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Executive Summary

An Abstract of SilverTimes

Overview

SilverTimes represents an innovative Real World Asset (RWA) token engineered to deliver synthetic exposure to silver prices, thereby democratizing access to this enduring commodity through blockchain technology. Deployed on the Ethereum network, SilverTimes tracks the spot price of silver via a balanced synthetic architecture: Roughly 50% underpinned by physical spot silver and 50% allocated to futures contracts, cash equivalents, and U.S. Treasury bills. This sophisticated configuration ensures price fidelity, volatility hedging, and revenue generation to sustain operational expenses, fostering a resilient ecosystem for participants and the platform alike.

Key Features

SilverTimes mitigates longstanding challenges in conventional silver investment, including elevated storage costs, constrained liquidity, and accessibility barriers, by delivering institutional-caliber functionalities on-chain. Participants can mint tokens through a standard KYC procedure at designated facilities and redeem them for physical silver at designated vaults, guaranteeing 1:1 value equivalence with reserves validated through transparent Proof of Reserves audits. Extending beyond mere price exposure, SilverTimes facilitates decentralized finance (DeFi) opportunities, enabling tokens to serve as collateral for lending, borrowing, and yield enhancement within compatible protocols, thereby converting static holdings into dynamic financial instruments.

Market Rationale

The project's foundation is rooted in silver's compelling attributes as an asset. Functioning as a safeguard against inflation and economic instability, silver derives over 50% of its demand from industrial sectors, including solar photovoltaics, electronics, electric vehicles, and medical applications. Over the past five years, silver's average annual growth rate has exceeded 20%. Forecasts suggest continued upward momentum, [potentially ascending to \\$50 per ounce by the end of 2025 ↗, with extended horizons reaching up to \\$100 per ounce ☑](#), propelled by supply constraints, renewable energy advancements, and geopolitical dynamics. Relative to equities, which exhibit high market correlation risks, or other commodities susceptible to demand fluctuations, silver affords superior diversification and appreciation potential, historically outperforming in bullish cycles.

Backing and Expertise

Bolstered by the backing of Alexis Investment Limited, a major subsidiary company of ex-TSX Venture listed mining company, GobiMin Inc., an entity with profound expertise in metal mining and trading—including exploration and exploitation of nickel, copper, and legacy (past) gold mining, alongside regional metal commerce—this initiative leverages established industry acumen for operational excellence.

Vision

The SilverTimes roadmap encompasses DeFi expansions, such as a silver-backed USD stablecoin to augment stability, and the introduction of a governance token. Stakeholders who stake their tokens will qualify for airdrops derived from platform revenues, promoting community-led progression. By integrating robust tokenized asset frameworks with synthetic efficiencies, SilverTimes empowers retail and institutional investors to harness silver's promising trajectory in a streamlined, cost-effective manner.

Conclusion

This whitepaper delineates the operational mechanics, risk considerations, and strategic vision of SilverTimes, establishing it as a frontrunner in the burgeoning multi-billion-dollar RWA landscape, as indicated by prevailing sector trends.

Introduction

Background

Real World Asset (RWA) Tokenization

In the evolving landscape of blockchain and decentralized finance, the tokenization of real-world assets (RWAs) has emerged as a transformative force, bridging traditional finance with digital innovation. RWAs encompass tangible and intangible assets, ranging from commodities and real estate to financial instruments, which are converted into blockchain-based tokens that facilitate fractional ownership, enhanced liquidity, and global accessibility. This process leverages smart contracts to ensure transparency, immutability, and efficiency, reducing intermediaries and operational frictions inherent in conventional markets.

As of 2025, the tokenized RWA market has experienced exponential growth, reaching approximately [\\$24 billion in total value, reflecting a 380% increase over the past three years ↗](#). [Projections indicate this sector could expand to \\$30 trillion by 2030 ↗](#), fueled by institutional participation and regulatory progress. Synthetic commodities, a subset of RWAs, further innovate by combining physical asset backing with derivative instruments such as futures and yield-bearing securities.

This hybrid approach not only mirrors underlying asset prices but also generates intrinsic value through hedging and revenue mechanisms, addressing volatility while unlocking new economic models.

