



**AFRICAN DEVELOPMENT
BANK GROUP**

PROJECT : TOGO AGRO-FOOD PROCESSING PROJECT (PTA)

COUNTRY : TOGO

**SUMMARY OF THE STRATEGIC ENVIRONMENTAL AND SOCIAL
ASSESSMENT (SESA)**

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1. INTRODUCTION

The Togo Agro-Food Processing Project (PTA-Togo) forms part of Togo's new Agricultural Strategy, which aims to create more value added through production, processing and marketing, while ensuring social inclusion and environmental protection. To this end, PTA-Togo is seeking to gradually pool various support (water, energy, transport, etc.), agro-industrial activity promotion and service development infrastructure (IT, finance, etc.) within one area.

In accordance with the requirements of the Integrated Safeguards System (ISS), the project has been classified under Category 1 due to the magnitude of the expected environmental and social impacts (project covering over 2000 ha of land for irrigation purposes or the expected construction of more than 50 km of road). The Togo Agro-Food Processing Zone Project provides for encroachment on a total area of 165 000 ha, within which provision has been made to build small dams and irrigation schemes of 1000 to 2000 ha, as well as feeder roads of at least 130 km.

However, at this stage of the project, not all the sites to be developed have been identified and not all the technical characteristics of the investments have been determined. It is against this backdrop that, in accordance with Law 2008-005 on the Environmental Framework Law of Togo and the procedures of the African Development Bank (AfDB), it was deemed necessary to prepare a Strategic Environmental and Social Assessment (SESA), to ensure that the environmental and social issues of future project activities are factored in from planning up to implementation, monitoring/evaluation for the entire production and processing zone.

The SESA environmental and social review procedure will form an integral part of the general activity approval and funding procedure. The implementation of the SESA will take into account the AfDB Group's safeguarding policies and will be conducted in compliance with the environmental laws of the Republic of Togo for each activity to be developed on the site. In this regard, Environmental and Social Impact Assessments (ESIAs), Resettlement Action Plans (RAPs) and Pest and Pesticide Management Plans (PMPs) are being prepared to study the impacts of the currently known sub-projects such as the Agropark infrastructure, infrastructure of the processing zone (small dams, feeder roads, irrigated and rain-fed areas, developed lowlands, and social infrastructure), as well as the transmission line (electricity, ICT). The SESA was approved by Togo National Environmental Management Agency (ANGE) on 23 February 2018.

The SESA summary presents: (i) the project; (ii) the environmental and social profile of the project's impact area as well as the environmental issues and constraints; (iii) the project's legal, administrative and institutional framework; (iv) analysis of alternatives; (v) public consultations; (vi) expected impacts, both positive and negative; (vii) proposed mitigation

measures; (viii) environmental and social management framework plan; (ix) institutional measures to be taken during programme implementation, including those relating to capacity building; and (x) the cost of technical monitoring measures.

1.1. Project Context and Components

The Togo Agro-Food Processing Project (PTA-Togo) forms part of Togo's new Agricultural Development Strategy, which aims to create value added along the agricultural value chain, notably production, processing and marketing, while ensuring social inclusion and environmental protection.

The PTA will comprise an Agropark intended for industrial units (located in Broukou) and a peripheral zone estimated at 165 000 ha, where the various stakeholders present in the project's impact area will carry out agricultural production in the key sectors.

The specific objectives are: (i) to promote private investment by implementing the PTA in Kara Region and provide attractive conditions and incentive measures for the development of industrial processing activities; (ii) promote value chains through stakeholder capacity building, and support infrastructure for production and processing.

In this regard, the PTA promotes agro-food processing areas where the primary factors of production (water, energy, transport, etc.), development and production support (agro-industrial units, development of services (IT, finance, etc.) are gradually made available to the stakeholder community. The complexity of such a programme warrants the identification of strategic thrusts, particularly in terms of the ecological and social dimensions.

This is the rationale behind the strategic assessment, which will focus on all potential environmental and social issues associated with the development of the PTA.

1.2. Methodology

In line with the principle underpinning the project described above, the inclusive approach which embraces all PTA stakeholders is essential. Through this approach, the different stakeholders' opinions and suggestions are incorporated as the operational strategy is fine-tuned, in strict compliance with the guidelines of the African Development Bank Group regarding the environmental and social assessment procedures as well as the policies and laws of Togo regarding the PTA.

The investigations were based on three key areas of intervention:

1. Basic data collection and documentary review;
2. Holding of institutional meetings with PTA decision-makers and beneficiaries, and the Technical Ministries;
3. Interviews and consultations with potential project targets.

1.3. Project Components and Sub-Components

PTA-Togo comprises the following four (4) components: (A) support policies for institutions tasked with promoting agro-food processing zones; (B) infrastructure development; (C) stakeholder capacity building; and (D) project coordination and management. Table 1 details the project sub-components.

Table 1: Project Components

Components	Description of the Components
A/ Support policy, governance and incentive measures	<p>A1/ Support policies and improvement of the PTA operational framework</p> <ul style="list-style-type: none"> • Support for the development of a legal, policy and regulatory framework to encourage private investment and development of APZs • Support for access facilitation and land tenure security <p>A2/ Establishment of the Kara PTA Governance System</p> <ul style="list-style-type: none"> • Technical support to the national structure for promoting APPs • Support for the start-up of the Broukou Agropark Management Company <p>A3/ Strengthening State and non-State public institutions</p> <ul style="list-style-type: none"> • Support for research and training institutes, as well as seed and food quality control services • Consolidation of financing facilities (LC, bonus fund, etc.) • Specifications / best practice guides for key sectors (including organic) • Support for the acquisition of civil status documents, especially for women/youth
B/ Infrastructure for processing and accessing agricultural inputs and services	<p>B1/ Broukou Agropark Infrastructure</p> <ul style="list-style-type: none"> • Infrastructure financed from public funds: (i) development works, roads and utilities (water supply, electricity, telecom, etc.); (ii) an administrative block (including residential block); (iii) a services block (laboratory, business incubator, maintenance, etc.); and (iv) social/public facilities (health centre, restaurant, etc.); • Private processing units / services (rice, cashew nuts, poultry, etc.) <p>B2/ Infrastructure for aggregation and accessing agricultural inputs and services (agro-food processing centres - CTAs)</p> <ul style="list-style-type: none"> • Construction/equipment of 10 CTAs (irrigation schemes, lowlands, rain-fed zones) • Rehabilitation of main (80 km) and secondary (50 km) roads <p>B3/ Support infrastructure for agricultural production</p> <ul style="list-style-type: none"> • Construction of 3 mini-dams (Agropark), and irrigation schemes; • Uprooting, light levelling and WSC works (lowlands and rain-fed zones)
C/ Capacity building for actors in priority agricultural sectors	<p>C1/ Capacity building for agricultural producers</p> <ul style="list-style-type: none"> • E-systems: (i) Identification of producers (e-Farmer); (ii) Supply of inputs (e-Inputs); (iii) Services management (e-Services); (iv) Harvest aggregation (e-aggregation); and (v) Payments systems (e-Payments); • Support to producer networks, technical and management training (30% women) and acquisition of certified seeds for the first year of cultivation; • Livestock component: (i) broilers for women /youth (public funds) and SMEs (private funds); and (ii) fish ponds: women/youth and SMEs <p>C2/ Community capacity building</p> <ul style="list-style-type: none"> • Creation/ rehabilitation of DWS mini- networks (village centres) and mixed PMH; • Electrification of village centres hosting CTAs; • Reforestation of bare/eroded soil and manufacture of improved stoves (5000) <p>C3/ Strengthening central and decentralized services</p> <ul style="list-style-type: none"> • Action plans for the integrated management of protected areas and pesticides, and a master plan for wastewater and solid waste; • Capacity building in environmental and social management, gender and climate smart agriculture; • Monitoring ESMP implementation
D/ Coordination, management, monitoring and evaluation	<p>(i) Steering and coordination ; (ii) administrative, financial and accounting management; (iii) monitoring and evaluation (M & E)</p>

Only component B activities are likely to generate environmental and social impacts and thus require environmental work, as well as an environmental and social assessment as appropriate.

2. ENVIRONMENTAL AND SOCIAL PROFILE IN TARGET AREAS

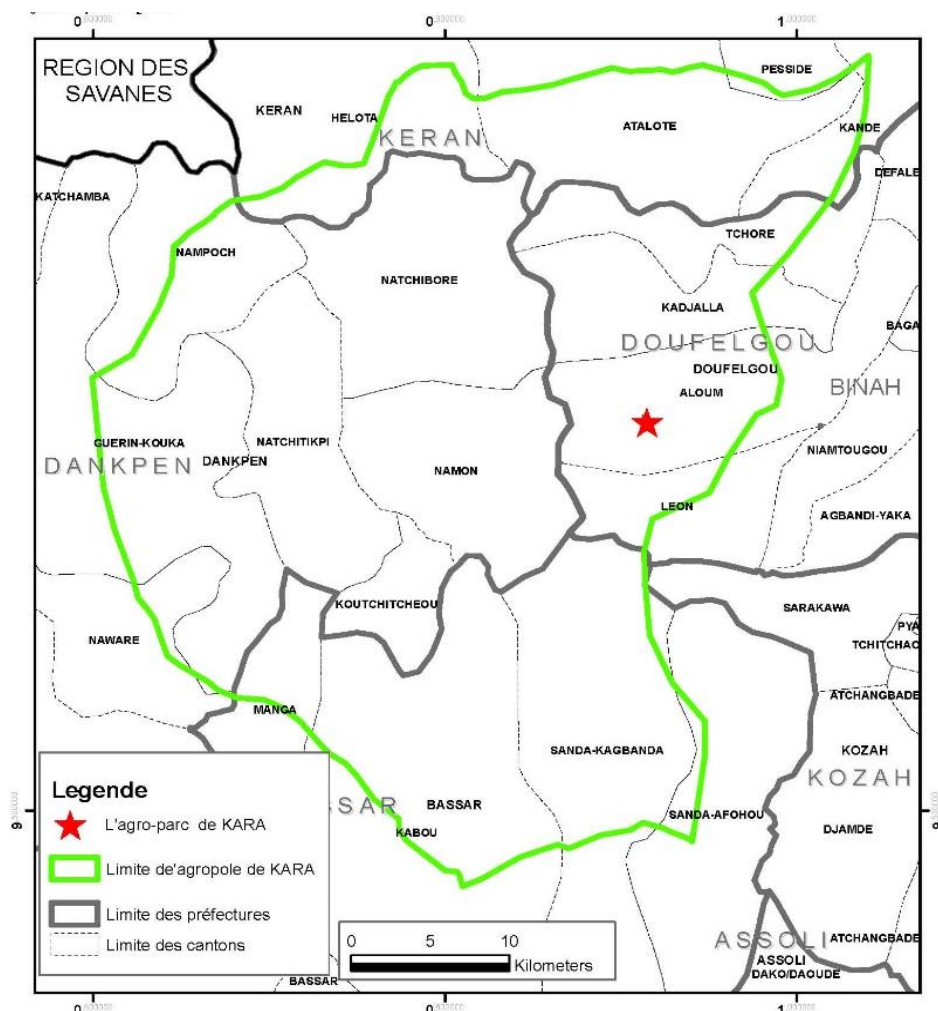
The environmental and social profile presents the relevant aspects of the current environmental situation as well as its possible evolution. It summarizes the baseline data and presents, in particular, the environmental and social issues, mainly in the target areas of the project. The detailed environmental profile is appended as annex.

