INVESTMENT OPPORTUNITIES IN AGRI-FISHERIES

Province of Guimaras

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Corn Production Enterprise

Project Description:

A mechanized yellow corn production enterprise integrating smallholder farmers through a contract-growing scheme to supply the AgFIVA Feedmill and other livestock feed manufacturers. The project utilizes high-yield hybrid or GMO seeds, modern farm mechanization, post-harvest facilities, and a revolving input-financing scheme provided by the Provincial Government to ensure sustainable production, reliable market access, and increased farmer incomes.

Areas for Investment

Capital equipment	: Corn planter, fertilizer applicator, pump and engine, and corn sheller.
Working Capital/ Inputs per Cycle	: Hybrid yellow corn seeds, agricultural lime, Bio-N, organic and inorganic fertilizers, and insecticides.
Post-Harvest & Storage	: Drying services, shelling, and clean, dry, rodent-proof storage facilities.
Farm Management & Capacity Building	: Soil testing, farm management, machine operator training, and integrated pest management (IPM).
Value-Chain & Market Support	: Cooperative development, market linkages with the AgFIVA feedmill, and logistics for produce consolidation and delivery.

Target Market

Primary:

- AgFIVA Feed Mill (anchor buyer)
- Commercial feed mills serving the poultry and swine industries in Guimaras and neighboring Iloilo Province

Secondary:

- Livestock and poultry integrators
- Agricultural cooperatives
- Institutional buyers and local traders requiring quality feed-grade yellow corn

Indicative Financial Evaluation

- ***Pilot/Scale Example:*** 100 ha, 2 cropping cycles/year; ₱20.0M annual gross revenue and ₱4.9M net income after cost recovery.
- ***Per-Hectare Assumptions:*** 5,000 kg/ha yield, ₱20/kg farm-gate price, and ₱75,500/ha/cycle production cost.
- ***Financial Highlights:*** 32.5% ROI, ₱15.10–₱18.88/kg production cost, and ~3.8 MT/ha break-even yield.
- ***Capital Requirement:*** ₱4.29M initial investment (equipment + one cropping cycle working capital).
- ***Cash Flow:*** Revolving fund model with input cost recovery each cycle; 1.5–2-year payback and 30–35% IRR.
- ***Farmer Benefit:*** 90% of net income goes to farmers and 10% to the Province, ensuring stable farmer income and a reliable local feed corn supply.

Corn Production Enterprise

Financial Highlights

Per Hectare (Per Cropping Cycle)

Assumptions: Price ₱20/kg; production cost ₱75,500/ha (per cycle)

Scenario	Yield (MT)	Revenue (₱)	Net Income (₱)	ROI (%)
Conservative	4.0	80,000	4,500	6.0
Target	5.0	100,000	24,500	32.5
Optimistic	6.0	120,000	44,500	58.9

100- Hectare Scale (Per Cropping Cycle)

Assumptions: Aggregated from per-ha; price ₱20/kg;
cost structure total cost per cycle ≈ ₱7,550,000 (100 ha); revenue scales with yield

Scenario	Revenue (₱)	Net Income (₱)	ROI (%)
Conservative	8 Million	450,000	6.0
Target	10 Million	2.45 Million	32.5
Optimistic	12 Million	4.45 Million	58.9

Payback: Estimated at 1.5–2 years at the project level. At the target yield, each hectare generates an estimated 32.5% ROI per cropping cycle, with payback varying based on the capital investment per hectare.

Guimaras Integrated Swine Enterprise (GISE)

Project Description:

A modern, biosecure 50-sow multiplier farm utilizing artificial insemination (AI), climate-smart technologies, and a biogas waste management system. The enterprise integrates a contract-growing network of local farmers with a future meat processing facility to provide quality breeding stock, technical support, and assured market linkages, creating a sustainable and vertically integrated swine value chain in Guimaras.