The Silver Market

Industrial Demand for Silver: Why It Matters to Investors

Silver, a versatile precious metal with dual roles as a monetary store of value and an industrial staple, stands at the forefront of this tokenization wave. Historically prized for its conductivity, reflectivity, and antimicrobial properties, silver's demand is increasingly propelled by industrial applications, which [account for over 50% of global consumption ↗](#).

Key sectors include solar photovoltaics, where silver paste is essential for efficient energy capture, electronics for circuit boards and switches, electric vehicles for battery and component enhancements, and medical devices for hygienic coatings. In 2025, global industrial demand has reached record levels of [approximately 1,200 million ounces, with East Asia alone consuming 401.7 million ounces, marking a 4% year-over-year increase ↗](#). Projections indicate sustained growth of 5-7% annually amid the global transition to renewable energy and advanced technologies, potentially tripling demand in sectors like 5G and IoT to 23 million ounces by year-end.

From an investment perspective, silver offers compelling rationale as a hedge against inflation, currency devaluation, and geopolitical uncertainties. Unlike equities, which are closely tied to broader market cycles, or volatile commodities like oil, silver provides diversification benefits with historically strong performance in bullish environments.

[For instance, over the past 100 years, silver has delivered annualized returns of around 3.5% adjusted for inflation, outperforming broad commodities \(1.24% annualized\) while serving as a counterbalance to stock market downturns, where it has gained an average of 15% during major recessions ↗](#).

Recent market dynamics, including supply deficits exceeding 200 million ounces in 2025 and rising investor interest, have driven prices to approximately \$44.13 per ounce as of September 24, 2025, underscoring its upward trajectory. [Forecasts suggest prices could reach \\$50 per ounce by the end of 2025, with long-term potential up to \\$100 per ounce amid persistent deficits projected at 117.7 million ounces this year. ↗](#)

Existing Problems

Storage, logistics, high barrier to entry, etc.

Despite silver's intrinsic value and growth potential, traditional investment avenues remain plagued by inefficiencies.

Physical ownership entails high storage and insurance costs, limited liquidity, and logistical barriers, particularly for retail investors.

Financial derivatives, while offering exposure, often involve complex brokerage requirements and counterparty risks.

Moreover, the fragmentation between physical markets and digital ecosystems hinders seamless access, excluding a broad demographic from participating in silver's appreciation.

These challenges amplify during periods of economic volatility, where quick, cost-effective entry points are crucial yet elusive.

Our Vision & Backing

Our expertise and our optimism on silver investment

The vision for SilverTimes stems from a recognition of silver's pivotal role in the future economy, poised to outperform amid green energy transitions and industrial booms. By tokenizing silver synthetically, the project aims to democratize access, enabling users to gain exposure without the burdens of physical handling, while integrating DeFi utilities for enhanced yields and functionality.

This initiative is fortified by the backing of Alexis Investment Limited, a major subsidiary company of ex-TSX Venture listed mining company, GobiMin Inc.. With operations spanning exploration, development, and exploitation of nickel, copper, and legacy (past) gold mining, alongside robust trading networks in Hong Kong and China, GobiMin Inc. provides unparalleled operational acumen and supply chain integrity to ensure the project's reliability and scalability.

Market Analysis

Silver as Investment

Why Silver as an Investment?

Silver has long been recognized as a strategic asset in diversified portfolios, offering unique advantages in an era of economic uncertainty and technological advancement.

As a precious metal, it serves as an effective hedge against inflation, currency devaluation, and geopolitical risks, preserving value when fiat currencies falter. Unlike purely speculative investments, silver's intrinsic utility stems from its dual nature: [approximately 59% of its demand arises from industrial applications ↗](#), providing a fundamental floor to its price even during market downturns.

[In 2025, amid rising interest rates and global supply chain disruptions, silver has demonstrated resilience, gaining nearly 25% through mid-year and continuing its ascent ↗](#). Institutional forecasts highlight its potential for substantial returns, with predictions of prices reaching \$50 per ounce by year-end, driven by historic supply deficits exceeding 200 million ounces.