2.1. Geographic and Administrative Situation of the PTA-Togo Intervention Zone

A West African country, Togo lies between Latitudes 6° and 11° North, and Longitudes 0° and 1.6° East. It has a total area of 56 785 km².

The country is divided administratively into five *Regions*: Savanes, Kara, Central, Plateaux and Maritime. The regions are divided into 39 *Prefectures*, which are themselves sub-divided into *Communes*. Togo has 116 communes. PTA-Togo concerns the Kara region. It covers four of its seven prefectures (Doufelgou, Kéran, Dankpen and Bassar) and 19 *Cantons*.

Figure 1: Project Impact Area



2.1. Identification of Environmental and Social Issues

The key environmental issues associated with the PTA-Togo intervention zone are detailed below. They concern the environmental components relating to soil resources, water, and biodiversity.

➤ Regarding Natural Resources

Table 1: Overall Environmental Issues in the PTA Area

Target Areas	Components	Issues
Kara Region/ Prefectures (Doufelgou, Kéran, Dankpen and Bassar)	Soil Resources	Poor farming practices reducing farm yields and the agronomic potential of farmland; Pedological diversity providing crop diversification opportunities.
	Water resources	A dense hydrographic network revealing many lowlands exploitable for agro-pastoral activities; A little known hydro-geological potential, exploitable through deep boreholes and sensitive to natural (evaporation) and anthropic (offtake) factors; Huge hydrological potential through irrigated and rain-fed agriculture.
	Biodiversity	High erosion, significant wildlife potential due to poaching activities; A plant diversity to preserve.
	Ecosystem services	A huge ecosystem services niche (supply, cultural, regulation, etc.) for local communities.

➤ Environmental and Social Issues associated with the Implementation of PTA-Togo Components

The main environmental issues associated with the PTA components are summarized in the Tables below.

Table 3: Summary of Issues by Component

Infrastructure and Services	Issues
B. INFRASTRUCTURE FOR PROCESSING AND ACCESSING AGRICULTURAL INPUTS AND SERVICES	
B1. Infrastructure of Broukou Agropark (Kara Region)	
Development works, roads and utilities	<ul style="list-style-type: none"> • Management of air quality and preservation of health from pollution (prevention of ARI) • Prevention of traffic accidents • Management of land disputes (easement clearance)
Construction works of the DWS treatment station	<ul style="list-style-type: none"> • Prevention of social risks • Management of work accidents • Sustainable management of effluents • Management of land disputes (easement clearance)
MV power line works	<ul style="list-style-type: none"> • Pollutant (PCB and others) management and control • Management and control of birdlife collisions and short circuiting • Management of land disputes (easement clearance)
Telecommunications fibre optic works	<ul style="list-style-type: none"> • Management of accident risks during digging of pits • Management of easement clearance –related social disputes

Infrastructure and Services	Issues
Agricultural products processing units	<ul style="list-style-type: none"> • Management of land-related disputes (easement clearance) • Management of water offtake and discharge issues; • Sustainable waste management involving recycling, reduction of packaging, etc. • Prevent the transfer of pollutants to the environment (water, air and soil) • Control of energy consumption; • Reduction of emissions of greenhouse gas and other air pollutants; • Occupational risk management (health and safety at work)
Installation of a hatchery	<ul style="list-style-type: none"> • Control of accident and/or explosion risks • Management of land disputes (easement clearance)
Breeding unit for the production of fingerlings and fry for supply to fish farmers	<ul style="list-style-type: none"> • Management and prevention of water offtake - related social risks • Management of carnivorous birds • Management of liquid effluents from fishponds
Installation of an egg production unit	<ul style="list-style-type: none"> • Control of waste management • Prevention of animal diseases • Control of accident and/or explosion risks • Management of land disputes (easement clearance)
Building of a distribution centre for fertilizers, crop and livestock protection products and equipment	<ul style="list-style-type: none"> • Prevention of product contamination • Prevention of risk of social conflicts • Control of accident and/or fire risks
Slaughter unit (2000 chicken/hour) and poultry meat processing and packaging	<ul style="list-style-type: none"> • Waste management (solid and liquid) from poultry slaughter • Control of unpleasant smell • Control of energy consumption • Prevention of meat contamination risks • Management of land disputes (easement clearance)
B2. Facilities for access to agricultural inputs and services (CTA-focus villages)	
Stores and warehouses	<ul style="list-style-type: none"> • Management and control of rodents • Management and control of fungi that can degrade product quality • Prevention and control of building fires • Control and prevention of contamination of stored products • Management of land disputes (easement clearance)
Rehabilitation of farm access roads	<ul style="list-style-type: none"> • Management of air quality and preservation of health from pollution (prevention of ARI) • Control of traffic accidents • Management of land disputes (easement clearance)
B3. Support infrastructure for agricultural, poultry and fish production	
Construction of small dams and irrigation facilities	<ul style="list-style-type: none"> • Control of livestock contamination by plant protection products and packaging • Flood control (dam failure) • Control of offtake and management of liquid effluents • Management of land disputes (easement clearance)
Poultry farming	<ul style="list-style-type: none"> • Control of nuisances (noise, air quality) • Waste management and control • Management and control of bird diseases
Fish farming	<ul style="list-style-type: none"> • Management of offtake and liquid effluents • Management and prevention of carnivorous birds • Management of packaging waste (e.g. fishmeal) • Control of the water supply and protective dykes (e.g. breaking of dykes)

3. ENVIRONMENTAL ASSESSMENT POLICY, ADMINISTRATIVE AND LEGAL FRAMEWORK

3.1. National and International Policy and Regulatory Framework Applicable to the Project

This study was conducted in accordance with the national and international policy framework and strategies and programs relating to agriculture and industry.

At the national level, the project is consistent with:

- Agricultural Policy Paper for the period 2016-2030
- Regional Planning Policy
- National Environment Policy
- National Water Policy
- National Equity and Gender Equality Policy
- Accelerated Growth and Employment Promotion Strategy 2013-2017
- National Implementation Strategy for the United Nations Framework Convention on Climate Change
- National Biodiversity Strategy and Action Plan
- National Sustainable Development Strategy (SNDD)
- National Environment and Natural Resources Investment Programme
- National Action Programme to Combat Desertification
- National Plan for Agricultural Investment and Food and Nutritional Security
- National Action Plan for the Water and Sanitation Sector – Vision 2015
- National Action Plan for Adaptation to Climate Change
- National Implementation Plan for the Stockholm Convention on Persistent Organic Pollutants in Togo
- National Forest Action Plan
- National Environmental Action Plan
- National Profile to Assess Chemicals Management Infrastructure and Capabilities
- National Strategy for the Conservation and Sustainable Use of Biodiversity.

At the international level, the project is aligned on regional agricultural policies, strategies and programmes, notably:

- ECOWAS Agricultural Policy
- ECOWAS Environmental Policy
- West African Water Resources Policy
- ECOWAS Forest Policy
- WAEMU Agricultural Policy
- Common WAEMU Environmental Improvement Policy
- Regional Strategy for Poverty Reduction in West Africa
- Regional Strategy for the Promotion of Fertilizers in West Africa
- Detailed Programme of Development of African Agriculture
- Sub-regional Action Programme to Combat Desertification in West Africa and Chad
- Sub-regional Action Programme for Vulnerability Reduction in West Africa.

3.2. Safeguard Policies of the African Development Bank (AfDB)

The AfDB's long-term strategy (2013-2022) emphasizes the need to support regional member countries (RMCs) in their effort to achieve inclusive growth and transition to a green economy will be applied across the board.

Furthermore, the AfDB's new Integrated Safeguards System (ISS) will be considered to promote the sustainability of project outcomes by protecting the environment and people from the potential negative impacts.

4. OPTIONS ANALYSIS

Two variants were analysed:

- The "without project" scenario; and
- The "with project" scenario.

The "without project" scenario would mean maintaining the "status quo", where the agricultural potential of the area cannot be maximized owing to constraints in terms of access, storage, packaging and product processing. With this option, there is no development of the area's agricultural potential, no agribusiness investments, no commercial development of certain local agricultural products, etc.

Conversely, implementing the project will provide a key opportunity for the economic and social development of the area concerned. The "with project" option, known as inclusive, will foster the development of agribusiness while taking into account local producers, in a bid to preserve natural resources and prevent or considerably reduce social tensions, in particular those related to land disputes.

The expected positive effects are by far more significant thanks to rational water and land management through adapted facilities. At the social level, impacts will concern: contribution to food security; the fight against hunger; creation and development of agricultural jobs.

5. POTENTIAL IMPACTS AND MITIGATION MEASURES

5.1. Expected Positive and Negative Environmental and Social Impacts

5.1.1. Positive Environmental and Social Impacts

With the implementation of the PTA, it is reasonable to expect a strengthening and expansion of the primary sector (livestock, agriculture, fishing, etc.), improved access to key producing areas, improved transport system (rehabilitation of farm access roads), and storage facilities (construction of stores and warehouses) in the project area.

