



GEN EXCHANGE

Tokenizing the wealth of a nation

Secure, Transparent & Integrated Gold Exchange

[Create an Account](#)

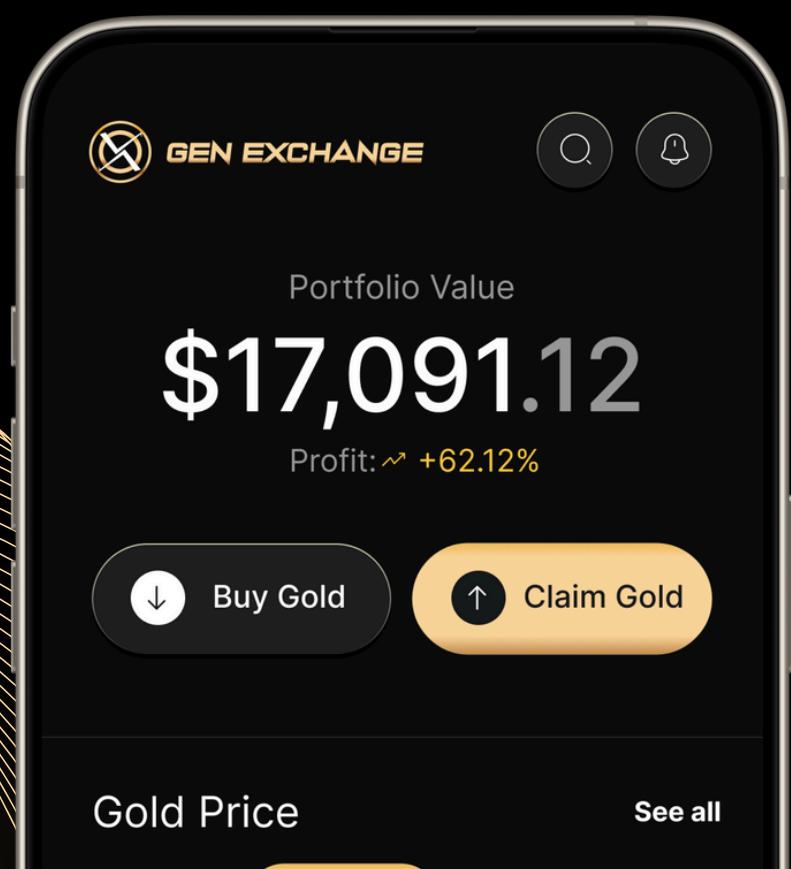
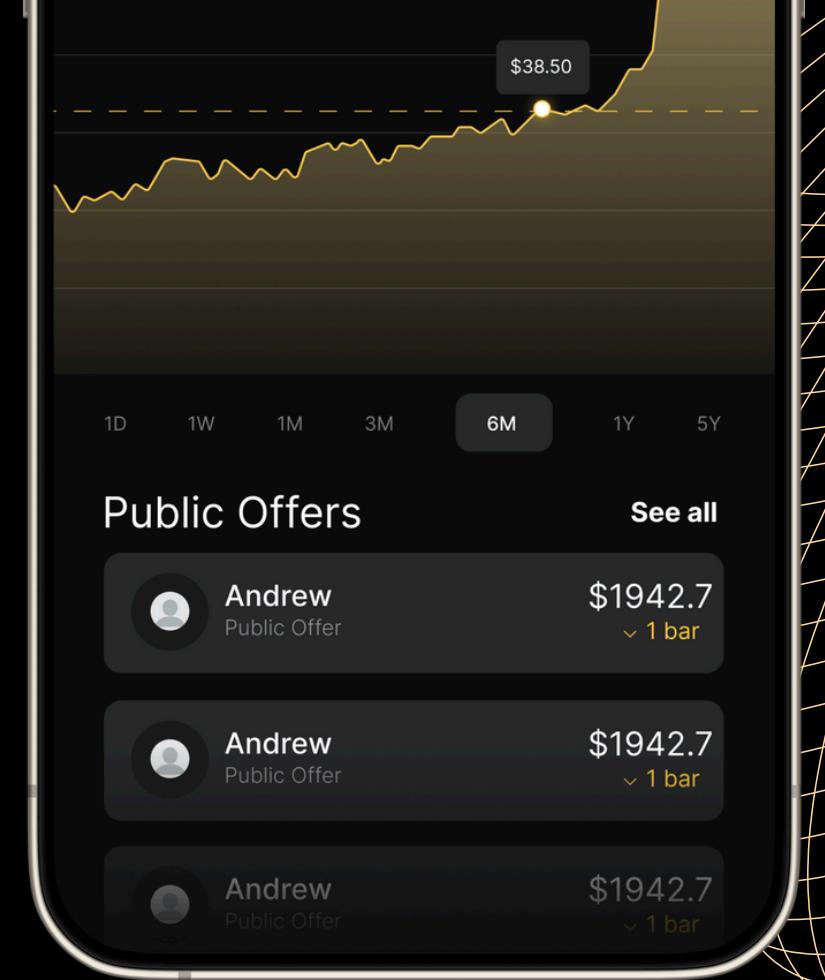