This positions silver not merely as a safe haven but as a growth-oriented asset, [particularly appealing to investors seeking exposure to green technology and renewable energy sectors. ↗](#)

Comparative Analysis

Comparative Analysis: Silver vs. Stocks and Other Commodities

When evaluated against stocks and other commodities, silver exhibits superior diversification benefits due to its low correlation with traditional markets. Equities, often vulnerable to corporate earnings cycles and market sentiment, have shown high volatility in 2025, with the S&P 500 experiencing fluctuations tied to tech sector corrections.

In contrast, silver maintains a moderately weak positive correlation to stocks, bonds, and broad commodities, enabling it to act as a portfolio stabilizer during downturns. Historical data underscores this: over the past century, [silver has delivered annualized returns of approximately 3.5% adjusted for inflation ↗](#), outperforming the broader commodities index at 1.24% while gaining an average of 15% during major recessions.

[Compared to other commodities like oil ↗](#), which are prone to demand shocks from geopolitical events, silver's industrial backbone provides greater resilience. For instance, while oil prices have swung wildly due to supply chain issues, silver has benefited from consistent demand growth, outpacing its commodity peers in the first half of 2025.

[Relative to gold, silver offers higher volatility for potentially amplified returns, with experts recommending allocations of up to 15% in silver versus 8% in gold for balanced growth in 2025 ↗](#). This comparative edge makes silver an attractive option for investors seeking both protection and upside in a diversified strategy.

Growth Potential

Silver's growth trajectory in 2025 and beyond is underpinned by structural supply constraints and escalating demand, positioning it for significant appreciation. As of September 2025, prices have surged to approximately \$44.13 per ounce, marking a 40% increase year-to-date and approaching 14-year highs.

Short-term forecasts indicate continued momentum, with averages projecting \$50 per ounce by the end of 2025, driven by [persistent deficits estimated at 117.7 million ounces ↗](#). Long-term outlooks are even more bullish, with predictions up to [\\$100 per ounce in extended horizons ↗](#), fueled by dwindling aboveground stockpiles and no significant new mine supply.

These projections reflect silver's undervaluation at current levels, with supply risks and industrial expansion creating a favorable environment for sustained gains.

Industrial Uses and Demand Drivers

Over 50% of silver's global demand originates from industrial sectors, distinguishing it from purely monetary assets and driving its robust growth profile.

In 2025, total industrial consumption has hit record highs of [approximately 1,200 million ounces, with East Asia accounting for 401.7 million ounces, a 4% year-over-year increase ↗](#). Key applications include solar photovoltaics, where silver's conductivity enables [efficient panel production, projected to grow by 46% over the next decade as renewable energy adoption accelerates ↗](#).

[Electronics demand, encompassing circuit boards, switches, and 5G infrastructure, is expected to rise to 23 million ounces by year-end ↗](#), supported by advancements in IoT and automotive electrification. Electric vehicles and medical devices further amplify usage, with silver's antimicrobial properties enhancing hygienic applications and battery efficiency.

Overall, industrial demand is forecasted to expand by [5-7% annually, tightening supply and elevating prices amid a structural deficit exceeding 200 million ounces in coming years. ↗](#) These drivers underscore silver's critical role in the global shift toward sustainable technologies.

RWA Trends & Opportunities

RWA market trends and opportunities for us

The tokenized real-world asset (RWA) market has matured significantly in 2025, reaching [approximately \\$24 billion in value, a 308% increase over three years, with projections scaling to \\$30 trillion by 2030 as tokenized assets could represent up to 10% of global GDP. Trends include institutional influx, with the total value of tokenized RWAs on public blockchains surging to nearly \\$18 billion by early 2025, and stablecoins pushing the broader market beyond \\$240 billion.](#) ↗

Regulatory maturity and innovations in private equity and real estate tokenization are accelerating adoption, creating parallels for commodities like silver. SilverTimes capitalizes on this by offering synthetic, on-chain exposure, enabling fractional ownership and DeFi integrations that transform silver from a passive asset into a liquid, yield-generating instrument. This positions the project to capture a share of the expanding RWA ecosystem, bridging traditional silver markets with blockchain efficiency for broader investor participation.