Areas for Investment

Core Infrastructure	: Climate-controlled swine housing, pens, biosecurity facilities, on-site AI laboratory, and biogas waste management system.
Breeding & Production	: 50 breeding sows, artificial insemination (AI) equipment, biologics, veterinary supplies, and herd health management.
Feed & Working Capital	: Phase-specific feeds (gestation, lactation, pre-starter, and starter), vaccines, and production inputs.
Processing (Phase 3)	: Slaughterhouse, chillers, freezers, and meat cutting and packaging facilities.
Capacity Building & Operations	: Farm management, AI and herd health training, contract grower development, and production monitoring systems.

Target Market

Immediate:

- Local backyard raisers
- Semi-commercial swine farmers
- Contract Growing Program participants

Primary:

- Meat processors (Iloilo and Negros)
- Institutional buyers (restaurants, hotels, and catering services)
- Jordan Public Market

Future:

- Supermarkets in Guimaras and Iloilo
- Specialty meat shops
- Direct retail consumers (online platform)

Indicative Financial Evaluation

- ***Production Target:*** 500–700 piglets per cycle (50-sow multiplier farm)
- ***Revenue:*** ₱3.0M–₱4.2M per cycle from piglet sales
- ***Returns:*** ₱1.38M–₱2.58M net income per cycle; 85%–160% ROI (output-dependent)
- ***Capital:*** ₱2.76M initial investment, plus working capital
- ***Efficiency:*** AI improves profitability by reducing breeding costs by ₱2,360 per sow compared with natural breeding
- ***Growth:*** 2–3-year payback, expanding to 80 sows (Year 2) and a meat processing facility (Year 3)
- ***Risk Management:*** Biosecurity, GAHP accreditation, processor offtake agreements, bulk feed procurement, and biogas waste management.

Guimaras Integrated Swine Enterprise (GISE)

Financial Highlights

Per Sow (Per Cycle) — AI System

Assumptions: Cost per sow per cycle ≈ ₱39,944; piglet sale price ₱6,000/head

Scenario	Yield (MT)	Revenue (₱)	Net Income (₱)	ROI (%)
Low	10	60,000	20,056	50.2
Medium	12	72,000	32,056	80.2
High	14	84,000	44,056	110.2

Note: The AI-based breeding system consistently delivers higher profitability by reducing breeding costs and increasing returns per sow as piglet production increases.

50-Sow Multiplier (Per Cycle)

Assumptions: AI-based scale; total cost ≈ ₱1,740,000 (50-sow baseline from the financial analysis); piglet price ₱6,000

Scenario	Total Piglets	Revenue (₱)	Net Income (₱)	ROI (%)
Low	500	3. 0 Million	1.26 Million	72.4
Mid	600	3.6 Million	1.86 Million	106.9
High	700	4.2 Million	2.46 Million	141.4

Capital Requirement (CAPEX): Approximately ₱1.74 million for a 50-sow AI-based multiplier farm (excluding land acquisition), covering breeding stock, swine housing, artificial insemination (AI) facilities, equipment, and the initial operational setup.

Estimated Payback: 2–3 years, with a projected ROI of 85%–160%, depending on piglet production and overall herd productivity.

Guimaras Mango Rehabilitation Enterprise

Project Description:

A province-wide mango rehabilitation and modernization program that restores aging orchards through Good Agricultural Practices (GAP), farm mechanization, quality planting materials, traceability systems, and shared post-harvest facilities. The enterprise integrates smallholder growers through cooperatives, strengthens market linkages with processors and exporters, and promotes value-added processing to enhance the productivity, quality, and global competitiveness of the Guimaras Carabao Mango.

Areas for Investment

Orchard Production	: Tree rehabilitation, quality grafted seedlings, irrigation, soil improvement, and climate-smart farming
Farm Inputs	: Fertilizers, flower induction materials, crop protection inputs, and farm mechanization.
Post-Harvest Facilities	: Hot Water Treatment (HWT), packing house, grading, cold storage, and value-added processing.
Logistics & Market Support	: Refrigerated transport, traceability systems, branding, packaging, and export market development.
Capacity Building	: GAP certification, technical extension, digital farm monitoring, and cooperative strengthening.