Table 4: Summary of the Positive Impacts of Providing Infrastructure for Processing and Accessing Agricultural Inputs and Services

Infrastructure and services	Positive impacts
B. INFRASTRUCTURE FOR PROCESSING AND ACCESSING AGRICULTURAL INPUTS AND SERVICES	
B1. Broukou Agropark (Kara) Infrastructure	
Development works, roads and utilities	<ul style="list-style-type: none"> • Improved mobility of people and goods • Improved living environment for the communities
Construction works of the DWS treatment station	<ul style="list-style-type: none"> • Access to quality water facilitated • Promotion of development of other activities (agriculture, stockbreeding, etc.) • Reduced waterborne diseases attributable to the consumption of unsafe water (untreated surface water) • Less drinking water supply problems, especially for women • Improved living conditions of the populations • Improved hygiene conditions • Improved post-harvest techniques • Qualitative and quantitative improvement of production and services • Decreased difficulty associated with work (especially for women) • Project’s sustainability factor • Control of diseases such as bilharzia
MV power line works	<ul style="list-style-type: none"> • Promotion of access to electricity • Development of other services • Promotion of modern equipment use • Clean, quiet and inexhaustible energy provided • Improved hygiene conditions (preservation of product) • Improved post-harvest techniques (processing, products conservation) • Qualitative and quantitative improvement of production and services • Decreased difficulty associated with work (notably for women): use of mill and other equipment • Improved income due to better value of products • Reduction of agricultural product losses • Project’s sustainability factor

Infrastructure and services	Positive impacts
Telecommunications fibre optic works	<ul style="list-style-type: none"> • Access to new information and communication technologies (NICT) facilitated • Access to information facilitated • Job creation and improvement of temporary and permanent income during the preparatory phases and works • Improved quality and conditions of access to telecommunication services • Improved access to regions (link-up with other geographic and administrative entities, population census, etc.) • Creation of permanent jobs and improvement of the people's living standard and environment • Improved social cohesion • Improved teaching, research and education quality • Accelerated economic growth and market adaptability; • Economic opportunities and strengthening of social networks in rural areas;
Business incubator	<ul style="list-style-type: none"> • Contribution to the reconstitution of the genetic potential • Development of village schemes
Agricultural product processing units	<ul style="list-style-type: none"> • Promotion of agricultural product development • Poverty reduction • Local product development • Promotion of local employment
Installation of a hatchery	<ul style="list-style-type: none"> • Poverty reduction • Development of income-generating activities • Fight against malnutrition through the intake of animal protein
Breeding unit for the production of fingerlings and fry for supply to fish farmers	<ul style="list-style-type: none"> • Poverty reduction • Development of fish farming
Installation of an egg production unit	<ul style="list-style-type: none"> • Poverty reduction • Development of income-generating activities
Building of a distribution centre for fertilizers, crop and livestock protection products and equipment	<ul style="list-style-type: none"> • Improved yields • Development of agricultural activities • Improved working conditions of producers
Slaughter unit (2000 chickens/hour) and poultry meat processing and packaging	<ul style="list-style-type: none"> • Poverty reduction • Fight against malnutrition
Cold store chain	<ul style="list-style-type: none"> • Improved storage conditions for agricultural products • Fight against fresh produce harvest losses
B2. Facilities for access to agricultural inputs and services (CTA-focus villages)	
Stores and warehouses	<ul style="list-style-type: none"> • Production secured • Improved storage conditions for products • Fight against rodent and pest attacks
Rehabilitation of farm access roads	<ul style="list-style-type: none"> • Mobility of people and goods facilitated • Contribution towards improved access to localities and production sites • Time savings: decreased work difficulty (especially for women) • Qualitative and quantitative improvement of production and services • Reduced agricultural product losses • Access to basic social services facilitated
B3. Support infrastructure for agricultural, poultry and fish production	

Infrastructure and services	Positive impacts
Construction of small dams and irrigation facilities	<ul style="list-style-type: none"> • Improved living conditions of the population • A framework conducive for product production and marketing • Optimal water resource management • Development of lowlands • Reduced rural exodus • Contribution to improved access
Poultry farming	<ul style="list-style-type: none"> • Poverty reduction • Improved living conditions of the population • Fight against malnutrition • Increased income of the population
Fish farming	<ul style="list-style-type: none"> • Poverty reduction • Contribution to food security • Development of fishing potential

5.1.2 Negative Environmental and Social Impacts of PTA Implementation

The following activities may have negative environmental and social impacts:

- Development , roads and utilities of the Agropark
- WWTP and the DWS treatment station construction works
- MV power line supply works
- Telecommunications fibre optic works
- Development of business incubators
- Building of processing units (eggs, poultry meat slaughtering and processing, fertilizer, distribution of crop protection products, livestock health products, fish products, cereals, rice, cashew nuts, sesame seeds)
- Provision of a hatchery
- Provision of a breeding unit for the production of fry to supply fish farmers
- Provision of stores and warehouses
- Rehabilitation of farm access roads
- Construction of a dam and irrigation facilities
- Poultry activities
- Fish farming activities

The project's negative environmental and social impacts as a result of project activities will mainly concern Components B-Infrastructure for processing and for accessing agricultural inputs and services at the level of Sub-components B1-Infrastructure of the Kara agro-food processing zone (APZ), B2- Infrastructure for accessing agricultural inputs and services (CTA

focus centre villages) and B3-Support Infrastructure for agricultural, poultry and fish production.

Table 5: Summary of Negative Impacts of Activities relating to the Provision of Infrastructure for Processing and for Accessing Agricultural Inputs and Services

Infrastructure and services	Negative impacts
B. INFRASTRUCTURE FOR PROCESSING AND FOR ACCESSING AGRICULTURAL INPUTS AND SERVICES	
B1. Broukou (Kara) Agropark Infrastructure	
Development works, roads and utilities	<ul style="list-style-type: none"> • Degradation of air quality and risk of respiratory disease (ARIs) • Increased risk of accidents • Loss of plant diversity • Risk of social conflict (compensation of PAPs) • Risk of diseases such as STIs/HIV/AIDS • Road wear and tear over time
Construction works of the DWS water treatment plant and WWTP	<ul style="list-style-type: none"> • Degradation of air quality and risk of respiratory disease (ARIs) • Increased risk of accidents • Risk of conflicts around new water points • Increased risk of accidents • Risk of social conflict (compensation of PAPs) • Risk of diseases such as STIs/HIV/AIDS • Risk of breakdown of facilities
MV power line and telecom fibre optic supply works	<ul style="list-style-type: none"> • Social conflicts related to easement clearance, • Risk of land disputes, etc. • Risk of wildlife electrocution and/or collision with possible loss of life are to be feared, • Greenhouse gas emissions (e.g. PCBs in transformers), etc. • Frustration where village electrification criteria are not objective, equitable, transparent and well understood by project area dwellers.
Business incubator	<ul style="list-style-type: none"> • Risk of proliferation of harmful species • Impacts on water consumption
Agricultural product processing units	<ul style="list-style-type: none"> • Degradation of air quality and risk of respiratory disease (ARIs) • Increased risk of accidents • Loss of plant diversity • Risk of social conflicts (compensation of PAPs) • Risk of diseases such as STIs/HIV/AIDS • Waste generation • Risk of soil and water pollution • Risk of technological and industrial accidents • Risk of diseases such as STIs/HIV/AIDS
Setting up of a hatchery	<ul style="list-style-type: none"> • Risk of accidents and/or explosions due to the presence of the machinery
Breeding unit for the production of fry to supply fish farmers	<ul style="list-style-type: none"> • Loss of plant diversity following easement clearance, accident risks, • Risk of accidents due to the presence of machinery, • Risk of conflicts due to use of water resources, • Risk of pollution of water resources due to discharge of liquid effluents, etc.

Infrastructure and services	Negative impacts
Provision of an egg production unit	<ul style="list-style-type: none"> • Waste management (broken eggs, droppings, packaging products); • Management of various nuisances (smells and noises); • Risk of bird diseases, • Accident risks (fire),
Provision of a distribution centre for fertilizers, crop and livestock protection products and equipment	<ul style="list-style-type: none"> • Soil contamination risks, • Accidents and/or explosion due to the presence of machinery, • Risk of social conflict in the absence of transparency in management and distribution
Slaughter unit (2000 chickens/hour) and poultry meat processing and packaging	<ul style="list-style-type: none"> • Risk of degradation of the living environment: waste management (feathers, viscera of chickens, etc.), • Risk of pollution of water resources by liquid effluents (washing water containing blood), • Occupational hazards (work accidents)
Cold chain unit	<ul style="list-style-type: none"> • Atmospheric degradation (greenhouse effect) due to use of refrigerant fluids, • Risk of explosion due to the presence of machinery
B2. Infrastructure for accessing agricultural inputs and services (CTA-focus villages)	
Stores and Warehouses	<ul style="list-style-type: none"> • Impacts on biodiversity • Land disputes related to acquisition of the site • Risk of occupational accidents • Degradation of the living environment due to generation of inert waste • Health risks related to packaging and storage flaws • Risk of proliferation of rodents and other pests (e.g. fungi)
Rehabilitation of farm access roads	<ul style="list-style-type: none"> • Degradation of air quality and risk of respiratory disease (ARIs) • Increased risk of accidents • Loss of plant diversity • Risk of social conflict (compensation of PAPs) • Risk of diseases such as STIs/HIV/AIDS • Risk of traffic accidents • Wear and tear of farm access roads over time • Risk of respiratory diseases ARIs
B3. Support infrastructure for agricultural, poultry and fish production	
Construction of a dam and irrigation facilities	<ul style="list-style-type: none"> • Risk of disturbance of stream spawning areas • Deforestation, soil degradation through erosion, habitat destruction during clearing • Destruction of micro fauna and organic matter • Loss of grazing land (encroachment on sylvo-pastoral areas) • Increase in water-borne diseases • High land and water stress with increased development • Possible loss of income or property during construction • Risk of diseases such as STIs/HIV/AIDS
Poultry farming	<ul style="list-style-type: none"> • Noise and dust emissions • Accident risks • Bodily injury • Degradation of air quality • Bird diseases • Emission of odours due to droppings • Health risks for employees • Inconveniences and nuisances due to the presence of chicks • Fire hazards due to the presence of sawdust

Infrastructure and services	Negative impacts
Fish farming	<ul style="list-style-type: none"> • Loss of plant diversity • Degradation of soil quality • Disturbance of surrounding ecosystems (streams, bodies of water, soils) • Development of insects and other vectors of water-borne diseases (malaria, bilharzias) • Increased competition over water use • Risk of social conflict with the local population • Downstream water use problem • Destruction of vegetation • Water pollution by liquid effluents

5.1.3. The Cumulative Negative Impacts of Project Activities

Significant cumulative effects here are changes in the environment due to project activities coupled with other past, present, and future human activities. There are two possible cases: (i) more of similar (identical) projects, being implemented simultaneously or successively and having the same minor or moderate negative effects on a given area, but the cumulative effect of which may prove detrimental to the environment; (ii) implementation of different projects, generating minor or moderate negative individual impacts, but whose cumulative effect may be harmful for the community. For instance, the development of a depression (lowland) in a watershed could have a limited impact. However, the development of the majority of natural depressions could change the nature of the watershed, thus warranting a broader assessment.