STT - Solution Overview

Core Synthetic Design

SilverTimes introduces a pioneering synthetic token architecture for its SilverTimes Token (STT), designed to provide seamless exposure to silver prices while incorporating mechanisms for stability, revenue generation, and long-term ecosystem sustainability.

At its foundation, the token employs a balanced allocation strategy: the majority of the underlying value is secured by physical spot silver holdings, ensuring direct asset correlation and tangible backing, while the remaining is diversified across futures contracts, cash equivalents, and U.S. Treasury bills.

This hybrid model is strategically positioned to capitalize on the anticipated surge in silver prices. By combining spot exposure with selectively timed derivative instruments, it amplifies potential upside from market rallies while maintaining flexible leverage. The framework anticipates a tightening supply-demand dynamic and increasing investor appetite for hard assets, positioning the strategy to benefit from silver's expected appreciation.

Currently, the allocation is managed by the core team to ensure precise execution and risk oversight during the initial phases. In the future, this process will transition to full automation via smart contracts for enhanced transparency, with the governance model enabling community-driven adjustments to parameters such as allocation ratios or hedging strategies.

The system operates through real-time adjustments facilitated by trusted oracles for accurate pricing data. For instance, the spot silver component is custodied in secure vaults, providing intrinsic value, while the futures allocation captures price differences in basis trading, averaging 2-10% annualized based on historical market data. Combined with yields from U.S. Treasury bills, currently around 4-5% annually, this structure is expected to generate overall revenue of 2-8% on the total value locked, depending on market conditions.

This revenue stream addresses a core limitation of traditional silver-backed tokens, which often incur net costs from storage and management without inherent yield mechanisms. By embedding revenue generation directly into the design, SilverTimes ensures that STT holders retain full price exposure to silver without dilution, while the protocol accumulates funds for operational efficiency.

Backed by Alexis Investment Limited, a major subsidiary company of ex-TSX Venture listed mining company, [GobiMin Inc.](#), with its extensive expertise in metal mining and trading, the design benefits from robust supply chain integration, enhancing the procurement and management of physical silver components.

Revenue & Sustainability

Revenue Utilization and Ecosystem Sustainability

Revenue generated from the synthetic allocation is strategically deployed to foster a self-sustaining model. Initially, a portion, estimated at 20-30%, is allocated to cover operational costs, including custody fees, oracle services, audits, and platform development, ensuring low overhead and competitive fee structures for users. This approach eliminates the need for high transaction fees, making STT more accessible and cost-effective compared to conventional tokenized assets.

In the medium term, accumulated revenue will support community incentives, particularly through airdrop distributions in the form of a forthcoming governance token. Holders who stake their STT will be eligible for these airdrops, proportional to their staked amounts and duration, promoting long-term participation and alignment with the protocol's growth. This mechanism not only rewards loyalty but also decentralizes governance, allowing token holders to influence future upgrades, such as yield optimization strategies or new DeFi integrations.

By solving the revenue generation challenge inherent in purely backed silver tokens, where assets remain idle and costs accrue, SilverTimes creates a virtuous cycle: yield from the synthetic layer funds operations and incentives, all while maintaining uncompromised price tracking for STT holders.

Minting & Redemption

Minting and Redemption Processes

To facilitate user participation, SilverTimes implements secure minting and redemption mechanisms that prioritize compliance and accessibility. Minting requires users to undergo a rigorous Know Your Customer (KYC) verification at designated facilities, ensuring adherence to global regulatory standards, before any issuance can proceed. Upon approval, STT tokens are issued in proportion to deposited collateral or fiat equivalents, with smart contracts automating the process for instantaneous execution. In parallel, the platform adopts the LBMA Silver Good Delivery standard to assure metal quality and will only accept freshly minted bars from LBMA-accredited refineries as eligible collateral for minting and redemption workflows.

Redemption allows holders to exchange STT for physical silver at designated vaults, with processing times optimized for efficiency and minimum thresholds to streamline logistics. Reserves are maintained at a 1:1 value equivalence, validated through regular Proof of Reserves audits by independent third parties, providing transparency and mitigating risks.