Target Market

Primary:

- High-end supermarkets
- Export aggregators
- Luxury hotels and resorts

Secondary:

- Local wholesalers
- Regional fruit distributors
- Retail fruit vendors/Bagsakan centers
- Processors of dried mango, puree, and juice

Indicative Financial Evaluation

- ***Pilot/Scale Example***: A 100-hectare rehabilitated orchard generating an estimated annual gross revenue of ₱120.0 million and net income of ₱42.0 million at full production.
- ***Per-Hectare Assumptions:*** Yield of 15 MT/ha, farm-gate price of ₱80/kg, and annual production cost of ₱780,000/ha.
- ***Key Metrics:*** Estimated 53.8% ROI, production cost of approximately ₱52/kg, and break-even yield of approximately 9.8 MT/ha.
- ***Capital Requirement:*** Approximately ₱35–40 million for orchard rehabilitation, post-harvest facilities, processing equipment, and working capital.
- ***Cash Flow:*** Estimated payback period of 3–4 years and IRR of 25–30%.
- ***Social Impact:*** Increased farmer incomes through cooperative-based production, premium pricing, and expanded value-added processing and export opportunities.

Guimaras Mango Rehabilitation Enterprise

Financial Highlights

Centennial Mango Production (6-Tree Block)

Assumptions: Based on a 6-tree Centennial production block, validated production and cost assumptions with a 10% contingency allowance, and a premium export-oriented production model.

Scenario	Yield (kg/tree)	Gross Revenue (₱)	Net Profit (₱)	ROI (%)
Conservative	500	150,000	11,257	8.11
Target	700	210,000	44,857	27.16

Note: *The target yield of 700 kg/tree generates an estimated 27.16% ROI per production cycle, demonstrating improved profitability through higher yields and efficient orchard management.*

Grafted Mango Production (Per Tree)

Assumptions: One productive grafted mango tree; validated production and cost assumptions with 10% contingency allowance; scalable production model with faster returns.

Scenario	Yield (kg/tree)	Gross Revenue (₱)	Net Income (₱)	ROI (%)
Conservative	150	9,000	3,254	56.66
Target	200	12,000	4,934	69.83
Optimistic	250	15,000	6,614	78.92

Note: At the target yield of 200 kg per tree, the enterprise is projected to achieve an estimated 69.83% ROI per production cycle, driven by lower production costs and higher returns per tree.

Guimaras Rice Seed Production Enterprise

Project Description:

The Guimaras Rice Seed Production Enterprise is a centralized, mechanized, and certified rice seed production initiative that utilizes 98 hectares of accredited seed grower areas across Sibunag, Jordan, and San Lorenzo. The enterprise aims to produce high-quality certified rice seeds to meet the province's annual requirement of 14,000 bags, reduce dependence on external suppliers, and strengthen food security through cooperative-managed production, mechanization, and post-harvest processing.

Areas for Investment

Seed Production	: Certified seed production, mechanized land preparation, planting, harvesting, and irrigation systems.
Farm Inputs	: Foundation seeds, fertilizers, crop protection inputs, and soil improvement.
Post-Harvest Facilities	: Drying, milling, storage, seed processing, grading, and packaging.
Logistics & Market Support	: Warehouse, transport, distribution, and seed quality certification.
Capacity Building	: Farmer training, technical extension, and cooperative development.

Target Market

Primary:

- Provincial Government of Guimaras
- Department of Agriculture (DA) through seed subsidy and distribution programs

Secondary:

- Farmers and cooperatives in Guimaras, Iloilo, and Negros Occidental

Institutional Buyers:

- Accredited seed growers, seed distributors, and private seed companies

Indicative Financial Evaluation

- ***Pilot/Scale:*** Starts at 40 ha and expands to 98 ha of certified seed production.
- ***Per-Hectare Assumptions:*** Yield of 4,000 kg/ha, generating ₱160,000 gross revenue and ₱80,772.50 net profit per cropping cycle.
- ***Key Metrics:*** 102% ROI per cropping cycle through mechanized and certified seed production.
- ***Capital Requirement:*** Farm mechanization and post-harvest facilities.
- ***Enterprise Impact:*** Expands local certified seed supply and supports provincial seed sufficiency.
- ***Social Impact:*** Increases farmer incomes, creates jobs, and strengthens food security.

