

WHITEPAPER

# AQUARIUS LOAN

The official Cryptocurrencies Money  
Markets Platform



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# Introduction

## Abstract and Aims

The following paper presents Aquarius, a decentralized lending and borrowing platform.

This paper will cover the relevant contract characteristics and protocols that usher a robust decentralized finance based lending system onto Arbitrum One and Core DAO blockchains.

Through Aquarius, users have the opportunity to deploy their cryptocurrencies in supplying the token \$ARS to the network and in turn earn passive income, meaning both collateral and liquidity are supplied.

The utilization of \$ARS tokens mean that the community will be opened up to a broad range of opportunities such that:

- ◆ Through the construction of a stable and secure lending platform, lenders will be offered the chance to receive a compound interest rate which is paid per block. The fee paid by the borrower on the interest of cryptocurrency borrowed will supplement this.
- ◆ The notion of decentralization is taken seriously, meaning the governance of specific protocol features will aim to give rise to community ownership. In community and versatility there is opportunity and innovation, Aquarius will underline this.

Aquarius is very much focused on the notion of community, understanding it as the clear pathway to success and innovation. With that, the community does of course enjoy a direct and participatory role in the sense that votes cast by them directly impact governance decisions.

# Regarding Aquarius

A range of cryptocurrencies and stablecoins will be available to borrow alongside collateralized lending through the Arbitrum One and Core DAO blockchains. Users who supply and borrow cryptocurrencies/stablecoins will be able to earn impressive APY as a reward for the liquidity provided to the protocol.

Early liquidity providers will even enjoy specially high APY with the \$ARS, in accordance with the structure set out in the following pages.

Users will also have the opportunity to borrow straightforward stablecoins from the supplied collateral.

Smart contracts will dictate and control liquidity, meaning stakeholders will only have control over their own funds.

Industry approved security audits are also scheduled as soon as possible, so as to ensure investors with stability and security.

The native token will act as a means for the community to contribute toward decisions made for the future development of Aquarius.

1,000,000,000 is the total limited supply that will be gradually released alongside Aquarius's anticipated growth. An initial distribution of 30,000,000 Aquarius Governance tokens will be kept aside for the launch, which will suffice for the early stage of Aquarius's development.

# Aquarius's Model & Issues to Address

## Issues Aquarius is looking to address

- ◆ Blockchain in decentralized finance has effectively been over-saturated, meaning that while there is an abundance of diversity, users are often unclear in regards to navigating these new possibilities.
- ◆ Mass adoption requires user conscious DeFi.
- ◆ Bridging the gap between traditional financial lending systems and DeFi has its own issues. In traditional systems borrowers are required to provide specific financial details and even credit before being considered, Aquarius aims to remedy this in DeFi through allowing the pledging of digital assets and cryptocurrencies which can be used as collateral while indeed earning interest.
- ◆ The process is therefore incentivized.

## Aquarius' Dynamic Model

DeFi's admirable efforts in constructing a borderless financial system have come a long way in addressing problematic aspects of traditional financial systems.

Aquarius aims to provide the next step in this journey through modifying the existing DeFi model. There is a thorough understanding at Aquarius of the importance of supporting liquidity that is provided by prospective users.

Even more so, there is an impetus on attracting prospective users through unshackling them from aspects of centralization. Users will be allowed to borrow funding without the stringent consequences of a centralized.

# Aquarius Tokenomics

## Governance supply

30,000,000 \$ARS from the Governance Pool will be released as governance progresses and constructs its proposal. 10,000,000 will be for proposal and the team will be using 30,000,000 to cast relevant votes for transparent decisions taken. As adequate progress is made and there are enough tokens in circulation, the team will then cease casting votes for proposals and the protocol will be under control of the wider community. The 30,000,000 tokens will then be redirected to the mining reward pool.

## Lending Borrow Distribution Rewards

Only lending borrowers can receive distribution Rewards \$ARS and every market will have different distribution APY based on assets total marketcap and 24 hours trading volume.

