



Our World, Our Responsibility

Project Concept

AGRO-PROCESSING & PACKAGING CENTER (APPC)

**Sawula Town,
Pujehun District,
Sierra Leone**

Abbreviations



Abbreviation	Definition
\$	United States Dollar (USD)
APPC	Agro-Processing & Packaging Center
FTE	Full-Time Equivalent (jobs)
GDfH	Global Development for Humanity
HHs	Households
SRL	Sierra Leone
PAPC	Processing Advisory and Planning Committee
SDGs	Sustainable Development Goals
SOPs	Standard Operating Procedures

Agenda



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Project Background and Timeline

Project Background

Key Challenges in Sawula, Pujehun District, SRL



Post-Harvest Losses: Due to limited storage and pressing facilities, farmers lose 30-40% of their products before reaching the market.



Value Addition: Most crops are sold raw or with minimal manual processing, resulting in low farmgate prices and limited income diversification.



Market Access: Weak transport and inadequate infrastructure isolate rural farmers from major buyers in Pujehun Town, Bo, Kenema and regional markets.



Infrastructure: No community-level processing or storage units in the area. This forces farmers to sell immediately after harvest at low prices or risk spoilage.



Low Quality and Supply: No standard processing, packaging, and quality control. Local products fail to meet market standards and consistently supply buyers.

SOLUTION



AGRO-PROCESSING & PACKAGING CENTER (APPC)



Project Background

Strategic Solution – APPC Overview

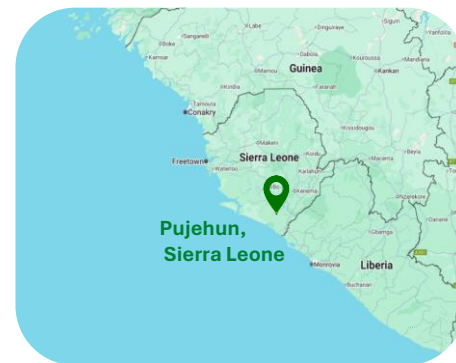


Capacity/Size: A multi-room Agro-Processing & Packaging Center (APPC) with a total volume of 755 m³ (area of 151 m² and height of 5 meters) and an annual processing capacity of over 1,240 tons).

Multi-Processing Function: The APPC enables the processing & packaging of key crops such as cassava, rice, palm oil, pepper, groundnuts, and tomatoes, and transforms them into value-added products.

Beneficiaries: The project will benefit 500–600 people, representing over 100 smallholder farming families, with a 20% expansion potential in the coming years.

Optimal Location: Strategically located in the main town of Pujehun District, which ensures easy access for surrounding farming communities and strong connectivity to major regional markets.



Project Timeline



	Project Timeline Agro Processing and Packaging Center (APPC), Sierra Leone	Month 1				Month 2				Month 3				Month 4				Month 5				Month 6				Month 7											
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4								
#	Key Implementation Milestones																																				
1	Introductory meetings with county authorities, town chiefs, and key stakeholders																																				
2	Securing project site, finalize land documents, and complete feasibility & environmental assessments																																				
3	Tendering, contractor selection, and procurement of materials, machinery, and tools																																				
4	Construction of APPC building, storage units, office space, and utilities																																				
5	Painting of internal and external walls; installation of windows, doors, and completion of minor finishes.																																				
6	Delivery and installation of machinery and systems: rice, palm oil, garri, tomato paste, groundnut lines; packaging equipment; solar power system; borehole and water-tank system.																																				
7	Training of management committee (operations, recordkeeping, input handling)																																				
8	Engaging local farmers for raw material supply to begin trial processing operations and establish product packaging, storage, and marketing systems																																				
9	Link communities to APPC and establish the Processing Center Management Committee (PCMC)																																				
10	Setting up monitoring and production efficiency system to track performance and impact																																				

Project Objectives and Economic Impact

Key Project Objectives



1

Reduce Post-Harvest Losses

Cut crop spoilage by improving drying, storage, and processing for cassava, rice, palm fruit, pepper, tomatoes, and groundnuts

