td>Allocating at least 10% of budget to agriculture; investing in infrastructure, education and health; providing fiscal incentives; access to credit and markets.</td>
</tr>
<tr>
<td>Land Tenure System</td>
<td>Access to land, tenure security, and sustainable land use</td>
<td>Supporting activities of Land Commission; discouraging land holdings for speculative purposes; promoting alternative to land redistribution such as out grower schemes.</td>
</tr>
<tr>
<td>Water Resources Development</td>
<td>Effective and efficient management of water resources for agriculture and other purposes</td>
<td>Establishing a Unit of MOA and building human and physical resources for water resources development; supporting and development and implementation of a national water policy.</td>
</tr>
<tr>
<td>Agriculture and Environment</td>
<td>Mainstreamed environmental considerations in agricultural programs</td>
<td>Establishing an Environmental Unit in MOA and strengthening collaboration with the EPA including monitoring of activities in agricultural sector.</td>
</tr>
<tr>
<td>Natural Resource Management</td>
<td>Effective transition from shifting cultivation to sedentary farming</td>
<td>Providing technical support and best practices for sustainable land use, organic and integrated farming; participatory management of forest resources.</td>
</tr>
<tr>
<td>Climate Change</td>
<td>Monitored sector activities to prevent contribution to climate change; reduced impact of climate change in sector</td>
<td>Providing farmers information on climate change; implementing programs on climate change adaptation including incentives.</td>
</tr>
<tr>
<td>Gender</td>
<td>Empower agricultural women through access to credit, technology and markets</td>
<td>Strengthening MGD and MOA to mainstream gender issues in rural development and implementing a Rural Women Empowerment Program.</td>
</tr>
<tr>
<td>Youth</td>
<td>Increase growth in youth involvement in agriculture</td>
<td>Developing and implementing a Youth-in-Agriculture Program.</td>
</tr>
<tr>
<td>Vulnerable groups</td>
<td>Provide food and nutrition security for vulnerable groups</td>
<td>Designing and implementing programs that provide safety nets.</td>
</tr>
</tbody>
</table>
Coordination With Other Sectors
Agricultural productivity and competitiveness are linked to the effectiveness of other sectors of the economy. Seven key sectors have been identified for close coordination in pursuit of the vision and goals of this policy and strategy. Coordination will take the forms of experience and information sharing, consultations and collaboration with the relevant public and private institutions in mutually beneficial areas as follows:

**Commerce and Industry:** enhancing pro-poor and pro-growth policies, trade competitiveness, regulation of quality and safety of agricultural commodities and goods, promotion and expansion of Liberian businesses;

**Transport:** improving rural roads networks; expanding trucking capacity and port facilities for the effective transportation and handling of agricultural commodities; joint planning of transport and agricultural sector interventions.

**Information and Communication:** expansion of information and telecommunications technologies to key agricultural areas and increasing farmers’ access to these resources, especially small holders;

**Energy:** ensuring the availability and affordability of power in agricultural communities for production and post production purposes;

**Health:** prioritizing agricultural production areas in the rehabilitation of public health services, and collaborating in nutrition programs.

**Education:** promoting basic and functional literacy, especially for women; positioning youths to take advantage of farming opportunities; supporting school feeding programs with locally produced foods, and encouraging school gardening to expand food production and markets; developing and teaching agricultural curriculum at secondary school level.

**Public Security:** collaborating with public safety institutions at national and sub-national levels to ensure the rule of law, peace and tranquility, and social harmony in local communities across the country.

**Implementation framework**

**At Sector Level**

- **An inter-ministerial body,** the Food Security and Nutrition Technical Committee has been established. It will provide overall policy direction and guidance for implementing the policy and strategy. The FSNTC is chaired by the Minister of Agriculture.

- **An Agricultural Coordination Committee (ACC)** comprising technical representatives of stakeholder institutions is also established. It will provide technical inputs relative to coordination, implementation, monitoring and evaluation of the availability component of the National Food Security and Nutritional Strategy.
At the Decentralized level

- **At the County level**, County Development Steering Committees coordinate inputs from the County to the development of Annual Plans prepared by MOA, and monitor their implementation in towns and other local communities. Under these steering committees are four working committees one of which is the **Economic Revitalization** chaired by the MOA County Agricultural Coordinator;

- **At sub-county levels**, districts, towns and local communities will be assisted through their decentralized structures to organize to provide inputs in annual plans and implement the policy and strategy;
Chapter 1

CONTEXT AND IMPERATIVES

1.1 Context

1.1.1 National Context

Fourteen years of civil war, which ended in 2003, seriously disrupted the Liberian economy, leading to an overall impoverishment of the country. An estimated 1.7 million Liberians are living in poverty, and of these, about 1.3 million people (48 percent) are living in extreme poverty. Poverty is higher in rural areas, where about three-quarters (73 percent) of the population is poor.

Additionally, approximately 100,000 people are still internally displaced, with a similar number living as refugees in neighboring countries. Over 50,000 individuals, classified as ex-combatants, have yet to be successfully reintegrated in communities in order to sustain the current peace and stability.

Since the cessation of hostilities in 2003, the country has been at peace. Post conflict free and fair elections in 2005 led to the installation of the current administration in January 2006. Under the leadership of President Ellen Johnson Sirleaf, the Government of Liberia has been rebuilding a shattered economy, restoring peace and security, and improving the livelihoods of the estimated 3.5 million inhabitants (2008 Census). An interim Poverty Reduction Strategy (iPRS) was formulated as the start of a consolidated approach in this regard. The strategy was aimed at enhancing national security and consolidating peace, revitalizing economic growth, strengthening governance and rule of law and rebuilding destroyed or damaged infrastructure.

The iPRS was followed by a full Poverty Reduction Strategy (PRS) for the period April 2008 to June 2011, devising a roadmap for rapid, equitable, and inclusive growth and poverty reduction, including progress towards achieving the Millennium Development Goals (MDGs). Both of these processes recognized the significant role and contributions of the agricultural sector to achieving the country’s transition from emergency and rehabilitation on to economic growth and development.

In October 2006, the Ministry of Agriculture issued a Statement of Policy Intent for the Agriculture Sector, identifying the strategy of the sector to support national transition efforts and to lay the foundation for achieving longer term goals of self-sufficiency and competitiveness in food production, expansion of cash crop production, increased employment and incomes, and diversification of the production base.

Eighty-one percent (81%) of the population is either highly vulnerable or moderately vulnerable to food insecurity, over a third of Liberian children are stunted, and almost 20 percent are underweight.
A Comprehensive Assessment of the Agriculture Sector of Liberia (CAAS-Lib) was subsequently carried out by the Government (2006/7) with support from the Food and Agricultural Organization (FAO), World Bank and the International Fund for Agricultural Development (IFAD). The study essentially identified the strengths; weaknesses, opportunities and threats (SWOT) of the sector. The results of the analysis then informed determination of the nature and scope of actions to be taken to make the sector effective in the country’s reconstruction and development program.

A National Validation Workshop of the CAAS-Lib confirmed, as a priority for the sector, the need and urgency to prepare a Comprehensive Food and Agricultural Policy and strategy, an Action Plan and an Investment Program with the direct involvement of all stakeholders. These instruments would be used to mobilize and direct appropriate resources to the rehabilitation and development of the sector.

1.1.2 International Context

A number of initiatives and policy processes have evolved from regional and global meetings in the past 10-15 years that will have implications for Liberia’s First Food and Agriculture Policy and Strategy (FAPS), especially since these have focused on the urgency to enhance agricultural growth in developing countries, particularly those in Africa south of the Sahara. Declarations from these meetings have identified food security as one of the underlying and cross-cutting issues that require concerted actions in order to ensure the sustainable reduction of absolute poverty in these countries.

Regional Meetings and the major contributions of each include:

- Maputo Summit of July 2003 adopted the CAADP and declared 10% budgetary allocation to Agriculture;
- The Libya Summit of 2004 discussed the challenges of implementing integrated and sustainable development on agriculture and water in Africa;
- Vision 2020 Summit in Kampala Uganda in April 2004 deliberated on food security and nutrition;
- Fertilizer Summit held in Abuja, Nigeria in May 2006;
- The Africa Food Security Summit in Abuja, Nigeria December 2006 renewed the commitment of Heads of States and Governments in the region to eradicate hunger by 2030;
- The Economic Commission for Africa (ECA) on 4 July 2007 also called for an African Green Revolution; and
- The ECOWAS Authority of Heads of States endorsed a Common Agriculture Policy for the Community (ECOWAP).
Progressive in agriculture as a result of these and other opportunities, would be welcomed in external markets. The Everything but Arms (EBA) and the African Growth and Opportunities Act (AGOA) provide trade preferences for quota- and duty-free entry into the European Union (EU) and United States (US) markets, respectively. Agricultural products are among the main promising areas to benefit from AGOA, which provides trade and technical assistance packages.

Of recent, there has been an international increase in the price of food in the world. This situation has been engendered by the rising cost of production on account of the rising cost of energy. This, in turn, has been occasioned by increase in the prices of oil on the world market. The impact of this development has been felt all around the world. But it has been worse for most developing countries like Liberia. It has aggravated an already extreme poverty situation and increased the challenges the government is overcoming. The Government has been responsive to this global development.

A May 2008 Mano River Union Heads of State and Government and Agriculture Ministers meeting identified food security as critical to sub-regional peace and security. At the June 2008 Berlin Partners Forum and the World Food Summit that same month; the Government also presented its approach to meeting this challenge.

Key elements of the Government’s strategic response have included the following:

- The US$2.10 consumer tax on a 100 pound of bag of rice was suspended;
- Tariffs on agricultural equipment, materials and supplies were removed initially through the end of 2008 and extended for an additional year;
- Commercial supplies of rice for at least one year was sourced;
- US$ 250, 000 from the rice stabilization fund of the Government was made available to the Ministry of Agriculture to purchase and distribute seed rice to farmers;
- Feeding and other programs to ensure access to food by vulnerable households such as school children are being implemented; and
- The fiscal year 2007/2008 budget for the Ministry of Agriculture was almost doubled to facilitate acceleration of poverty reduction strategy—related food and agriculture priority interventions.

1.1.3 FAPS Development Process

The development of this policy and strategic document was highly participatory and purposefully inclusive of all stakeholders: (e. the public sector, private sector, civil society organizations, and development partners) and it unfolded as follows:

- A comprehensive assessment of the agriculture sector was undertaken;
• Three regional validation workshops vetted outcomes of the above assessment, with each workshop organized around five thematic issues;

• Extensive consultations were held with stakeholders to zero-in on priority areas, take into account Liberia’s comparative advantages (rubber, lowland rice production) and review best practices in the West African sub-region;

• A three-3 day National Consultative Workshop was held in Monrovia involving stakeholders such as farmer groups to vet the draft FAPS;

• The draft FAPS was finalized by incorporating inputs from the validation workshop and other comments into the final document; and

• The final document was presented to the President and Cabinet for adoption by the Government of Liberia.

Given the above processes, this policy and strategy document represents the collective thinking of all stakeholders and is a resourceful framework for rehabilitating and developing the sector into a vibrant vehicle for national reconstruction and poverty reduction.

1.1.4 Purpose of the FAPS

This comprehensive Food and Agriculture Policy and Strategy (FAPS) has been developed within the context of the Government of Liberia’s framework for economic recovery and growth, the Lift Liberia Poverty Reduction Strategy (PRS) and the United Nations Millennium Development Goals (MDGs), especially the halving of hunger by 2015.

The document establishes a framework comprising specific policies and strategies at Sector and Sub Sector levels that aim to revitalize and strengthen the agriculture sector and enable it to maximize its contribution to the government’s overall development goals. Specifically, the document accentuates pro-poor policies and strategies that will harness and utilize the potentials of the large numbers of smallholders in the sector.

1.2 Food and Agriculture Sector

1.2.1 Importance of Agriculture

The agriculture sector has over the years, and increasingly during the recent past, significantly contributed to the Liberian economy. The contribution of agriculture (including fisheries) to GDP was around 10 percent in the late 1970s. During the war years, the sector provided the mainstay of the economy and the only meaningful source of livelihood to a large segment of the population, including the displaced and conflict affected. In the period immediately following the end of the war, the sector contributed over half of the country’s GDP (about fifty two percent by 2005), as other economic sectors such as mining, manufacturing and services had declined during the years of conflict.

Agriculture related imported products, of which food and life animals account for over a third amounted to well over half (50%) of total imports in the post war period, second only to petroleum products.
The agriculture sector is now proving itself valuable to recovery and development efforts, and central to peace building in Liberia. Resumption of farming activities has enhanced food security and assisted in sustaining resettlement of internally displaced persons (IDPs), returnees and conflict-affected communities, as well as creating employment for women and youth.

As a major source of growth in the country, investment in revitalizing the value chains of agricultural commodities will significantly improve access to food, generate sustainable, remunerative employment, and improve livelihoods of rural communities, thereby significantly contributing to the consolidation of peace, stability, economic recovery and development.

1.2.2 Structure and Performance of the Sector

Liberia’s agriculture sector is dominated by traditional subsistence farming systems on uplands that are characterized by labor-intensive shifting cultivation, low technologies, and use of rudimentary inputs, resulting in low productivity. The farming systems are primarily forest based and they cover the largest portion of cultivated land area, are concentrated in the central belt of the country, and account for almost half (50%) of the total land area and almost 90% of arable land.

Small acreages of tree crops are maintained for generating cash income while rice, intercropped with vegetables and other food crops, occupy the major portion of cultivated land (about 87%), which is on upland. Currently over 95% of Liberia’s farms are located on uplands, which are far less productive and contribute to environmental degradation. A secondary root and tuber-based farming system (involving some cereals) is concentrated in the northern region, and a third farming system occurs in the coastal belt with fishing as a major activity complemented with mixed cropping.

Commercial agricultural activities are almost exclusively plantation estates of rubber, and to a lesser extent oil palm. Coffee and cocoa are produced mainly by smallholders and exclusively for export. Value addition is limited and restricted to rubber. Besides the plantation estates, very little commercial investment has been made in the agriculture sector, except for limited commodities’ trading which has persisted over the years, and a few recently established poultry and livestock farms.
The livestock sub-sector was decimated as a result of years of civil conflicts. Current livestock population is below 10% of national requirements. The fisheries sub-sector is also under developed, but has good potential for growth, since only about 6.8% of sustainable yield is harvested annually.

Land and water resources are abundant and offer potential for significant expansion of agricultural production. Lowland areas comprise approximately 6.1% of total land but many are in small, noncontiguous areas and widely scattered or in narrow valleys, thus limiting the maximization of their highly productive and environmentally preferable potentials. Significant potential for irrigation exists (estimated at about 600,000 hectares), with less than 1% of it presently developed.

1.2.3 Past Sector Development Approaches and Lessons Learned

The 1950s and 60s

The high world demand and prices for primary agricultural commodities such as rubber, coffee and logs, and the “open door policy “ of the Government at the time, encouraged the promotion of industrialization and export. Public resources were invested in one or two parastatals to support the value chains of these commodities particularly processing and marketing in the case of cocoa and coffee.

Private sector investment in the sector was high and foreign dominated; partnerships involving the government and cooperatives were also established. The activities were ad hoc, mainly carried out under concessions for land agreed between investors and the government for long periods covering 40-99 years. A number of large commercial enterprises were also established for livestock, poultry, aquaculture, sugar and rice.

While the Government of President William V. S. Tubman recognized the importance of food production, the Strategy of “Operation Production” that was employed to enhance yields was not directed at raising the productivity of the subsistence sector which dominated cultivation of the staple food commodities at the time. Rather, large scale mechanized commercial production activities were encouraged. There were no meaningful attempts to integrate the monetized export/industrial economy and the subsistence/food-producing economy.

The 1970s

By the start of the seventies, world market prices and demand for Liberia’s main exports of rubber and iron ore had begun to deteriorate. This situation, aggravated by increasing global oil prices, worsened the terms of trade for the country. The food gap started to become

Liberia's farm family population is heavily concentrated in Nimba County followed by Bong and Lofa counties. Over 90% of these farm families are small scale subsistence farmers primarily engaged in growing rice and cassava the smallholder sector, which dominates agricultural activities, currently experiences poor tenure security.

During this period, the sector was a robust, monetized economy of exports and industrialization, but with negligible attention to food production and the subsistence economy.

In the 1970s, the policy of self sufficiency in food production emerged, and was pursued through Integrated Development (ID) activities, controlled by the public sector, but not participatory or diversified enough to sustain the envisaged results.
clearly visible as imports became more expensive. Occasional scarcity of the staple food, rice, and the accompanying uneasy periods of instability raised awareness of and need for food self-sufficiency and an urgency to reverse the direction of the sector’s development by paying more attention to the subsistence economy and participatory approaches to food production. This led the Government of President William R. Tolbert to adopt the policy of self-sufficiency in staple food production.

There was a strategy shift from large scale mechanized farming to the establishment of Agricultural Development Projects (ADPs), mainly directed at rice production from irrigated lands, and development of swamps for small producers. The projects, which were public sector operated, were funded by loans from the World Bank, Donor Governments and Development Agencies. The projects employed and empowered farm families by providing them with infrastructure, credit, extension services and other essential inputs to produce irrigated rice in particular, as well as tree crops and other selected industrial crops such as sugar. Owing to the large costs of the projects, poor design and management, they could not be sustained and had to be terminated once external funding ceased. The ADPs, however, contributed to the development of the sector by strengthening the Planning Department of the Ministry of Agriculture, the Central Agricultural Research Institute (CARI), and preparing a Policy Statement for the sector, “The Blue Book” that gave a more holistic direction to sector activities with an accent on development while pursuing growth. Regrettably, the policy was never approved and implemented.

1980s

The 1979 “rice riot” that heralded the start of the eighties and the magnitude of food insecurity in the country dictated, to a large extent, a change in policy direction from export-led growth to food self-sufficiency, and the diversification of agriculture and food production. Emphasis was placed on improving and modernizing the subsistence sector, with more development assistance provided by development agencies. The Government of President Samuel K. Doe sought to increase public sector resource allocation to the sector. A Green Revolution Action Plan prepared by the government, which elaborated the nature and scope of the new policy changes, especially longer term planning, was awaiting validation when the civil war broke out at the end of 1989.

1990 – 2000

Armed civil conflict pervaded Liberia from 1989 to 1997 and later through 2003. During this period it was difficult to establish meaningful longer term policy perspectives for the economy as a whole. Activities in the sector were characterized by emergency activities for food production and income, and limited attempts at rehabilitation. The regime of Charles Taylor established a two-phase approach to rehabilitation of the sector. The first was contained in a two year National Reconstruction Program (1998-2000), with emphasis placed on emergency production and revitalization of food production. The second phase was directed at development and growth of the sector over the medium to long term. This was contained in a Five Year National Reconstruction and Development Plan,
2001-2006. Emphasis for the sector was placed on diversification, value-addition, agro-industries, strengthening of food security through self reliance, intensification of extension services, data management, strengthening of parastatals, Credit, Marketing and Cooperatives, restoration of the value chains of cash crops, participatory forest management and productivity enhancement in artisanal fisheries.

The National Transitional Government of Chairman C. Gyude Bryant (2003-2005) often stated commitment to revitalization of the sector’s productive capacities particularly to emergency agricultural production for food and incomes. Regrettably, the Result-Focused Transitional Framework (RFTF) provided little or no funding for agriculture.

### Lessons from Past Experiences

- Given the strategic nature of agriculture, it must remain a national priority and be supported by government through appropriate complementary and mutually – reinforcing policies, at both macroeconomic and sector levels;
- The monetized, financial/industrial economy of the sector must be integrated with the subsistence/food producing economy;
- Sector activities must be diversified and modernized, and every effort made for a private sector-driven development focus;
- Food self-sufficiency in staple foods must be achieved and sustained by better policy directions, targeted investment and enhanced public-private sector partnerships;
- Sector activities in periods of emergencies and recovery must focus on the revitalization of productive capacities for food production and income generation and must complement longer term development aspirations;
- Women and youth should be encouraged and empowered to play meaningful roles in the sector; and
- Agriculture is the gateway to rural development/transformation.