WHO WE ARE

OUR VISION

A unique gold sales exchange working alongside the Ugandan government to achieve a safe, transparent platform where buyers worldwide transact with confidence.



OUR MISSION

To secure a large segment of the Ugandan and East African gold market by partnering with the only government-backed refinery, offering favorable prices while meeting international quality standards.



The Gold Sector Challenge

01 Fragmented Market

Smuggling, unregulated cross-border trade, and weak governance undermine the sector.

02 Limited Infrastructure

Lack of value addition, refining capacity, and access to finance for small-scale miners.

03 Environmental Concerns

Traditional mining and refining processes cause significant environmental degradation.

04 Regulatory Gaps

Limited institutional capacity and lack of harmonized regional policies.





Our Solution



Unite Fragmented Sector

Contract small and large artisan miners, providing them direct access to international markets.



Government Oversight

Strategic partnerships ensure reputable and reliable government supervision of the ecosystem.



Quality Standards

ISO certifications ensure environmental protection and international quality standards.



Institutional Gold Exchange Workflow

01 Partner Bank Onboarding

VO partners with central banks (Bank of Uganda/Bank of Africa) and 1-2 local banks per jurisdiction. Each partner bank designates a dedicated transaction team.

02 Buyer Onboarding

Buyer applies online via GenXchange platform, submits KYC/KYB documents. Platform verifies import license validity, ID authentication, and proof of funds via bank-to-bank confirmation.

03 Gold Transfer & Settlement

Buyer places order → VO ships gold from Uganda to partner bank in buyer's jurisdiction. Unique Transaction Code generated for each order, sent to buyer, partner bank, and admin panel.





Institutional Workflow: Final Steps

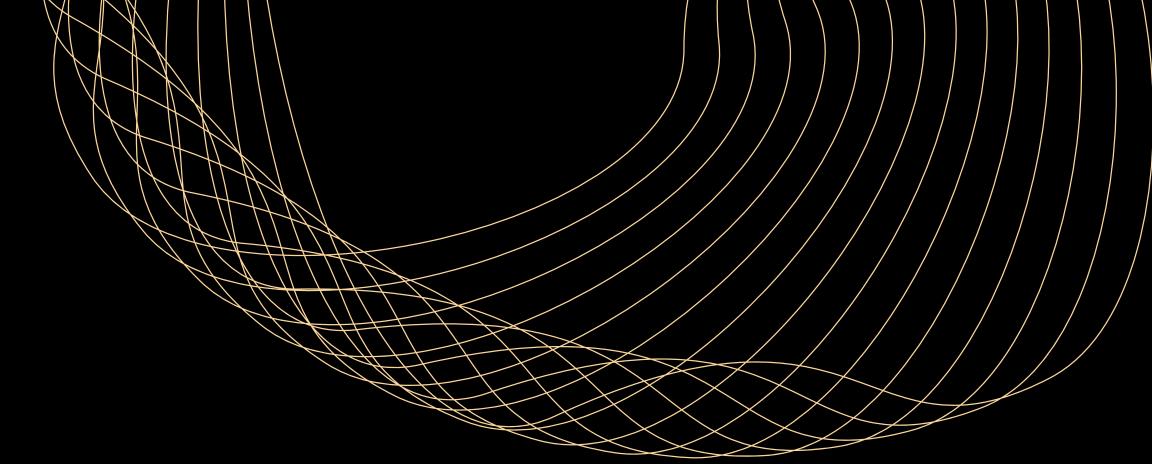
04 Physical Withdrawal

Buyer visits partner bank in person with government-issued ID, ownership documentation, and unique transaction code. Bank representative cross-verifies code with admin system, completes face-to-face due diligence, and releases physical gold.