2

Strengthen Farmer Cooperatives

Enhance farmers' skills in management, planning, and cooperative governance for long-term success

3

Add Value to Local Crops

Convert raw produce into high-value products to increase farmers' profitability

4

Create Employment Opportunities

Generate direct and indirect job opportunities for youth and women in processing, packaging, logistics, and marketing

5

Improve Household Incomes

Boost smallholder earnings through value addition, cooperative sales, and stronger market linkages

6

Enhance Food Security and Nutrition

Ensure year-round processed food supply and improve nutrition

Key Economic Uplifting Impacts



Production Impact (tons)

The APPC processes **930 tons per year***, with excess capacity for potential growth in crop production.



Income Impact (\$)

Annual HH income increases from \$273 to \$423 (**+\$150, 55%**) driven by value addition and recovered losses.



Employment Impact (FTE**)

The APPC generates **30 jobs** in processing, logistics, marketing, and farming.



Infrastructure

A modern APPC with multi-crop processing capacity strengthens local agro-industrial development and stimulates farming.



Market Access

Market access increases by 60%, driven by improved quality, packaging, consistent supply to buyers within and beyond the district.



Food Security

More households (HHs) access sufficient and affordable food as seasonal shortages decline by about 25%.

The APPC project contributes directly to the key Sustainable Development Goals (SDGs)



* This is the current crop production of the target community. However, the full capacity of the APPC will be over 1,240 tons/year to cover the potential growth in demand for processing.

**FTE stands for Full-Time Equivalent, meaning a standard full-time job with 172 working hours per month.

Impact on Production, Income, and Employment



Production (tons)

The APPC will deliver **930 tons per year**, with excess capacity for potential growth in crop production.

Farmers in rural Pujehun/Sawula produce processable crops such as cassava, rice, palm, pepper, tomatoes, and groundnuts.

Currently, most of these crops are sold raw, processed manually, or lost due to inadequate processing & storage, which are leading to 30–40% post-harvest losses.

The APPC introduces mechanized milling, pressing, drying, and packaging, which not only prevents these losses but also adds value to the crops.



Income Impact (\$)

Estimated increase in farmers' annual income is \$150 (**55% ↑**)

Farmers lose income because crops are sold raw and large portions are lost after harvest. The APPC efficiently processes crops and converts them into higher-value products at an affordable cost.

The combined effect of value addition and recovered losses increases total marketable output and earnings, raising annual household income from \$273 to about \$423, which represents a 55% (\$150) increase.



Employment Impact (FTE)

Creating **30 FTE jobs** in farming, logistics, and sales.

The APPC will create a total of 30 FTE jobs:

Job Created	FTE
Manager / Admin	1
Operators & Technician	4
Security & Cleaners	2
Sorting and Packaging	2
Loading	1
Farmers & Field Labor	20
Total FTE Jobs Created	30

Out of the 30 jobs, 20 will relate to farmers, who are the primary beneficiaries of the project.

Operational and Implementation Framework

Key Operational Aspects



Multi-Crop Processing

Handles over 5 local crops and vegetables using mechanized milling, pressing, drying, and packaging systems.



Quality & Efficiency

Consistent product quality with SOPs for cleaning and maintenance, and full traceability from farmer delivery onwards.



Supply Chain & Market

Direct sourcing from farmer groups and linkages with local markets, retailers, and wholesalers.



Structured Database

Digital registry of supplier farmers, crop inventory, crop intake, payments and, database for efficient planning.



Capacity Building

Training for proper harvesting, storage, post-harvest handling, logistics, packaging, and marketing.



Contingency Capacity

APPC can scale to nearly twice its current processing capacity (930 tons) to handle seasonal peaks and production growth.

Project Implementation Framework



Community Engagement



Formation and training of a Processing Advisory and Planning Committee (PAPC), including farmers, local leaders, and the GDFH team to ensure ownership, transparency, and accountability.