### 1.2.4 Challenges to Agricultural Development and Growth

Notwithstanding the potential of the agriculture sector and the opportunities it offers for measurable contribution to the development and growth of the economy, it is confronted with several challenges that are overly structural in nature. Chief among these challenges are the following:

- Increasing productivity and incomes of Liberia’s subsistence farmers and transforming them into commercial farmers, diversifying their crop (and livestock) enterprises to include those with higher value, and linking them to national, regional, and international markets;
• Creating a conducive, enabling environment for growth and development including incentives and opportunities for substantial private sector investment in agriculture value chains;

• Ensuring that strategic public spending in agriculture is reflected in Government Budgets;

• Ensuring food and nutrition security, including safety nets, for all Liberians, primarily by reducing the real cost of food for the majority of Liberians who are net buyers of food;

• Developing appropriate technologies for upland agriculture farming systems, which presently account for most of the nation’s food production, while facilitating revitalization of lowland areas;

• Designing and implementing institutional reforms that will reframe the MOA and improve planning, coordination, regulation and support to the sector’s development through a decentralized framework that empowers local people;

• Transforming the extension system from a transfer of technology model to a pluralistic system involving Participatory Extension Approaches (PEA) that aim to develop demand driven services;

• Rebuilding the national research and development (R&D) system to strengthen demand for services, improve quality of service and ensure system sustainability.

• Carrying out land reforms that will allow for longer term planning, use and investments, and enhance demand for land as a productive asset.

• Effective and efficient capacities to plan implement and monitor programs that sustain natural resources, mitigate producer risks and mainstream gender and youth.

1.3 Vision and Objectives

1.3.1 National Vision

A nation that is peaceful, secured and prosperous, with democratic and accountable governance based on the rule of law, and abundant economic opportunities for all Liberians (PRS 2008 derivative).

1.3.2 National Development Goal

Shared, inclusive, and sustainable economic growth and development; food and nutrition security; employment and income; and measurable poverty reduction (PRS 2008).

1.3.3 FAPS Objectives

A revitalized and modernized food and agriculture sector that is contributing to shared, inclusive and sustainable economic growth and development of Liberia

To achieve the above, the Government shall seek to realize the following sector objectives:
• Safe and nutritious foods available in sufficient quantity and quality at all times to satisfy the nutritional needs of all Liberians;

• Enhanced, inclusive and pro-poor growth in agricultural production, productivity, competitiveness, value addition and diversification, and linkages to markets; and

• Effective and efficient human and institutional capacities in the public and private sectors, civil society, and communities to plan, deliver services, invest and monitor performance in, among other things, natural resource sustainability, producer risk mitigation and gender and youth mainstreaming.

1.3.4 Guiding Principles

In the implementation of the policies and strategies that follow, stakeholders will be directed at all times by the following principles:

• **Macro-economic stability:** all activities will be firmly anchored in the macroeconomic framework, priorities and objectives of Liberia, with advocacy for pro-poor growth, and linking small holder farmers to markets;

• **Pluralism and clarity of roles:** there will be inclusive processes requiring the input of all stakeholders with clear determination of and assignment of roles and responsibilities for policy making, implementation and regulation;

• **Enhanced private sector involvement and competition:** high participation of the private sector and competitive markets will be facilitated to support commercial farming and public-private partnerships;

• **Self-reliance:** self-sufficiency in the production of the country’s staple foods will be promoted to enhance food security;

• **Maximization of comparative advantages:** the uplands will be utilized for tree crops such as rubber, coffee, cocoa, oil palm and mangoes, and the lowlands for rice and vegetables;

• **Value addition:** improvement in storage, processing, and the regulatory environment will be made to facilitate transition from basic raw materials production in the crops, fisheries and livestock sectors,

• **Sustainable development management:** a high sensitivity to sustainable management of the country’s natural resources, including water, land and forestry resources to foster intergenerational equity;

• **Decentralization:** decision making and ownership at the county, district and clan levels are promoted and supported.
Sector Policies and Strategies

The food and agriculture sector of Liberia is characterized by low or negligible productivity, particularly in smallholder-dominated food production. Policy inertia and fourteen years of conflict accentuated this constraint, destroying already weak infrastructure, processes and systems.

2.1 Policy 1: Improved Food Security and Nutrition

Safe and nutritious foods are available in sufficient quantity and quality at all times to satisfy the nutrition needs for all Liberians.

The overall thrust of FAPS therefore is to improve food and agricultural value chains. Strategic objectives that will be pursued to realize this goal are improved food security and nutrition, increased competitiveness and linkages to markets, and enhanced human and institutional capacity. These objectives are consistent with current national reconstruction and development priorities as circumscribed in the Lift Liberia Poverty Reduction Strategy and also driven and underpinned by the necessity for conflict-sensitive inclusive, equitable and pro-poor growth and development.

2.1.1 Ensuring food availability is the entry point to achieving national food security. The Government will pursue a broad-based, inclusive approach to increasing food production.

Interventions

- Rehabilitating existing swamps for increased production and productivity and promoting development of others in areas with appropriate comparative advantages;

- Establishing and supporting special initiatives, actions and programs directed at expanded access to essential inputs (planting materials, tools and equipment, fertilizers, agro-chemicals), for rapid, increased production of staple foods: rice, vegetables, and tubers;

- Supporting artisanal fisheries and aquaculture development through the establishment and participatory management of Community Fisheries’ Centers in selected areas in the country; and

- Encouraging rapid production of selected short-cycled livestock such as poultry and small ruminants (sheep, goats, grass cutters, rabbits, and special wildlife).
2.1.2 Accessibility is essential to national food security. To be secured, food once available must be accessible to the majority of the population. This accessibility takes on two forms: first is physical accessibility or ensuring that produce leave their points of production to their points of consumption (purchase). Second, economic accessibility or ensuring that people can generally afford the prices charged for agricultural food commodities. The Government will adopt measures that will ensure accessibility of the population to available food supplies.

Interventions

- Improving farm-to-market, secondary and tertiary roads to ensure that agricultural commodities are available and affordable;

- Facilitating access to seeds, fertilizers and pest management inputs and increasing market competitiveness and efficiency as a way of reducing production cost and making them affordable by the general population;

- Developing and implementing special safety net programs that will maintain the wellbeing of vulnerable households and groups that are unable to access food supplies; and

- Establishing strategic food reserves at community and national levels.

- Promoting large-scale commercial agriculture in both food and tree crops, and comparable investment in fisheries and livestock by offering competitive fiscal and other incentives.

2.1.3 Food utilization is the third factor that impacts food security. Even where food supplies are adequate and accessible, utilization practices could negatively impact nutritional levels and status. Thus the Government will enhance its information, communication, and education programs on nutrition to engender informed food consumption patterns and practices.

Interventions

- Ensuring that foods and feeds produced, handled, stored, processed and distributed are safe, wholesome and fit for human and animal consumption;

- Strengthening information, communication and education on nutrition in local communities through schools, health centers, and households;

- Fostering regular dialogue on nutrition among stakeholders within the framework of the National Food Security and Nutrition Strategy;

- Promoting the diversification of household consumption patterns to enhance nutritional balance and security; and

- Providing special nutritional food supplements for vulnerable households and groups such as malnourished infants and children.
2.1.4 The Government will continue to be involved with resettlement of people displaced by the conflict, most of whom are farmers and small agents in the sector, and engage in the reintegration of ex-combatants in their respective communities of origin on a sustainable basis. The thrust of public intervention is to build up financial, social, physical, human and natural capital to enable the beneficiaries to undertake productive farming and non-farming activities. Within this context, agricultural production and income generation activities will be supported.

Interventions

- Distributing basic input packages including implements, planting materials, and initial breeding stocks;
- Reactivating blacksmithing so that returnees can commence making their own tools, produce a surplus and sustain their livelihoods;
- Providing “quick impact training” in agricultural methods and life skills such as carpentry and masonry;
- Providing “start-off kits” to vulnerable groups who successfully complete designated training courses;
- Prioritizing the involvement of trained vulnerable groups in the rehabilitation of social infrastructures such as schools and health centers, and in out grower and similar schemes;
- Organizing and supporting the participation of returnees in farmers’ cooperatives and indigenous labor management practices such as the Kuu system.
- Implementing the Presidential Return to County Initiative whereby a limited number of youths and others will be supported in agriculture.

2.1.5 The rural labor market offers significant employment potential in the agriculture and non-agriculture sectors for skilled and unskilled youth and women. Expansion, transformation and diversification of rural employment will spur local economic development, benefit the poor and ensure absorption of a growing labor force into manufacturing, processing and service activities.

Interventions

- Promoting and supporting medium, small and micro-enterprises in the sector that enhance demand for other economic activities.
- Improving access to finance and expanding basic education and relevant training to selected economic agents in the sector;
- Encouraging large farms and firms to expand and thus generate more productive wage employment; and

Strategy 4: Contributing to resettlement and reintegration programs

Strategy 5: Supporting rural self-employment and self-reliant wage work to spur local economic development.
• Supporting appropriate improvement in the working environment of labor without stifling employment.

2.2.1 Past sector policies failed to bring about equitable and sustainable growth because they concentrated heavily on plantation and commercial agriculture, neglecting small scale, subsistence producers. These small producers constitute a very large majority of the population, and produced over 60 per cent of the country's staple foods, particularly rice. Their inclusion in the sector's activities for sustainable recovery will make a significant impact in revitalizing the agriculture sector. A sustainable pro-poor approach to increased production, productivity and competitiveness of the agricultural supply chains will therefore be adopted and achieved through a number of interventions.

2.2 Policy 2: Increased competitiveness and linkages to markets

Accelerated pro-poor growth in agricultural production, productivity, competitiveness, value addition, and diversification

Interventions

• Providing strategic farm inputs at affordable prices particularly to small holders who constitute the majority of agents in the supply chains of the sector;

• Intensifying promotion of diversified and integrated farming (crops and livestock; crops and forestry; food and cash crops; irrigation and aquaculture; production and processing), by small holders based on comparative advantages of each region;

• Accelerating, with a pro-poor focus, the transition from low-productivity subsistence farming to high-productivity commercial production with emphasis on mechanization and linkage to markets;

• Constructing essential market oriented infrastructures (e.g. drying and storage facilities, local markets, fish landing sites, farm to market roads; abattoirs) and establishing processing facilities;

• Supporting the development and efficiency of small holder cash crop farms by replanting existing plantations and promoting out-grower schemes in agricultural concessions and other large-scale commercial agricultural enterprises; and

• Controlling Illegal, Unreported and Unregulated (IUU) fishing in the Exclusive Economic Zone (EEZ) of Liberia.

Strategy 1:
Enhancing the efficiency, competitiveness and sustainability of the food and agricultural supply chains, particularly those of small holders, and linkages of these chains to markets
2.2.2 Private sector involvement in the sector in the past has been at two levels: firstly, via the large rural subsistence operators (producers, marketers, processors, cooperatives), whose capacities for investment were relatively negligible, and had very little impact; secondly, by way of large but relatively few commercial entities investing in chains of high value market export commodities. Financial institutions were involved albeit with a focus on large commercial entities, importers and exporters of the sector’s inputs and exports. In view of their invaluable roles in linking the sector to markets and providing investment that will enhance the modernization of the sector, an environment that ensures a dynamic involvement of the private sector at all levels will be pursued.

Interventions

- Advocating for, and ensuring the provision of tax incentives to businesses and their interests, consistent with the investment code, tax and revenue laws, and international “best practices”;
- Establishing property rights and advocating for the security of land tenure;
- Ensuring the Government will not intervene along the agricultural chain in a manner that undermines private sector activities;
- Promoting technologies that reduce post-harvest losses and enhance value addition and competitiveness with primary attention to small holders;
- Promoting improved access of Liberia’s products to regional and international markets in accordance with sound export promotion strategies;
- Supporting cooperative societies and farmer organizations to be well managed business entities that advise, encourage and facilitate their members to exploit market-driven opportunities, establish linkages with sources of support, and advocate and play leading roles in inputs supply and output markets;
- Dialoguing with and encouraging financial institutions to establish micro-finance units and rural banking facilities with special lending strategies to provide credit to small holders, farmers’ organizations, individual farmers, and businesses investing in agriculture and agribusiness; and
- Establishing a framework in which private sector institutions, especially industrial concerns in mining, agriculture and forestry, will significantly contribute (financially) towards agribusiness investment in food and cash crops, livestock, and fisheries value chains.

2.2.3 An enabling macroeconomic environment is essential for economic recovery, growth and development. It is this environment that attracts private capital, particularly direct investments. It is thus critical that adequate security, communications and transportation, power and water; storage and processing, and market infrastructures exist as well as macroeconomic stability. Implicitly, this means increased public investment and reforms of related policy, legal and regulatory frameworks.
Interventions

- Putting into place measures to ensure macroeconomic stability, well defined property rights, a favorable investment climate, an attractive incentives framework, and legal and regulatory measures that will reduce transaction costs for investments;

- Enforcing the commitment of the Government to allocate at least 10% of its budgetary resources to the sector;

- Advocating for, and ensuring improvement of necessary infrastructures, particularly roads, storage, processing equipments and market structures, in order to reduce transport and other production and transaction costs to increase competitiveness and expand agribusiness;

- Ensuring well-functioning factor markets and broad access to information and education;

- In particular, supporting the establishment of an effective functioning land market adapted to the conditions of Liberia; and

- Mobilizing investment resources from the Government, Development Partners and, foreign direct investors.

**Strategy 3:**

*Increasing public investment and creating an enabling environment for agriculture and agribusiness development.*

2.3.1 One of the major reasons for limited success of agricultural and rural development in the past was the lack of wider stakeholder participation. Government is committed to participatory involvement of all stakeholders in decisions affecting rural and agricultural development, particularly in the planning and implementation of research, extension, education and training, and other activities meant to support sector growth and development.

**Interventions**

- Promoting a pluralistic approach in which agricultural innovations and extension services are derived from several sources, rather than only from traditional research institutions;

**Strategy 1:**

*Instituting improved governance; and promoting civil society organizations, and decentralized and demand-driven service delivery.*
• Decentralizing key support services including extension and training;

• Promoting the formation of effective civil society organizations and business associations, and facilitating the revitalization of existing ones in the context of decentralization and empowerment of local communities; and

• Facilitating dialogues and consultations with and among critical players, especially the private sector, in formulating regulatory policies (i.e. pricing and marketing), and undertaking legal and institutional reforms (e.g. labor law, investment code), fiscal reforms (e.g. concession policies, taxes, investment incentives, development funding), and research.

2.3.2 The Government recognizes the critical role of the public sector in pro-poor agricultural development and growth, especially the provision of support to build capacities of smallholders to be competitive, and the supply of advice and information to the private sector to enhance involvement and spur investment.

Interventions

• Strengthening the capacities of the public sector, particularly the Ministry of Agriculture (MOA), and ensuring it is more effective and efficient in providing continuous services especially for policy development, planning, coordination, monitoring, technology transfer, regulation, resource mobilization, and information dissemination.

• Enhancing the effective management (generation, processing, and dissemination) of agricultural statistics, data and information;

• Reforming MOA and other leading institutions such as LRDA, CDA, ACDB and LPMC, by identifying core functions and clarifying roles and responsibilities.

• Establishing appropriate institutional agreements and operational mechanisms for intra-sectoral and inter-ministerial harmonization, as well as for coordination between and among stakeholders in the sector.

2.3.3 Large numbers of vulnerable groups exist in the country, and may remain so for some time to come. Safety nets in the form of direct transfers to these groups, particularly the poor, whether in cash or in kind (e.g., food, seeds, tools and fertilizer), with or without a work requirement, serve as social and insurance protection in rural areas, supporting peace and fostering human security in the country.

Interventions

• Ensuring participatory development and management of safety net programs (such as road maintenance under public employment schemes) that contribute to long-run poverty reduction and recognize the judicious
timing of transfers (e.g. during the rainy season when the opportunity cost of labour is low);

- Encouraging and supporting participatory school feeding programs based on local foods in order to create market for the community and improve the nutrition and health status of children;

- Promoting participatory transfers programs, including vouchers for seeds and fertilizer packs for the poor, with a high multiplier effect. Pure transfers will be selective for a few specific groups such as orphans and HIV/AIDS afflicted families;

- Promoting an institutional and financial environment that lessens risk to small-holder families, including options for farm-system diversification and for off-farm rural employment; improved access to technologies and their requisite inputs and to information and advice; and available and affordable micro-credit and crop and livestock insurance; and

- Ensuring effective sensitization and awareness among service providers and beneficiaries (for self-reliance) in the above actions.

2.3.4 Despite attempts in legislative and public policies to ensure women’s rights at the national level, complex community arrangements and long standing traditions continue to restrict women from taking maximum advantage of development opportunities particularly in rural areas. Liberia also has a youthful population for whom agriculture holds great potential to involve them in national economic growth and development.

Interventions

- Ensuring that women and youth have equal access to land and water resources, credit and other support services;

- Ensuring that all agricultural development programs and projects include provisions for women’s empowerment, equal access to decision-making, and respect for gender differences in roles and activities in the sector; and

- Establishing programs for women and youth (e.g. youth agriculture clubs) to facilitate gender balance and create sustainable livelihoods

- Strengthening the capacity of the Ministry of Agriculture to mainstream gender and youth concerns in policies and programs.

2.3.5 Agricultural and forestry activities impact the environment. Extensive deforestation, depletion of the genetic resource base, soil degradation and overexploitation and pollution of marine and coastal ecosystems have become major threats to sustainable use of Liberia’s natural resource base. Accordingly, as agricultural production and logging take place, it is essential that measures are put into place to ensure that these activities are environmentally friendly in terms of conservation and sustainability.
Interventions

- Pursuing an inclusive, partnership-based, coordinated approach with active and mutual participation of all stakeholders, especially local communities, in formulating and implementing effective national policies, legislation, and access rights for the management and sustainable use of natural resources;

- Promoting the protection and establishment of forests for watershed protection, wetlands protection, conservation of biological diversity, and stabilization of global climate;

- Supporting participatory Environmental Impact Assessment (EIA) in agricultural and forestry concessions;

- Supporting the participatory establishment of laws and guidelines for agricultural practices to protect the environment with appropriate measures to ensure compliance;

- Supporting the participatory development and enforcement of community land use plans;

- Ensuring increased production of crops, fisheries and aquaculture, forestry and livestock with due consideration to sustainable use and management of natural resources;

- Ensuring that priority is given to crafting appropriate land tenure arrangements that adapt sustainable land management practices including those based on existing traditional methods, but avoiding discrimination against women and the underprivileged; and

- Promoting the introduction of sustainable cropping systems such as conservation agriculture in order to enhance productivity and sustainability of agricultural land use while at the same time conserving the natural resource base.
Crops

Food crop production is the most important source of livelihood for the majority of Liberia’s rural population, about forty-one percent (41%) of whom are engaged in the activity. On the other hand, tree crops have been the highest income - generating sub-sector, providing formal employment to the greatest number of agricultural workers and contributing significantly to the country’s GDP – particularly in the area of export earnings.

FAPS seeks to facilitate coordinated, synergistic development of the entire crops sector to ensure that the food Liberians need is available, accessible and affordable, and with enhanced capacity for surplus production and export, contributing to increased personal and national incomes. Complementary crops development will ensure that the foreign – dominated, high-productivity, export-oriented tree crops sub-sector is no longer an enclave where Liberians are only employees; it means Liberians will benefit more, through smallholder or other schemes, as owners of productive enterprises. It also means foreign direct investment will be encouraged to invest in the food sub-sector and that incentives will be available to all regardless of the origin of capital.

3.1 Food crops

The major food crops produced by Liberian farmers are rice, cassava, yam, eddoes, plantain, vegetables and groundnuts. Achieving self-sufficiency in food production will require increased production of all other staple foods besides rice, in order to achieve the food balance required to meet national nutritional needs. Diversification is also needed as a cushion against price fluctuations and/or single crop failures as is increased cultivation of erstwhile minor crops such as maize. The following policies and strategies have been identified to ensure increased productivity and competitiveness in the availability of these commodities.