Guimaras Rice Seed Production Enterprise

Financial Highlights

Financial Performance (Per Hectare)

Assumptions: Yield: 4,000 kg/ha; Selling Price: ₱40.00/kg

Indicator	Value
Gross Revenue	₱160,000
Production Cost	₱79,227.50
Net Profit	₱80,772.50
ROI	102%
Break-even Price	₱19.81/kg

Note: *Certified rice seed production generates an estimated 102% ROI per cropping cycle, demonstrating strong profitability through high-quality seed production, mechanization, and efficient farm management.*

Enterprise Expansion

Phase	Area	Production	Seed Bags
Year 1	40 ha	160,000 kg	3,200
Years 2–3	98 ha	392,000 kg	7,840
Long-Term Target	—	—	14,000 bags/year

Note: *The enterprise will expand from 40 hectares to 98 hectares, increasing annual certified seed production from 3,200 to 7,840 bags and progressing toward the long-term target of 14,000 bags annually to support provincial seed sufficiency and reduce dependence on external seed sources.*

Guimaras Sustainable Mariculture & Agri-Fishery Enterprise (Milkfish)

Project Description:

The Guimaras Sustainable Mariculture & Agri-Fishery Enterprise (G-SMAFE) is an integrated milkfish (bangus) mariculture project in San Lorenzo, Guimaras that combines fish cage production, fingerling production, feed integration, cold storage, fish processing, and eco-tourism. The project adopts a public-private-community partnership model to strengthen the fisheries value chain, improve productivity, and generate multiple revenue streams.

Areas for Investment

Mariculture Production : HDPE fish cages, fingerlings, feeds, and production systems.

Post-Harvest Facilities : Ice plant, cold storage, fish processing, and packaging.

Logistics & Market Support : Fish port, cold chain, transport, and market linkages.

Support Infrastructure : Feedmill integration and shared operational facilities.

Eco-Tourism & Capacity Building : Tourism facilities, technical training, and community enterprise development.

Target Market

Primary:

- Hotels, resorts, and large restaurants in Guimaras and Iloilo.

Secondary:

- Vendors, retailers, and wholesalers at the Jordan Wholesale Fish Port
- Local and regional food processors
- Direct consumers through KADIWA stores, agri-fairs, and festivals

Indicative Financial Evaluation

- ***Pilot/Scale:*** Begins with 2 R&D HDPE fish cages, scalable to a 60-hectare mariculture zone with 100+ HDPE cages.
- ***Production Assumptions:*** 80% survival rate, producing 6,400 kg of milkfish per production cycle.
- ***Key Metrics:*** ₱1.152 million gross income, ₱178,993 net income, and 18.40% ROI per production cycle.
- ***Capital Requirement:*** Approximately ₱2.46 million for HDPE fish cages, boats, monitoring equipment, and support facilities.
- ***Enterprise Impact:*** Strengthens the fisheries value chain through integrated production, processing, cold-chain facilities, and market linkages.
- ***Social Impact:*** Creates sustainable livelihood opportunities, increases fisherfolk incomes, and strengthens food security through a stable fish supply.

Guimaras Sustainable Mariculture & Agri-Fishery Enterprise (Milkfish)

Financial Highlights

Investor Package (80% Survival Rate)

Assumptions: 20,000 milkfish fingerlings stocked; 80% survival rate; average harvest weight of 0.40 kg/fish; selling price of ₱180/kg; one production cycle.

Indicator	Value
Fingerlings Stocked	20,000
Harvested Fish (80% Survival)	16,000
Harvest Biomass	6,400 kg
Gross Income	₱1,152,000
Total Expenses	₱973,006.67
Net Income	₱178,993.33
ROI	18.40%

Note: *The investor package generates an estimated 18.40% ROI per production cycle, assuming an 80% survival rate and an average harvest weight of 0.40 kg per fish.*

Coconut Modernization Enterprise

Project Description:

The Coconut Modernization Enterprise aims to transform Guimaras' coconut industry from traditional copra production into a modern, market-driven enterprise focused on whole nut marketing and value-added processing. The project promotes cooperative-led consolidation, mechanized post-harvest systems, and the production of high-value coconut products to increase farmer income and strengthen market competitiveness.