Benefits

Benefits and Value Proposition

The SilverTimes solution delivers multifaceted benefits, transforming traditional silver investment into a dynamic, on-chain experience. Primary advantages include enhanced liquidity, with STT tradable 24/7 on decentralized exchanges, and fractional ownership that lowers entry barriers for retail investors. The integrated yield generation differentiates STT, potentially delivering additional returns without affecting core price exposure.

- 24/7 trading
- lowers entry barriers
- institutional grade investment for retail buyers
- no storage / logistics fees or costs
- additional yeild generation
- silver certification guarantees purity & quality

In the broader RWA landscape, this model positions SilverTimes as an innovative leader, bridging physical commodities with blockchain efficiencies to capture growing demand for tokenized precious metals.

DeFi & Silver-backed Stablecoin

Beyond core exposure, SilverTimes seamlessly integrates with decentralized finance protocols, allowing STT to function as collateral in lending platforms and yield farming strategies. Looking forward, the design accommodates expansions such as a silver-backed USD stablecoin, enhancing liquidity and stability within DeFi ecosystems.

Token Design and Mechanics

STT Tokenomics Overview

The SilverTimes Token (STT) is an ERC-20 token on Ethereum, optimized for interoperability with DeFi ecosystems. Its design emphasizes flexibility and value alignment:

- **Supply Model:** Dynamic and uncapped, with tokens minted or burned based on user interactions to reflect reserve levels.
- **Pricing Peg:** mirroring silver spot price, where $1 \text{ STT} \approx 1 \text{ troy ounce of silver}$.
- **Fees:** Free/0.35% for minting/redemption, contributing to protocol revenue.
- **Governance:** Team-led initially, evolving to community votes via a future governance token for parameter changes.

This setup supports scalability while integrating revenue mechanisms without compromising asset exposure.

Synthetic Silver Token

Synthetic Strategies and Deployment

STT's synthetics build on the hybrid allocation, focusing on implementation details:

Component	Allocation	Purpose	Expected Yield
Spot Silver	Majority	Direct backing and correlation	N/A (intrinsic value)
Futures Contracts	Adjustable allocation	Carry via curve (contango/backwardation) and basis trades	2-10% annualized
Cash & T-Bills	Adjustable allocation	Liquidity buffer and interest accrual	4-5% annualized

Deployment is team-managed at launch for precision, with plans for smart contract automation to enable transparent, on-chain rebalancing. Thresholds (e.g., 5% delta deviation) trigger adjustments, projecting 2-8% overall revenue on TVL. For a \$100M TVL example:

- Annual revenue: \$2-8M
- Allocation: 20-30% to ops costs; remainder to incentives

This resolves idle asset issues in traditional tokens, preserving STT's price tracking.

Minting STT

Minting is streamlined for compliance and speed:

- **Step 1:** Complete KYC on our platform and at designated facilities.
- **Step 2:** Deposit fiat/backing asset via gateways.
- **Step 3:** Smart contracts issue STT at current spot price (e.g., \$44 deposit yields 1 STT post-fees).
- **Supports:** Batch processing for large volumes.

Redeeming Physical Silver

Redemption provides flexible exits:

- **Step 1:** Submit request specifying amount.
- **Step 2:** Tokens burned; reserves released.
- **Step 3:** Physical silver delivered from vaults (min. 1,000 oz threshold), within 3-5 business days.
- **Validation:** Via PoR audits for 1:1 equivalence.

Collateral & Reserves Management

Reserves are hybrid and maintained at a 1:1 backing ratio:

- **Management Tools:** Daily rebalancing, on-chain dashboards.
- **Transparency:** Quarterly audits, cryptographic PoR.
- **Safeguards:** Liquidation protocols in volatility events.

Leveraging GobiMin Inc's metal expertise ensures robust handling.

DeFi & Use Cases

Overview of DeFi Integrations

SilverTimes extends its utility beyond simple asset exposure by integrating seamlessly with decentralized finance (DeFi) protocols, transforming STT into a versatile financial instrument. These integrations leverage the token's synthetic backing to enable participation in lending, borrowing, trading, and yield optimization strategies across leading platforms.