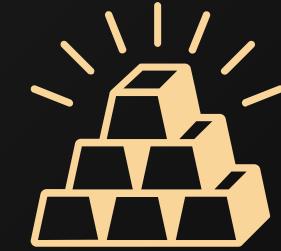
05 Regulatory Compliance

Transactions structured as bank-to-bank with buyer responsible for local import taxes and tariffs.



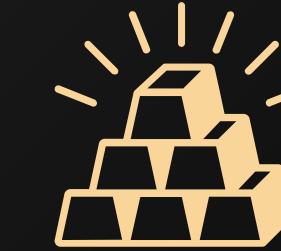


Retail Gold Exchange Workflow



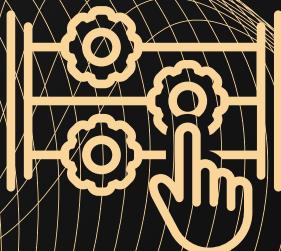
Gold-Backed Coin Creation

Coin value = Real-time gold price (e.g., PAX Gold) - Discount (0.5-1%). 1 coin = 1 oz gold, divisible to 18 decimal places for gram-level purchases.



Physical Gold Withdrawal

Minimum withdrawal: \$100,000 equivalent in gold. Process mirrors institutional workflow with unique code and in-person bank verification.



Trading & Liquidity

Order book trading with limit/market orders. Market maker bots place 15+ bids/asks per second. P2P trading module where exchange acts as mediator.



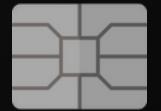


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Value-Added Services



Card Integration



User converts gold coins to virtual debit card (max \$5,000/card). Exchange buys back coins at market rate, funds card via issuer bank, and earns 2.5% cashback per transaction.

Same process applies for brand gift cards (e.g., Starbucks).



GEN EXCHANGE

VISA



Staking

Users stake gold coins to earn fixed yield (e.g., 2%/month). Exchange uses pooled funds to trade/acquire gold, with profits covering the promised yields.

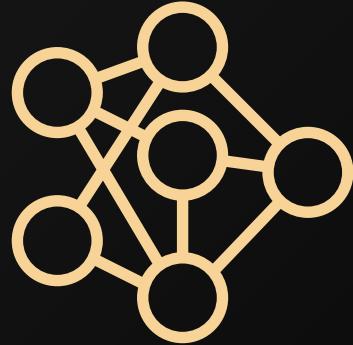


Supporting Infrastructure



Bank Integration

Partner banks provide APIs for real-time fiat deposits/withdrawals (UGX, USD, TRY) and auto-sync with exchange wallets. Manual processing available as fallback if APIs are unavailable.



Agent Network

Local agents issue QR codes representing gold coin amounts. Users deposit cash, agent scans QR, and coins are added to user's mobile wallet.



Audit & Compliance

Real-time dashboard showing gold bars by serial/certificate number and location. Quarterly third-party verification of gold reserves.



Regulatory & Security Measures

01 Closed-Loop System

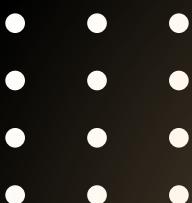
Gold never leaves VO/partner bank custody until in-person verification, ensuring security throughout the transaction process.

02 Unique Codes

Prevent fraud by linking withdrawals to verified identities, creating a secure verification chain for all transactions.

03 Jurisdictional Compliance

Partner banks handle local regulations (e.g., Turkish import licenses), ensuring legal compliance across different markets.



Economic Benefits

GenExchange creates substantial economic advantages for Uganda:

Increased government revenues through refining levies

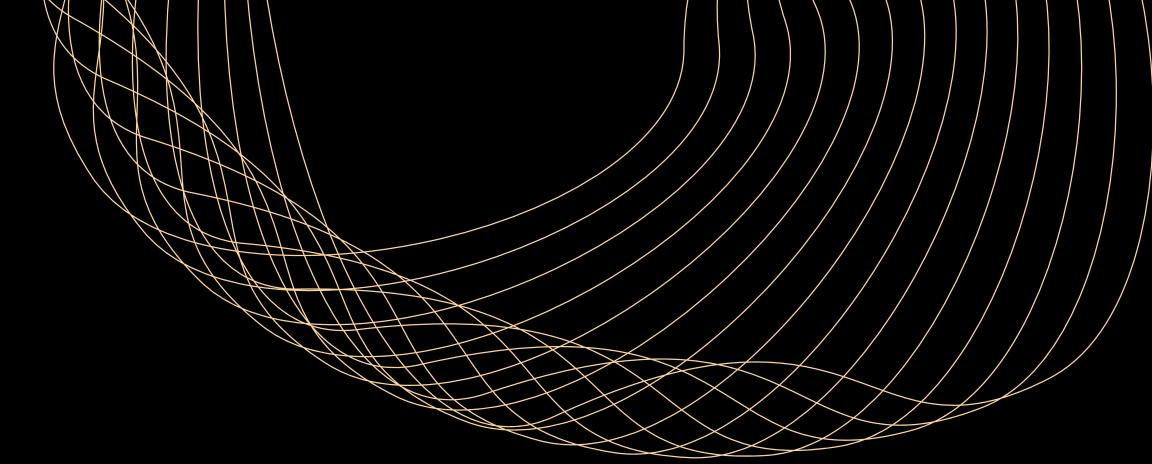
New value-added tax revenue from quality improvements