Areas for Investment

Farm Production	: Coconut rehabilitation, quality seedlings, mechanized harvesting, and climate-smart farming.
Farm Inputs	: Fertilizers, soil improvement, harvesting tools, and nursery development.
Post-Harvest & Processing	: Dehusking, grading, processing hub, VCO, coco coir, coco peat, and other byproducts.
Logistics & Market Support	: Consolidation centers, transport, cooperative marketing, branding, and institutional market linkages.
Capacity Building	: Farmer training, cooperative strengthening, and technical support.

Target Market

Primary:

- Beverage companies
- Wholesale fruit dealers
- Bulk buyers of fresh coconuts.

Secondary:

- Resorts, hotels, restaurants, and tourism establishments in Guimaras and Boracay.

Institutional Buyers:

- Processors of virgin coconut oil (VCO), coconut water, coco coir, coco peat, and other coconut byproducts.

Indicative Financial Evaluation

- ***Pilot/Scale:*** Initial implementation through clustered coconut production and value-added processing.
- ***Production*** Assumptions: Based on projected coconut yield and value-added products (e.g., copra, VCO, coco coir, coco peat).
- ***Key Metrics:*** 177% ROI for whole nut production, compared to 49% ROI for traditional copra production.
- ***Capital Requirement:*** Nursery establishment, replanting, processing equipment, and post-harvest facilities.
- ***Enterprise Impact:*** Expands value-added coconut production, increases farmer income, and strengthens the local coconut value chain.
- ***Social Impact:*** Creates rural employment, promotes sustainable coconut farming, and supports provincial agro-industrial development.

Coconut Modernization Enterprise

Financial Highlights

Financial Performance (Per Hectare per Year)

Assumptions: 143 bearing trees/ha producing 8,580 nuts annually; whole nut selling price of ₱8.00/nut and copra equivalent value of ₱75,075/ha; one production year.

Indicator	Whole Nut	Copra
Gross Revenue	₱68,640	₱75,075
Production Cost	₱24,700	₱50,440
Net Income	₱43,943	₱24,635
Net Income per Tree	₱307	₱172
Net Income per Month	₱3,661	₱2,067
ROI	177%	49%

Note: *The whole nut marketing model generates an estimated 177% ROI per hectare per year, significantly outperforming the traditional copra production model.*

Guimaras Native Chicken Production Enterprise

Project Description:

The Guimaras Native Chicken Production Enterprise is a scalable, controlled-range poultry production model that integrates breeding, grow-out, processing, and market linkages to ensure a stable supply of high-quality native chicken. The project strengthens the local poultry value chain by promoting improved farm management, biosecurity, value-added processing, and cooperative-based marketing while generating sustainable livelihood opportunities for smallholder farmers.

Areas for Investment

Production Facilities	: Controlled-range housing, perimeter fencing, brooders, feeders, drinkers, and weighing equipment.
Breeder Stocks & Farm Inputs	: Native breeder stocks, feeds, veterinary biologics, vaccines, and health supplements.
Processing & Value Addition	: Dressing facilities, packaging equipment, cold storage, and development of processed native chicken products.
Market & Logistics	: Farm-to-market transport, branding, packaging, and consolidation centers.
Capacity Building	: Training on native chicken production, biosecurity, Good Agricultural and Handling Practices (GAHP), enterprise management, and cooperative development.

Target Market

Primary:

- Local households
- Wet markets
- Traders
- Restaurants in Guimaras

Secondary:

- Hotels, resorts, tourism establishments
- Specialty food stores
- Institutional buyers.

Indicative Financial Evaluation

- ***Pilot/Scale:*** 595 heads per production cycle.
- ***Production Assumptions:*** 1 kg average live weight per bird; ₱250 selling price per bird.
- ***Key Metrics:*** ₱148,750 gross income, ₱12,563.21 net income, and 9.22% ROI per production cycle.
- ***Capital Requirement:*** ₱158,586.79 initial investment (fixed capital, breeder stocks, and working capital).
- ***Enterprise Impact:*** Produces 595 market-ready native chickens per cycle through a controlled-range production system.
- ***Social Impact:*** Increases farmer incomes, strengthens local supply, and supports rural livelihoods.