3.1.1 Rice

Rice is the staple food for most of Liberia's 3.5 million people. It is produced by 71% of the estimated 404,000 farm families in the country. Rice is generally grown on upland farming ecology, with a limited percentage devoted to lowland ecology. Upland rice cultivation is done once a year with planting starting in March-April and harvesting in October-November. In the lowland, rice can be cultivated more than once a year. Currently there is no comparative advantage in
upland rice production (i.e. using existing technologies). However, the country does have a comparative advantage in lowland rice production.

Annual per capita consumption of rice is estimated to be 53kg, one of the highest in Africa. Latest crop assessment estimated average yield of 780/Ha which is low relative to pre-war years, and regional and international performance. Rice production (milled rice) was estimated at 85,000mt in 2005, 144,000mt in 2007 and 175,000mt in 2008. The annual demand for rice is about 400,000mt and the gap is filled by imports. In 2007, for example, Liberia imported approximately 250,000mt of rice, and together with the food assistance, spent nearly US$100 million. The import bill has grown from US$25 million in 1990 to US$200 million in 2008, exacerbated by the global food price increases experienced in this year.

One of the responses of the Government of Liberia (GoL) to the global food crisis in 2008 was to enhance the production of rice. Currently, Liberia is producing less than its national requirements and the country is still largely “food insecure”. Consumption has outstripped production so there is need to focus on strategies that will enhance production in order to reduce dependency on imports and help increase the income of small farmers.

The rice sub sector development will work within the context of regional and sub-regional complementarities, focusing mainly on food security and nutrition, competitiveness and linkages to markets, and capacity building along the entire rice value chain.

Issues and Constraints

- Approximately 63% of subsistence households produce rice, and exclusively on the uplands where traditional technology of slash and burn shifting cultivation remains largely unchanged;

- Other than Lofa, Bong and Nimba Counties, most counties do not cultivate rice in swamp/lowlands; however, productivity per acre of swamp rice exceeds that of traditional upland rice and, therefore swamp rice protection has greater potential for meeting above farm household consumption requirements;

- Most of the swamp/lowland areas on which subsistence farmers cultivate rice comprise narrow inland valleys and widely scattered small swamps, which are cleared using hand labor, and which use limited water control structures;

- Limited acreage of swamp rice fields developed with improved technologies, most of which were destroyed or severely degraded during the conflict years, need to be rehabilitated and expanded;

- Food markets are thin and market orientation of farmers limited (only 7% of rice produced is sold); and

- There is very limited value addition and a high degree of wastage in the rice value chain.
Policy

- **Sustainable sufficiency in rice output attained, with much greater focus on production from swamp/lowlands, and by small holders;**
- **Transformation of traditional subsistence rice farmers into commercial rice farmers pursued by focusing on increased access to essential inputs, improved strategies for upland cultivation, mechanization, value addition and linkages to markets;**
- **Large-scale commercial rice farms established through the direct involvement of the private sector (national and foreign), within specified agro-ecological zones that offer comparative advantages in rice production. Such enterprises will enter into partnership agreements with smaller commercial rice producers serving as out-growers to the enterprises;**
- **Value addition and development of a commercial rice industry, with rice value chain development starting at the farm level; and**
- **Establishment of a Rice Development Fund and a Rice Advisory Board to provide credit and coordinate interventions, respectively.**

Strategies

- Establishing a national seed programme to backstop rice production.
- Developing lowland production facilities and providing support for tools and equipment acquisition;
- Providing support to swamp/lowland farmers by distributing improved farm tools and equipment including power tillers and zero tillage technologies;
- Undertaking a rehabilitation program and using improved technologies that will restore and expand the developed acreage of swamp rice fields that were destroyed or damaged during the conflict years;
- Linking farmers to markets by proving timely price and market information and improving transport network;
- Training farmers in improved production and post-harvest processing, storage, handling, parboiling, threshing, winnowing, drying, and milling methods;
- Developing an appropriate and comprehensive rice policy that looks at the entire value chain and balances interests of consumers and producers; and
- Instituting proper weed and pest control and intensifying farmer education on the use of Integrated Pest Management (IPM) techniques.

3.1.2 Cassava

Cassava is the second most important food crop in the country with annual production estimated at 1,693,770 MT in 2007 (MOA/FAO Post-harvest 2008 assessment report). It can be planted all year round, and the time of harvest is not critical since it can be stored under the ground. It is therefore very important for food contingency, especially before rice is harvested in
many farming communities. In addition, cassava leaves are an important vegetable, although harvesting of leaves adversely affects tuber yield (this effect is reduced during the raining season). Crop area is around 0.5 ha and yields are estimated to be between 6 to 10mt/ha on upland farms. Cassava is grown on flat land and is usually intercropped with maize and sometimes sweet potatoes and peppers.

**Issues and Constraints**

- Production of cassava is by traditional technologies, with very low levels of value addition or product development;
- Appropriate knowledge, technical information and advice, and improved planting materials that can facilitate investment in the value chains of this crop are limited;
- Infrastructure for post-harvest management, i.e. handling, storage, processing and transportation are negligible, resulting in relatively high losses, high transaction costs and low returns that render investment in the industry and related enterprises unattractive; and
- Industrialization of cassava production and post-harvest value adding is limited and will require investment in hardware, training and promotion.

**Policy**

- *Intensified diversification in the production and consumption of cassava varieties*
- *Creation and expansion of markets and/or outlets for cassava through promotion of value addition, product development, wider trade arrangements, establishment of special food reserves and special feeding programs.*
- *Intensified production of raw materials from cassava for industries and animal feed,*
- *Investment in cassava research and expansion; and*
- *Formation and implementation of a National Cassava Initiative to coordinate crop development and promote utilization.*

**Strategies**

- Sustained promotion of the use of simple agronomic soil and water conservation measures
- Breeding or introducing varieties that are high yielding and of high quality to meet stakeholders demand, are easy to peel and have delayed post harvest deterioration
- Introducing improved storage methods and drying slabs, and designing affordable and high quality processing machines;
- Instituting proper weed and pest control and intensifying farmer education on Integrated Pest management (IPM) techniques; and
- Commercializing the cassava value chain
3.1.3 Other Food Crops

Other food crops such as tubers and starchy crops (potatoes, eddoes, yams, plantains), vegetables and legumes, mainly groundnuts, and cereals such as maize and sorghum grow very well in Liberia. These crops are cultivated as part of an integrated upland farming practice and as insurance or supplements to the main crop, rice. They are used mainly as secondary food commodities and sources for income. There is a comparative advantage in producing them locally, and there is the potential for large scale and industrial production.

Issues and Constraints

- Crops are currently produced by low output traditional technologies, with very low levels of value addition or product development;

- Appropriate knowledge, technical information and advice, certified seeds and other planting materials that can induce investment in the value chains of these crops are limited; and

- Infrastructures for post-harvest management of these crops, including handling, storage, processing and transportation are negligible, resulting in high transaction costs and low returns, thus making investments in such enterprises unattractive.

Policy

- **Intensified and large scale production of other food crops for food security enhancement (household and safety nets) and to meet market and industrial demand;**

- **Creation and expansion of markets and/or outlets through promotion of value addition, product development, wider trade arrangements, establishment of special food reserves and special feeding programs to absorb competitive selected food crops being produced locally and by targeted producer groups;**

- **Intensified production of selected food crops such as vegetables, tubers, cereals, and oil for agribusiness; and**

- **Promotion of peri-urban production and marketing of vegetables.**
Strategies

- Providing enhanced technical assistance to farmers to upgrade their farming technologies;
- Sensitizing the farming population of the need, value and options of increased production and competitiveness of food crops;
- Developing and supporting mechanisms to promote participation of local private businesses as well as farmer based organizations in value addition, input supply and commodity trading;
- Establishing special initiatives and mobilizing resources for the expansion and intensified production of selected food crops for surpluses, high value markets and special food reserves;
- Promoting training of farmers and rural people (particularly women, youth and returnees) in processing and preservation of food crops, including vegetable oils and cassava;
- Promoting and supporting a farmstead development program for young commercial food crop farmers in specified zones which offer advantages for food crop specialization; and
- Investing in agricultural infrastructures such as handling, storage, processing, transport, and marketing facilities.

3.2 Tree crops

Liberia has a clear comparative advantage not just in rubber but in many other major tree crops, including cocoa, oil palm and coffee. Tree crops are also likely to enhance the opportunity to increase food crop production by having greater chances to access credit, obtain equipment and inputs, and opportunities which are normally not available to food crop farmers.

Plantation-oriented privately owned commercial estates or concessions of rubber, and to a lesser extent coffee, cocoa and oil palm, have been promoted for several decades in Liberia. From the late 1970s the strategy for agricultural development included support for small holder coffee, cocoa and rubber farmers and the establishment of large-scale nucleus plantation estates of oil palm and coconut. These plantations were operated by public corporations and supported by smallholder out-growers.
3.2.1 Rubber

Rubber is grown throughout the country and is currently the preferred tree crop for smallholders. It is an important major export commodity, accounting for over 90% of Liberia’s total export earnings in 2007 and formal employment for approximately 18,500 workers on commercial farms and many more in the small holder and informal industry.

Issues and Constraints

- Uncertainty over ownership and governance has adversely affected tree crop plantations by limiting new investment needed to replant and re-install processing capacity;
- Many subsistence farmers are replacing coffee with rubber and planting new trees on public or disputed land in an effort to establish de-facto ownership;
- Most of the trees on both private farms and foreign owned concessions have reached or are nearing the end of their productive life, and need to be replaced;
- While the large rubber concessions have maintained production from their old tree stocks, production from privately owned farms has drastically fallen because many were either cut down to produce charcoal or severely damaged by “slaughter tapping” techniques which were used by occupying fighters;
- Rubber stocks on most of the small farms on which the majority of the newly planted rubber can be found consist of unimproved germ plasm in contrast to industrial estates; and
- Value addition is limited to primary processing of latex and coagulum, except for rubber wood for which a processing facility was recently established.

Policy

- Rehabilitation and revitalization of the rubber sub-sector, taking into consideration the current global demand for rubber and opportunities for local value addition, to raise incomes and improve livelihoods for large numbers of smallholders of the crop;
- Ensuring that rubber is used as a means of transitioning the mass of subsistence farmers into commercial agriculture via out-grower schemes; and
- Encouraging downstream activities through use of appropriate investment incentives.

Strategies

- Devising a Natural Rubber Development Strategy;
- Reviewing and renegotiating all concession agreements of existing rubber plantations (also oil palm) to increase benefits to Liberia;
- Developing an appropriate land utilization policy for concessions that addresses farming and other socio-cultural needs of rural inhabitants;
• Establishing a **Rubber Development Fund** to provide financial assistance mainly to smallholders;

• Transforming the Liberia Rubber Development Authority into a permanent **Rubber Advisory Service** in partnership with large rubber farmers and collaboration of small holders;

• Supporting the provision of essential inputs for the production of high yielding, early maturing clones and discouraging farmers from planting inferior clones;

• Improving rubber farmers’ access to credit and financial services;

• Training rubber farmers in best practices for planting, maintenance, proper application of chemicals (i.e. fungicides, insecticides, fertilizers and herbicides), tapping and processing techniques;

• Promoting and enforcing quality control measures for both planting materials and products;

• Promoting value addition over the long term by producing a wide range of products including such items as tires, tubes, hoses, belts, and rubber-based auto parts; and

• Stemming illicit tapping and theft to encourage investment.

### 3.2.2 Oil Palm

**Oil Palm**

Besides rubber, Liberia had a very important oil palm sector with both private and state plantations which, before the war, could compete with other African countries such as Ivory Coast, Ghana and Nigeria. Although it is difficult to establish with certainty the total planted acreage of oil palm plantations before the civil unrest, which might have been around 27,000 Ha, the total land allocated to the various operators in the Oil Palm Sector for exploitation was estimated at 50,000 Ha. Liberia also produced between 135,000 to 170,000MT of Crude Palm Oil (CPO) before the war. Today, the country produces only 30,000MT and had to import 7000MT for domestic consumption in 2006 (IFC, 2008), moving Liberia from being a CPO exporter to a net importer. There are about 27,000 hectares of oil palm plantations owned by Parastatals (LPMC, LPPC and DOPC). Smallholder oil palm plantations are popular with Liberian farmers but most of the current tree stocks were planted during the civil war years.

**Issues and Constraints**

- Majority of the palm trees are old and of outdated varieties. As a matter of urgency, there is a need to rehabilitate existing plantations and introduce newer varieties;

- Actors in the inputs markets are inadequate and insufficient to address needs in the Oil Palm sector;

- Value addition is limited to primary processing into Crude Palm Oil;
Most of the palm plantations in the past were under big concessions with very little small holder, private involvement. Establishment of small holder schemes of an average farm size of 10ha could enhance productivity; and

Lack of proper management on plantations has led to poor quality in production and eventually to a discounted price of Liberia’s Palm Oil on the world market.

**Policy**

- *Increased production and productivity of palm oil, especially among small holders, to facilitate rapid increase in rural incomes, employment, export earnings and public revenues through targeted investment in planting material, extension, etc;*

- *Enhancing Liberia’s preparedness as an exporter in the oil palm sector, based on its comparative advantage in production, strategic location and the rising demand for Oil Palm in the world; and*

- *Increasing foreign exchange, job creation, income generation and widening the revenue base in the industry through value addition and other interventions.*

**Strategies**

- Ensuring that the oil palm sector is well supported with appropriate data and information management systems;

- Training oil palm farmers in best practices for planting, maintenance, proper application of chemicals, value addition, product differentiation, quality control, social and environmental sensitivities, and fair trade agreements;

- Supporting the provision of essential inputs through appropriate markets and public involvement as and when necessary to mitigate producers’ risk;

- Reviewing and renegotiating all concession agreements of existing oil palm plantations and ensuring that new agreements provide out grower schemes;

- Developing an appropriate land utilization policy for concessions that addresses environmental, farming and other socio-cultural needs of the local people;

- Assessing the impact of customary land tenure system on the adoption of tree crops to inform appropriate institutional arrangements to secure land for small holders; and

- Devising an Oil Palm Development Strategy.

### 3.2.3 Cocoa and Coffee

It has been estimated that almost 40,000 households produce cocoa in Liberia (FAO/MOA 2001). While other tree crops (especially rubber) are mostly planted in pure stands, cocoa is planted along with secondary food crops, allowing for diversification of enterprise. The vast majority of cocoa trees in Liberia are over 20 years old. Coffee was the first tree crop introduced
as an export crop (together with sugarcane) in the mid-19th century. However, since the 1980s, international prices have discouraged farmers from planting new coffee tree stocks.

**Issues and Constraints**

- Most tree crops are old, overgrown, and of outdated varieties; they require urgent rehabilitation and replanting;

- Small holders and commercial farmers of tree crops suffer from inadequate output market and public goods and services to rehabilitate and promote sustainable production;

- Liberia is a price-taker in the world market for tree crops commodities and a cyclical decline in agricultural commodity prices increases the vulnerability of the country and reduces farmers' real incomes;

- Illegal cross-border trade of cocoa and coffee and, to some degree, palm oil, has reduced the contribution of these commodities to the national economy; and

- LPMC’s statutory monopoly prevents entry into the market and farmer access to benefits of competition.

**Policy**

- *Increased production and productivity of Coffee and Cocoa, to enable rapid increase in rural incomes, employments, export earnings and public revenues;*

- *Enhancing the participation, particularly competitiveness of small scale - private sector agents, in processing and other value addition activities and marketing via support to small holders scheme;*

- *Public investment in high-yielding planting materials and associated extension and credit, and*

- *Abolishing the statutory monopoly of LPMC to facilitate competition.*

**Strategies**

- Revisiting and developing a policy framework on the marketing of agricultural commodities, including rationalizing the role of LPMC and attendant consequences;

- Promoting smallholder estates in partnership with nucleus plantations, and accentuating sound plantation management principles and practices including value addition, product differentiation, quality controls, social and environmental sensitivities, and fair trade arrangements;

- Promoting enterprise mixes that can address appreciably both household food security issues and household financial income needs through the sale of tree crops products and surplus food crops;

- Assessing the impact of customary land tenure system on the adoption of tree crops and land-use intensification to inform appropriate institutional arrangements to secure land for small holders;
• Taking advantage of trade preferences including the Everything But Arms (EBA) and the African Growth and Opportunities Act (AGOA) that provide quota and duty-free entry into the EU and US markets, respectively;

• Re-examining the taxation regimes relating to tree crops to ensure that the sector is not burdened; and

• Supporting farmer-based organizations and cooperatives to secure markets for farmers.

3.3 Non-traditional Crops and Non-Timber Products

Liberia has a considerable amount of natural arable land and ambient climate that would allow for the cultivation of a wide range of non-traditional crops. Past attempts at non-traditional exports trade have been negligible and were mainly carried out through friends and family connections which hardly made any impact on GDP. Non-traditional commodities included smoked dried fish, palm oil, bush meat, local vegetables, bamboo, and few handicrafts.

There is a high potential in the non-traditional sector and great opportunities to resuscitate the industry if appropriate measures are put in place. The GOL has begun improving market access for Liberian non-traditional exports, with the AGOA process being the first, and is anticipating admission into other larger markets such as EUROGAP and the Chinese market.

Issues and Constraints

• Lack of much needed infrastructure, i.e. storage, packaging systems, cost effective cargo shipment and financing systems;

• Inadequate awareness of the market and technologies needed to secure quality supplies;

• Low to negligible institutional and human resource capacities to promote and manage the value chain of non-traditional commodities;

• Lack of research and development attention to the non-traditional sector; and

• No applicable intellectual property rights legislation and protection in the sub-sector.

Policy

• Promoting awareness of the potential of the sub-sector for employment and income generation with high level involvement of the private sector;

• Increasing the volume and quality of non-traditional export commodities into expanded markets at national, regional and global levels; and

• Increasing foreign exchange and incomes and widening the revenue base from the sub-sector.
Strategies

- Developing a strategy to promote non-traditional crops and non-timber products;
- Sensitizing communities and the public at large on the advantages of non-traditional exports;
- Promoting linkages with international markets for non-traditional exports, including utilization of the Government’s Foreign, Commerce and Agriculture Ministries;
- Supporting activities directed at promoting the development of non-traditional exports: research for non-traditional exports; collection, assembly and evaluation of germ plasmas of non-traditional commodities; marketing information systems; packaging materials and storage facilities; establishment of standards; and development of preservation infrastructures.
- Supporting actions directed at value addition and technology transfer to potential producers and exporters; and
- Facilitating and promoting organised arrangements for export of cassava products/by-products (chips, flour, leaf), fish (smoked), palm butter (precooked wild local palm fruits), palm oil, paintings & sculptures, quilts, spices and wooden handicrafts, among others.

3.4 Horticultural Crops

Vegetables (exotic and local) are grown under nearly all farming systems including the swamps during the dry season. Urban and peri-urban vegetable production is also practiced albeit on a limited scale, taking advantage of the ready market in the urban centers. There is great potential for expanding vegetables, mangoes, and avocados production in Liberia because of available land, and favorable climate and domestic resource costs for the crops. Fruits are produced throughout the country although not in organized manner for markets. Their cultivation, as with vegetables, allows for pro-poor growth and productive employment, especially for women and youth. There is also scope for increasing production and productivity, including reducing post harvest loss.

Issues and Constraints

- Institutional and human capacity to guide and support the development of the horticulture sub sector is extremely limited;
- Lack of organized availability of essential inputs such as seeds and other planting materials, fertilizer and pesticides; transport and appropriate handling facilities; and appropriate communal storage facilities;
- Low investment capacities of the small holders who operate in the sub-sector;
- Locally produced commodities are not competitive with external products. Despite the country’s huge potential to produce these commodities, large volumes of vegetables and fruits are currently imported from neighboring such as Guinea and Cote d’Ivoire, and from distant economies of Europe, USA or the Middle East;
• Low competitiveness of the products resulting from high domestic resource costs and their low quality, and unmanaged pests and diseases;

• No reliable systems of market information to enable producers and their organizations to be competitive in the industry; and

• Storage facilities to handle perishable vegetables and fruits are mostly ground floor spaces in verandas of houses, rickety baskets or damaged wooden or plastic boxes. Processing and preservation technologies are low output, with far less quality products.