A concerted approach with projects in the area should create the conditions for a fruitful synergy for the monitoring and efficient management of such cumulative impacts.

5.2. Measures to Mitigate Negative Impacts

The following mitigation measures are proposed for managing the negative impacts of PTA activities as well as enhancing the sustainability of the positive effects.

The mitigation measures concern:

- Negative impacts of the Broukou Agropark facilities;
- Negative impacts of support infrastructure for agricultural, poultry and fish production;
- Negative impacts of infrastructure for accessing agricultural inputs and services (CTA-focus villages).

Table 6: Measures to Mitigate the Negative Impacts of the Broukou (Kara) Agropark Infrastructure

Activities	Negative Impacts	Mitigation Measures
Development works, roads and utilities	<ul style="list-style-type: none"> • Degradation of air quality and risk of respiratory disease (ARIs) 	<ul style="list-style-type: none"> • Regular watering to prevent the raising of dust

Activities	Negative Impacts	Mitigation Measures
	<ul style="list-style-type: none"> • Increased risk of accidents • Loss of plant diversity • Risk of social conflict (compensation of PAPs) • Risk of diseases such as STIs/HIV/AIDS • Road wear and tear over time 	<ul style="list-style-type: none"> • Supply appropriate PPE • Carry out compensatory reforestation • Sensitize and compensate PAPs • Raise awareness about risk of diseases such as STIs/HIV/AIDS
Construction works of the DWS treatment plant	<ul style="list-style-type: none"> • Degradation of air quality and risk of respiratory disease (ARIs) • Risk of affecting water resources (over-exploitation of water tables and pollution of surface and ground water resources) • Risk of conflicts around new water points • Increased risk of accidents • Loss of plant diversity • Risk of social conflict (compensation of PAPs) • Risk of diseases such as STIs/HIV/AIDS • Risk of breakdown of facilities 	<ul style="list-style-type: none"> • Provide hedgerows when crossing inhabited areas to reduce dust emission • Provide speed bumps when crossing inhabited areas • Carry out compensatory reforestation • Raise awareness about risk of diseases such as STIs/HIV/AIDS • Compensate all PAPs • Monitor and maintain dikes
Construction works of the wastewater treatment plant (WWTP)	<ul style="list-style-type: none"> • Deforestation and loss of plant diversity • Risk of social conflict (compensation of PAPs) • Risk of affecting water resources (production of effluents) • Unpleasant smell 	<ul style="list-style-type: none"> • Carry out compensatory reforestation • Compensate all PAPs • Pre-treatment and pre-discharge characterization of wastewater • Location of facilities based on prevailing winds
MV power line and telecom fibre optic works	<ul style="list-style-type: none"> • Social conflicts related to easement clearance • Risk of land disputes, etc. 	<ul style="list-style-type: none"> • Raise awareness and pay the costs • Put up scarecrows on power lines to avoid collision with

Activities	Negative Impacts	Mitigation Measures
	<ul style="list-style-type: none"> • Risk of wildlife electrocution and/or collision, with possible loss of life is to be feared, • Greenhouse gas emissions (e.g. PCBs in transformers), etc. • Frustration where village electrification criteria are not objective, equitable, transparent and well understood by project area dwellers. 	<p>birds</p> <ul style="list-style-type: none"> • Put in place a hazardous waste (e.g. PCB) management plan • Raise awareness about the objectives of electrification and access to the telecommunications network
Business incubator	<ul style="list-style-type: none"> • Risk of proliferation of harmful species • Impacts on water consumption 	<ul style="list-style-type: none"> • Provide a borehole capable of accommodating (optimal flow) the water consumption of the Agropark • Combat pest attacks
Agricultural product processing units	<ul style="list-style-type: none"> • Degradation of air quality and risk of respiratory disease (ARIs) • Increased risk of accidents • Loss of plant diversity • Risk of social conflicts (compensation of PAPs) • Waste generation • Risk of soil and water pollution • Risk of technological and industrial accidents • Risk of diseases such as STIs/HIV/AIDS 	<ul style="list-style-type: none"> • Make regular allocations of appropriate PPE (masks) to Agropark employees • Educate employees about accident risks and collective and individual prevention methods • Carry out compensatory reforestation for revegetation purposes • Educate communities and employees about the risk of diseases such as STIs/HIV/AIDS
Setting up of a hatchery	<ul style="list-style-type: none"> • Risk of accidents and/or explosions due to the presence of the machinery 	<ul style="list-style-type: none"> • Put in place an emergency plan • Conduct periodic internal audit of equipment
Breeding unit for the production of fry to supply fish farmers	<ul style="list-style-type: none"> • Loss of plant diversity following easement clearance, risk of accidents • Risk of accidents due to the presence of machinery 	<ul style="list-style-type: none"> • carry out compensatory reforestation for revegetation purposes • Put in place a PIO • Conduct internal audits on

Activities	Negative Impacts	Mitigation Measures
	<ul style="list-style-type: none"> • Risk of conflicts due to use of water resources, • Risk of pollution of water resources due to discharge of liquid effluents, etc. 	<p>equipment status</p> <ul style="list-style-type: none"> • Put in place a water discharges management procedure
Provision of an egg production unit	<ul style="list-style-type: none"> • Risk of deterioration of living conditions (broken eggs, droppings, packaging products); • Risk of various nuisances (smell and noise); • Risk of bird diseases, • Risk of accidents (fire) 	<ul style="list-style-type: none"> • Put in place a waste management procedure • Track subjects to prevent animal diseases
Provision of a distribution centre for fertilizers, crop and livestock protection products and equipment	<ul style="list-style-type: none"> • Risk of soil contamination • Accidents and/or explosion due to the presence of machinery • Risk of social conflict in the absence of transparency in management and distribution 	<ul style="list-style-type: none"> • Waterproof product depots areas (fertilizers, crop protection products, etc.) • Put in place a management committee to avoid the risk of social conflict
Slaughter unit (2000 chickens/hour) and poultry meat processing and packaging	<ul style="list-style-type: none"> • Risk of degradation of the living environment: waste management (chicken feathers, viscera, etc.), • Risk of pollution of water resources by liquid effluents (washing water containing blood), • Occupational hazards (work accidents) 	<ul style="list-style-type: none"> • Put in place a waste management procedure • Put in place a liquid effluent management procedure • Raise employee awareness on collective and individual prevention methods • Make regular allocations of adapted PPE
Cold chain unit	<ul style="list-style-type: none"> • Atmospheric degradation (greenhouse effect) due to use of refrigerant fluids, • Risk of explosion due to the presence of machinery 	<ul style="list-style-type: none"> • Use certified refrigerants • Conduct an internal audit of equipment

Table 7 : Measures to Mitigate the Negative Impacts of Support Infrastructure for Agricultural, Poultry and Fish Production

Activities	Negative impacts	Mitigation measures
Construction of small dams and irrigation facilities	<ul style="list-style-type: none"> • Risk of disturbance of stream spawning areas • Deforestation, soil degradation through erosion, habitat destruction during clearing • Destruction of micro fauna and organic matter • Loss of grazing land (encroachment on sylvo-pastoral areas) • Increase in water-borne diseases • High land and water stress with increased development • Possible loss of income or property during construction • Risk of diseases such as STIs/HIV/AIDS 	<ul style="list-style-type: none"> • Raise awareness about the risk of diseases such as STIs/HIV/AIDS • Carry out compensatory reforestation for revegetation purposes • Develop transhumance corridors to allow livestock access to grazing areas • Provide crop residues for livestock
Poultry farming	<ul style="list-style-type: none"> • Noise and dust emissions • Risk of accidents • Bodily injury • Degradation of air quality • Bird diseases • Odour emissions due to droppings • Health risks for employees • Inconveniences and nuisances due to the presence of chicks • Fire hazards due to the presence of sawdust 	<ul style="list-style-type: none"> • Control of bird diseases • Provide appropriate PPE • Put in place a waste management procedure • Provide fire extinguishers to fight fire outbreaks • Carry out periodic medical consultations for employees
Fish farming	<ul style="list-style-type: none"> • Loss of plant diversity • Degradation of soil quality • Disturbance of surrounding ecosystems (streams, bodies of water, soils) • Proliferation of insects and other vectors 	<ul style="list-style-type: none"> • Carry out compensatory reforestation • Carry out disinfection campaigns on water bodies to control germs • Put in place transhumance

Activities	Negative impacts	Mitigation measures
	<p>of water-borne diseases (malaria, bilharzias)</p> <ul style="list-style-type: none"> • Increased competition over water use • Risk of social conflict with the local population • Downstream water use problem • Loss of vegetation • Water pollution by liquid effluents 	<p>corridors in agreement with the various stakeholders</p> <ul style="list-style-type: none"> • Provide temporary drinking troughs to facilitate water access for livestock

Table 8: Measures to Mitigate the Negative Impacts of Infrastructure for Accessing Agricultural Inputs and Services (CTA-focus villages)

Activities	Negative impacts	Mitigation measures
Stores and Warehouses	<ul style="list-style-type: none"> • Loss of plant diversity • Risk of land disputes related to the acquisition of the site • Risk of occupational accidents • Degradation of the living environment • Consumer health issues due to product packaging conditions • Risk of proliferation of rodents and pests 	<ul style="list-style-type: none"> • Degradation of air quality and risk of respiratory disease (ARIs) • Increased risk of accidents • Loss of plant diversity • Risk of social conflicts (compensation of PAPs) • Risk of diseases such as STIs/HIV/AIDS • Risk of traffic accidents • Wear and tear of farm access roads over time • Risk of respiratory diseases (ARIs)
Rehabilitation of farm access roads	<ul style="list-style-type: none"> • Degradation of air quality and risk of respiratory disease (ARIs) • Increased risk of accidents • Loss of plant diversity • Risk of social conflicts (compensation of PAPs) • Risk of diseases such as STIs/HIV/AIDS • Risk of traffic accidents • Wear and tear of farm access roads over time • Risk of respiratory diseases (ARIs) 	<ul style="list-style-type: none"> • Impose watering when crossing settlements in the construction phase • Provide hedgerows when crossing settlements • Compensation for PAPs • Awareness campaigns on risk of diseases such as STIs/HIV/AIDS • Conduct awareness campaigns on the risk of traffic accidents • Provide speed bumps to reduce the risk of traffic accidents • Install traffic signs on farm access roads

6. PUBLIC CONSULTATIONS AND VIEWS EXPRESSED

The specific objectives of the consultations extended to potential beneficiaries, elected representatives and institutional actors were: to provide true and relevant information on the project to the parties involved; invite the actors to share their views on the proposed solutions and establish dialogue, and lay the groundwork for concerted and sustainable implementation of the actions provided for under the project.