Guimaras Native Chicken Production Enterprise

Financial Highlights

Financial Performance (Per Production Cycle)

Assumptions: Controlled-range production system with 595 native chickens per production cycle, utilizing 5 roosters and 50 breeder hens, an average live weight of 1 kg per bird, and a selling price of ₱250 per bird.

Indicator	Value
Gross Revenue	₱148,750.00
Operating Cost	₱136,186.79
Net Income	₱12,563.21
Payback Period	< 1 production cycle (≈7 months)
ROI	9.22%

Investment Highlights

- Scalable controlled-range production model with improved productivity and bird survival.
- Strong and growing demand from households, restaurants, tourism establishments, and institutional buyers.
- Opportunities to increase profitability through value-added processing and product diversification.
- Suitable for smallholder farmers, cooperatives, and agribusiness investors due to its relatively low capital requirement.
- Supports food security, rural employment, and the sustainable development of Guimaras' native chicken industry.

Guimaras Vegetable Production and Marketing Enterprise

Project Description:

The Guimaras Vegetable Production and Marketing Enterprise is a climate-resilient, market-oriented agricultural initiative that promotes the production and marketing of high-value vegetables, including squash, pole sitao, ampalaya, tomato, okra, and eggplant across 15 hectares. The enterprise integrates coordinated production, Good Agricultural Practices (GAP), post-harvest management, and market consolidation to strengthen the vegetable value chain, improve farmer productivity, and ensure a reliable supply of quality vegetables.

Areas for Investment

Production Facilities	: Greenhouses, solar-powered irrigation systems, farm mechanization, and quality production inputs.
Post-Harvest Facilities	: Buying stations, Zero Energy Cooling Chambers (ZECC), sorting, grading, packing, and storage facilities.
Technology & Infrastructure	: Farm machinery, irrigation systems, and climate-smart farming technologies.
Market & Logistics	: Product consolidation, farm-to-market transport, trading posts, and institutional market linkages.
Capacity Building	: Farmer training on GAP, climate-resilient farming, enterprise management, and cooperative strengthening.

Target Market

Primary:

- Local trading posts
- Public markets
- KADIWA outlets
- Food terminals
- Retailers.

Secondary:

- Hotels, resorts, restaurants, supermarkets
- Institutional buyers.

Emerging Market:

- Processed vegetable products
- Online selling platforms
- Agri-tourism establishments
- Institutional feeding programs.

Indicative Financial Evaluation

- ***Pilot/Scale:*** Cluster-based commercial vegetable production.
- ***Production Assumptions:*** 1 hectare of mixed high-value vegetables per production cycle.
- ***Key Metrics:*** ₱624,000 gross revenue, ₱358,720 net profit, and 135% ROI per production cycle.
- ***Capital Requirement:*** Irrigation system, greenhouse/protective structures, post-harvest facilities, and production inputs.
- ***Enterprise Impact:*** Expands commercial vegetable production and strengthens market linkages through consolidated production.
- ***Social Impact:*** Increases farmer incomes, creates rural employment, and improves local food security.

Guimaras Vegetable Production and Marketing Enterprise

Financial Highlights

Financial Performance (Per Commodity)

Assumptions: Based on the enterprise financial projections for six priority vegetable commodities using projected yields, prevailing market prices, and estimated production costs per production cycle.

Indicator	Gross Revenue (₱)	Net Profit (₱)	ROI (%)
Squash	144,000	39,748	38
Pole Sitao	500,000	373,175	294
Ampalaya	600,000	412,200	220
Eggplant	780,000	556,440	249
Okra	420,000	291,600	227
Tomato	720,000	366,975	104
Total	**₱3,164,000**	**₱2,040,138**	**182**

Note: *The diversified vegetable enterprise generates an estimated 182% overall ROI per production cycle, demonstrating strong profitability through high-value vegetable production and market diversification.*