Policy

• Sustainable volumes of competitive horticulture products are available always for high value markets, both local (tourist and entertainment industry) and foreign; from a commercialized and modern sub-sector;

• Sustainable linkages and transactions between the horticulture sub-sector and high value markets in-country (hotels associations, tourist associations, entertainment businesses, marketers and exporters, manufacturers, processors);

• Functioning infrastructures (particularly warehouses, processing facilities, market information systems and transport) are available; and

• Micro-financing is accessible by operators in the sub-sector to meet investment needs.

Strategies

• Establishing, for quick impact, a special program promoting increased production and productivity by providing, on a cost recovery basis, packages of essential inputs (such as irrigation with motorized pumps, seeds, fertilizers, chemicals, credit) particularly in selected peri-urban and urban areas, involving mainly women and youths and other vulnerable groups;

• Advocating for and generating support from, as well as collaborating with relevant public and private sector agents and businesses to improve competitiveness of the industry by renovating major farm to market roads; ensuring improved transport; and investing in the value chain of horticulture industry (production, processing, storage, marketing and packaging);

• Promoting the availability and expansion of markets for horticultural commodities through consultations and advocacy between and among organized groups of producers from the sub-sector and operators from high value markets including marketers, supermarkets, traders, hotels and entertainment entities; and pursuit of contract farming;

• Promoting through special programs or measures, actions that will facilitate increased efficiency of private sector support services to the horticulture industry, particularly regular affordable supplies of inputs, (planting materials, chemicals and handling and storage materials), credit and savings of particularly small holders); and

• Encouraging and facilitating public and private sector partnerships in research and cost-recovery extension services.
Livestock, Fisheries & Forestry

Livestock, fisheries and forestry comprise the bulk of Liberia’s natural endowment. The country has an estimated 2 million hectares of pasture land, yet the livestock sector accounts for an estimated 14% of food and agriculture GDP, far below potential. Liberia also has a coastline of 570 km and a continental shelf averaging 34 km in width; performing below expectations, the sub-sector contributed only 12 percent to the agricultural GDP in 2002. The forest area covers 4.3 million hectares and accounts for the largest remaining portion of the Upper Guinea basin; however, misuse and mismanagement of this sustainable natural resource has, heretofore, deprived the country and the world of its immense potential to make significant contributions to income generation, quality livelihoods and climate change mitigation.

Cognizant of the vast potentials of these sub-sectors to contribute to the recovery and reconstruction of the country and particularly to pro-poor growth and sustainable development, FAPS seeks to modernize legislations, improve the regulatory environment, build capacity and attract private capital into livestock and fisheries, in line with similar developments already taking place in forestry.

4.1 Livestock

Livestock is a major source of many valuable products and by-products (meat, milk, eggs, leather etc). The livestock sector contributes to food security sustainable agriculture by converting forages and crop residues into organic fertilizers and by providing manure for bio-gas. It also constitutes inflation free investment channel, while fulfilling cultural roles particularly throughout rural Liberia.

Major livestock product chains are the cattle meat, milk, skin, poultry, swine and the animal health industries. There was also a large scale domestic poultry sector prior to Liberia’s civil crisis, suggesting a scope for expansion in the near future. Nevertheless, domestic livestock production falls far short of demand, and import of meat and live animals is substantial. An estimated 26,000 heads of live cattle and 15,000-16,000 of live sheep and goats (estimated to equate to respectively, 3000 metric tons and 312 metric tons) were imported from neighboring countries in 2005/2006. This does not account for frozen meat imported by supermarkets in Monrovia which is populated with third or more of the country total populace.

The livestock sector is labor intensive, but the value chains offer a potential source for pro-poor growth and import substitution. The consumption of animal products in the country is increasing with income, providing new income-earning opportunities for large numbers of the rural poor. Integrated livestock and crop production is also a more sustainable farming practice, and one of the best options for diversifying agricultural production.

Issues and Constraints

- Livestock regulation is characterized largely by out-dated legislations (regulation and operational rules) and there is absence of adequate policy measures to boost the sector, help monitor, and coordinate various activities, and promote effective reduction of environmental, animal and human health threats;
• While Liberia is still dealing largely with out-dated legislation, sector regulation at the regional and international levels is rapidly changing, restricting the country from applying the modern technical and zoo-sanitary standards that ensure safety and quality;

• The weak institutional capacities for planning and extension make it difficult to disseminate information and provide adequate service delivery. Thus little is known of the incidence of animal diseases in Liberia and only few resources are available to support public awareness efforts in animal health and food safety issues;

• Other limitations to the development of sector include weak livestock farmers’ knowledge and skills, a lack of adequate infrastructure (Abattoirs, Cold chains for product development, slaughtering, storage, and distribution of livestock products) useful for processing and marketing livestock products and market information;

• Absence of credit facilities to acquire breeding stocks and other necessary inputs is slowing down expected and desired rapid growth in the livestock sector;

• Like the veterinary services and laboratories, technology transfer centers such as the seven ranches totaling more than 2,025 ha are dilapidated and presently not functioning. As such, transboundary animal diseases and zoo-sanitary inspectorate charged with import and export control of animal and animal products does not currently operate properly;

• Land tenure system, and water and pasture resources lack proper arrangements to allocate land, provide ownership of grazing areas or to allow access and usage according to traditional or legal procedure;

• Wide spread shifting cultivation frequently changes livestock grazing areas into crop land. Thus the migration of livestock farmers may become difficult, becoming a limiting factor to sector expansion; and

• A low genetic potential of livestock coupled with limited supply of livestock has led to poor production in the livestock industry.

• Although major disease outbreaks have not been reported in recent years, it is recognized that livestock diseases are among the constraints that present a big challenge to the development the livestock industry.

Despite the numerous constraints, opportunities exist for the sector to increase its contribution to the national economy, to food security and to rural household livelihood. These opportunities, not limited to diverse livestock resources in ECOWAS countries, include a pasture land estimated at least to 2 million hectares, diverse and favorable climate and agro-ecological zones, the potential for domestic markets, relatively low Labour cost and favorable macroeconomic policies in the region. More importantly, many regulatory and institutional reforms are underway.
Policy

- Adequate quantities of competitive (quality, safe and low price), locally produced livestock products (lamb, poultry, beef, other meats and dairy) available and adequate to substitute imports of these commodities by lowering domestic resource costs;

- A revitalized livestock sub-sector and value chains (production, processing, marketing and product development) that contribute significantly to productive employment, especially of women and youth, and improvement of the nutritional status of Liberians;

- A livestock that is restocked sub-sector, especially with small ruminants (sheep and goats, pigs and other commercial small ruminants); and

- Promotion of value addition to enhance access to competitive national and international markets.

Strategies

- Promoting the production of high quality livestock of selected breeds, in intensive and extensive systems (ranching, pastoral and agro-pastoral) with consideration given to the improvement of genetic potential;

- Strengthening technical support services (including the use of appropriate technologies), sensitizing and promoting, the formation of producer and trader associations and developing public-private partnership to improve the management and marketing systems;

- Producing safe and quality livestock products (meat, milk, eggs and other by-products) through adoption of best practices (including the production of quality animal feeds, utilization of locally available raw materials and the establishment of livestock identification, recording and traceability system);

- Creating an enabling environment to support the processing, marketing and consumption of safe and quality livestock products through the collection and dissemination of market information and the establishment of standardized facilities (marketing infrastructures, slaughterhouses, etc.);

- Developing and implementing a medium term Master Plan to improve livestock value chains and using the private sector to increase productivity and competitiveness of selected livestock products;

- Developing and enforcing comprehensive livestock regulations, operational rules and enforcement mechanisms of, including technical standards for safety and quality control of animals and livestock products;

- Strengthening inter-ministerial coordination among the MOA, MOHSL and MCI on their respective roles and responsibilities;

- Designating entry points for livestock entering Liberia that are manned by technically competent personnel;
• Supporting private sector involvement in the development of appropriate infrastructure (feed mills, hatcheries, abattoirs, processing and products development plants) that are functioning and producing competitive products by ensuring appreciable access to credit and other financial and input services;

• Implementing the ECOWAS transhumance protocols and establishing the Livestock Early Warning System (LEWS) for disaster management and impending forage shortage;

• Protecting water catchments areas while constructing and maintaining water sources for livestock;

• Promoting livestock stocking according to land carrying capacity to avoid soils erosion and degradation;

• Providing technical support services on manure and bio-gas production and utilization;

• Promoting private veterinary services delivery and private-public partnership in service delivery;

• Strengthening technical support services on Trans-border Animal Diseases (TAD) control and eradication through the development and strengthening of veterinary laboratory system, infrastructure and facilities for livestock research and linking research, extension, and farmers in a way that values Indigenous Technical Knowledge (ITK);

• Implementing and strengthening zoo-sanitary infrastructures and inspectorate services in harmony with the national and regional policies;

• Creating awareness and promoting research and development (R&D) on biotechnology and bio-safety and bio-gas production; and

• Promoting and strengthening participatory livestock extension services to harmonize service provision and coordinate livestock data collection as part of a comprehensive management information system for the livestock sector.

4.2 Fisheries

The coastline and continental shelf of Liberia provide an area of about 20,000 km² of fishing grounds. Liberia also has approximately 1810.125 km of rivers that transverse the country, and countless perennial swamps and inland water bodies with enormous potential for increased production of inland capture fisheries and aquaculture. Over 80 percent of the population directly depends on fish for animal protein supply.

The sub-sector creates jobs and income for a substantial number of urban and rural inhabitants particularly youth and women. The Government is fully aware of the vast potential of the fisheries sub-sector to make significant contribution to the rehabilitation and recovery of the country’s economy in the short, medium and long-term. Consequently, there is an urgent need to improve fish production, preservation, distribution and marketing through improved fisheries governance guided by principles of the Code of Conduct for Responsible Fisheries (CCFR).
Artisanal Fishery

Artisanal fishery provides a means of livelihood to approximately 33,000 full-time fishers and processors in the coastal counties. Liberian participation is about 80% with females accounting for about 60% (BNF 2004). Artisanal fishery operators are mainly indigenous Kru fishers and their families, and Fanti and Popoe fishers and their families who migrated to Liberia from Benin, Ghana and Cote D’Ivoire. A recent development is the presence of Gambian and Senegalese fishermen in Cape Mount County. Malian and Fulani fishers also operate in inland areas. There are an estimated 3,473 canoes operating in the marine waters of Liberia with only 8% motorized (BNF 2004).

Industrial Fishery

Industrial fishery is a high capital investment undertaking involving fishing trawlers and cold storage facilities. There are currently fourteen (14) fishing companies operating in Liberia: 6 companies are exclusively engaged in the importation of frozen fish from the high seas; and 8 companies are engaged in fish catching activities, operating 27 fishing vessels with a combined Gross Registered Tonnage (GRT) of approximately 4,000 tons. Fishing vessels operating in Liberian waters range in size from 91 GRT Chinese pair trawlers (ice carriers), to 251GRT fishing trawlers with onboard freezing, processing and storage facilities. Industrial fishing vessels land their catches at the fishing pier in the Free Port of Monrovia. The fishing vessels that fish in Liberian waters are required to pay taxes while imported fish are tax exempt. The employment of Liberian nationals in industrial fisheries is estimated at 75%, representing 28% of total employment in the fisheries sub-sector. Foreign nationals presently dominate the industrial fishery; they own all fishing companies and occupy the senior management positions.

Inland Fishery and Aquaculture

Liberia is blessed with six major rivers which flow from the Fouta Djallon Mountains of Guinea. The Lofa, St. Paul, St. John and Cestos Rivers are within the country. The Mano River forms the border with Sierra Leone and the Cavalla River runs along the southern border with Cote d’Ivoire. In total, the country has some 1,800 km of rivers, nearly all of which are shallow, rocky and not navigable. There are also large swamp areas and numerous coastal lagoons, including Lake Piso, one of West Africa’s larger lagoons. The number of people engaged in inland capture fisheries is not known, so is the volume and value of production. However, it is an important seasonal subsistence activity for riverside communities who use mainly traditional fishing gears and traps.

Fish farming in Liberia is largely subsistent. There are about 3,581 fish farmers nationwide engaged in some form of fish culture on part-time basis. 449 ponds of various sizes with a total area of 17.47 hectares are distributed in 159 communities around the country. Most of these ponds have been dormant since 1990 and are now being rehabilitated, although the process of rehabilitation is slow and laborious. The rehabilitation works are providing employment for women and youths (including ex-combatants). Presently, there are 704 women participating in aquaculture.

Issues and Constraints

- Weak institutional capacities for planning, advice, regulation and monitoring (e.g. unclear fishery regulations and rules of operation; low capacity at the Bureau of National Fisheries; non operational Monitoring, Control and Surveillance system);
• Lack of basic fisheries infrastructure; no fisheries harbors to facilitate discharge of cargo and supply of essential commodities, refueling, trans-shipment and for dry-docking; very limited or costly facilities for storage, processing and handling;

• High operational costs and low volume, low quality products from artisanal fisheries (Primitive fish processing methods limited mainly to fish smoking; high costs of fishing inputs and lack of a credit scheme; few motorized boats and low output fishing gears; interference from illegal industrial fishing fleet);

• Highly subsistence agriculture that needs to be commercialized level;

• Large presence of illegal fishing entities in Liberia’s EEZ engaged in illicit fishing and transshipments of catches on the high seas resulting to gross underreporting; and

• Value chains for fish and fish products remain largely limited to freezing (for industrial fishing), smoking, salting and fermentation for artisanal and aquaculture fishing.

**Policy**

- **Sustainable increase in artisanal fish production with immediate impact on available fish supplies from the sub-sector contributing largely to the demands of the largest number of Liberians, and more particularly enhancing the income generating opportunities of women and young men;**

- **Sustainable increase in fish landings in the country by industrial fisheries operators providing increased fish supplies to the population and contributing to income, revenue, employment and trade in high value markets and product development, through the establishment of infrastructure and enforcement of legislation; and**

- **A well revitalized and developed aquaculture industry characterized by high productivity, ensuring sustainable supplies and affordable quality fish to local and export markets.**

**Strategies**

- Endorsing and implementing the National Fishery Policy and National Fishery Development Plan and building the capacity of the Bureau of National Fisheries to manage implementation of the Policy and Plan;

- Promoting special initiatives and actions that will increase fish supplies by continuing to increase availability of special kits/fishing gear and outboard motors to artisanal fisheries groups; facilitating access to improved and secured fish landing areas, and processing facilities including cold storage; and credit, training and other support services for those engaged in artisanal fishing and aquaculture;

- Establishing, in partnership with the private sector, a number of Community Fisheries Centres (CFC’s) with requisite infrastructure including ice plants, chilling and cold storage facilities, fish boxes, fish processing areas, storage facilities for processed products, mechanical workshops, boat building areas, individual lockers for safe keeping of fishing equipments, insulated/refrigerated vehicles for fish distribution and marketing;
• Promoting cooperation within and among (artisanal) fishing communities to help secure economies of scale and ensure their access to essential resources, proper utilization and management of basic fisheries infrastructures, and taking advantage of opportunities being made available in the sub sector;

• Supporting the establishment of a fishing port for fishing companies that would have appropriate handling and processing facilities that are consistent with international standards;

• Taking special actions through relevant state agencies to ensure strict enforcement of fisheries regulations; and

• Reviewing the situation of aquaculture and developing a recovery plan for the sub-sector that would produce synergies with irrigation and farming, as well as protecting the aquatic environment;

• Supporting the establishment of a reliable information and data base on the sub-sector’s potential and areas for investment;

• Putting into place an effective Monitoring, Control and Surveillance system to secure the country’s coastal waters;

• Adopting the FAO Code of Conduct for Responsible Fisheries (CCRF), and incorporating some of the provisions of the Code into a national fisheries legislation;

• Establishing a National Fisheries Commission and a National Fisheries Development Fund.

4.3 Forestry

The forest area covers 4.3 million hectares (ha) or 45% of the total land area (9.58 million ha) and accounts for the largest remnant of the Upper Guinea forest of West Africa. The contribution of forestry to GDP, which was only 5 to 6% before the 1990s, soared to over 20% in the early 2000s. It declined with the UN ban on timber exports. Liberia’s recently established National Forest Policy lays out guidelines and principles in three pillars: Commercial, Community and Conservation forestry (referred to as the 3 C’s). Sustainable commercial forestry generates employment, foreign exchange and government revenue, while community forestry focuses more on the economic, social and cultural values of forests to people who live in and on the fringes of forest areas. Forest conservation, biodiversity conservation, maintenance of other environmental functions of forests (e.g. soil and water protection) and protection of specific forest areas (e.g. parks and wild life sanctuaries) ensures sustainability of Liberia’s forestry resources.

The Food and Agriculture Policy and Strategy will complement and reinforce the new National Forestry Policy as in a synergistic manner towards the effective management and sustainability of Liberia’s forest resources.
Issues and Constraints

- Integrating the 3 C’s through land use planning and improved land tenure arrangements to eliminate the legal uncertainty for logging and tenure, and unclear and overlapping concessions;

- Establishment of the rule of law to ensure that commercial forestry, community forestry and forest conservation activities are integrated and balanced to optimize economic, social and environmental benefits from the forest resources, and

- Ensuring an equitable distribution of forest resources and benefits from forest development to help maintain peace and serve as a major contributor to the national development goals of poverty reduction alleviation and increased food security by increasing opportunities for forest-based income generating activities.

Policy

- Managing all forest areas in a manner that will continuously provide a wide range of goods and services for the benefit of all Liberians and contribute to poverty alleviation of the nation, while conforming to environmental best practices.

- Continuing commitment of Government to international agreements and conventions and to designating 30% (1.5 million Ha.) of the forest area of Liberia for conservation.

Strategies

- Linking agriculture and the forestry sectors for sustainable development of both crops and timber products.

- Ensuring that activities in the forestry sector (including forest management, plantation development, harvesting, conservation and industrial development) are based on sound scientific and technical principles to satisfy environmental and other demands;

- Granting more equitable access to forest resources so that the potential for future conflict is reduced and the benefits from forestry development are shared throughout Liberia; and

- Ensuring that policy options to reduce emissions from deforestation and forest degradation and their associated benefits do not compromise economic and cultural values in the food and agriculture sector.
Support Services and Market Access

One of the priorities of the FAPS is improvement of the quality and efficiency of support services provided to smallholders, commercial farmers, processors, and agribusiness operators. The current low level of productivity is caused by, among other factors, inadequate application of high output technologies and proven best practices. From past experiences in the country and success stories in other countries of the sub-region, revitalizing the sector and modernizing it will require far-reaching reforms of support services, markets, agribusiness and trade.

5.1 Extension and Advisory Services

Small farmers in Liberia live largely in isolated villages with negligible facilities to receive updated information on agriculture and rural development, and many are illiterate. An extension service system is necessary to disseminate, in such rural settings, new technologies, innovations and information. Recent extension approaches such as agricultural advisory services and the Farmers Field School (FFS) have facilitated greatly farmers’ involvement and public-private partnerships in ensuring that technology dissemination is demand-driven, client-oriented, and farmer-led.