Consultants have been holding public consultations with the various project stakeholders as part of this assessment since July 2017 during the different ongoing missions:

- During the national seminar to present the APZ concept in Togo held on 7 and 8 July 2017 in Kara: consultation of the national, regional and local authorities

and civil society representatives who attended the workshop.

- During public consultations held in Kara with the representatives of the authorities and local populations on 7/7/2017 on the sidelines of the national seminar mentioned above.
- Public consultation meeting held at the Léon village centre on 09/07/2017 with the Léon Canton head and some notables and beneficiaries of the Léon ZAAP.
- Public consultation meetings held at Broukou village on 19/6/2017; 20/6/2017 and 9/7/2017 with notables of the village.
- Public consultation meetings held at Guerin-Kouka on 9/7/2017 with the representative of ICAT, the President of *Groupement de Femmes* (Women's Association) and ZAAP beneficiaries.
- Meeting and personal interviews with Regional Directors in Kara on 10/7/2017: Meeting with Regional Directors of Agriculture, Water, Agricultural Research and Technical Support Council, and discussion with the Regional Director for Environment and Forest Resources.

These public consultations were followed by a second series of meetings:

- Public consultation meeting held in Alloum /Broukou Nord on 29/7/2017
- Public consultation meeting held in Broukou Sud on 29/7/2017
- Public consultation meeting held in Misséouta on 29/7/2017
- Public consultation meeting held in Leon on 30/7/2017
- Public consultation meeting held in Agbassa on 30/7/2017
- Public consultation meeting held in Awassan on 30/7/2017.

These consultations, carried out before the start of the ESA preparation, were supplemented by a few other meetings:

- Consultation and discussions with consultants preparing environmental assessments and with the Technical Committee, held on 5/1/18
- Meeting and personal interviews with the Heads of ESMP and ANGE's ESIA/ESA Service held on 5/1/18
- Public consultation meeting held in Broukou on 7/1/2018
- Public consultation meeting held in Misséouta on 8/1/2018
- Public consultation meeting held in Kpasside (dam site) on 8/1/2018
- Public consultation meeting held in Bidjande (dam site) on 8/1/2018
- Meeting and personal interview with the Director of ITRA held on 9/1/18

- Consultation meeting with Kara Regional Technical Services on 9/1/18
- Public consultation meeting held with the NGO *Santé Rurale en Afrique* (SAR Afrique) on 9/1/2018
- Public consultation meeting held with the NGO *Eau Vive* Kara Branch on 9/1/2018
- Meetings and personal interviews with the Director of Sanitation, Water Resources held on 11/1/18
- Consultations held with ANGE on 12/1/18.

The content analysis reveals considerable interest on the part of actors in this project that could, to a large extent:

- Solve several problems of accessing natural resources;
- Support the ambitions of the local communities concerned to structure and modernize their agricultural activities;
- Strengthen the capacity of the technical actors of the authority having prerogatives in the management of the risks and the environmental and social impacts of development operations.

This project's essential concern is environmental and social impacts, and risk management. The recommendations made to this end require the institutional actors tasked with planning and implementation to:

- Sign agreements with the landowners who will surrender the land
- Ensure proper management of empty agri-phyto product packaging
- Avoid the introduction of GMOs in the system
- Envisage soil quality monitoring and conduct water quality assessments.

This SESA will also be disseminated to the same stakeholders as part of ANGE's approval process.

7. ENVIRONMENTAL AND SOCIAL MANAGEMENT FRAMEWORK PLAN (ESMFP)

7.1 Mechanism for Including Social and Environmental Aspects in the PTA Cycle

The environmental selection process will be conducted for any physical investment supported by the project and included in the annual work plan. It will then be possible to further specify these measures to suit the sites of the works planned. Preliminary sorting is necessary in one form or another, and may result in one of the following four outcomes:

- No EIA is required (application of simple measures as appropriate) and no RAP is required

- No EIA is required (application of simple measures as appropriate), but a RAP is required
- A simplified EIA is required (accompanied by a RAP as appropriate)
- An in-depth and detailed EIA is required (accompanied by a RAP as appropriate).

7.2 Strategic Environmental and Social Measures

- The land issue is central to the implementation of the PTA and the sites potentially usable as private investor support or for building infrastructure must first enjoy tenure security. The possibility of a long lease between investors and landowners is under study. Land tenure security will be obtainable through this type of lease, previously tested in the context of another agricultural development project in the Kara area (PDPR-K), through similar arrangements concerning land, i.e. grant, lending, leasehold or sale.
- Supporting women's groups holding unquestionable assets to participate fully in achieving food self-sufficiency is essential for developing a project intervention strategy that mainstreams gender. Such support will take several forms, including organizing women agricultural producers into groups structured according to sector, with the aim of allocating them at least 30% of developed land. Support will further consist in facilitating women's access to modern agricultural equipment for agro-food production and processing. Lastly, it will involve sharpening the entrepreneurial skills of members of women's groups in the areas of production, storage, processing, packaging and sale of agricultural products, and also in developing business plans, marketing and accessing finance.

7.3 Specific Measures for the Agro-food Processing Zone (Agropark)

- They mainly concern:
- Management of wastewater and storm water that must be properly controlled both in terms of discharge as well as treatment
 - Preparing a comprehensive technical DD-level study on storm water drainage network, enabling the APZ Promotion and Development Agency (APDA) to invite bids for the corresponding works;
 - Preparing a charter spelling out the obligations of all parties in terms of wastewater treatment level requirements prior to its discharge into the Agropark outfall;
- Easement management: a 200 m safety zone around the edge of the Agropark property will be required.
- Control and intervention wherewithal in case of accident/incident
 - Construction of firefighters' barracks or fire department
 - Provide for wall hydrants and fire hydrants

Table 9 : Agropark Environmental and Social Management Strategy

Environmental Dimension	Issue	Constraint Description	N°	Management Strategy	Indicators	Timetable	Financial Estimate	Responsibility	
								Implementation	Verification
ENVIRONMENT			E1	Comply with Sections 38 and 129 of Law No. 2008 – 005 on the Environmental Code Framework Law (prior authorization with obligation to perform an ESIA / accident risk assessment + classified establishment file) for each host company, if necessary	<ul style="list-style-type: none"> Number of enterprises having conducted an ESIA before establishment; Number of Classified Installations (A /D) on the APZ, with classified establishment files 	Before establishment and operation of Classified Installations	PM	Host enterprises	APDA/ APZ Administrator and ANGE
			E2	Require the environmental audits of companies and industrial units	<ul style="list-style-type: none"> Number of CIPE (A/D), with certificates of environmental compliance; 	After 4 years of operation; Upon ceasing activity	CFAF 25 000 000 per enterprise every 4 years	Host enterprises	APDA/ APZ Administrator and ANGE
			E3	Prepare an EHS audit of the APZ	<ul style="list-style-type: none"> Certificate of environmental compliance 	Every 5 years	CFAF 50 000 000	APDA / APZ Administrator	ANGE
BIODIVERSITY	Conservation of natural and cultural heritage, sustainability of ecological services	The zone plays a significant role through the ecological services it provides. Conserving the natural heritage to ensure the sustainability of ecological services is essential as implementing the APZ could generate biodiversity loss and a resultant loss of the ecological services.	B1	Comply with forest regulations regarding the payment of the felling tax with the safety strip to be deforested to prevent bushfire spread	Felling taxes are paid prior to any deforestation	Before any felling	Protocol to be concluded with forestry authorities	APDA	Directorate of Forestry (DEF)
			B2	Carry out compensatory reforestation of the area deforested in view of the APZ	Area compensated by the project	CFAF 3 000 000 per hectare reforested		APDA /APZ Administrator in close collaboration with DEF	Directorate of Forestry (DEF)
			B3	Circumscribe deforestation to avoid affecting species in areas not needed	Area preserved by the project	During works			
			B4	Blend the developments to be made with the landscape and provide roadside green spaces (parking areas, roundabouts, ...) in the APZ, 3-level hedgerows along the fence	<ul style="list-style-type: none"> Number of actions for architectural landscaping of common/private spaces Number of trees planted/year on public spaces % of local tree species 	Before establishment and operation of Classified Installations	Estimate CFAF 7500 per m ² developed	APDA /APZ Administrator in close collaboration with DEF	

