

ARCH Equity Token Whitepaper

Archimedes Principal Fund - Solana-Based Equity Token

Version 1.0 | March 2026

Executive Summary

Archimedes Principal Fund launches ARCH, a Solana-based equity token representing fractional ownership in a diversified portfolio of premium maritime assets, luxury hotels, resorts, and mega yacht financing operations across the Middle East, North Africa, and Mediterranean regions.

Each ARCH token is backed by a reserve of LXUSD stablecoins and represents proportional ownership rights in the fund's real-world asset holdings. The token enables institutional and accredited investors to gain exposure to high-yield maritime and hospitality investments with blockchain transparency and programmable vesting schedules.

Key Metrics:

- **Token Name:** Archimedes Fund Token
 - **Symbol:** ARCH
 - **Blockchain:** Solana (SPL Standard)
 - **Total Supply:** 100,000,000 ARCH
 - **Launch Price:** \$1.00 USD
 - **Target Raise:** \$25,000,000
 - **Backing Asset:** LXUSD Stablecoins (1:1 reserve ratio)
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1. Project Overview

1.1 Mission

Democratize access to institutional-grade maritime and hospitality investments through blockchain-based tokenization, enabling accredited investors worldwide to participate in premium asset classes traditionally reserved for ultra-high-net-worth individuals.

1.2 Fund Background

Archimedes Principal Fund, established in Abu Dhabi, has built a \$500M+ portfolio of maritime assets, floating resorts, and hospitality properties over 15+ years. The fund operates across six key markets:

- **Abu Dhabi, UAE** (Headquarters)
- **Monaco** (European Operations)
- **Palm Beach, Florida** (Americas Hub)
- **Saudi Arabia** (Regional Expansion)
- **Egypt** (Nile Valley Hospitality)
- **Morocco & Tunisia** (North Africa)
- **Marbella, Spain** (Mediterranean Flagship)

1.3 Asset Classes

Maritime Assets (40%)

- Luxury mega yachts and charter vessels
- Commercial shipping and container operations
- Floating resort platforms
- Specialized maritime infrastructure

Hotels & Resorts (35%)

- Oceanside luxury properties with marina access

- Full-service water sports facilities
- Championship golf courses
- Equestrian and tennis facilities

Vessel Management (15%)

- Fleet operations and crew management
- Technical services and maintenance
- Insurance and compliance
- Operational excellence programs

Treasury & Reserves (10%)

- Liquidity reserves
 - Insurance pools
 - Regulatory compliance funds
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2. Tokenomics & Allocation

2.1 Token Distribution

Category	Allocation	Tokens	Purpose
Maritime Asset Acquisition	35%	35,000,000	Vessel purchases, floating hotels, mega yacht financing
Hotel & Resort Investments	25%	25,000,000	Oceanside properties across MENA and Mediterranean
Vessel Operations & Management	15%	15,000,000	Fleet operations, crew management, technical services
Treasury & Reserves	10%	10,000,000	Insurance, compliance, operational reserves
Team & Advisors	10%	10,000,000	Founder allocation with 24-month vesting
Liquidity & Market Making	5%	5,000,000	DEX liquidity pools and market stability

2.2 Vesting Schedules

Seed Round (\$0.50, 10M ARCH)

- Cliff: 12 months
- Linear vesting: 24 months total
- Unlock: 5M tokens at month 12, then 416,667/month

Private Sale (\$0.75, 15M ARCH)

- Cliff: 6 months
- Linear vesting: 18 months total
- Unlock: 7.5M tokens at month 6, then 833,333/month

Public Sale (\$1.00, 25M ARCH)

- No lock period
- Immediate liquidity
- Full trading rights from purchase

Team & Advisors (10M ARCH)

- Cliff: 12 months
- Linear vesting: 36 months total
- Unlock: 3.33M at month 12, then 277,778/month

2.3 Use of Funds

Use	Percentage	Amount
Maritime Asset Acquisition	35%	\$8,750,000
Hotel & Resort Investments	25%	\$6,250,000
Operations & Management	15%	\$3,750,000
Treasury & Reserves	10%	\$2,500,000
Marketing & Business Development	10%	\$2,500,000
Legal, Compliance & Regulatory	5%	\$1,250,000

3. Technology & Blockchain

3.1 Solana Blockchain

ARCH is deployed as a Solana Program Library (SPL) token, leveraging Solana's high-speed, low-cost infrastructure:

- **Network:** Solana Mainnet
- **Standard:** SPL Token Standard
- **Transaction Speed:** 400ms block time
- **Average Fees:** <\$0.001 per transaction

- **Finality:** Proof of History (PoH) consensus

3.2 Smart Contract Architecture

Token Contract

- Mint authority: Multisig governance (3-of-5 required)
- Freeze authority: Compliance team (for regulatory holds)
- Metadata: Immutable token information
- Supply cap: 100,000,000 ARCH (hard-capped)

Vesting Contracts

- Automated cliff and linear vesting
- Time-locked release schedules
- Transparent on-chain tracking
- No manual intervention required

Reserve Management

- LXUSD backing held in cold storage
- Quarterly attestation reports
- On-chain reserve verification
- Real-time backing ratio monitoring

3.3 Wallet Integration

Supported wallets:

- **Phantom** (Primary)
 - **Solflare** (Secondary)
 - **Magic Eden** (Trading)
 - **Ledger** (Hardware security)
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4. Fundraising & Investment Phases

4.1 Three-Phase Sale Structure

Phase 1: Seed Round

- Price: \$0.50 per ARCH
- Allocation: 10,000,000 ARCH
- Target: \$5,000,000
- Timeline: Q1 2026
- Vesting: 12-month cliff, 24-month linear