Operations & Service Model



Farmers will get membership to access services. The APPC will not buy crops; instead, farmers will pay affordable processing fees and retain product ownership, directly benefiting from value addition.

Capacity Building



Local staff and member farmers will be trained in equipment operation, hygiene standards, business management, record keeping, cooperative governance, planning, harvesting, and logistics.

Collection & Aggregation System



There will be organized crop collection through farmer groups, coordinated by the PAPC to streamline supply, reduce losses, and ensure timely processing.

Market Linkage



APPC will facilitate contracts with traders, retailers, feeding programs, and regional markets to secure steady demand and better prices.

Farmer Contribution



Farmer groups will develop and share seasonal supply plans with the APPC, guiding processing operations, payment planning, and storage needs.

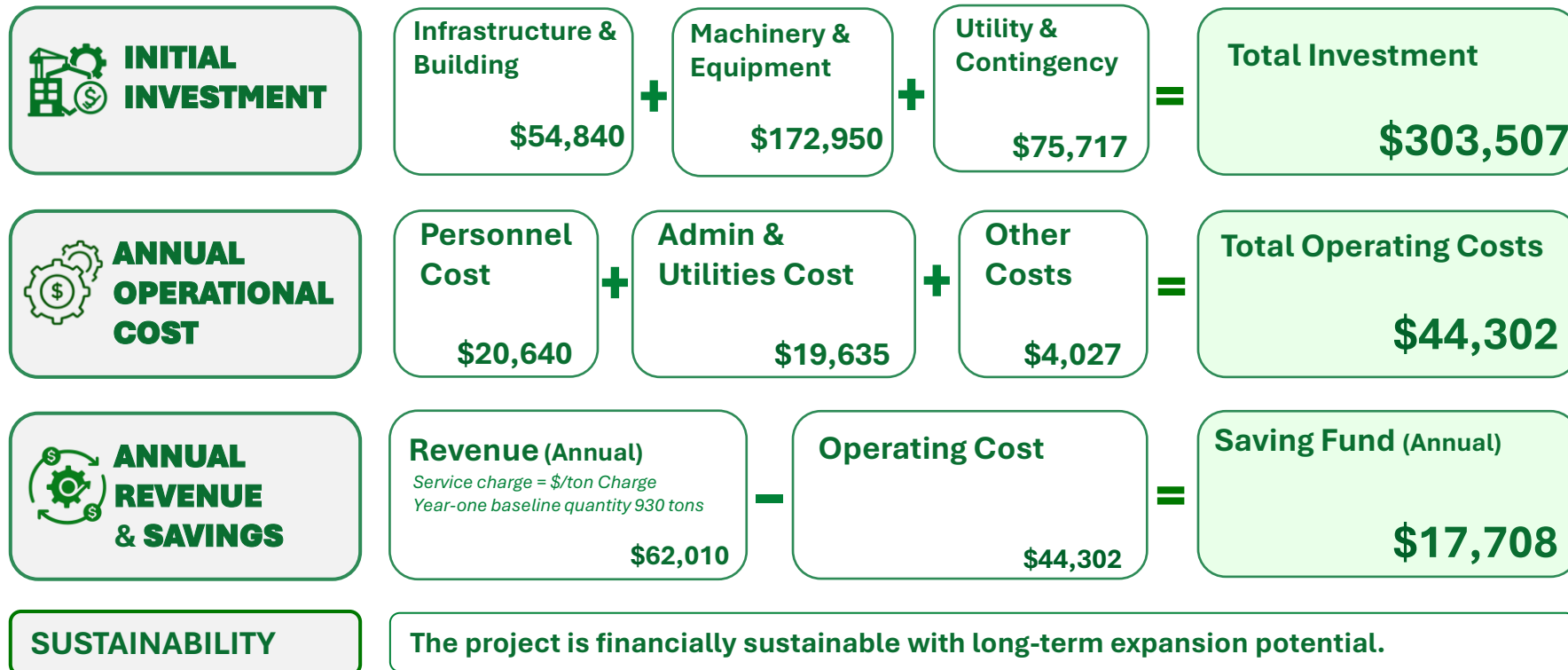
Financial Sustainability



Processing fee revenue covers APPC operational costs; surplus will be reinvested into maintenance, expansion, cooperative strengthening, and other sustainable development activities.