Issues and Constraints

- Agricultural extension services in the past have been centrally controlled and supply-driven with little attention to local knowledge, demands and participation;
- Shortage of staff, inadequate funding and lack of new technologies have limited the scope and impact of extension activities;
- Lack of market, high post harvest losses, high cost of inputs, lack of value addition and the lack of access to suitable land have undermined the effectiveness of extension;
- NGOs provide extension services but these are largely limited to the distribution of seeds and hand tools, with little or no contribution to building the capacities of beneficiaries;
- Private sector involvement in extension has always been minimal;
- Inadequate capacity of farmer organizations limit the extent to which such organizations could be used in reaching farmers, especially women farmers, with technical assistance and services; and
- Negligible involvement of commercial entities in extension services
**Strategies**

- Conducting CORE Functions analysis of current extension and support services and designing and implementing a National Agricultural Extension Project (NAEP) with the participation of all categories of farmers, other users, and all providers of extension services;

- Developing a national extension strategy

- Building capacities of Farmer-Based Organizations (FBO) and Community-Based Organizations (CBOs) to seek services from both private and public sector service providers and developing their capacities for cost recovery or cost-sharing of extension services;

- Promoting the establishment of private Agricultural Advisory Service providers so that such services are provided on competitive outsourcing basis;

- Supporting and promoting agri-business consultancy and technical services; and

- Supporting the establishment of Information Centers at strategic locations across the country with the necessary information and communication gadgets in order to provide global information to farmers on a demand basis.

**5.2 Agricultural Education and Training**

Agricultural education and training are required to bridge the knowledge and skills gaps in the sector, prepare a critical mass of educated, well-trained men and women working in the sector, and enable farmers cope with the changing demand of domestic, regional and international markets. Good agricultural education systems are necessary to build effective capacities to formulate and manage agricultural development programs, provide sound advisory services, and undertake relevant research and extension activities.
Issues and Constraints

- Most agricultural professionals left the country during the war years, leaving major gaps in capacities to transfer knowledge and skills in the sector;

- There is a critical shortage in the quality and range of specialization of human resources;

- Agricultural education receives a low priority and this has limited enrolment in agricultural colleges and departments. There is also a serious lack of coordination of training programs at all levels;

- Extension workers have limited skills and capacities for sustained crop production and prevention of food losses during harvest, storage, marketing and processing;

- High illiteracy rates in rural areas (75% in 2000); farmers and farmer organizations lack basic knowledge and skills in land and water management, utilization of modern inputs, agri-business, food preservation, marketing; and limited awareness about social, political and legal institutions

Policy

- Continuous production of high quality manpower in agriculture to support extension, research and training needs of the country, utilization of technologies and to spur the agribusiness sector; and

- Greater awareness and enhanced capacities of clients and agents in the agriculture sector, especially small holders, to obtain and manage information and to operate efficiently in a competitive environment.

Strategies

- Carrying out, on a periodic basis, detailed assessment of the needs and requirements for trained human resources in the sector and support services; consulting with relevant partners in human resources development, coordinating with others for the development and implementation of curricula in all training institutions;

- Developing a cross-section Human Resources Development strategy;

- Designing and implementing, in partnership with universities and colleges, Special Training Programs for extension agents, farmers, youths, women, returnees, internally displaced persons, ex-combatants, leaders of women and farmers organizations;

- Scaling-up and replicating the Tumutu and Sinoe Agricultural training programs and the Centre Songhai Liberia Initiatives;
• Designing and implementing a **special awareness program** to create awareness about business opportunities and promoting agriculture as a career to college/university students, school drop-outs and the general public;

• Encouraging and supporting universities to initiate graduate and post graduate training in agricultural disciplines;

• Encouraging hands-on/practical agricultural training programs in all learning institutions; and

• Encouraging and promoting the establishment of school and community libraries throughout the country to facilitate continuous learning and keeping abreast with current issues of the sector.

5.3 **Agricultural Research**

African countries are revising their approaches to agricultural research to participatory, demand driven systems, with the aim of combining farmers' indigenous traditional knowledge (ITK) with the more widely recognized expertise of the agricultural research community. The approach also allows for the active involvement of farmers or users in setting research agenda, implementing trials and analyzing findings and results. The trend towards this approach has been influenced by the emerging involvement of non-government organizations and the private sector in agricultural technology development.

**Issues and Constraints**

• Liberia’s agricultural research system, formerly dominated by the public sector, was severely disrupted and terminated by the war, and is now being revived;

• Agriculture research is carried out by multiple public and private sector and civil society organizations among which the Central Agricultural Research Institute is predominant. Regrettably, these activities are not coordinated;

• Smallholders have not benefited from research mainly because the service is supply driven and limited in scope, and not seen to directly respond to the production problems of farmers;

• There are no clear organizational frameworks or institutional mechanisms (e.g. competitive grant systems) to encourage cost effectiveness and inter-agency partnerships in research, nor is there a formal mechanism to bring together researchers, extension agents, producers, processors, policy makers and the private sector;

• There are no clearly defined and well-thought out programs for agricultural research; and

• NGOs have some potential but currently contribute little or nothing to research efforts.
Strategies

- Establishing a Natural Agricultural Innovations System (NAIS) to provide responsive, pluralistic, effective and efficient agricultural development related research and extensive services

- Adopting a strategic vision for a rebuilt agricultural research service, a component of NAIS, and its integral organizations including CARI, guided by the need to strengthen demand for services, improve quality of service and assure service sustainability;

- Establishing appropriate legal and governance framework to provide efficiency and flexibility in managing human, physical and human resources and to ensure accountability to client, funders and other stakeholders;

- Establishing linkages with other internal and external research providers, clients, technology transfer agencies and developmental organizations;

- Developing a national agricultural research strategy to guide research activities including adaptive research; and

- Implementing the CARI rehabilitation strategy which comprises inceptual undertaking, capacity building and expansion and strengthening of linkages

5.4 Production Services

5.4.1 Seed and Fertilizer Availability

There is documented evidence that fertilizer-responsive high yielding varieties (HYVs) in combination with fertilizers are the main Green Revolution technologies behind the dramatic increase in production and productivity in many Asian countries.
Issues and Constraints

- Scarcity in availability and limitation in provision of seeds and fertilizers to farmers;
- Lack of a seed certification service, private or public seed producing and distributing firm, and seed legislation or policy;
- Although small quantities of fertilizers are imported by cross-border traders, the cost of fertilizers is beyond the reach of the small farmer; and
- Ineffective demand (because farmers do not perceive a commercial advantage in the use of this expensive input) has constrained development of the fertilizer market.

Policy

- Smallholders have adequate access to affordable and high quality improved seeds, planting materials and breeding livestock, fertilizers and agricultural chemicals;
- A competitive and well regulated distribution network of essential inputs, particularly seeds and fertilizers, is established and operated by private sector.

Strategies

- Supporting MOA and CARI to formulate a planting materials strategy and to develop and implement Planting Materials Production Program (PMDP) in collaboration with the private sector, NGOs and CBOs to supply available seeds and tuber cuttings to farmers;
- Reviewing, updating, establishing and widely disseminating information on regulatory and institutional frameworks for commercial seed production and distribution as well as fertilizer importation and distribution;
- Designing and implementing, with the involvement of appropriate stakeholders, a program to support farmer organizations, private sector and NGOs, to produce and distribute improved seeds such as the NERICAs;
- Supporting and promoting, through existing and planned food production programs, farmer-to-farmer seed multiplication and seed delivery systems;
- Establishing measures and arrangements for seed producing and distributing entities to accelerate pre-released seed multiplication of promising varieties;
- Mobilizing necessary support (public and private sectors and development partners) to establish appropriate laboratories and systems for seed testing, seed certification, and soil testing in the country;
- Assisting larger private companies with experience to import and distribute fertilizer and other chemicals;
• Introducing targeted subsidy programs to promote the use of improved seeds and fertilizers and implementing the program without undermining private sector activities;

• Supporting duty free import of seeds, fertilizers and pest disease management inputs; and.

• Ensuring the utilization of organic fertilizers and environmentally friendly pesticides.

5.4.2 Integrated Pest & Disease Management (IPDM)

Pest is any form of plant or animal life or any pathogenic organism that is injurious or potentially injurious to plants, products, livestock or people. Pests include insects and other arthropods (mites and ticks), nematodes, fungi, bacteria, viruses, weeds and vertebrates.

Pre- and post-harvest crop losses due to pests and diseases are estimated at 40 to 50%. Most farmers depend on mechanical and physical control actions while some, including urban and peri-urban farmers, depend on chemicals. Rising prices of chemicals for pests and disease management, and increasing demand for organic foods have raised the need for non-chemical alternatives in agricultural production. In this regard, the Integrated Pest and Disease Management (IPDM) system is increasingly being adopted in a wide range of farming systems and agro-climatic zone because of its advantages to reduce costs and hazards from use of chemical agents.

Issues and Constraints

• Damaged animal tissue and disease transmission by pests have led to disruption in crop/livestock growth and development and therefore reduced yield and product quality resulting in economic losses which must be minimized in a cost effective, sustainable, and environmentally sound manner.

• The Ministry does not have a Plant Protection Unit to manage and regulate the use and application of improved technologies on plant protection in the country;

• The lack of a database on injurious pests and control measures to assist farmers in their control of crop pests;

• There is less information available on non-chemical pest management than those of chemical pest controls; and

• Prevailing costs of agric-chemicals are high, leaving a perception by small holders and some medium scale farmers that return from their investments may not be profitable.

Policy

• IPDM applied widely in all farming communities in the country;

• Health and environmental problems arising from use of agricultural chemicals are closely monitored and reduced to safe levels; and

• Integrated application of pest control methods, while using pesticides only on a needed basis, and as a last resort component of an IPDM strategy.
Strategies

- Formulating a National Plant Protection Policy that will incorporate plant quarantine and Integrated Pest Management (research, education, training, extension, sustainable funding);

- Developing a National Pesticide Policy (local formulation/manufacturing, importation, distribution, use and disposal of unwanted/unused products);

- Establishing functional plant protection unit in the MOA that will conduct detailed pest survey and crop loss assessment in order to determine priority pests for attention.

- Implementing farmers’ training in Good Agricultural Practices (GAP) that will include the use of improved varieties and livestock (seed/planting materials, livestock breeds) and adoption of better planting patterns and techniques.

- Ensuring that mechanisms are established for sensitization and awareness of the public and compliance and enforcement of the code of conduct on distribution and use of pesticides, especially regulations on pesticides;

- Adopting IPDM as a national strategy and providing institutional back-up to research and extension services; and

- Developing pest and disease management components and IPDM strategies for major farming enterprises.

5.4.3 Agricultural Mechanization

The main power source for agricultural operations in nearly all the production areas in Liberia is labor intensive using simple hand tools. But agricultural operations from land preparation to post harvest or value addition can be supported by mechanization, with resulting benefits of reduction in drudgery and increase in labor productivity. Simple equipment such as power tillers; corn harvesters, mechanized cassava graters, mechanized cereal and coffee hullers, and oil palm mills have been proven to have a significant impact on production, productivity and competitiveness.

Issues and Constraints

- Labor available for agricultural production is declining and technology has not improved beyond the hoe and cutlass to make the necessary substitution;

- Farm machines and equipment suitable to local conditions are lacking;
• High cost of farm machinery and rising fuel price, low purchasing power of farmers, and small farm sizes and fragmented plots have constrained the use of farm power;

• There are no guidelines for use of mechanical cultivation or processing in the agriculture sector;

• There is no unit at MOA with oversight responsibility for policy, planning, coordination and monitoring of agricultural mechanization; and

• Available machines are inefficiently utilized due to lack of skills, importation of inappropriate brands, lack of standardization and ready availability of spare parts, and acute shortage of trained personnel to provide repair and routine maintenance services.

**Policy**

- *Adopted cost-recovery use of small-medium scale mechanization technologies, particularly by small holders in order to increase productivity and competitiveness, while conserving natural resources; and*

- *Widespread use of appropriate mechanization technologies throughout the value chains of selected cash and food crop commodities in order to transform the sector and the rural economy from a low output traditional base to a modern economy linked to markets.*

**Strategies**

• Formulating an agricultural mechanization strategy;

• Establishing an **Agricultural Engineering Unit (Mechanical and Civil) at MOA** to encourage and support the private sector, cooperatives and other farmer organizations with mechanization services;

• Supporting local tools and equipment fabrication to ensure accessibility and affordability;

• Facilitating the establishment of mechanization services provision centers, machinery hire-purchase and lease schemes in collaboration with the private sector, especially county-based individuals and financial institutions;

• Encouraging and providing support to farmer organizations and private sector entities that are providing and using small scale mechanization in the agriculture supply chain (production, processing, value addition, product development);

• Supporting private sector workshops that provide mechanization services to producers cultivating lowlands with power tillers; and

• Facilitating public-private partnerships to promote mechanization in the sector.
5.5 Rural Financial Services

The target groups of the pro-poor approach (small holders, diverse input dealers/suppliers, processors, transporters, storage/inventory warehousing operators and distributors) do not have capacities to invest in best practices in their vocations. Access to rural finance is critical to enable them secure the resources necessary to increase productivity and competitiveness in their enterprises and take advantage of opportunities in the value chains of selected commodities. Varying mechanisms of making financial services available to these groups in the sector have not been successful in the past for a variety of reasons, some from improper unproductive interventions by the public sector. Most credit available to farmers, if any, originates from informal intermediaries whose pre-financing is characterized by prohibitive interest rates.

Issues and Constraints

- With the demise of the Agricultural Cooperative Development Bank (ACDB) and the limited rural reach of existing private banks, the rural community has no access to formal credit;
- The ACDB failed to serve smallholders and was operating at huge losses even before its collapse;
- There are only two well-established micro-finance institutions (MFIs), a few other fledging MFIs, and a small number of rural credit unions;
- There is no overall institutional framework to foster MFIs, credit unions and cooperative banks;
- The apex body, the Liberia Credit Union National Association (LCUNA) is weak and works exclusively with a dozen older and larger urban credit unions who have very few operators in the sector;
- Semi-formal organizations such as credit unions and cooperatives have limited coverage and are dependent on formal sector banking, which is not available in rural areas;
- Revolving funds (Susu) are used to finance the purchase of farm tools and equipment for those with retained earnings but they may not be an appropriate and reliable credit product for many agricultural operations which require working capital on an annual basis.

Policy

Ensuring that initiatives providing financial services and products, particularly credit and savings, are available and accessible to every category of agents in the sector.

Strategies

- Supporting the review of banking regulations, conditions for providing loans to the agriculture sector, and related legislations in order to inject some level of liberalization, incentives and guarantees that will encourage commercial banking institutions to play greater roles in enhancing agricultural development, supporting agribusiness sectors, using instruments such as reduction in secondary reserve requirements and tax rebates;
• Supporting and strengthening the expansion of membership-based financial organizations, rural banks and grassroots micro-finance institutions, and promoting linkages between formal and informal financial services;

• Supporting and promoting a Credit Guarantee Scheme for rural credit (public or public-private partnership) and exploring and determining the appropriateness and practicalities of financial institutions providing insurance service; and

• Advocating for and supporting the review and reassignment of roles to existing financial institutions such as the ACBD, LINFU, LCUNA and CDA to enable them complement efforts of targeted commercial banks in micro-finance programs to small and subsistence producers in the sector.

5.6 Agribusiness and Market Development

Access to markets is one of the major prerequisites to stimulate and underpin the transition from low-production subsistence farming to high-productivity commercial production. Further economic benefits are realized when complementarities and inter-dependence between agriculture and agribusiness are forged through promoting forward and backward linkages. In view of the limited size of the domestic market, Liberia should also take advantage of the opportunities presented by regional and international markets to achieve significant growth in the sector through agri-business.

Issues and Constraints

• Heavy presence of parastatals in the value chain operations of cash crops prior to the war, and destruction of infrastructure (roads, railways and physical market places) have all resulted in widespread market failures as reflected in high transportation and transaction costs, and low competition of the value chains;

• Only a handful of medium-scale produce buyers exist, and they lack either the financial capacity and/or necessary transport facilities to buy larger quantities of farmers’ produce. The few large buyers are prevented from participating in transportation services by prevailing legislations;

• Over seventy five percent of the villages in producing areas are not accessible by vehicles and many other areas become inaccessible during the rainy season;

• Inadequate storage facilities, coupled with poor handling and poor post-harvest technologies make post-harvest losses (excluding pre-harvest losses) exceptionally high for many farmers; for rice and cassava, losses amount to about 25% of production and as much as 45% in vegetables;

• Because of bad roads and insufficient number of produce traders, considerable informal cross-border trade exists between Liberia and neighboring countries to the detriment of small producers; and

• The Liberia Market Association (LMA) which was established as a semi-autonomous government institution with the mandate to manage markets has generally failed to meet its obligations despite extracting fees from traders.
**Strategies**

(a) Markets

- Promoting the establishment of *Agricultural Information Service* (MOA and NGO) that uses local FM Radios, mobile phones and the Internet, and links the national system with sub-regional (MRU) and regional (ECOWAS) market information system;

- Establishing mechanisms within the MOA for market research and for strengthening linkages between and among stakeholders, Market Associations, Farmer Associations, NGOs and Extension Services;

- Supporting the rehabilitation of market places and construction of commercially based storages such as warehouse receipt systems;

- Assisting small producers to link with established markets through the involvement of agricultural extension services, NGOs and farmer associations, dialogues and partnerships between and among such enterprises;

- Assisting in building the capacities of existing marketing associations (LMA, LiMFU, Rubber Planters Association, Coffee & Cocoa Association, etc.) and cooperatives;

- Supporting small holder groups for greater participation and competition in the market place by taking actions to improve their access to finance and insurance markets, and building the skills of traders and cooperatives in business management;

- Forging partnerships between marketing boards (government owned) and private sector entities but retaining price guarantee arrangements;

- Encouraging and facilitating insurance companies to offer agricultural insurance products including crop insurance schemes, against physical loss or damage and price decreases; and

- Supporting the introduction of standards for quantifying and grading products, and facilitating the small farmers to adopt the standards and measures.

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**Policy**

*Ensure a stable enabling environment that guarantees: (i) producers have market access and face minimum market and price risks; (ii) the agribusiness sub sector is developing in effectiveness and scope, creating jobs for the rural population, reducing post-harvest losses, and improving the competitiveness of commodities in quality and price; and (iii) there is improved and official access of Liberian goods and services to regional and international markets*
(b) Agribusiness

- Undertaking a study to inform the Government on appropriate incentives to promote the establishment of agro-industries in the rural areas, and facilitating actions that will ensure a dynamic agribusiness climate in Liberia;

- Advocating for increased investment in the energy sector to ensure lower processing costs in agro-industries;

- Promoting partnerships between and among agribusiness and smallholder farmers and their organizations, and assisting larger processing firms to establish appropriate partnerships with small holders’ supply oriented enterprises; and

- Encouraging universities to initiate training and specialization in agribusiness.

c) External Trade

- Undertaking an initial study of the export sub-sector; carrying out periodic reviews including the various trade protocols and agreements that Liberia is signatory to and holding consultations with private sector interests in the agriculture export sub-sector to inform the Government on appropriate incentives and policy measures necessary to increase the performance of the sub-sector;

- Undertaking a study to assess the comparative advantage and the potential of an export market for agricultural products from Liberia;

- Promoting greater use of indigenous agricultural products and foods produced by local producers with a view to increasing their competitiveness against cheap imported counterpart products;

- Initiating trade negotiations to ensure Liberia’s membership in various regional and international trade arrangements;

- Taking steps to formalize and regulate cross-border trade in accordance with existing sub-regional inter-governmental protocols; and

- Harmonizing pricing policy within the Mano River Union (MRU) and establishing a MRU Food Security Hub in Monrovia to coordinate sub region-wide interventions.

5.7 Rural Infrastructure

Infrastructure such as roads, market structures, handling, processing, storage facilities, irrigation systems, water supplies and communications networks are essential to stimulate increased production and productivity, and enhance the competitiveness of the sector.
Issues and Constraints

- The road network is generally limited and poor; during the rainy season most roads are get flooded or bridges are destroyed and as such many production areas are cut off from trunk roads and markets;

- Only about 4.6 % of Liberian villages have access to functional markets;

- Access to and movement from market places is cumbersome and disorganized; a great amount of portage is required to carry the goods from trucks to stalls, thus increasing market costs is contributing to produce damage due to multiple handling; transport costs are relatively very high, discouraging the small holders to carry their wares to high value markets;

- Absence of large storage facilities in production or assembly areas causes many farmers to produce less for fear of losing their produce to pests, theft or weather damage, and eventual reduction in quality for perishables;

- Physical markets for farm produce are characterized by decrepit infrastructure, lack of suitable commodity specific storage facilities, unhygienic premises and over-crowding; and

- Infrastructure for landing and hygienic handling of fish form artisanal fisheries and storage at the landing sites are negligible to non-existent. In addition, supplies of hatcheries for poultry and structures for aquaculture services are non-existent.