Phase 2: Private Sale

- Price: \$0.75 per ARCH
- Allocation: 15,000,000 ARCH
- Target: \$11,250,000
- Timeline: Q2 2026
- Vesting: 6-month cliff, 18-month linear

Phase 3: Public Sale

- Price: \$1.00 per ARCH
- Allocation: 25,000,000 ARCH
- Target: \$25,000,000
- Timeline: Q3 2026
- Vesting: Immediate liquidity

4.2 Minimum Investment

- **Seed Round:** \$100,000 minimum
- **Private Sale:** \$50,000 minimum
- **Public Sale:** \$1,000 minimum

4.3 Accredited Investor Requirements

This offering is restricted to accredited investors as defined by SEC Regulation D:

- **Income Test:** Individual income >200K (*or joint* >300K) in past 2 years
 - **Net Worth Test:** Net worth >\$1M (excluding primary residence)
 - **Professional Certification:** CFA, CFP, or equivalent credentials
 - **Institutional:** Registered investment companies, banks, insurance companies
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5. Roadmap

Q1 2026: Token Launch

- SPL token deployment on Solana Mainnet
- Wallet integration (Phantom, Solflare)
- KYC/AML verification system
- Seed round opens
- Whitepaper publication

Q2 2026: Platform Build

- Investor dashboard launch
- Real-time portfolio tracking
- Private sale begins
- First maritime asset tokenization
- Governance voting system

Q3 2026: Asset Onboarding

- Hotel & resort portfolio tokenization
- Staking rewards activation
- Governance voting live

- Public sale launch
- Secondary market listings (Magic Eden, Orca)

Q4 2026: Expansion

- Cross-chain bridge (Ethereum, Polygon)
 - Institutional custody integration
 - Advanced analytics dashboard
 - Quarterly reporting automation
 - Investor relations portal
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6. Governance & Management

6.1 Fund Management

Investment Committee

- 5 experienced maritime and hospitality professionals
- Quarterly asset review meetings
- Transparent decision-making process
- Annual performance reporting

Compliance Team

- SEC and regulatory affairs specialists
- Ongoing KYC/AML monitoring
- Quarterly attestation reports
- Investor communication

6.2 Token Governance

Holders of ARCH tokens will have voting rights on:

- New asset acquisitions

- Fund strategy adjustments
- Fee structures
- Distribution policies
- Emergency procedures

Governance voting launches in Q2 2026.

7. Risk Factors

7.1 Market Risks

Asset Volatility: Maritime and hospitality assets subject to market cycles, economic downturns, and operational challenges.

Liquidity Risk: Real-world assets less liquid than public securities; redemption may require 30-90 days.

Interest Rate Risk: Rising rates may impact resort valuations and financing costs.

7.2 Operational Risks

Vessel Risks: Accidents, environmental damage, crew issues, regulatory changes.

Hospitality Risks: Occupancy fluctuations, seasonal variations, management challenges.

Geographic Risks: Political instability in MENA region, regulatory changes, currency fluctuations.

7.3 Regulatory Risks

Securities Regulation: Token may be deemed a security; regulatory changes could impact trading.

Blockchain Risks: Solana network outages, smart contract vulnerabilities, wallet security issues.

Compliance Risks: KYC/AML failures, investor verification issues, reporting requirements.

7.4 Technology Risks

Smart Contract Risk: Potential bugs or vulnerabilities in vesting and reserve contracts.

Wallet Risk: User error, lost private keys, exchange hacks.

Network Risk: Solana network congestion, transaction failures, bridge security.

8. Legal & Compliance

8.1 Securities Exemption

This offering relies on **Regulation D, Rule 506©** exemption:

- Available only to accredited investors
- No general solicitation permitted
- Verification of accredited status required
- Restricted securities (Rule 144 applies)

8.2 Investor Restrictions

- **Geographic:** Available to accredited investors in eligible jurisdictions
- **Holding Period:** No lock-up for public sale; vesting for seed/private rounds
- **Transfer:** Secondary transfers restricted to accredited investors
- **Redemption:** Quarterly redemption windows (30-day notice required)

8.3 Reporting & Disclosures

- **Quarterly Reports:** Unaudited financial statements and asset updates
- **Annual Audit:** Independent audit by Big 4 accounting firm
- **Whitepaper Updates:** Material changes disclosed within 10 days

- **Investor Portal:** Real-time NAV and performance tracking
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9. Important Legal Notices

INVESTMENT RISKS

Digital securities and tokenized assets involve substantial risk of loss. Past performance is not indicative of future results. Investors may lose their entire investment.

SECURITIES DISCLAIMER

These securities have not been registered with the Securities and Exchange Commission (SEC) or any state securities authority. This offering relies on the exemption from registration provided by Regulation D, Rule 506©.

ACCREDITED INVESTOR REQUIREMENT

This offering is available only to accredited investors as defined under Rule 501(a) of Regulation D. Verification of accredited investor status is required prior to participation.

NO GUARANTEE

There is no guarantee of returns, liquidity, or asset preservation. The fund's performance depends on market conditions, management decisions, and operational execution.

JURISDICTION

This offering is made only to persons in jurisdictions where such offering is permitted. Investors are responsible for understanding and complying with all applicable laws.

10. Conclusion

ARCH represents a unique opportunity to gain institutional-grade exposure to premium maritime and hospitality assets through blockchain-based tokenization. By combining real-world asset backing (LXUSD reserves), transparent governance, and Solana's efficient infrastructure, ARCH enables accredited investors to participate in a diversified portfolio of high-yield investments.

For more information, visit archimedesfund.ae or contact the investor relations team.

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Next Review: June 2026

This whitepaper is subject to change. Investors should review the most current version before making investment decisions.