Reduced smuggling and illegal trade

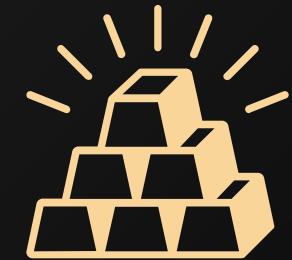
Growth in Uganda's national economy

Environmental protection through innovative technologies



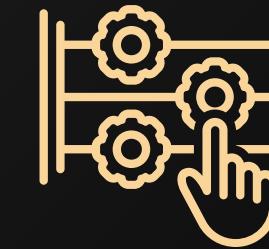


How Gen Exchange Works



Raw Gold Supply

Secure transport and logistics
from mining sites to the refinery



Refining Process

Raw gold refined to minimum
95% purity (23 ct)



Sales Platform

Buyers purchase refined gold
through transparent exchange



Banking Services

Bank of Uganda/Bank of Africa
secures and manages transactions



Tech Stack

			
Core Architecture	Optimized for Uganda	Security & Compliance	UX Tools
<ul style="list-style-type: none">* Microservices-based with full API-layer abstraction* Horizontally scalable using Raft Consensus Clustering* Built with enterprise-grade languages (C# for matching engine, Angular for frontend, Flutter for mobile)	<ul style="list-style-type: none">* API support for Bank of Uganda integration* Supports local agent network via QR-based cash deposits* Custom dashboards for Ugandan regulatory bodies	<p>50+ Security Layers including:</p> <ul style="list-style-type: none">* TLS v1.3, Anti-DDoS (Cloudflare), Brute-force protection* AES-encrypted JWT, 2FA (SMS, Email, TOTP)* SQL injection protection, CORS policy* Regulatory Integrations:<ul style="list-style-type: none">* KYC (SumSub / Onfido), KYT (Chainalysis), Travel Rule (Notabene)* Blockchain address whitelisting, Risk profiling engine	<ul style="list-style-type: none">* Frontend: Angular 14 (Web), Flutter (iOS/Android)* Trading Interface: Real-time order book, live charting, P2P, and staking modules* Localization: Multi-language UI, regional SMS/email content support* Admin Control: Limits, KYC levels, asset listing, referral system, staking rules



Key Components **Tech Stack**

Layer	Technology	Description
Matching Engine	C# Matching Engine (CSME)	Handles 100K+ orders in <10 sec, FIFO with price-time priority
Wallet System	Multi-chain Support	Supports 25+ chains with Fireblocks/BitGo custody integration
Database	MySQL Cluster + Redis + RabbitMQ	Secure, fast, and distributed message/data handling
Admin Panel	Modular Broker/Dealer Access	Regulator + Admin dashboards with full control and transparency
API Gateway	REST + WebSocket + JWT	Fast order execution, encrypted session control, KYC integration

Powered by Byte Exchange Infrastructure

Bank Services

1

Secure Transport

Government-owned and operated transport services move refined gold from refinery to bank vaults

2

Documentation

Issue and process required exportation documents for shipping gold to buyer's destination

3

Logistics Management

Arrange transportation and security to buyer's destination

4

Financial Services

Manage payment and transfer of gold ownership





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The Gen Exchange Advantage

For Suppliers

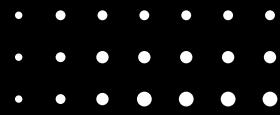
1. Direct access to international markets
2. Fair pricing and transparent transactions
3. Government-backed security and legitimacy

For Buyers

1. Vetted, traceable gold suppliers
2. ISO-certified quality standards
3. Secure, government-overseen transactions
4. Environmentally responsible sourcing



Our Team



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Thank You



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