Policy

Rehabilitated, reconstructed and re-commissioned rural infrastructure for the revitalization of production, raising of productivity levels and increasing sector competitiveness, with focus on roads, handling and storage, processing, (crop livestock and fish), irrigation, and hatcheries (livestock and fish).

Strategies

- Developing a rural infrastructure development strategy focusing on post harvest, irrigation and roads, water supply and communication;

- Advocating for, mobilizing and securing support from government, donors, and the private sector and community funds, and promote investment (public/private sector partnerships, private investors) in key infrastructure that will provide quick impact in increased production, productivity and competitiveness of the agriculture sector, focusing on trunk roads, handling and storage, processing, proper market facilities, hatcheries, and fish landing sites;

- Advocating and supporting the allocation of adequate special budgetary resources at national and county levels in support of the construction and/or upgrading and maintenance of feeder roads, farm-to-market roads and communal storage facilities, with full participation of the communities;
• Encouraging the full participation of beneficiary communities in the identification, initiation and implementation of infrastructural development projects, and in the maintenance of these facilities;

• Facilitating the provision of irrigation, processing & storage facilities in selected areas of high production in the country; and

• Supporting allocation of adequate resources for the construction of portable water facilities for rural areas, adequate markets, educational and health, banking, agro-processing and recreational facilities.

5.8 Food Safety and Quality Control

Protection of human safety in food markets, particularly in developing countries such as Liberia, is a challenge that must be addressed through internationally recognized health and food safety systems. Such systems ensure: (a) consumers are informed and protected from the risk of food borne illnesses; (b) foods and feeds produced, handled, stored, processed and distributed are safe, wholesome and fit for consumption; and (c) conformity to safety and quality requirements; and (d) labeling and providing truthful and reliable information.

Issues and Constraints

• Poor hygiene and inappropriate food and livestock feed handling and storage facilities and structures contributing not only to spoilage but also to poor quality foods posing serious health risks (such as diarrhea and cholera);

• Limited public awareness about food safety and quality;

• High risk of contamination of vegetables produced in urban and peri-urban areas;

• Food is cooked and served in the streets and in many premises with no clean water and proper sanitation services;

• Safety and quality standards and laws and regulations that deal with safety throughout the food value chain are inadequate and in many ways lack conformity with current international standards and guidelines;

• Inadequate human and institutional capacity to ensure food safety and quality and enforce standards;

• Inadequate laboratory facilities for testing of food quality and safety;

• Limited capacities to handle emerging safety issues such as avian influenza; and

• Use of contaminated water in many areas to handle agricultural perishable produce directly, increasing the risk of water borne diseases.
### Strategies

- Developing human and physical capacities in the MOA and relevant Ministries and Agencies to handle, monitor, regulate and enforce food safety and quality, including compliance with SPS standards;

- Promoting proper storage and handling to control food-related disease outbreaks;

- Supporting and promoting programmes for public awareness on food safety and quality, and appropriate labeling of foods or such measures necessary to indicate their nutritional content and safety;

- Supporting a review/revision and harmonization of existing regulatory, legislation and institutional frameworks or policy instruments in order to establish improved guidelines, ensure effective coordination and enforcement of food safety and quality control in country and at border entry points. The revision will take into account international standards and guidelines, including the Hazard Analysis Critical Control Point (HACCP);

- Promoting public-private sector partnerships for improved food safety and quality control;

- Promoting in collaboration with relevant public and private agents proper storage and handling of foods to control incidences of food-related disease outbreaks;

- Developing control strategy to respond to the potential devastation from emergence of pandemic diseases such as devastating strain of bird flu; and

- Supporting efforts aimed at formalising and regulating activities of producers and vendors for food safety and quality, safe water and sanitation.

### Policy

- *Continuous heightened awareness and understanding of the link between food and health;*

- *Safer and healthier foods including crops, meat and seafood, especially in highly populated areas; and*

- *Effective and efficient institutional capacities for compliance with SPS and other international quality control standards.*
CROSS-CUTTING ISSUES

Experiences of countries that have succeeded in making food and agriculture sector the bedrock of growth and development show that policies external to the sector are often equally influential in determining the performance of the sector as are sector-specific interventions. These external policies and strategies determine investment flows, market access, inputs quality and accessibility, and the overall environment in which sector growth and development is pursued.

FAPS recognizes the importance of these cross-cutting, external factors. Particularly, it is duly cognizant of the enabling roles of macroeconomic policies, natural resource management issues especially those dealing with land and water, and gender and youth mainstreaming.

6.1 Macroeconomic Environment

The macroeconomic environment consisting of fiscal, monetary and trade stances, will have a decisive influence on achievement of the objectives envisioned for the sector by this policy and strategy, especially because of the following: the pro-poor approach being adopted to support small holders; the need for incentives to involve the private sector; urgency to remove structural constraints in the sector (infrastructure, energy, markets); and the expectations for incentives to attract external investors in the value chains of the sector.

Issue and Constraints

- Untimely and insufficient flow of internal resources to agriculture (i.e. about 5% of total government expenditures per year between 1984 and 1988, and 2% per year since 2003);
- Discriminatory treatment of agriculture by revenue and tax laws that minimize investment incentives and encourage the explicit and implicit taxation of agriculture;
- Irrelevance of monetary policy (i.e. incomplete control of the dual-currency exchange regime) that has contributed to declining agricultural terms of trade;
- Application of export licensing and similar policies to protect the monopolies of state-owned enterprises, thus discouraging competition and private investments;
- Unfavourable treatment at seaports and high transaction and transport costs that discourage imports of strategic farm inputs; and
- Inadequacy of the financial system that has resulted in negligible lending to the sector by established financial institutions (e.g. low percentage of loans; high interest rates; short lending horizon, etc).
**Policy**

- *An enabling macroeconomic environment that supports pro-poor policy measures during the implementation of the policy and strategy;*

- *Increased government expenditure in agriculture, (fulfilling the Maputo Declaration of at least 10% annual budgetary support to the sector) and resources allocated to remove structural constraints in the economy that have serious effects on the agriculture sector, particularly infrastructure (roads, energy), education and health;*

- *A well-functioning private sector committed to agriculture; and*

- *Equitable attention to the rights of and support to small producers as are accorded to others.*

**Strategies**

- Preparing annual and special plans for budget support to the sector;

- Providing tax incentives to increase returns from investments in commodities, value chains and other support services for agricultural development, and ensuring that Liberian and foreign investors are treated equally;

- Ensuring the allocation of 10% or more of the national budget for each fiscal year to agriculture;

- Supporting and promoting exports and competitiveness of locally produced food commodities in order to substitute for strategic food imports;

- Providing smallholders with access to appropriate rural financing (e.g. via savings and credit cooperatives, concessionary interest rates at commercial financial institutions);

- Boosting prospects for import substitution and poverty reduction by targeting selected subsidies to small holders;

- Installing risk mitigation systems appropriate for promoting smallholder farmer development, including weather insurance for rural financing facilities and debt cancellation through reinsurance schemes;

- Collaborating with appropriate Ministries and other relevant agencies to promote access to regional and international markets;

- Supporting the provision of investment incentives to agriculture (crops, fisheries and livestock) that equal or exceed those offered to other sectors (‘most favoured sector’);

- Supporting the provision of adequate incentives for the private sector to invest and make farm inputs available, affordable and accessible; and

- Enrolling agricultural concessions and related activities in the Liberia Extractive Industries Transparency Initiative (EITI).
6.2 Land, Water and Environment

6.2.1 Access to Land and Tenure Security

Improving access to land, ensuring security of tenure, protecting land and recognizing property rights are critical for sustainable and pro-poor growth in agriculture. If property rights remain ignored and insecure, and land administration remains weak, promoting dynamic, sustainable and inclusive agricultural development could be severely affected.

Issues and Constraints

- There is no comprehensive policy on the acquisition of land for agricultural purposes;
- Lack of a registry of land (deed holders) or lack of systematic records system to determine the true owners of land due to theft of deeds during the war (particularly from the National Archives) has resulted in high ambiguity over land ownership;
- Most land holdings lack formal deeds although the proportion of households with (somewhat) secure title is greater in more intensive agricultural areas;
- Squatting is common in those areas that received a large number of IDPs, while leasing arrangements are rare;
- Rented/leased and borrowed holdings serve as disincentive to invest in agricultural land;
- There is a profound lack of confidence among smallholders regarding customary courts and their ability to fairly adjudicate land issues. This has led to an increase in ‘trial by ordeal’ for many issues including land conflicts;
- The Tribal Reserve Law has not been respected, complicating the ability of MOA to manage agricultural efforts in the tribal areas. Tribal land is often claimed by outsiders, with the resulting disenfranchisement causing significant problems;
- Increasing coincidence of land conflicts along existing ethnographic fissures is a major concern;
- There is some indication that the war and the current land situation have aggravated a religious divide in some parts of the country; and
- Women have less access to land.

Policy

A land tenure system that is acceptable to all stakeholders, ensuring access, security, and sustainable use of land; promoting sustainable environmental protection; and facilitating private sector led development of the agricultural sector.
Strategies

- Supporting the establishment of a land registry and cadastre system to promote economic land utilisation;

- Contributing to land reform measures that give farmers access to and security in the use of land; discourage land holdings for speculative purposes through taxes and other administrative measures; give special consideration to the needs of women and other disadvantaged groups; and promote economic efficiency, equity and poverty reduction;

- Advocating for, and supporting the establishment of a high level body to investigate the issues and make recommendations on land tenure that will accommodate the demands of commercial agriculture;

- Supporting decentralization of acquisition of title deeds and empowering traditional leaders to play a role in the process of land acquisition in areas of their jurisdiction;

- Strengthening the capacities of poor farmers, especially women, to claim and defend land rights through legally accountable institutions and systems;

- Promoting land use policy (demarcating land for national reserve, agriculture, forestry, industry, and wetland); and

- Advocating for, and providing support to the promulgation of soil conservation legislation that will enhance sustainable land use.

6.2.2 Water Resources Development

Liberia is endowed with abundant water resources, but their proper management and planning remain crucial to reducing conflicts between competitive uses in meeting national priorities and goals. Effective water resource management, including expansion of small and large scale irrigated agriculture, is one of the four pillars of the Comprehensive Africa Agriculture Development Program (CAADP) of the New Partnership for Africa’s Development (NEPAD).

Issues and Constraints

- Only about 1,000 ha (less than 0.2%) of the irrigation potential is currently utilized;

- Negligible data and information on water management for crops, boreholes and yields, water quality for surface and ground water; and low priority of water resources research probably because of abundance of water resources in the country;

- Swamp water management is tedious and makes extra demand on farmers’ resources and energy;

- Lack of comprehensive legal framework governing water resources with no statutory regulations on water ownership, control and use;
• Severe shortage of adequately trained water resources practitioners and weak capacities to develop human resources for agricultural land and water issues;

• Oversight responsibilities for water activities are fragmented and in different ministries and institutions;

• General lack of recognition for close inter-relationship between livelihood strategies, agriculture and the environment; human encroachment on ecosystems of coastal lagoons, estuaries, deltas and mangroves is widespread;

• Indiscriminate disposal of wastes into water bodies, leading to pollution of water resources; and

• Poor state of hydro-meteorological and hydrological networks in the country.

**Policy**

- An established operational legal and institutional framework ensuring efficient development, utilization, management, monitoring and conservation of the water resources of the country for agriculture.

**Strategies**

- Establishing a Unit in the MOA and building human and physical capacities in land, irrigation and water resources development in order to enable it carry out oversight responsibilities for planning, coordination and monitoring of this sub-sector’s activities;

- Developing and implementing a medium term National Water Resource Strategy (NWRS) in order to ensure integrated water resources use and management to meet urgent national needs in the food and agriculture sector, and international targets in the water resources sector;

- Supporting training institutions to focus on water resource development and management;

- Supporting and promoting private sector participation in capacity building, feasibility study, scheme design & construction of an investment in irrigation schemes, livestock water supplies and aquaculture development;

- Ensuring that water conservation practices on upland slopes as well as in lowland crops production are prioritized to preserve and protect the environment for future generation;

- Ensuring efficient use of agricultural chemicals to prevent pollution of water bodies; and

- Supporting the establishment of a National Water and Ecological Information Center.
6.2.3 Agriculture and Environment

Environmental conservation and preservation are now national and global priorities, and have raised the need and urgency to integrate agriculturally sound and environmentally sustainable farming practices. There is a need to provide ample safeguards against land degradation while guaranteeing food production on a sustainable basis, and a heritage for future generations.

Issues and Constraints

- Increasing agricultural activities in the environment and high rates of uncontrolled wood-fuel production have resulted in increased deforestation, soil erosion and soil and water contamination, and beach erosion;
- Shortening period of fallow in shifting cultivation, timber and wildlife hunts are producing high levels of land degradation, deforestation, and displacement of native species;
- Loss of forest, as a result of encroachment of farms and mismanagement of the land and uncontrolled logging, is extensive;
- Introduction of alien species that may eventually be invasive is increasing;
- Lack of land use policy may have contributed to destruction of landscapes and ecosystems;
- Sustainable land management is not an integral part of agricultural extension messages and sustainable land management issues are not addressed holistically;
- Ineffective inter-agency collaboration to address agricultural-related environmental issues;
- Environmental impact assessments are not yet incorporated in agricultural projects because of weak institutional capacity to monitor the activity; and
- Providing adaptation measures to mitigate climate change is urgent.

Policy

- Nationwide awareness and mainstreaming environmental considerations in all agricultural activities: production, processing, manufacturing, value addition and marketing; and
- Appropriate policy instruments established and enforced to ensure environmental protection from agricultural and related land use activities including logging, grazing, mining, fishing, and land preparation.

Strategies

- Establishing an Environment Unit in the MOA to collaborate with the Environmental Protection Agency (EPA) and supporting the establishment of similar units in other agriculturally related institutions;
• Supporting the development of environmental legislations and guidelines for agricultural practices and establishing appropriate measures for country-wide sensitization, awareness, and enforcement of the policy instruments;

• Creating awareness, implementing plans, and enforcing national legislations for environmental protection and conservation from agricultural practices;

• Supporting and promoting actions for establishment of forests for protection of watersheds and wetlands; combating desertification; conserving biological diversity and contributing to the stabilization of global climate;

• Supporting measures to subject all sector policies and plans to Strategic Environmental Assessments (SEAs) and projects to Environmental Impact Assessments (EIAs);

• Implementing programs to conserve soil and water resources and for conservation farming; and

• Supporting sustainable management programs for regional and trans-boundary resources.

6.2.4 Sustainable Natural Resources Management

Large tracts of marginal land, particularly uplands in Liberia, have shallow soils which are low in fertility, leach easily and have low water holding capacities. Owing to population pressure, fallow periods in the traditional bush fallow farming systems are now reduced, large areas are being cleared yearly, and as a result, natural restoration of soil fertility after a year or two of cropping can no longer be realized. A strong enabling environment for sustainable use and management of the country’s natural resources is now compelling to avoid further worsening of degradation and deforestation.

Issues and Constraints

• Periods for traditional bush fallow farming systems are now being reduced; and

• Indiscriminate felling of forest trees by logging companies in the past and small scale pit sawyers at present expose large areas of forests to the heavy rainfall patterns in the county, adding to the degradation of soil cover and fertility.

Policy

• A policy and strategy framework that supports the transition from shifting cultivation to sedentary farming in a manner that ensures sustainable natural resource utilization and a realization of the benefits and economic returns from it such as real productivity increases, environmental protection (reduction of land degradation), and social development (poverty alleviation and emergency relief).

Strategies

• Subsidizing the provision and use of critical inputs such as improved seeds and fertilizers;
• Sensitizing farmers and providing technical support to introduce and promote best sustainable practices for land use, particularly conservation agriculture, organic and integrated farming, and participatory management of forest resources including controlled logging; and

• Developing a comprehensive programme to create awareness for sustainable natural resources management.

6.2.5 Climate change coping mechanisms

Liberia’s contribution to global warming is negligible but like other African countries, the country is likely to be disproportionately affected by the impact of climate change due to limited adaptive capacity and widespread poverty. Global warming is considered to be accompanied by a rise in sea levels. About 95 km² of land in the coastal zone of Liberia will be inundated as a result of one meter sea level rise. The country as a whole lacks the capacities to adapt to climate change, such as access to resources, strong social and human capital, and regular access to risk-spreading mechanisms. The majority of the people are, therefore, highly vulnerable to the results of climate changes.

Issues and Constraints

• Shifting cultivation with a fallow period of less than 12 years, uncontrolled logging, charcoal production, and improper waste disposal contribute to climate change;

• Livelihood along coastal areas are and will continue to be seriously affected by sea level rise;

• Food production could be affected by changes in rainfall patterns that are especially shorter and of high intensity and increased incidence of insects, diseases, and invasive plants; and

• Global warming could extend the range of disease-causing vectors such as mosquitoes.

Policy

Mechanisms in place with contributions from the agriculture sector, to monitor climate change in Liberia, ensure agricultural activities in Liberia do not contribute to such changes, and that such changes will not seriously undermine efforts directed at poverty alleviation, food security, and environmental protection and environmental Protection.

Strategies

• Supporting and promoting sustainable agricultural production such as conservation agriculture, and rural development activities which reduce vulnerability of cropping systems;

• Providing information and advice through statistical data and information and the mass media about climate change, causes and risks, and available adaptation strategies especially in relation to the agriculture sector;
• Promoting proven best practices, policies and measures that encourage forest protection, sustainable farming, and sustainable energy utilization;

• Supporting the institutionalization of adaptation capacities through partnerships with NGOs, civil societies, private sector and concerned government organizations; and

• Supporting climate change related research, education and training.

6.3 Social Development

6.3.1 Gender

Women in rural areas produce most of the food and are largely responsible for household food security; they fetch wood and water, care for children and homes, and undertake transport and marketing activities of the family. They predominate in key segments of the value chains of major food and cash crops, especially in production, primary processing, product development and marketing. Some women also serve as heads of their families and shoulder the corresponding responsibility. The civil crisis has accentuated the role of women in Liberian society, especially in food and nutrition security. The number of female-headed households and single-parent families has increased, as have the burdens of child and family care. But women are often highly marginalized. They need to be empowered to enable them continue and improve on their roles and responsibilities in the sector.

Issues and constraints

• Gender disparities in access to and ownership of assets are considerable;

• Women own less land and are more insecure than men;

• Rural women have less access to credit, agriculture extension, skills, and business management training;

• Women face severe handicap in starting and developing entrepreneurial activities due to their higher illiteracy status;

• Institutional support for the development and empowerment of girls and women is limited;

• Gender-based violence against girls and women is high;

• Social customs hinder women’s mobility, constrain their participation in decision making and limit their involvement in productive activities; and

• Traditional norms continue to restrict women development opportunities at the local level in rural areas.
Strategies

- Strengthening the institutional framework and capacities, particularly in the MOA and MOGD, to address gender issues in rural policies and programs;

- Collaborating with the MOGD and Development Partners to develop and implement a Rural Women Empowerment Program designed to enhance women’s decision-making powers, and access to credit, land, extension, technology and market information;

- Ensuring gender issues are mainstreamed in all agriculture policy formulation, planning, programming and proposed interventions at national and sub-national levels;

- Intensifying research and adapting programs for agricultural technologies that increase women labor productivity without undue physical exhaustion; and

- Supporting women’s participation in promotion of and training in agribusiness services.