Project Financials

Overview of Project Financials



Disclaimer: Prices and revenue projections are subject to inflation and market fluctuations.

Project Financials

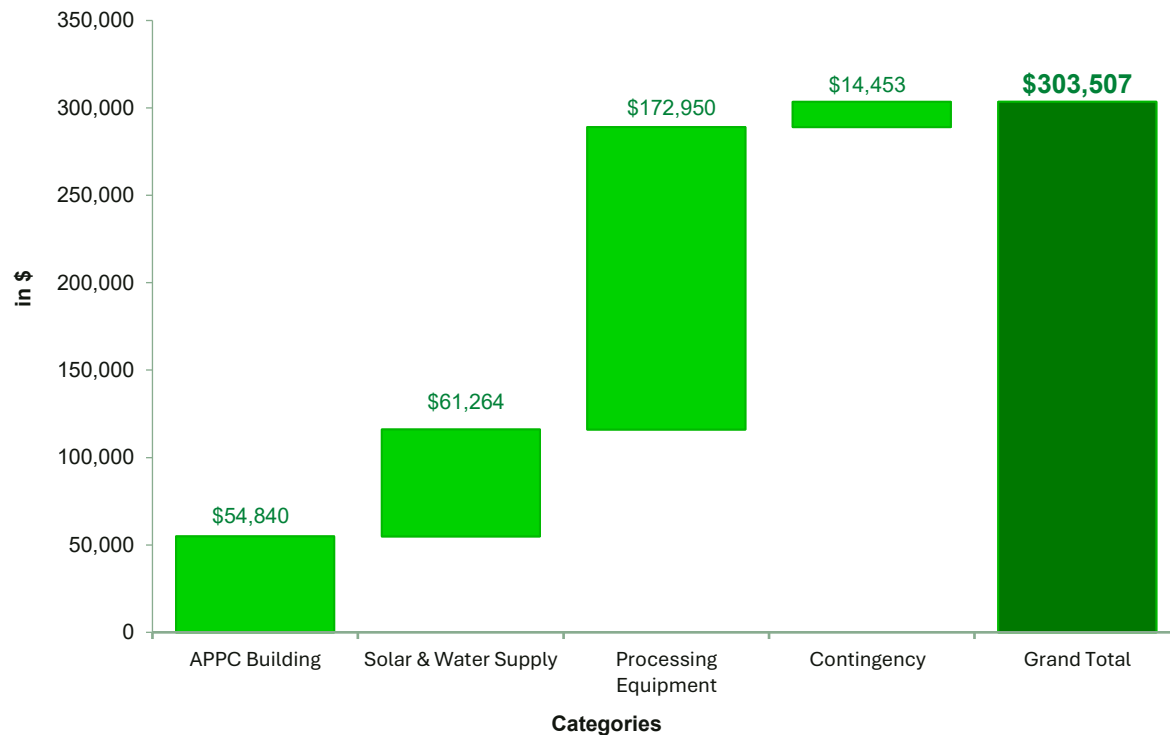
Total Initial Investment Costs



The chart illustrates the initial capital investment required to establish the Agricultural Processing Center (APPC) in Pujehun City, Sierra Leone.

The **total** setup cost amounts to **\$303,507**. Major cost components include the construction of the 755 m³ APPC facility (**\$54,840**), **water and power supply (\$61,264)**, **processing equipment and machinery (\$172,950)**, covering rice milling, cassava processing, palm oil pressing, tomato and groundnut processing units. The investment also includes a contingency for unforeseen expenses.

All cost estimates are based on official supplier quotations and local contractor bids, with reduced pricing offered to GDFH due to its non-profit and community-oriented operational focus.