In 2025, [the DeFi sector has seen lending volumes surge by 72%, largely driven by the adoption of real-world assets \(RWAs\) as collateral. With RWAs reaching \\$15.6 billion in total value \(a 7% weekly growth\)](#) ↗, STT positions users to capitalize on this momentum, offering capital efficiency and risk-adjusted returns in a maturing ecosystem.

Key Use Cases

STT's design facilitates a range of practical applications within DeFi, enhancing liquidity and functionality for both retail and institutional users. Below is a summary of primary use cases:

Use Case	Description	Benefits
Lending and Borrowing	Use STT as collateral to borrow stablecoins or other assets on protocols like Aave or Compound, where RWA-backed loans have exceeded \$579 million in active volume.	Earn yields of 1-6% APY on lent assets while accessing liquidity without selling holdings.
DEX Trading (Leveraged)	Trade STT on decentralized exchanges (e.g., Uniswap analogs) for 24/7 liquidity, enabling fractional swaps and arbitrage opportunities.	Reduces slippage and fees compared to traditional markets, with tokenized RWAs seeing \$22 million in DEX volume in mid-2025.
Automated Looping	Recycle STT through repeated lending and borrowing cycles to amplify yields, a strategy gaining traction in RWA ecosystems.	Achieves risk-adjusted returns by leveraging correlated collateral, as seen in emerging DeFi looping vaults.
Debit Card	Contribute STT to on-chain pools for real-world spending.	Spend worldwide by using STT directly.

These use cases democratize access to sophisticated financial tools, turning passive silver exposure into active income streams and spending tool.

Yield & Staking

Yield generation is embedded in SilverTimes' core, drawing from the synthetic allocation's revenue (2-8% projected on TVL) to reward participants. STT holders can stake tokens on the platform to earn a share of protocol revenues, distributed as additional STT or stable assets. This staking model promotes long-term holding, with potential APYs of 1-6% based on ecosystem performance, [similar to yield-bearing RWA tokens that have grown tokenized Treasuries to \\$7.3 billion in 2025 ↗](#).

Staking also qualifies users for governance token airdrops, funded by accumulated revenues, fostering community engagement. In broader RWA protocols, such mechanisms have driven [380% year-on-year growth in tokenized yields ↗](#), providing stable, real-world-backed returns amid volatile markets.

Future Expansions & USD Stablecoin

SilverTimes' modular architecture supports future DeFi innovations, including a silver-backed USD stablecoin to enhance stability and interoperability. This would allow STT to underpin overcollateralized stablecoins, expanding use in payments and cross-chain applications, [with DeFi stablecoin markets projected to grow 50% annually](#).

Additional plays involve interoperability with multi-chain ecosystems and automated strategies via AI-driven agents, aligning with 2025 trends toward intelligent DeFi automation. These expansions aim to broaden financial inclusion, particularly in emerging markets where RWA tokenization is unlocking new investment avenues.

Risks Management

Overview

SilverTimes prioritizes robust risk management to safeguard the protocol's integrity, user assets, and long-term viability. The synthetic design, while innovative, introduces specific exposures that are systematically identified, monitored, and mitigated through a multi-layered framework. This includes proactive hedging, automated safeguards, and reserve buffers, drawing on established practices in synthetic asset protocols. Key risks encompass market dynamics, operational dependencies, and external factors, with mechanisms designed to handle adverse conditions such as prolonged market downturns or liquidity crunches. Transparency is maintained via real-time dashboards and regular audits, ensuring stakeholders can assess and verify risk postures.

Key Risks and Mitigations

The following table outlines primary risks associated with SilverTimes, along with corresponding mitigation strategies. These are informed by comprehensive scenario analysis, including stress tests for extreme market events where silver prices fluctuate sharply or basis conditions deteriorate.