Environmental Dimension	Issue	Constraint Description	N°	Management Strategy	Indicators	Timetable	Financial Estimate	Responsibility	
								Implementation	Verification
			B5	Cover 10% of non-built space on the plots of host companies with plants (to be included in the criteria for approval as Classified Installations)	Number of parcels with landscape design representing 10% of the non-built space	After establishment of enterprises	PM	Host enterprises	APDA
WATER	Rational management of resources, preservation of water quality, flood risks, erosion issues	1. Risk of water resource degradation	EA1	Authorization from competent authority before any hydro-geological resource offtake	<ul style="list-style-type: none"> Static level in the project footprint Total annual drinking water consumption in the activity area (m3 / year); Consumption breakdown (public/common facilities, companies); Number of companies having received and implementing the Water Discharges and Usage Reduction Plan 	Before commencement of drilling	Authorization, fees and taxes for drilling and operation of the borehole	APDA/ APZ Administrator /Operator	ANGE/Directorate of Water Resources (DRE)
			EA2	Prohibition of drilling/wells on the site of the industrial zone by the host enterprises		Throughout APZ life	NA	APDA/ APZ Administrator /Operator	ANGE / DGEA
			EA3	Provide for a drinking water supply network for sanitary purposes and a water network for industrial use		Upon carrying out road and utility works	PM	APDA/ APZ Administrator /Operator	ANGE
			EA4	Mandatory connection for all enterprises established, with consumption monitoring by type and based on agreements			Cost of development (road and utility works)	APDA/ APZ Administrator /Operator	ANGE
			EA5	Set up a water table surveillance and monitoring system by installing a piezometer in the activity area		Before starting pilot phase works	CFAF 7 500 000 per piezometer	APDA/DGEA	ANGE/ DGEA
			EA6	Adopt a general plan for discharge reduction at source and water usage control			PM	APDA/ APZ Administrator /Operator	ANGE/ Directorate General of Water and Sanitation (DGEA)
			EA7	For "service" water needs, ¹ focus on alternative supply sources such as rainwater harvesting or treated water reuse		Before establishment and operation of Classified Installations	CFAF 5000 per linear m of piping + installation of a small relay station (20 Million)	APDA/ APZ Administrator /Operator	ANGE/ DGEA
			EA8	Characterize industrial wastewater for each host enterprise in conjunction with the WWTP operator for 3 months, and subsequently, once a month		Throughout APZ life	(400 mille/month for the three months) and (100 mille/ month subsequently)	Host enterprises	APDA / DGEA /ANGE
				Adopt a pre-treatment system based on the characterization and results of the environmental assessment (decantation, de-			Before establishment and operation of		APDA / DGEA /ANGE

¹ i.e. water intended for use against fires, for cleaning the facilities and roads, and irrigation of green spaces

Environmental Dimension	Issue	Constraint Description	N°	Management Strategy	Indicators	Timetable	Financial Estimate	Responsibility								
								Implementation	Verification							
			EA9	oiler) as needed	<ul style="list-style-type: none"> Number of days per year of non-compliance of discharge parameters Measures concerning effluent quality upon exiting the WWTP: MES, BOD5, COD, overall N, P, greasy substances, pH, flow, temperature 	Classified Installations	CFAF 15 000 000	Host enterprises								
			EA10	Provide for a main network and secondary networks remote from the industrial units		Before commencement of works	To be included in the road and utility works	APDA	APDA /DGEA/ANGE							
			EA11	Quantity monitoring (flow meters, valves) and payment of a sanitation fee		Before establishment and operation of Classified Installations	CFAF 2 500 000	Host enterprises	APDA / DGEA /ANGE							
			Change in storm water quality and flow conditions	EA12	Provide for a buffer pond equipped with a sealed geo-membrane for regulated flow before treatment by hydrocarbon separator and discharge into the ditches to flow into the "Misseouta" watercourse	<ul style="list-style-type: none"> No standing water around the site and existence of a functional drainage network around the site Number of actions in providing storm water treatment facilities (decanter, de-oiler ...) Number of host enterprises with a storm water management system 	Before establishment and operation of Classified Installations	CFAF 50 000 000	APDA/ APZ Administrator /Operator	APDA / DGEA /ANGE						
				EA13												
				EA14	For each host enterprise manage storm water as follows: <ul style="list-style-type: none"> Creation of a waterproof storage pond designed based on the waterproofed space size; Installation of a safety valve at the basin exit to contain any accidental pollution; Installation of a hydrocarbon separator downstream of this basin before discharge of treated water into the ditches 		Before establishment and operation of Classified Installations	CFAF 35 000 000 per enterprise	Host enterprises	APDA						
											EA15	Explore the findings of the topographic studies to determine the natural capacity of the "Misseouta" watercourse compared to the expected water volumes and provide, as needed, additional facilities to contain the water and prevent it from overflowing	Before establishment and operation of Classified Installations	CFAF 20 000 000 (Facility design) + 50 000 000 development works	APDA	ANGE
				SOILS and WASTES	Soil quality management and waste management		1. Industrial activities can generate soil pollution; such pollution may result from poor storage, leakages, or accidental spills.	SD1	Secure transportation of hazardous materials in public common spaces	<ul style="list-style-type: none"> Monitoring the frequency of inventories, the places and quantities of storage of toxic or dangerous substances (quantity and typology); 	Throughout APZ life	APDA / APZ Administrator /Operator				
		SD2	Monitor particularly risky enterprises													
		SD3	Adopt a polluted soils prevention and management plan													
								PM (include in								

Environmental Dimension	Issue	Constraint Description	N°	Management Strategy	Indicators	Timetable	Financial Estimate	Responsibility			
								Implementation	Verification		
			SD4	Provide leak-proof retention basins for all stored hydrocarbons	<ul style="list-style-type: none"> Number of soil remediation interventions per year) ; 		engineering studies)		ANGE		
			SD5	Prevent the emergence of uncontrolled dumping and treat polluted soils on public spaces							
			SD6	Adopt a system for monitoring concentrations of heavy metals (Pb, Cu, Zn) in the topsoil at given points of the surrounding area (human settlements bordering the APZ)	Pb, Cu, Zn content in topsoil	Throughout APZ life	CFAF 35 000 000	APDA/ APZ Administrator /Operator	ANGE		
		2. The various types of waste generated (inert, ordinary industrial waste (OIW), special industrial waste (SIW), toxic waste, require suitable disposal channels	SD7	Each host enterprise must submit to the APZ administrator/operator a Plan for Storage Leakage and Spill Control, Cleaning and Handing over of Waste	<ul style="list-style-type: none"> Annual quantity of waste generated by the common areas: packaging, OIW, SIW, HWDQ, green waste (t-m3 / year); Annual amount of waste generated by the enterprises: packaging, OIW, SIW, HWDQ, green waste; % of companies sorting their waste internally; Rate of waste recycling by enterprises and by managers: recycling, reuse; Number of enterprises in synergy (waste exchange ...) 	Before establishment and operation of Classified Installations	PM	Host enterprises	APDA		
			SD8	Each host company should submit to the Administrator / Operator a solid waste management plan					ANGE		
			SD9	Each host enterprise must submit to the APZ Administrator a plan to prevent accidental spraying of chemicals					APDA		
			SD10	Solid waste should be sorted and collected in suitable containers labelled and with a harmonized colour code for the entire area		Throughout APZ life	PM	Host enterprises	APDA		
			SD11	Adopt criteria for dangerous cargo screening, entry authorization and transportation		PM	APZ Administrator /Operator	ANGE	National Civil Protection Agency (ANPC)		
			SD12	Adopt a harmonized storage system based on the hazardous waste and comply with labelling standards and provide for a procedure		PM	Host enterprises	APDA			
										ANGE	
AIR	Preservation of air quality (sound environment and	The air quality issue concerns: - Atmospheric pollution - Noise pollution	A1	Set up an ambient air quality monitoring system (baseline situation, system design, implementation and monitoring)		Before start of development works					

Environmental Dimension	Issue	Constraint Description	N°	Management Strategy	Indicators	Timetable	Financial Estimate	Responsibility			
								Implementation	Verification		
	air quality) Noise pollution	Vehicles, combustion plants and specific industrial processes release into the atmosphere compounds such as CO2, CO, SO2, and VOCs that can be hazardous and must be limited. With respect to noise, the noise emitted by established enterprises and that emitted by the zone itself must be considered	A2	Envisage a development plan enabling reduced noise and smell pollution (green screen, artificial mounds, phonic requirements in the design of the industrial buildings ...)	<ul style="list-style-type: none"> Number of complaints processed; Intensity of noise emissions at the edge of the zone (dwelling ...) 	Before establishment of the CIPE	Covered in the ANGE – APDA Protocol	APDA/ANGE	APDA		
			A3	Establish the baseline noise situation at the property limits and ambient air quality before commencement of the Agropark development works		Before start of development works					
			A4	Develop and disseminate a Transport Management Plan (traffic movement and parking within the Agropark and securing the transportation of workers and communities) to host enterprises	<ul style="list-style-type: none"> Emergence (3db max at site boundary); Number of complaints processed Annual quantity of dust and particles/VOC/NOX/SO2 emitted (t/year); Concentration of atmospheric pollutants; 	After zone development works	CFAF 25 000 000	APDA, Agropark Manager	ANGE Directorate of Transport		
			A5	For projects planning to produce more than 25,000 tonnes of CO2 equivalent per year, it will be mandatory to quantify GHG emissions annually in accordance with internationally recognized methodologies and best practices directly from the facilities of each project and the indirect emissions associated with off-site energy production used by the project.		Proportion of units with annually quantified GHG emissions				Operational costs	APDA, Agropark Manager
						R1	Provide for a fire intervention and safety centre within the industrial zone (fire station)	<ul style="list-style-type: none"> Number of CIPE (A/D), with classified establishment file on the Agropark Number of vehicle/pedestrian accidents per year Number of traffic accidents in the area per year Number of signage measures 	Before operating the Agropark	PM	APDA/ National Civil Protection Agency
			R2	Develop a Special Emergency Response Plan	PM						
			R3	Require Emergency Plans for classified installations in accordance with Section 132 of the Law of 2008 - 005 : Framework Law on the Environment Code	3 months after starting operation	CFAF 7 500 000 per host enterprise					
			R4	Design and disseminate to host enterprises, a Local Hiring Plan	Before commencement of works	PM	APDA		Directorate of Labour		
			R5	Design a management plan for population movements near the Agropark (secure	Before starting to operate the	PM			/Cantons		
POPULATION AND HUMAN HEALTH	Industrial and natural risks										

Environmental Dimension	Issue	Constraint Description	N°	Management Strategy	Indicators	Timetable	Financial Estimate	Responsibility	
								Implementation	Verification
				easements)	<ul style="list-style-type: none"> ▪ Number of intervention/evacuation drills per year ▪ Frequency of monitoring and control of emergency equipment ▪ Proportion of awareness and prevention actions relating to the management of industrial and natural risks per year ▪ Proportion of validated emergency plan and safety exercise session ▪ Average response time of the emergency services in the event of a fire ▪ Number and characteristics (degree of severity) of rescue/security services (firefighters, police, etc.) per year ▪ Existence of a communication plan 	Agropark		APDA	
			R6	Design a corporate social investment plan as part of corporate social responsibility			PM	APDA and host enterprises	
			R7	Design an IGA development plan for former owners and farmers of the APZ Agricultural Zone			PM		
			R8	The APZ Administrator will require host companies to comply with the Labour Code		Before the establishment of the CIPE	APDA	(APDA)	Directorate General of Labour / Labour Inspectorate
			R9	Develop a communication plan for residents on the APZ's flood risk management arrangements		CFAF 10 000 000	Service providers	ANGE	

7.4. Measures to strengthen the policy and institutional framework for environmental and social management

- *Strengthen the policy framework to improve environmental and social assessment laws, regulations and procedures*

The implementation of the PTA involves several technical departments of ministries at all stages of the project's life. The PTA will strengthen the ESM policy framework by helping in the drafting of decrees on strategic environmental assessments, Action plans and Resettlement plans, as well as guides to the preparation of environmental monitoring and follow-up reports and strategic environmental assessment reports.