6.3.2 Youth

Youth constitute more than 65% of the population and a significant proportion of the nation’s poor and unemployed. They represent a huge reserve of untapped labor resource needed to boost agriculture production, enhance food security and create massive wealth. Unfortunately, many youth shy away from agriculture or are reluctant to engage in farming. Many have abandoned rural communities and farmlands for Monrovia and other urban centers in the elusive search for quick incomes and better livelihoods.

Issues and Constraints

- Youth migration is very high and influenced mainly by drudgery of agricultural labor, low returns in subsistence agriculture, negligible access to land, finance and markets; and

- The majority of land available for farming is controlled by community elders, which enhances their power in communities and enables them to exploit youth labor.

Policy

- Widespread empowerment of women with enhanced access to credit, land, and technology and market information; and

- An established and functioning system by which women receive extension services aligned to their traditional gender roles, and their capacities built in productive and commercial ventures.

Policy

An enabling environment encouraging and ensuring larger numbers of youth are directly involved in the agriculture sector for income generation, employment, and investment as well as to minimize their migration to urban areas.
Strategies

- Supporting the National Youth Policy and Agenda;
- Developing and implementing a Youth In Agriculture Program in which provisions are made for sensitization of opportunities in the sector, training, and enhanced access to inputs, credit, land, technologies;
- Facilitating and supporting the private sector to establish agro-industries in rural areas which will provide supplementary or alternative employment for youth; and
- Establishing and implementing special Initiatives directed at increasing youth interest such as Centre Songhai Liberia and
- Enabling young people to participate in revitalization of value chains in the food and agriculture sector.

6.3.3 Vulnerable Groups

Large numbers of families and individuals in Liberia are vulnerable mainly because of the war. They include internally displaced persons (IDP), returnees, refugees and ex-combatants; and households headed by elderly members (above 60 years of age), chronically ill or disabled persons and widows. There are also children born out of wedlock or from sexually based violence, orphans and those residing with family members, and young women who are single parents. The peace and stability of the country cannot be sustained unless these vulnerable groups are provided with effective support to lead decent livelihoods.

Issues and Constraints

- The number of vulnerable families and individuals is considerable: 9% of rural households are headed by elderly members (above 60 years of age), 26% by chronically ill or disabled persons and 5% by widows. Approximately 100,000 people are still internally displaced, about 350,000 refugees are in neighboring countries and many more individuals are still classified as otherwise war-affected.
- Increasing incidence of HIV/AIDS, malaria and waterborne diseases and the corresponding deaths have made many families vulnerable and resulted in loss of productive agricultural personnel or man-hour for work;
- Vulnerable groups engaged in agricultural activities face severe shortage of labor;
- Most of the IDPs, returnees and ex-combatants that can be absorbed in agriculture have inadequate access to land, basic inputs, finance and markets;
- Many IDPs and returnees are discouraged to go to rural communities because they have become accustomed to better health care, education and social outlets and entertainment in the camps where they have resided (relative to the villages where basic services are lacking);
• Many others have adapted to camp life and may have developed an ‘assisted’ mindset and dependency on humanitarian support;

• Many farmers are getting older and poorer with acute food insecurity in several communities (extended lean periods of 4-6 months annually); and

• Traditional coping mechanisms, including the extended family system, have been weakened by the war and extreme poverty.

Policy

• *Food and nutrition security for vulnerable groups;*

• *Addressing present vulnerability situations and reducing factors creating future vulnerability; and*

• *Contribution to the resettlement and reintegration programs.*

Strategies

• Supporting the implementation of a **Support Program to Resettle and Reintegrate Ex-combatants** in rural areas such as the Tumutu and Sinoe Agricultural Training Programs (TATP and SATP);

• Supporting the development and implementation of a **Senior Citizen Status Policy** to provide protection to the aged;

• Contributing to and supporting the design and implementation of safety nets or support programs to meet the immediate food and nutrition needs of the vulnerable groups until their farm and non-farm operations start to generate adequate incomes;

• Supporting targeted input subsidies and other production-based entitlement programs for the poorest and most vulnerable, including families affected by HIV/AIDS;

• Supporting mainstreaming of safety net schemes into broader development initiatives;

• Ensuring that land tenure reforms adequately address the needs of vulnerable groups;

• Advocating for and supporting programs for affordable health care delivery and improvement of water and sanitation facilities in farming communities;

• Promoting appropriate agro-forestry interventions, specifically designed to meet community needs, in areas prone to population stress and savannah conditions to positively impact food security, reduce land degradation and arrest the annual increase of the savannah; and

• Supporting Food Insecurity and Vulnerability Information Mapping System (FIVIMS), including developing a food security and nutrition database, and supporting the development of an Early Warning Systems (EWS).
Coordinating Agricultural Development with Other Sectors

Broad-based and inclusive agricultural development depends heavily on sectors outside the mandates of the agriculture sector. Sectors such as trade and industry, infrastructure (roads, communications, and power supply), local governance, public security, education and health can contribute directly or indirectly to agricultural productivity by mainstreaming the development of agriculture in their planning and operational processes. The effective implementation of this policy and strategy will require support and close collaboration with the private sector, other stakeholders as well as inter-ministerial coordination in order to ensure that the needs of the agriculture sector are harmonized with those of related sectors.

7.1 Trade and Industry

Issues and Constraints

- Low commitment and poor mechanisms of these sectors to promote and expand opportunities of small Liberian businesses in the value chains of selected food and cash commodities;

- High transaction costs (establishing transparent regulations; improved market infrastructure; standardization of products; time-bound moratorium on tariffs and duties on agriculture commodities);

- A lack of focus on agriculture in trade and investment promotion;

- Inappropriate labeling of locally produced and imported foods;

- Segments of business activities exclusively set aside for Liberians are being gradually taken over by foreigners in the form of “fronting”, thereby limiting the opportunities of small Liberian businesses to venture into such lines of business;

- Poor coordination between the trade sector of the economy and other line ministries and agencies of government in regulating the activities of the various sectors to ensure compliance with existing regulations and procedures (i.e. quality service, reliability, business plans, etc.);

- High import duties on basic inputs and construction materials that have diminished the opportunities for ordinary Liberians to compete and excel in food and agriculture, reconstruction and building sector, small and medium industries and enterprises;

- Existing market infrastructure are without storage, processing and related facilities;

- Lack of access to finance has limited the growth and development of the sector; and

- Lack of standardization has resulted in reduced income from sale of commodities.
Strategies

- Removing or at the least reducing import duties on agricultural inputs such as fertilizer, seeds, farm tools and equipment, and processing and value addition technologies;
- Establishing trade/ market centers and storage in strategic locations of the country, thereby reducing unnecessary transport and transaction costs;
- Facilitating dialogues and inter-ministerial consultations to establish and monitor mechanisms, and mobilizing of resources that will promote and expand opportunities of small Liberian businesses in the value chains of selected food and cash commodities;
- Ensuring standardization of products and improving sanitary, phytosanitary and zoosanitary services; and
- Including agriculture as a focus of trade and investment promotion, including identification of international markets and investment concerns for increased exportation of locally produced commodities.

7.2 Transportation

Free flow of goods and services, will significantly enhance productivity and competitiveness of the agriculture sector, especially in the subsistence sector, and make substantial contribution to growth and poverty reduction. Large parts of Liberia’s traditional farming areas are isolated from markets which can only be accessed at very high costs and to their disadvantage.

Issues and Constraints

- Vehicular travel in rural areas where agriculture is the predominant activity is difficult in the dry season and impossible in many areas in the rainy season with about half of all villages having no vehicular access, and consequently negligible movement of goods and services to the sector;
- Commercial trucks carrying capacity ranges from 5-20mt per vehicle, most of which are second hand vehicles with an average age of 8-10 years, experience frequent breakdowns, and result in high costs to transport produce; the total trucking capacity is estimated to be less than 2,000mt (LMR, 2007); and
- Railways have been non-operational for 20 years; as a result, bulk carriage of produce is by road, and expensive for the small producer.
Strategies

• Planning and implementing priority actions and programs to improve road networks, especially rural and urban roads linking producers to markets;

• Ensuring of port facilities are improved for storage and handling of agriculture goods;

• Providing incentives to improve trucking capacity in the country, including encouraging high density vehicles and reducing transport costs especially for agricultural commodities and services; and

• Planning and implementing labor intensive roads construction and maintenance.

7.3 Information and Communication

Information and communications technologies have become important to the development of every sector of the economy. Access to such resources at all levels of the value chains of key foods and cash commodities is necessary to enhance productivity, competitiveness and incomes of small and large scale operators. The promotion of Information and Communication Technology countrywide will facilitate access to markets and improve investment decisions for by all operators in the sector, including small holders.

Issues and Constraints

• ICT currently not reliable for business, other information and telecommunications technology are not available in large parts of the rural areas, and there is no telecommunications strategy indicating the nature and scope of support required for the agriculture sector;

• Mobile phone coverage across the country is estimated at 45% and the charges are currently relatively high; and

• Coverage of radio stations is limited across the country. Most community radio stations are operating on a frequency modulation (FM), which has limited coverage.

Policy

An enabling ICT policy, working in concert with other related policies, that empowers agricultural growth and development in Liberia particularly small holder access to domestic and international input and output markets.

Policy

An established trade and industry policy coordination framework in which the agricultural sector will be an integral component in trade financing, development and promotion.
Strategies

- Advocating for support to provide special incentives to expand information and telecommunications technologies and facilities to key agricultural and remote areas;

- Promoting access to internet services that are competitive and affordable with wide coverage to rural production areas; and

- Embedding communication/information strategies in agricultural programs in the country, particularly for small to medium operators in the sector.

7.4 Energy

Availability of and access to affordable energy supplies are major contributing factors to achieving the overall goals of the sector, especially revitalization and modernization of the sector, through increased productivity and competitiveness in the value chains of the sector.

Issues and Constraints

- High cost of fossil fuel (diesel fuel and gasoline) and lack of access to regular supplies has limited access to energy in most rural areas, and is a major disincentive to establishing processing plants, the free flow of goods and services in the sector, and delays in the revitalization of the value chains of selected cash commodities.

- The costs also constrain transformation of subsistence producers into modern systems of production.

- Lack of a national energy policy in general and of an energy for agriculture strategy in particular;

- Overall absence of utilization of Liberia’s vast water resources for hydro electricity and irrigation; and

- Lack of a national program to encourage development of alternative energy such as biomass.

Policy

*An enabling energy framework in which reliable and affordable energy is available and enables agricultural sector growth and development.*

Strategies

- Advocating for a national energy policy that accentuates rural development of which agriculture is the fulcrum;

- Collaborating with the relevant institutions, particularly the Ministry of Lands, Mines and Energy, to ensure availability of affordable power to rural and agricultural communities;
- Establishing special arrangements for supply of petroleum products to the agriculture sector; and

- Encouraging and facilitating private sector development of renewable energy (photovoltaic, wind, biomass, animal extraction, wood & waste, agricultural wastes and mini hydro schemes) and supporting research in renewable energy.

7.5 Human Health

Human health is a major consideration of the FAPS as the agriculture sector is a major contributor to nutrition. It is also a victim of epidemics and pandemics such as Malaria, HIV/AIDS, and other diseases (water borne) with high morbidity and mortality incidences. This is especially important in view of the sector’s almost total dependence on human labor for farm power in Liberia. Human health issues will have a major influence on achieving the important sector objectives of food and nutrition security at household levels, and enhanced productivity and competitiveness in the sector. The quantum and quality of the labor force and its overall performance are therefore critical determinants of agricultural transformation.

Issues and Constraints

- Malaria prevalence was estimated around 56.9 per cent in 2003 and remains the primary cause of death amongst children;

- The official HIV/AIDS prevalence rate was estimated at 12 per cent in 2003, up from 8.2 per cent in 2000;

- Other diseases with high morbidity and mortality incidences are still prevalent in rural production areas and include tuberculosis, measles, diarrhoea, acute respiratory infection, schistosomiasis, onchocerciasis, and bancroftiasis (elephantiasis);

- Poor diet has contributed to death and disease including learning disabilities, and food-borne illnesses;

- Inadequate sensitization and dissemination of information on the nutritional status of foods produced locally;

- High malnutrition rates among children and other vulnerable groups; and

- Inadequate access to safe drinking water and safe latrines in farming communities.

Policy

*A collaborative framework between the health and agricultural sectors that ensures healthy agricultural workers enhancing agricultural production, productivity, and competitiveness.*
Strategies:

- Collaborating with the Ministry of Health and Social Welfare to prioritize active and potential production areas for rehabilitating health services;
- Partnering with the MOHSW in planning and implementing HIV/AIDS and similar health programs; and
- Partnering with MOHSW and other institutions to undertake intensive sensitization and promotion of the consumption of nutritious, locally grown foods within the National Food Security and Nutrition Strategy framework.

7.6 Education

The quality of human resources and level of public knowledge about the agriculture sector are key determinants of performance and success. Historically, a major factor has been lack of coordination between the agriculture and education sectors in determining the appropriate use of the latter to enhance agriculture, ensure that requisite quantity and quality of such resources are available to the sector in a timely fashion, create investment and market opportunities in the education sector for agriculture, and disseminate information about the importance and value of agriculture to economic recovery and growth.

Issues and Constraints

- Secondary and college level programs offer a limited range of instructional areas, and lack
- the necessary coordination with agricultural planning, research, local knowledge, and educational agencies responsible for developing national curricula;
- The relatively high level of illiteracy of the large group of operators in the agriculture sector, especially women, and the negative effects of this deficiency on efforts to improve systems of management and investment in their enterprises; and
- The largely untapped potential of the education sector as market for the agriculture sector (feeding programs in schools; institutions of higher learning, etc).

**Policy**

*A collaborative framework established between the educational and agricultural sectors that link effective education and training to strengthened agricultural production, productivity, and competitiveness.*

Strategies

- Collaborating with the Education sector in setting and standardizing curricula in institutions of learning in direct collaboration (participatory approach) with the agriculture sector and other major stakeholders;
• Promoting educational policy and programs that address basic and functional literacy, especially for women and ensure equity and quality in the delivery of education services;

• Positioning youths to take full advantage of farming opportunities to facilitate self-financing or supporting initiatives and vocations;

• Supporting school feeding programs (with locally produced foods), and school and backyard gardening which will increase markets for the sector; and

• Supporting and promoting partnerships in research and extension in the agriculture sector.

7.7 Public Security

Public safety and security is an essential pre-requisite to revitalizing the value chains of cash and food commodities, especially in view of the large investment requirements for such actions. The absence of such guarantees, in light of the destruction of infrastructure during the recently ended civil war, may delay the commitment of investors and operators including small holders to participate in the revitalization of the sector.

Issues and Constraints

• Inadequate capacities of the government to ensure its presence and authority in distant locations, especially in view of the limited resources and time-frame of the UN security forces in the country;

• Considerable numbers of idle and unemployed youth and ex-combatants who are likely to be engaged in crimes if no other viable alternatives exist;

• Prevailing high rate of unemployment as a potential threat to the country’s peace and stability; and

• Insecurity in some parts of the country is likely to limit investment in such areas.

Policy

An enabling security sector that provides human and property security for agricultural investments, growth and development.

Strategies

• Collaborating with and supporting relevant Government agencies to improve human and property security to public, private, and public/private investments in the sector;

• Developing, in collaboration with relevant agencies, community based mechanisms to foster security of agricultural and human investments at local levels; and
• Developing, in collaboration with relevant agencies, support programs that will reduce idleness and unemployment among youths, and consequently reduce the likelihood of crime by such groups especially in areas of agricultural investments.

7.8 Local Governance

Achieving the overall goals of the sector requires full participation of all stakeholders, especially local government authorities. The structures, leaderships and capacities of these sub-national authorities are essential in the mobilization of popular participation in the process of planning, resource attraction, implementation and monitoring and evaluation of agricultural and rural development.

Issues and Constraints

• Local level administration is weak as elected officials and Mayors have neither the resources nor the capacity to effectively coordinate community development efforts;

• Inadequate sub-national governance structures with weak financial and fiscal management capacities which are not capable to coordinate development activities and ensure a favorable environment for investments at local level;

• Slow progress with decentralization;

• Inadequate provisions for local community emancipation or empowerment; local officials have limited understanding of the management of valuable natural resources such as wetlands, grazing lands, forests and fisheries; and

• Limited capacities of traditional authorities to overcome conflict over access to resources and ensure sustainable use of natural resources.

Policy

*Effective, efficient, and decentralized local government structures empowered to promote rural transformation through the entry point of agricultural investments, growth, and development.*

Strategies

• Advocating for and supporting Local Governance to ensure coherence in the distribution of services and responsibilities in the decentralized structure of the MOA in accordance with the National Decentralization and Local Development Program of the Government;

• Supporting development of the legal framework for local government functioning and ensuring revenue mobilization, allocation and utilization, and participatory action in planning, delivery, monitoring and evaluation;

• Supporting a participatory approach to strengthen conflict management, resolve land issues and exploit opportunities in the sector, as well as integrate traditional authorities in the local consultations and political decision-making processes; and

• Rehabilitating administrative infrastructures and building human capacities.
Implementation Framework

Effective execution of the FAPS cannot be assured in the absence of appropriate institutional arrangements, the engagement and management of stakeholders and ongoing monitoring and evaluation of envisaged programs

8.1 Institutional Arrangements

The effective implementation of the Food and Agriculture Policy and Strategy hinges on appropriate governance and management arrangements, many of which are already in place or will soon be. These arrangements are consistent with the nature, structure and operations of the Government and its interactions with non-state actors. The arrangements seek to ensure continued focus, commitment, coordination and accountability of efforts, resources, and outputs. Within this framework, the following institutional arrangements are either in existence or will soon be put into place:

8.1.1 Office of the President/Cabinet

The President of Liberia will provide global oversight as Head State and Government. The president will undertake this function through vertical and horizontal interactions with all elements within and under the institutional arrangements, particularly via the Stakeholder’s Forum and other similar opportunities. Accordingly, through the Office of the President, the Cabinet will be regularly informed and consulted.

Stakeholders’ Forum: This is a national consultative forum of all stakeholders held periodically for the purposes of sharing information and experiences and discussing progress in implementing the policy and strategy. The Forum shall be chaired by the President of Liberia.

8.1.2 Sector Level

An inter-ministerial body, the Food Security and Nutrition Technical Committee (FSNTC), will be the highest decision-making body in the implementation of the policy and strategy. It will provide overall policy direction and guidance for implementing the policy and strategy. The FSNTC will be chaired by the Minister of Agriculture and include, but not be limited to the following agencies: Ministry of Finance, Ministry of Commerce and Industry, Central Bank of Liberia, Ministry of Internal Affairs, Ministry of Planning & Economic Affairs, Environmental Protection Agency, Liberian Business Association, Liberian Bankers Association, Liberia Federation of Cooperative Societies, Liberia National Farmers Union and Liberian National NGO Network (LINNK). Representatives of Donors and International NGOs will serve as observers. The FSNTC already exists.
The Agricultural Coordination Committee (ACC) will provide technical assistance in coordinating, implementing, monitoring and evaluating the policy and strategy. This committee shall comprise of technical staff of stakeholder institutions, NGOs, and other stakeholders. The ACC already exist, as one of three working groups of the FSNTC, and is focused on the availability component of the National Food and Nutrition Strategy. It is chaired by the Deputy Minister of Planning and Development, Ministry of Agriculture.

The Ministry of Agriculture shall also prepare annual plans drawing from elements of the policy and strategy for resource mobilization, allocation and utilization in the sector. The Ministry shall develop, as and when necessary, sector and sub-sector specific Plans of Action, programs and projects, (with short, medium and long term perspectives) in accordance with the FAPS, through the involvement and wider participation of the farming population, and other stakeholders.

Partners’ Forum: This shall be a consultative forum of partners and the Government. It shall share progress reports and solicit the views of donors, advocate for resource mobilization within the donor community, and reassure donors of the Government’s continuing commitment to agricultural sector growth and development. Its meetings and deliberations shall be co-chaired by the Minister of Agriculture and the highest-ranking United Nations official assigned in Liberia or as agreed by partners.