Project Financials

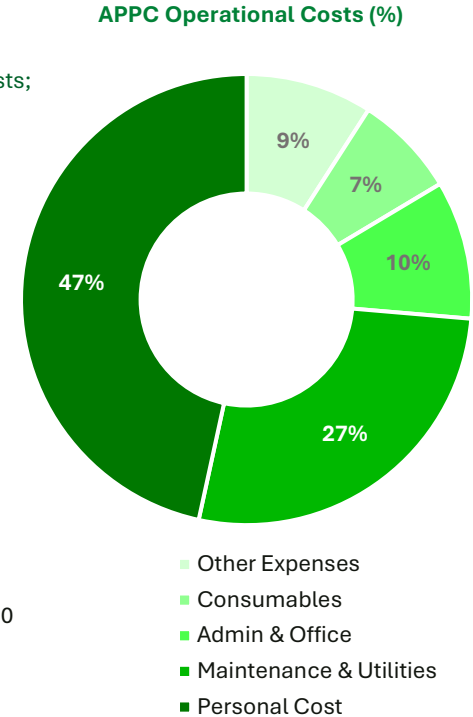
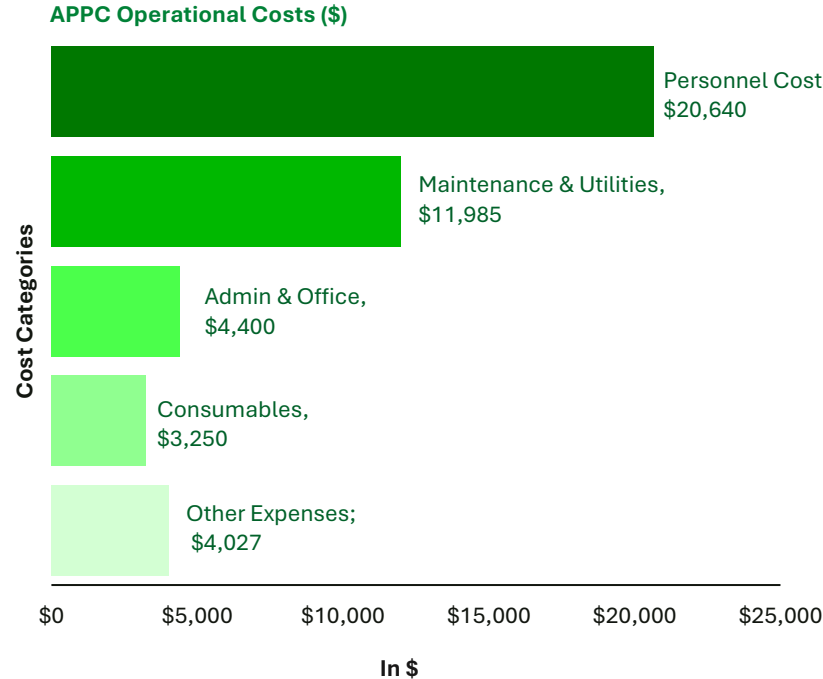
Annual Operating Costs



The charts illustrate the annual operating costs of the APPC, totaling \$44,302.

Personnel and labor represent the largest share (\$20,640, 47%). **Maintenance & utilities** account for (\$11,985, 27%), ensuring proper upkeep of machinery and supplies. **Administrative office** expenses represent (\$4,400, 10%) and **annual consumables** are (\$3,250, 7%). The remaining operating costs fall under **other essential expenses** (\$4,027, 9%).

Together, these expenditures will sustain efficient, reliable, and safe operation of the processing & packaging center.