- *Strengthening the environmental and social expertise of the future "APZ Promotion and Development Agency" (APDA)*

The future "APZ Promotion and Development Agency" will be responsible for the technical and financial implementation of project activities. This agency is yet to be structured and its staff recruited. However, it is recommended that there be two full-time experts - an environmental expert and a social science expert responsible for land issues - to ensure the inclusion of environmental and social issues in the preparation and implementation of project activities.

- *Strengthening the environmental and social expertise of the Agropark Administrator/ Operator*

The administrator or the operator of the APZ will recruit a Health, Safety and Environment (HSE) expert who will be responsible for all the environmental and social aspects of the common areas of the APZ.

- *Strengthening the environmental and social expertise of future industries*

To facilitate dialogue with the Agropark Administrator/Operator on environmental management, each industrial enterprise established, and in particular the institutions subject to impact assessment, will be required to designate from among their senior staff an HSE manager. Sensitization/training sessions will be held periodically to enhance the capacity of the Environmental Managers of newly established enterprises.

7.5. Technical strengthening measures

The technical strengthening measures concern the studies to be conducted, the guides to be produced, the establishment of a baseline situation and the establishment of a database with a view to improving scientific knowledge on environmental and social issues.

7.6. Natural resources management and environmental protection measures:

They are as follows:

- Natural resources management and biodiversity conservation
- Hygiene and sanitation measures
- Assistance measures for the promotion of clean technologies

7.7. Surveillance, monitoring and evaluation measures

The monitoring programme will concern ongoing monitoring, supervision, mid-term evaluation and annual evaluation. In addition, monitoring will require physicochemical, biological and bacteriological, toxicological and health analyses. Agricultural producers and local communities must be involved in local monitoring. Lastly, the project must include a final evaluation (at the close of the project).

7.8. Training of the project implementation actors

The PTA involves several categories of institutional and socio-professional actors, whose environmental and social management capacities are either non-existent or highly inadequate. Training should also familiarize stakeholders with national environmental assessment regulations; the guidelines of the African Development Bank and; environmental follow-up and monitoring.

Qualified training consultants in environmental and social assessment will be recruited by the Agency, with the assistance of ANGE, to conduct such trainings. The capacity building programme should be conducted to ensure the sustainability of the measures taken, through the following modules:

- Environmental and Social Assessment
- Environmental and social monitoring
- Pesticide management
- Good agro-processing practices
- Land management

7.9. Public and stakeholder information and awareness

This will involve organizing information and activity sessions at each targeted site; organizing public rallies at each site, through NGOs or previously trained local coordinators. Awareness will also focus on the concept of "agribusiness"; land issues, conflict management; vulnerability factors such as HIV/AIDS, malaria and intestinal and urinary bilharzia.

7.10. Environmental and Social Monitoring and Evaluation Program

This aims to define the overall monitoring framework of the environmental and social management strategy and to propose indicative monitoring indicators for the environmental components to be specified by the ESIA/RAP that will be conducted:

- Strategic indicators to be monitored by the PTA Steering Committee
- Indicators to be monitored by the Agency's Environment and Social Experts
- Indicators to be monitored by the Environment Focal Points

Table 10 : Indicators and Monitoring Mechanism

Components	Types of Indicator and Details to be Collected	Periodicity	Responsible
Water	<ul style="list-style-type: none"> Physical, chemical, biological and bacteriological analysis of water 	<ul style="list-style-type: none"> Once per year 	<ul style="list-style-type: none"> DGREA ANGE
Soils	<ul style="list-style-type: none"> Developed areas Discontinued areas Sensitivity to water erosion (area affected) 	<ul style="list-style-type: none"> Annual 	<ul style="list-style-type: none"> Ministry of Agriculture
Vegetation Wildlife	<ul style="list-style-type: none"> Rate of degradation Reforestation rate Encroachment rate in protected areas 	<ul style="list-style-type: none"> Annual 	<ul style="list-style-type: none"> DEF
Production systems	<ul style="list-style-type: none"> Volume of inputs consumed (pesticides, herbicides, fertilizers) Rate of adoption of integrated pest management methods Organic manure consumption Areas under organic cultivation Waste management (liquid, solid) from processing activities Recovery rate of by-products of processing industries. 	<ul style="list-style-type: none"> Annual 	<ul style="list-style-type: none"> Ministry of Agriculture Ministry of Industry and Tourism
Human environment	<ul style="list-style-type: none"> Observance of hygiene measures on the site Waste management practices Actions against waterborne diseases Prevalence of STIs/HIV/AIDS Port of adequate protective equipment Presence of disease vectors Prevalence rate of water-related diseases (malaria, bilharzia, diarrhoea, schistosomiasis, etc.), Number of intoxications due to pesticides use Availability of safety instructions in the event of an accident Number and type of claims 	<ul style="list-style-type: none"> Annual 	<ul style="list-style-type: none"> Cantons

These indicators will be regularly monitored during the implementation and progress of investment projects and will be included in the PTA Implementation Manual.

7.11. Institutional Implementation and Monitoring Arrangements

Under the Project, the "environmental and social" function will be necessary both for implementation and for monitoring. Institutional arrangements are proposed for the project with respect to implementation and monitoring roles and responsibilities at the following levels:

- Coordination and external supervision
- Preparation and "internal" monitoring of implementation
- Conduct of activities
- "External" environmental and social monitoring.

Under the Project, the "environmental and social" function will be provided as follows:

- By the Board of Directors of the Agency, for strategic coordination (ensure that all stakeholders are truly involved and have roles to play); this committee will bring together all the institutions involved in monitoring. Within the framework of this committee, the member structures will carry out supervision missions
- By the Environmental and Social Experts who will be recruited by the PTA. These experts will coordinate local monitoring, in conjunction with the environmental managers of the local institutions and the technical services concerned
- By ANGE, which will carry out external monitoring of the ESIA implementation.

The Environmental and Social Experts of the PTA and the other structures do not have environmental and social autonomy. They will work in close collaboration with ANGE and under its supervision. To this end, the Agency will establish a protocol of collaboration with these structures, including support to facilitate their tasks.

The institutional arrangements below are proposed for the project with respect to implementation and monitoring roles and responsibilities. These arrangements fall within the framework of the core missions of each of the targeted structures.

Other Actors Participating in External Environmental Monitoring

The structures mainly involved in the PTA (Directorate of Agriculture, Industry, etc.) will appoint Environmental Manager focal points, who will participate in the external monitoring in the sector of activity.

- Directorate of Nature Conservation (monitoring reforestation activities)
- Directorate of Industry of the Ministry of Industry and Tourism: monitoring of product processing activities
- Directorate of Feeder Roads of MIT: monitoring feeder roads
- CEET: monitoring of electricity networks
- Directorate of Water Resources: monitoring water resources
- CEET for power lines
- Directorate of development, equipment and agricultural mechanization: irrigation facilities.

External monitoring will involve the following non-governmental actors:

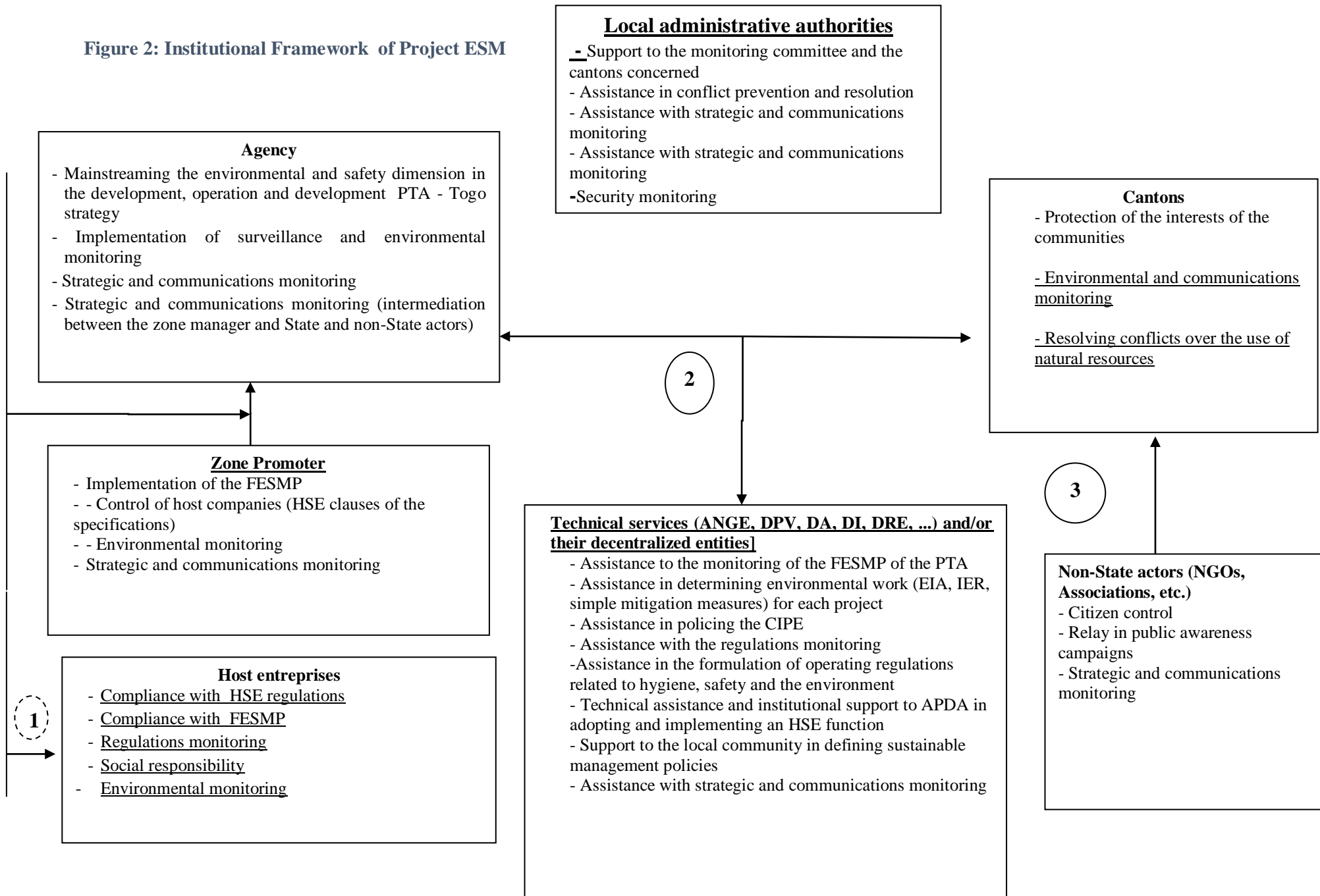
- Cantons: follow-up of works; social awareness and mobilization
- NGOs: awareness and social mobilization
- Local civil society organizations: follow-up of the IEC; involvement of the public.

