



Agro Hedera Agent

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"Connecting farmers to the future: Accessible technology to sell faster and get paid instantly."



01

Excellent Opportunity

Revolutionizing agriculture with AI agents optimizing trade, blockchain-powered transparency/traceability, and instant crypto-to-fiat payments.



02

Sustainable Technology Advantage

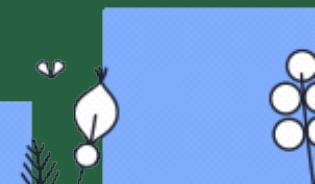
Use of accessible and automated platforms for real-time data capture and analysis.

03

Sustainable Technological Edge

Harnessing AI agents for traceability, predictive analytics and blockchain smart contracts for secure, automated transactions, ensuring market access and fair pricing.

Improving how farms are managed ensures that information is more accurate and fieldwork is more precise.





The issue

Lack of an integrated system for the accurate recording of agricultural activities.

- Scarce real-time analysis.
- Deficient operational forecasting.
- Tools incompatible with farmers.

Farmers struggle with the manual recording of agricultural data, which leads to:

- Typing errors
- Delayed reports
- Decisions based on inaccurate information

Our focus is on agribusiness owners interested in value-added production, who need to optimize these processes, ensuring traceability and efficiency.



"Linking each seed to its future: SFMG, where traceability and efficiency flourish in unison."



The Solution:

AI traceability Agents, web 3.0, and Smart Traceability

Agribusiness proprietors

SAVE FUNDS

Minimize manual documentation and decrease inaccuracies in production.

SAVE TIME

Instant Access to Information

CONTINUOUS ENHANCEMENT

Essential data for informed decision-making

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Our Framework

In merely three steps:



AI Agents in WhatsApp enable farmers to report sales, receive price predictions, and track payments easily.



DLTs-powered traceability ensures tamper-proof transaction records, preventing fraud and disputes.



AI Agents send real-time alerts for pending operations, scheduling process, sales opportunities and payments.



Smart traceability enables predictive analytics for better planning.



Blockchain automates secure financial and data tracking for each crop.



AI-powered automation enhances efficiency and reduces manual work.

AI-driven analytics & market insights empower farmers with strategic decision-making tools.



AI AGENT WORKFLOW

- 1** Farmer sends a message via WhatsApp (e.g., "I have 50kg of coffee to sell.")
- 2** AI Agent finds the best buyer & price in real-time.
- 3** Transaction is recorded on Hedera Blockchain for transparency.
- 4** Payment is made instantly in crypto & converted to fiat via P2P.
- 5** The farmer receives COP in Nequi/Daviplata or cash.
- 6** System logs the sale for future analytics & financing opportunities.



Traceability documentation captured by the client:

Preparation and Initial Planning

Monitoring and Management during the Growing Cycle

Post-Harvest Data Collection and Analysis

Optimization and Future Planning

Sustainable Competitive Advantages

AI Agents for Smarter Crop Planning

Real-Time Monitoring & AI-Powered Recommendations

Blockchain-Secured Data & Market Insights

AI-Driven Decision Making for Maximum Profitability

Efficient, Transparent, and Scalable Agriculture



Our business framework

In a case analysis (Smart Agriculture with AI & DLT)

- Smart traceability and AI-driven insights enable farmers to achieve 10% to 15% higher prices.
- AI agents optimize decision-making, preventing 70% to 80% of product losses by predicting needs and recommending best practices based on historical data.
- DLT-backed documentation ensures transparency, reducing staff turnover and preserving expertise.
- Automated reports enhance farm operations, providing real-time financial tracking, decision-making support, and productivity monitoring.
- AI-powered forecasting facilitates forward contracts, predicting optimal harvest sales windows.
- Hashgraph-verified agricultural data and predictive analytics improve access to crop insurance and financing.

Element	Estimated amount
Current deficit	\$300,000,000 COP.
Percentage Recovered	70% - 80%
Recovered value (*)	\$240,000,000 COP

(*) Funds available for reinvestment and process enhancement





Metrics we track

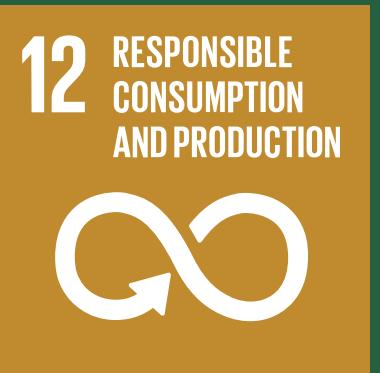
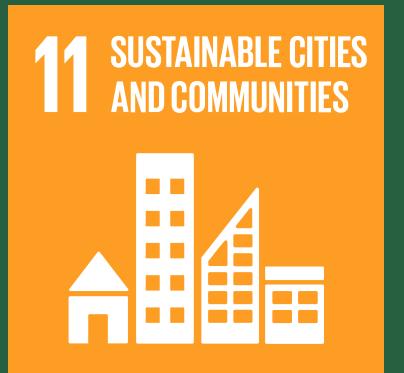
- AI-Agent Tracked Field Records (FRN): Automated logging of farm data.
- Real-Time Data Queries (CIR): AI-powered responses on collected insights.
- Farmer Satisfaction Index (FSI): Feedback on AI agent-assisted transactions.
- Advanced Data Analytics (DA): AI-based forecasting and trend identification.
- Total Product Transactions (TPT): Volume of sales processed via SFMG.
- Blockchain-Secured Traceability Data (TDT): Verified transactions ensuring market trust.
- Profit Increase via AI & Blockchain Adoption (PGA): Measured impact on income.
- Community Impact Metrics (MICE): Economic growth, jobs, and service accessibility.



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Impact on the Subsequent Sustainable Development Goals



THE GLOBAL GOALS



How SFMG Benefits Everyone

STAKEHOLDER	KEY BENEFITS
FARMERS	Product traceability, Higher profits, instant payments, no need for banks, better planning.
COOPERATIVES	Easier supply chain management, real-time pricing, secure contracts.
BUYERS/EXPORTERS	Guaranteed traceability, fraud prevention, quality assurance.
GOVERNMENT	Data-driven agricultural policies, better support for farmers.



Real-World Pilot & Next Steps

FUTURE VERSION 2.0

Pilot Testing → Select 3-5 farming communities to test the dAPP.

Expand AI Agent Capabilities → Voice support, offline functionality.

Strengthen P2P &/or off ramp Fiat Conversion → More cash-out options & market liquidity for farmers.

Onboard Key Buyers & Partners → Cooperatives, supermarkets, exporters.

Grow Farmer Adoption → Training programs, partnerships with agricultural groups.