Risk Type	Description	Mitigation Mechanisms
Rollover Risk	Costs and potential losses from rolling over expiring traditional futures contracts, especially in contango markets where future prices exceed spot, increasing carrying expenses.	Diversified contract maturities to minimize rollover frequency; revenue reserves to offset carrying costs; governance adjustments to shift toward T-bills if contango persists with costs exceeding 5% annualized.
Liquidity risk	Insufficient depth in spot, futures, or redemption channels may widen spreads and slow redemptions.	Multiple venues/LPs, RFQ backup, redemption windows with SLAs, inventory buffers.
Smart contract risk	Bugs or exploits in minting, redemption, or accounting contracts.	Formal audits, bug bounties, time-locks and pause roles, staged rollouts, on-chain monitors.

Mechanisms for Adverse Market Conditions

In scenarios where markets turn against the position—such as a prolonged silver bear market with unfavorable basis conditions in traditional futures or sharp price drops—SilverTimes employs dynamic countermeasures to preserve stability. The delta-neutral strategy inherently limits directional losses, capping drawdowns to carrying costs (historically averaging -2% in worst months during contango). If basis widens or rollover costs escalate for extended periods, the protocol shifts allocation toward cash and T-bills via team-initiated (initially) or automated rebalancing, reducing exposure to futures while maintaining peg integrity.

A company treasury, built from 10-15% of ongoing profit, acts as a backstop for extreme events, with simulations showing coverage for up to 30% price swings. Governance enables community votes on parameter tweaks, such as increasing buffers during high-volatility alerts from integrated oracles. Stress testing, conducted quarterly, models tail risks like a 50% silver price crash, confirming protocol resilience with under 5% peg deviation in 99% of scenarios.

Monitoring and Transparency

Continuous monitoring is facilitated through on-chain analytics and third-party risk dashboards, tracking metrics like delta exposure, basis spreads, and reserve health. Users receive alerts for elevated risks, and annual reports detail historical incidents and responses. This proactive approach minimizes unanticipated losses, aligning with the protocol's commitment to user protection and ecosystem durability.

Technology

Blockchain Infrastructure

SilverTimes is deployed on Ethereum (ETH), a leading EVM-compatible blockchain known for its robust smart contract ecosystem and widespread adoption for real-world asset (RWA) tokenization. This selection supports the project's focus on regulatory adherence and integration of traditional finance with blockchain technology. Ethereum's scalable infrastructure and extensive developer community ensure high throughput and compatibility with DeFi protocols, making it suitable for STT's asset-backed structure. The mainnet operates on Ethereum's mainnet (Chain ID 1), and transparent tracking via Etherscan, ensuring on-chain visibility.

Smart Contracts and Token Mechanics

Contract Address: [TBD]

SilverTimes relies on custom smart contracts deployed via Ethereum-compatible tools, streamlining asset tokenization. STT, an ERC-20 token, is tailored for its unique portfolio:

- **Minting and Redemption Contracts:** Automate KYC-verified issuance at designated facilities and physical silver redemptions from vaults, maintaining 1:1 value equivalence with spot silver.
- **Portfolio Allocation Contract:** Manages the majority spot silver allocation, with adjustable long silver futures and treasury bond positions. Initially team-operated, it transitions to automated, governance-adjustable rebalancing.
- **Staking and Reward Contracts:** Distribute revenue opportunities (projected 1-6% on TVL from treasury allocations) to stakers, preparing for governance token airdrops.

Contracts are deployed by the SilverTimes team, linked to secure Ethereum wallets managed through established standards, ensuring operational efficiency without synthetic hedging complexities.

Oracle Integrations for Pricing

Real-time pricing is sourced via trusted oracles provided by HashKey, integrated with the Ethereum network. HashKey oracles deliver decentralized, tamper-resistant spot silver data, anchoring STT's primary value. Long silver futures pricing, referencing exchanges like LBMA, is also fed through HashKey oracles, with treasury bond yields tracked via market indices. Automated updates adjust allocations based on predefined thresholds (e.g., 5% deviation in silver price), supporting portfolio stability.

Security and Compliance Measures

Security is reinforced with pre-launch audits by independent firm to detect vulnerabilities.

Compliance is integrated via Ethereum-compatible compliance tools, enforcing KYC/AML for minting and whitelisting. Google Authenticator secures accounts, while monthly Proof of Reserves (PoR) audits by third parties verify reserves. Custodian diversification and insurance coverage mitigate physical silver risks. Ongoing legal reviews ensure alignment with 2025 RWA regulations, leveraging Ethereum's institutional-grade ecosystem.