There will be three types of interrelationship flows at the institutional level, namely:

- Type 1: operational control concerning the strategies defined in this study (APDA) - Administrator / Operator of the zone - Host companies
- Type 2: Assistance to the Agency (APDA) and pooling of resources in the monitoring of strategic measures (environmental surveillance and monitoring), and the regulatory control of promoters and host enterprises
- Type 3: public participation and mass communication

These three types will be linked and will interact through strategic and communications monitoring. These flows are illustrated in the flowchart below.

Figure 2: Institutional Framework of Project ESM



The total cost of environmental measures is CFAF 851 500 000 or USD 1 591 588.79. Details are given in the table below. All costs will be included in the cost of the PTA-Togo project.

Table 11: Cost of Technical Monitoring Measures

Activities	Quantity	Unit Cost	Total Cost (CFAF)
<i>Strengthen the policy framework to improve environmental and social assessment laws, regulations and procedures</i>			
<ul style="list-style-type: none"> Strengthen the policy framework to improve the laws, regulations and procedures for Environmental and Social Assessment 	2 decrees on ESAs and 2 Guides	25 000 000	50 000 000
<ul style="list-style-type: none"> Strengthen the technical capacity of ANGE in environmental monitoring (measuring equipment + 4x4 vehicle) 			75 000 000
<i>Strengthening environmental and social expertise:</i>			
<ul style="list-style-type: none"> Recruitment of two experts (environment and social) + a GIS expert for 5 years 3 x 60MH 	3 x 60 h-m	750 000	135 000 000
<ul style="list-style-type: none"> Recruitment of an HSE expert for the PTA 1 x 60 MH 	1 x 60 h-m	750 000	45 000 000
<i>Measures to strengthen scientific and technical knowledge:</i>			
<ul style="list-style-type: none"> Update of ESIA's and completion of new ESIA's 	10	20 000 000	200 000 000
<ul style="list-style-type: none"> Provision for the preparation of a Resettlement Policy Framework (RPF) 	1	15 000 000	15 000 000
<ul style="list-style-type: none"> Development of a manual of good agricultural practices for investors 	1	15 000 000	15 000 000
<ul style="list-style-type: none"> Manual of good practices - environmental charter manual 	1 manual	15 000 000	15 000 000
<ul style="list-style-type: none"> Baseline situation and establishment of a database (air quality, noise, water ...) 	1 campaign	25 000 000	25 000 000
<ul style="list-style-type: none"> Preparation of land use plans (LUP) 	1	25 000 000	25 000 000
<ul style="list-style-type: none"> Strengthening knowledge of water resources in the project area 	3	7 500 000	22 500 000
<i>Strengthening knowledge of water resources in the project area</i>			
<ul style="list-style-type: none"> Construction or rehabilitation of sanitation infrastructure 	PM PDC		
<ul style="list-style-type: none"> Revegetation and protection of natural hillside and shoreline habitats 	20 ha	3 000 000	60 000 000
<ul style="list-style-type: none"> Sustainable land management (SLM) 	1	25 000 000	25 000 000
<ul style="list-style-type: none"> Clean technologies promotion assistance measures 	1	20 000 000	20 000 000
<i>Surveillance, monitoring and evaluation</i>			

Activities	Quantity	Unit Cost	Total Cost (CFAF)
• Ongoing monitoring of PRODAT	5 years	10 000 000	50 000 000
• Support for Environment Managers (EM) in the follow-up	5 years	5 000 000	25 000 000
• Final mid-term evaluation of the PTA-Togo	2	10 000 000	20 000 000
Training Measures :			
<ul style="list-style-type: none"> • PRODAT Environmental Focal Points • Technical Services 	<ul style="list-style-type: none"> • Training in environmental and social management • National environmental legislation and procedures • Monitoring of environmental measures • Monitoring of hygiene and safety norms • AfDB Safeguard policies, etc. 	One national workshop for Environment Managers (EM)	10 000 000
		1 regional workshop for the other technical services	10 000 000
Information and Awareness Measures:			
<ul style="list-style-type: none"> • Mayors • Investors • Communities, • Local associations (APOs, etc.)	<ul style="list-style-type: none"> • Information and awareness campaigns on the nature of the work, involvement of local stakeholders, environmental and social issues (pesticide management, health) • Awareness campaigns on safety and hygiene during project works. 	One campaign 3 times	-3 000 000
Total			CFAF 851 500 000

8 CONCLUSION

The implementation of the PTA-Togo project will yield substantial socio-economic dividends, but also generate significantly adverse impacts on the biophysical and social environment. However, these adverse impacts are preventable or largely mitigable through a strict implementation of the management measures recommended in the SESA, during preparation, implementation monitoring and operation of the infrastructure and schemes provided. Establishing an appropriate institutional framework as proposed is crucial to the project's success.

ANNEX: ACRONYMS AND ABBREVIATIONS

AFD	French Development Agency
AfDB	African Development Bank
AIDS	Acquired Immuno-deficiency Syndrome
ANGE	National Environmental Management Agency
APDA	Agropole Promotion and Development Agency
APO	Agricultural Producer Organizations
ARP	Abbreviated Resettlement Plan
ARI	Acute Respiratory Infection
AVC	Agricultural Value Chain
APZ	Agro-processing Zone
BD	Bidding Documents
BOD5	Biochemical Oxygen Demand for Five Days
CBC	Communication for Behavioural Change
CBO	Community Based Organization
CDP	Community Development Plan
CEPW	Civil Engineering and Public Works
CIPE	Classified Installation for the Protection of the Environment
COD	Chemical Oxygen Demand
CRD	Regional Development Council
CRP	Comprehensive Resettlement Plan
CSP	Country Strategy Paper (from the Bank)
CTA	Technical Centre for Agricultural and Rural Cooperation
Cu	Chemical symbol for copper
DD	Detailed Design
DESIA	Detailed Environmental and Social Impact Assessment
DEEC	Directorate for the Environment and Classified Establishments
DGE	Directorate General for the Environment
DPA	Agricultural Policy Paper (2016-2030)
DWS	Drinking Water Supply
ECOWAS	Economic Community of West African States
EFP	Environment Focal Point
EHS	Environment, Health and Safety
EIA	Environmental Impact Assessment
ESIA	Environmental and Social Impact Assessment
ESMF	Environmental and Social Management Framework
ESMP	Environmental and Social Management Plan
ESSS	Environmental and Social Safeguards Specialist
GCF	Green Climate Fund
GHG	Greenhouse Gas
GRNE	Natural Resources and Environmental Management
HDI	Human Development Index
HIV	Human Immunodeficiency Virus
HSE	Health, Safety and Environment
IBAP	Institute of Biodiversity and Protected Areas
ICAT	Technical Advice and Support Institute
IEC	Information Education and Communication
IGA	Income-Generating Activity
ISS	Integrated Safeguard System
INFA	National Institute of Agricultural Training

ITRA	Togo Institute for Agronomic Research
IUCN	International Union for the Conservation of Nature
LDP	Local Development Plan
MDG	Millennium Development Goals
MV	Medium Voltage
N	Chemical symbol of nitrogen
NGO	Non-Governmental Organization
NICT	New Information and Communication Technologies
NOX	Nitrogen oxides
NR	Natural Resources
OP	Operational Policy
OS	Operational Safeguards
P	Chemical symbol of phosphorus
PAP	Project-affected Persons
PAP	Processable Agricultural Produce
Pb	Chemical symbol of lead
PCB	Polychlorinated Biphenyls
PCU	Project Coordination Unit
PD	Preliminary Design
pH	Potential of Hydrogen
PIM	Project Implementation Manual
PMU	Project Management Unit
PNAE	National Environmental Action Plan
PPE	Personal Protective Equipment
PPF	Project Preparation Fund
PRODAT	Togo Agropole Development Programme
PRSP	Poverty Reduction Strategy Paper
PTA	Agro-food Processing Project
RAP	Resettlement Action Plan
RC	Regional Councillor
RMC	Regional Member Countries
RU	Roads and Utilities
SEADD	Secretary of State for Environment and Sustainable Development
SME	Small- and Medium-sized Enterprises
SNDD	National Sustainable Development Strategy
SO2	Sulphur Dioxide
STD	Sexually Transmitted Disease
STI	Sexually Transmitted Infection
STP	Sewage Treatment Plant
ToR	Terms of Reference
VOC	Volatile Organic Composites
WAEMU	West African Economic and Monetary Union
WB	World Bank
WH	Wall Hydrant
WSC	Water and soil conservation
Zn	Chemical symbol of zinc