Project Financials

Annual Revenues and Savings

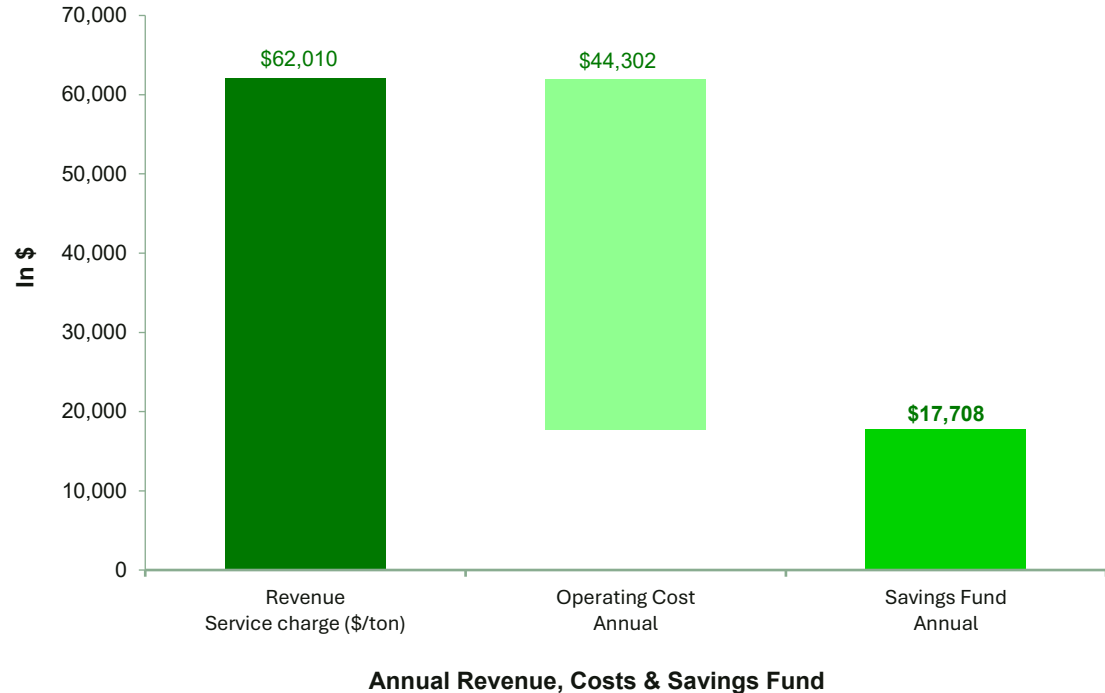


The chart presents the project's annual financial performance and long-term sustainability.

Annual revenue will be generated from the service fee ranging from \$30 to \$120 per ton of crops depending on product, with the potential for reduced per-ton costs as processing volumes increase in future years.

The major expense will be the **annual operating cost** of **\$44,302**, which includes staffing, maintenance, utilities, consumables, and other essential operational expenditures.

After accounting for all costs, the project will yield an **annual savings fund** of **\$17,708**, demonstrating both financial sustainability and its capacity for reinvestment in scaling this or supporting similar development initiatives.



Key Impact

Overview Project Impact



Value Addition

The APPC-SRL will transform raw agricultural products into higher-value goods, increasing market prices and reducing post-harvest losses and significantly boosting farmer productivity.



Income Growth for Farming Households

By enabling value addition and recovering crops that were previously lost, farmers' annual income will increase by **\$273 (55%)**, creating long-term economic resilience for more than 100 smallholder families.



Job Creation and Rural Employment

The project will generate **30 full-time equivalent jobs** across farming, processing, logistics, and sales, strengthening the local labor market and enhancing economic opportunities for youth and women.



Market Access & Food Security

Improved processing, packaging, and storage will increase market access by 60%, reduce seasonal food shortages by 25%, and ensure households have more stable and affordable access to nutritious food.



Financially Sustainable and Scalable Development Model

With an annual surplus fund of **\$17,708**, the APPC demonstrates operational sustainability and will create reinvestment capacity. The APPC will operate on a cost-recovery model with reinvestment into upgrades and cooperative development.

Thank You!



**We Sincerely Appreciate Your Attention and
Interest in Our Operations**



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Together, we can create a progressive world we can be proud of



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Advocate

Spread the message to
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