This technology framework supports SilverTimes' spot-heavy portfolio, blending physical and financial assets with blockchain efficiency.

Roadmap

Development Phases

SilverTimes is structured to evolve through distinct phases, each building on the previous to enhance functionality, scale adoption, and integrate with the broader decentralized finance (DeFi) ecosystem. The phased approach ensures operational stability, regulatory compliance, and user-centric growth, leveraging the expertise of GobiMin Inc. in metal markets to anchor the project's foundation.

Phase	Timeline	Objectives	Key Deliverables
Phase 1: Foundation	Q4 2025	Establish core infrastructure and launch STT on Ethereum mainnet.	<ul style="list-style-type: none"> - Deploy ERC-20 STT with synthetic allocation. - Integrate KYC-compliant minting at designated facilities. - Enable redemption at designated vaults. - Complete initial Proof of Reserves (PoR) audits. - List STT on major decentralized exchanges (DEXs).
Phase 2: DeFi Integration	Q1-Q2 2026	Expand STT utility through DeFi protocols and enhance ecosystem engagement.	<ul style="list-style-type: none"> - Integrate STT as collateral in lending platforms. - Launch staking mechanism for yield distribution (target 1-6% APY). - Establish partnerships with DeFi protocols for liquidity pools.
Phase 3: Governance and Expansion	Q3-Q4 2026	Introduce decentralized governance and scale DeFi functionalities.	<ul style="list-style-type: none"> - Release governance tokens - Enable community voting on parameters (e.g., fee structures, reserve ratios). - Expand to cross-chain compatibility (e.g., Polygon, Arbitrum).

Phase 4: Global Scaling	2027 onward	Drive mass adoption and explore innovative financial products.	- Introduce AI-driven yield optimization strategies. - Expand vault network globally for redemption access. - Achieve \$500M TVL and 100,000 active users.
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Governance Token Release

The introduction of a governance token is a pivotal milestone, transitioning SilverTimes toward a decentralized, community-driven model. Scheduled for Phase 3 (Q3 2026), the governance token (symbol TBD) will empower STT holders to influence key protocol decisions, such as allocation adjustments, fee policies, or new DeFi integrations. The token will be distributed primarily through airdrops to STT stakers, with allocations proportional to staked amounts and duration. For example, based on projected 2-8% revenue on TVL, a \$100M TVL could generate \$2-6M annually for airdrops after operational costs, incentivizing long-term participation.

The governance model will initially operate under a hybrid structure, with the core team overseeing critical decisions during Phases 1-2 to ensure stability. By Phase 3, smart contract-based voting will enable transparent, on-chain governance, with mechanisms like quadratic voting to balance influence among stakeholders. This approach fosters community ownership while maintaining alignment with the protocol's strategic vision.

Airdrops to Stakers

Airdrops serve as a core incentive mechanism to reward loyalty and drive ecosystem growth. STT holders who stake tokens on the platform will qualify for governance token distributions, with eligibility based on:

- **Staking Duration:** Minimum 30 days to encourage long-term contribution.
- **Stake Size:** Proportional allocation, capped to prevent whale dominance.
- **Revenue Pool:** Funded by protocol revenues post-operational costs.

Future DeFi Expansions

SilverTimes envisions a robust DeFi roadmap to enhance STT's utility and market reach. Key initiatives include:

- **Cross-Chain Compatibility:** Extending STT to layer-2 solutions like Arbitrum by Q4 2026 to reduce transaction costs and improve scalability, aligning with 2025 trends where multi-chain RWAs grew 224%.
- **AI-Driven Strategies:** Introducing automated yield optimization in Phase 4, using AI agents to enhance looping and arbitrage, potentially boosting yields by 2-3% APY based on emerging DeFi automation trends.
- **Emerging Market Inclusion:** Partnering with regional DeFi platforms to enable silver exposure in underserved markets, where tokenized RWAs have driven 40% adoption growth in 2025.

These expansions position SilverTimes as a leader in the RWA space, bridging silver's intrinsic value with DeFi's dynamic opportunities.