8.1.3 Decentralized Level

County level: the County Development Steering Committee will coordinate inputs from the County into the Annual Plans and programs prepared by MOA, and monitor their implementation in towns and other local communities. This Steering Committee will have various working groups, one of which is the Economic Revitalization Workshop Group (ERWG) chaired by the MOA’s highest ranking county staff.

Sub-county levels: districts, towns and local communities will be assisted through their decentralized structures to organize, contribute, and develop annual performances of relevant components and sub-components of this policy and strategy.

8.2 Stakeholders’ Engagement and Management

The Food and Agriculture sector is multidisciplinary in nature as it is multifunctional in operation. The successful implementation of this policy and strategy will, therefore, depend on the effective cooperation of all the stakeholders: public sector, private sector; civil society; non-governmental organizations, and Development Partners. The Ministry of Agriculture will have oversight responsibility for coordinating the implementation of the policy and strategy, and will perform this function through established mechanisms in which all the relevant stakeholders will undertake the following in a participatory manner:

- Harmonize objectives, priorities, and methodologies towards achieving global sector goals;
- Perform assigned roles and responsibilities in furtherance of the policy and strategy, avoiding duplications and overlaps in functions and activities;
- Share experiences, provide guidance and technical leadership, and foster an environment conducive for effective implementation;
• Coordinate and resolve implementation issues, and provide periodic information to the public, government and donors; and

• Assess/evaluate progress or the lack of it, and make required adjustments as implementation proceeds.

8.2.1 General Roles of Government

As the nation transitions from recovery to growth and development with agriculture as a driving force, the private sector will have to take the lead in transforming the sector with government creating the enabling environment and providing essential basic services that the private sector is unable to effectively and efficiently render and then only to correct for market failure and mitigate producers’ risk.

The roles of Government in the development and functioning of the agriculture sector in Liberia in the past had been unclear in appropriateness of purpose, confusing in functions and less cost effective in performance. Government performed too many roles, (unilateral decider of ad hoc policies, financier, producer, extension agent, regulator, and at times a competitor in critical activities in the sector). The nature and scope of the problems to be addressed in the country today at the macroeconomic level and within the sector make it compelling for clarification of roles among the many stakeholders in the sector, essentially to ensure optimum use of comparative advantages in competence and appropriateness of functions, and cost effectiveness of actions and performance.

The specific roles of Government functionaries such as the Ministry of Agriculture and other relevant ministries and agencies are as follows:

Ministry of Agriculture (MOA) shall:

i. Provide oversight for policy formulation implementation and monitoring;

ii. Coordinate planning, delivery of services and support to agents and beneficiaries, and monitor sector activities;

iii. Advise Government on laws and guidelines to regulate the activities of the sector;

iv. Liaise with the Environmental Protection Agency, Forestry Development Authority and others to ensure appropriateness of agricultural activities and practices for environmental protection;

v. Regularly assess consistency of the policies and strategies of other sectors with the FAPS and analyze the impact of such policies on the agriculture sector.

vi. Develop and maintain an enabling institutional framework that promotes development in the sector and make it more responsive to the aspiration of sector participants;

vii. Promote and facilitate public-private and private-private sectors dialogue and partnerships;

viii. Advocate for various sector interests at national level (inputs from cross-cutting matters from other sectors) and pursue related international initiatives and agreements;

ix. Facilitate the development, dissemination and promotion of research, technology and information;
x. Advocate and promote the interests of small producers and provide technical and advisory services to such agents in the sector in order to increase productivity and output;

xi. Promote the establishment of formal planning linkages between the agriculture sector and other sectors (especially, health, tourism, commerce, communication, education) in order to ensure a more integrated and coordinated approach to policy and program development aimed at reducing poverty;

xii. Provide phyto-sanitary and zoo-sanitary inspection services for exports and imports of agricultural commodities including crops, fisheries and livestock;

xiii. Promote and facilitate the design and adoption of appropriate technologies for the use and management of water resources in the sector; and

xiv. Provide leadership for government’s food security and nutritional interventions including supporting improvements in the nutritional well-being of the population.

Roles of Other Government Institutions

**Ministry of Finance:** in collaboration of the Ministry of Agriculture and the support of the Central Bank of Liberia, coordinate the mobilization of external resources in support of the agriculture sector;

**Ministry of Commerce and Industry:** facilitate external market access and enabling domestic market;

**Ministry of Health and Social Welfare:** collaborate with MOA to enhance the nutritional well-being of population and further the goals of the National Food Security and Nutrition Strategy;

**Ministry of Education:** support development of human resources for agriculture and related sectors;

**Ministry of Public Works:** foster improvement in roads infrastructure, particularly feeder roads linking producers to markets;

**Ministry of Gender and Development:** collaborate in advancing and empowering women;

**Environmental Protection Agency (EPA):** cooperate and support efforts to adopt agricultural practices that protect the environment;

**Forestry Development Authority (FDA):** support efforts to ensure sustainable land management and forest resources development;

**Ministry of Internal Affairs:** ensure that local governance structures and processes including decentralization are effective, supportive, and enabling of rural transformation and agricultural sector growth and development;

Ministry of Youth and Sports: collaborate to encourage youth involvement in agricultural development efforts; and

**Central Bank of Liberia:** facilitate availability of financial services in support of agriculture sector programs.

### 8.2.2 Roles of Parastatals
Parastatals such as the Liberia Produce Marketing Corporation (LPMC), Liberia Cocoa and Coffee Corporation (LCCC), Agricultural Cooperative and Development (ACDB), Liberia Rubber Development Authority (LRDA), the Cooperative Development Agency (CDA), and the National Palm Corporation (NPC) were all government operated entities established in the 70’s and 80’s. They contributed to economic growth but suffered huge losses, resulting in the abrupt closure of many. These organizations are being assessed, and their enabling legislations reviewed, to determine their relevance and substance in the nation’s economic recovery program. Preliminary evidence supports the non-revitalization of LCCC and NPC.

While some of the parastatals will be reformed in accordance with the liberalization policy of the government, others will be reorganized to perform new roles including the following:

i. **LPMC** and **LRDA** will be combined and transformed into an Agricultural Export Board (AEB) with responsibility for promotion, quality control, monitoring, advocacy, value addition and input supply facilitation;

ii. **ACDB** will be liquidated and alternative financial intermediaries such as a Farmers’ and Cooperative Development Bank, FCDB (Liberia, Inc.). FCDP will be a profit-making bank focusing on agriculture and agribusiness development and run as a professional business without government interference. Other arrangements such as microfinance institutions, rural savings banks, dedicated windows of commercial banks; etc will be evaluated and encouraged.

iii. **CDA** will be restructured and enabled to coordinate, develop and regulate cooperatives and farm-based associations undertaking agricultural economic activities.

### 8.2.3 Roles of the Private Sector

Agricultural transformation from subsistence to sufficiency will be market-led, with the private sector being the driver. The sector controls the entire agricultural value chain, from production to marketing. The private sector role shall include but not be limited to:

i. Cooperative societies and farmer-based organizations that advise, encourage and facilitate their members to exploit market-driven opportunities, establish linkages with sources of support and advocate and play leading roles in inputs supply and linkages to outputs markets to overcome market failures in agriculture;

ii. Financial intermediaries will introduce lending strategies that target not only Farmers’ Organizations, but individual farmers and private sector businesses investing in agriculture and agribusiness; and they will establish appropriate rural banking facilities for the provision of credit to farmers and farmers’ organizations;

iii. Industrial concerns (e.g., mining, forestry and agriculture concessions, etc.) having direct relation to the sector will contribute appropriate funding support to accelerate agribusiness investment in food crops, livestock, fisheries, cash crops and value added processing; and they will support small holder economic empowerment via strategic partnerships such as out grower schemes; and

iv. Private investors, farmers’ organizations and cooperatives will spearhead investments in agribusiness in the country; provide and facilitate linkages between producers (e.g. rice, vegetables, cocoa, coffee and oil palm) and local and external markets; participate in policy dialogues to ensure their interests are reflected in policies that affect them; participate in research and utilize
their results; and comply with laws and regulations and partner with government in sector development.

8.2.4 Roles of Civil Society Organizations

Civil Society Organizations (CSOs) played pivotal roles in humanitarian support during the civil war by rehabilitating the lives of a war-affected population in areas of agriculture, health, education, livelihood activities, infrastructure, and water and sanitation amongst others. As the country progresses from emergency to recovery and long-term development, CSOs will have to adopt policies, evolve strategies, and develop plans that are consistent with the emerging demands for nation building, particularly ensuring complementarities of efforts to achieve desired and sustainable results in the agriculture sector which is the entry point to national economic recovery.

Roles of CSOs, NGOs and INGOs

i. CSOs will strengthen public sector governance by giving voice to smallholders, rural women, and agricultural laborers; and they will foster participatory development and monitor agriculture policy making, strategy development, budgeting, and program implementation. Civil society will also hold policy makers and public administrators accountable, thus creating incentives for change.

ii. INGOs and NGOs will mobilize resources and promote partnerships with external sources of support to the agriculture sector in collaboration/coordination with the inter-ministerial Food Security and Nutrition Technical Committee (FSNTC). In performing these roles, these organizations will submit sector specific action plans and periodic reports to the Technical Committee for the purposes of coordination, and monitoring and evaluation of donor aid projects and their impacts on intended beneficiaries. CSOs and NGOs will support capacity building to improve farmers’ knowledge, technical skills and capacities.

iii. CSOs and NGOs will support and promote women and youth empowerment, provide technical assistance in the performance of agricultural activities, and ensure adequate, balanced, impartial, in-kind support to vulnerable farmers. They will also participate in the delivery of various services, especially at the local government and community levels, and promote partnerships between grassroots organizations and sources of support.

iv. NGOs will engage in standards setting, such as Fair Trade labeling, support water and sanitation, environmental protection, monitoring and evaluation, and campaign against HIV/AIDS and care for HIV/AIDS orphans.

8.2.5 Roles of Development Partners

Development Partners comprise regional cooperation organizations, bilateral and multi-lateral donors, UN organizations and various regional agricultural research organizations; funding agencies such as IFC, World Bank, ADB, USADF, OPEC, OXFAM, and ICO. The FAO, WFP, UNDP, and USAID are also included. Regional cooperation organizations such as ECOWAS and the Mano River Union will provide opportunities for expanding markets for goods and services.

The main role of Development Partners and donors is to provide all necessary support required to fill funding gaps that the government cannot otherwise cover. Specifically, they will also:

- Facilitate policy dialogues and policy advocacies;
- Provide technical and financial assistance and support the Government in the management of such assistance;

- Participate in the monitoring of activities and performance of the sector;

- UN Agencies will provide technical assistance in formulating and implementing policies and strategies, and articulating areas and conditions of support to achieve the MDGs, and ensure Sustainable Human Development;

- CGIAR centers such as WARDA and IITA as well as regional agricultural networks (i.e. CORAF, FARA and NEPAD) will provide support in developing and supplying proven, new technologies, best farming practices and in replicating success stories from elsewhere.

Coordinated donor funding will be encouraged in order to avoid past short-comings where donors “picked and chose” projects and programs of their choice, and operated outside the framework of the Government’s Sector priorities and objectives. In this direction, the MOA will establish a Project Coordination Unit (PCU) that will among other things:

### 8.3 Monitoring and Evaluation Mechanisms

Monitoring and Evaluation (M&E) reporting will be institutionalized, using a harmonized format and indicators developed for reporting. The monitoring framework will include data generated from crops, livestock and fisheries surveys. Data collected will include details on indicators of sub-sector performance, outcomes and impacts.

The MOA will carry out participatory policy and strategy evaluations on a periodic basis in order to determine effectiveness and impact of the policy and strategy on availability of food commodities, productivity and competitiveness, as well as marketing and value-addition and gaps.

The MOA will establish early warning systems, as an integral part of an effective monitoring scheme, to guide production, marketing, value-addition and emergency response decisions based on pre and post-harvest losses.
## Appendix I

### Risks and Mitigants

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<th>Risks</th>
<th>Mitigants</th>
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<tr>
<td>Inadequate references to, and provisions made for the agriculture sector in national resource mobilization exercises such as Donor Conferences on Liberia; untimely redemption of pledges made on behalf of the sector’s activities; delayed release of funds by Ministry of Finance; inadequate response to create the enabling environment for pro-poor policies and Incentives to the private sector;</td>
<td>Henceforth, the Government will make conscious efforts to communicate to both national and international audiences that development of the agriculture sector is the entry point for economic recovery and sustainable human development. Donors will be reminded and encouraged to honor their pledges to the country and the Ministry of Finance will be challenged to demonstrate Government’s commitment by releasing funds allocated to the sector on a timely manner. The Government will put into place the required enabling macroeconomic environment for agricultural growth and development.</td>
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<td>Inadequate strengthening of the Ministry of Agriculture to provide effective services in policy analysis and planning (for prioritization, budgetary support and programming); agricultural statistics and data (for coordination, investment and monitoring); and delivery of agricultural extension and research services for pro-poor policy actions;</td>
<td>Institutional capacity building of the Ministry of Agriculture will be paramount. In fact the process has already begun under a Technical Assistance Program with USAID. Continued efforts will be made in this direction. Policy analysis and planning, agricultural statistics and data management, agricultural research and extensions services will be accentuated.</td>
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<td>Inadequate response of financial institutions (Banks) for available and affordable credit to the sector’s operators, particularly small holders;</td>
<td>As the economy strengthens, the Central Bank and the Banking Association will be challenged to provide and support more agri-businesses and agro-industries in the mutual interest of the banks and sector growth and development. The Government will develop special schemes in support of loans to sector operators and will introduce alternative institutional arrangements.</td>
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<td>Inadequate response of other Development Agencies to Food and Agriculture Sector Policy and Strategy initiatives;</td>
<td>The Government will reason with Development Agencies that, as agriculture is the mainstay for the bulk of the population, it provides the best opportunity and entry point for poverty reduction. The Government will demonstrate its own commitment to the sector by living up to its financial commitments to the sector and continue to improvise as practicably as possible.</td>
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<td>Inadequate response of the private sector to policy and strategy initiatives (incentives);</td>
<td>The Government will continue to provide an enabling environment for private sector involvement, while gradually increasing its support</td>
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<td>Risks</td>
<td>Mitigants</td>
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<td>Inadequate response of producers (farmers, processors, traders) to</td>
<td>The Government will continue to encourage and promote agricultural sector development, while demonstrating to producers that they can increase</td>
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<td>policy and strategy initiatives;</td>
<td>incomes and improve their livelihoods from the incentives and technical support being provided by the Government and its development partners.</td>
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<td>The Government will take measures that will assist in alleviating the hardships on farmers and its resultant impact on the population.</td>
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<td>Adverse conditions and terms of international trade regimes for</td>
<td>The Government will provide information and education to farming households on how best to cope with these adverse situations as informed by</td>
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<td>agricultural commodities, especially down-turns in world prices of</td>
<td>best practices and as resources will permit.</td>
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<td>key agricultural export and import commodities; and</td>
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<td>Unusual weather patterns and outbreaks of pests and diseases.</td>
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## Appendix II
### Action Plan

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<tr>
<th>SECTOR POLICY</th>
<th>STRATEGY</th>
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<tr>
<td>I. National food and nutrition security</td>
<td>1. Improve food availability and adequacy thru self-reliance</td>
<td>i. Rehabilitate existing swamps&lt;br&gt;ii. Establish and support special initiatives to improve access to essential inputs&lt;br&gt;iii. Provide relevant inputs to artisanal fisheries&lt;br&gt;iv. Establish programs for rapid production of short-cycle livestock</td>
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<td>II. Increased Competitiveness And Market Linkages Pro-Poor Growth</td>
<td>2. Enhancing efficiency, competitiveness and sustainability of supply chains</td>
<td>i. Providing strategic farm inputs to smallholders&lt;br&gt;ii. Intensifying diversified and integrated farming&lt;br&gt;iii. Accelerate transition from low-productivity farming to commercial production&lt;br&gt;iv. Construct essential market oriented infrastructures and establish processing facilities&lt;br&gt;v. Support smallholder cash crop farms; promote out-growers schemes in concessions and other large scale agricultural enterprises&lt;br&gt;vi. Control illegal fishing</td>
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<td>III.</td>
<td>3. Increasing public investments and creating enabling environment for agricultural and agribusiness development</td>
<td>i. Institute measures for macroeconomic stability, attractive incentives framework and an efficient regulatory environment&lt;br&gt;ii. Allocate at least 10% of national budget to agriculture sector&lt;br&gt;iii. Advocate for improved infrastructures to reduce transaction costs&lt;br&gt;iv. Ensure functional factor markets&lt;br&gt;v. Support an effective functional land market&lt;br&gt;vi. Mobilize investment resources</td>
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<td>IV</td>
<td>4. Enhancing food accessibility to the population</td>
<td>i. Improve farm-to-market roads as well as tertiary and secondary roads&lt;br&gt;ii. Facilitate access to inputs such as seeds and fertilizers&lt;br&gt;iii. Develop and implement safety nets for vulnerable households and groups&lt;br&gt;iv. Establish strategic food reserves</td>
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| V. | 5. Promoting food utilization | i. Ensure that foods and feeds produced are fit for human consumption  
ii. Strengthen information on nutrition  
iii. Promote diversification of household consumption patterns  
iv. Provide nutritional supplements for vulnerable households and groups |
| VI. | 6. Contributing to resettlement and reintegration programs | i. Distribute farming packages to include implements, planting materials and breeding stocks  
ii. Reactivate blacksmithing  
iii. Provide training in agriculture methods and life skills  
iv. Provide start-up kits to ex-combatants  
v. Prioritize involvement of trained ex-combatants in the rehabilitation of social infrastructures  
vi. Organize and support farmers cooperatives and Kuu system |
| VII. | 7. Supporting rural self-employment and self-reliant wage work to spur local economic development | i. Promote and support micro-enterprises  
ii. Improve access to finance and expanding basic education to economic agents  
iii. Encourage large farms and firms to generate productive wage and employment  
iv. Put in place appropriate regulations for conducive labor conditions |
| VIII. Enhanced Human and Institutional Capacities | 8. Instituting improved governance; promoting CSOs, decentralized service delivery | i. Promote a pluralistic approach to deriving agricultural innovations and extension services  
ii. Decentralize key support services  
iii. Reform and establish core functions and clarify roles of key institutions |
| | 10. Establish functional, public sector support framework | i. Strengthen capacities of public sector, particularly MOA  
ii. Enhance the effective management of agricultural statistics  
iii. Reform and establish core functions of key institutions and clarify roles.  
iv. Establish mechanisms for intro-sectoral and inter-ministerial harmonization |
| | 11. Reduce risks and improve coping mechanisms | i. Ensure participatory development and management of safety net programs  
ii. Encourage and support school feeding programs based on local foods  
iii. Promote transfer programs with high |

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<td>multiplier effects</td>
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<td>iv. Promote an institutional and financial environment lessening risk to smallholder families</td>
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<td>v. Sensitize and create awareness for service providers and beneficiaries</td>
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<td>12. Mainstream gender and youth participation in agriculture and rural development</td>
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<td>i. Ensure that women and youth have equal access to resources and support services</td>
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<td>ii. Ensure that sector programs and projects provide for women empowerment</td>
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<td>iii. Strengthen MOA in gender mainstreaming</td>
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<td>13. Ensure sustainable use and management of natural resources</td>
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<td>i. Pursue an inclusive partnership based approach with all stakeholders</td>
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<td>ii. Establish watershed protection, wetlands protection, biological diversity and stabilization of global climate</td>
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<td>iii. Support Environmental Impact Assessment in agriculture and forestry</td>
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<td>iv. Establish laws and guidelines for to protect the environment</td>
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<td>v. Support development of community land use plans</td>
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<td>vi. Ensure increased production of crops, fisheries, and livestock to sustainable use of natural resources.</td>
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<td>vii. Prioritize land tenure arrangements that support sustainable land management practices.</td>
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<td>viii. Introduce cropping systems such as conservation agriculture which conserve the natural resource base.</td>
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