## Token Contract

**Chain:** Arbitrum One, Core DAO Mainnet

**Name:** Aquarius Loan

**Symbol:** ARS

**Chain ID:** 42161, 1116

**Decimal:** 18

**Total Supply:** 1,000,000,000

**Token type:**

# Aquarius Supply & Distribution Overview

## Distribution Overview

**Governance Mining (Core):** 80,000,000 \$ARS (5 years vesting)

**Governance Mining (Arbitrum):** 320,000,000 \$ARS (5 years vesting)

**Governance Supply (Core):** 15,000,000 \$ARS (5 years vesting)

**Governance Supply (Arbitrum):** 15,000,000 \$ARS (5 years vesting)

**Farm Mining (Core):** 34,000,000 \$ARS (5 years vesting)

**Farm Mining (Arbitrum):** 136,000,000 \$ARS (5 years vesting)

**Reserve (Core):** 60,000,000 \$ARS (Release on day 1)

**Reserve (Arbitrum):** 70,000,000 \$ARS (Release on launch day)

**Team Allocation:** 200,000,000 \$ARS (2 years vesting)

**Core DAO Allocation:** 30,000,000 \$ARS (Release on day 1, Locked for 12 months)

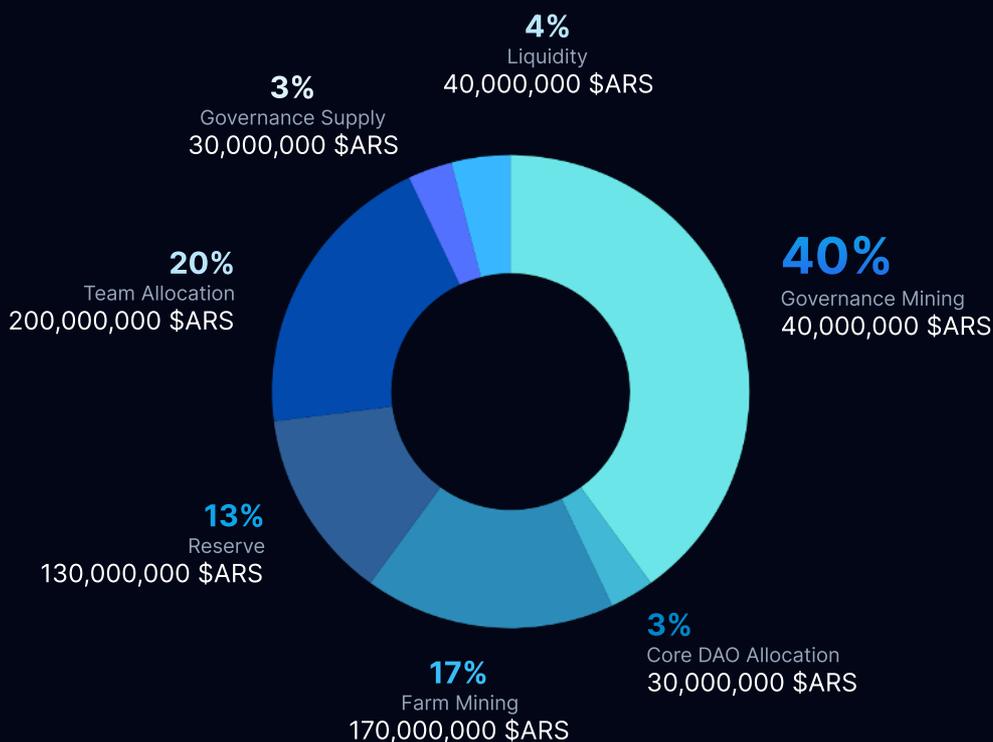
**Liquidity (Core):** 20,000,000 \$ARS (Release on day 1)

**Liquidity (Arbitrum):** 20,000,000 \$ARS (Release on launch day)

**Initial Public Price:** \$0.005 per \$ARS

**Total Supply:** 1,000,000,000 \$ARS

**Fully Diluted Valuation:** \$5,000,000 USD



# Aquarius Loan Lending

## aTokens

The pegged tokens constructed by the protocol upon the supply of collateral are referred to as aTokens. aTokens are only used and created upon the designation of the community through votes cast during the Governance processes by Aquarius token holders. They play a pivotal role in Aquarius Loan's ecosystem.

## How Asset Supply Functions on Aquarius

Users supply cryptocurrencies as collateral for loans, provide liquidity, and generate APY. Users can act as lenders on Aquarius Loan while preserving collateral. Interest earned depends on the yield curve utilization of the relevant market. Assets supplied by users into smart contracts ensure flexible withdrawals, subject to a positive protocol balance.

## How Borrowing Functions on Aquarius

Users pledge a certain amount of aTokens or collateral to access and borrow cryptocurrencies on Aquarius Loan. Borrowers can access up to 80% of the collateral value. If collateral value falls below the required ratio, liquidation may occur. A compound interest rate applies per second with no regular payment obligations.

## Market Flux

Every transaction recalibrates the Interest Rate Index based on prior indices, interest periods, and a per-block interest rate. The total borrowing outstanding reflects accrued interest, with a portion reserved based on a reserve Factor.

# LP Staking

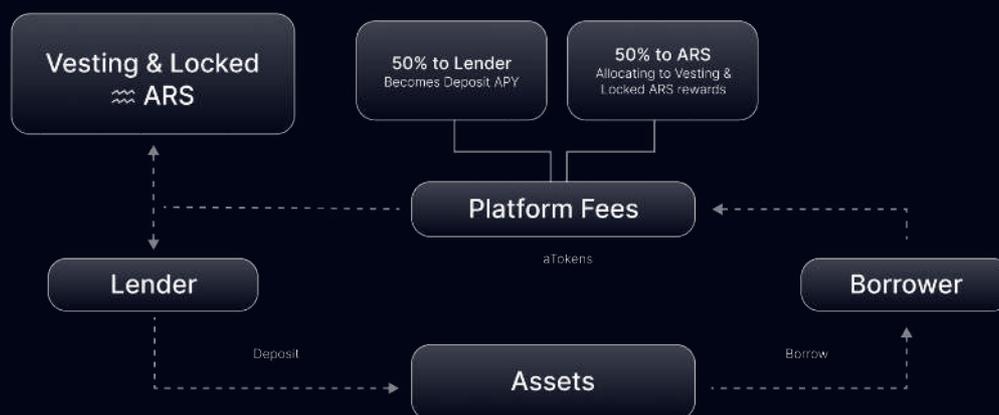
In exchange for users enhancing the utility of Aquarius Loan by staking Liquidity tokens, there are two primary rewards:

- ◆ Activate \$ARS emissions on deposits & borrows
- ◆ Share in platform fees comprised of assets such as USDT, USDC and WETH

## LP Utility

Users that simply deposit but don't add value to the protocol will continue to earn market rates, but will not be eligible for \$ARS emissions.

Users must stake at least 5% of your deposit's USD value in LP tokens to trigger ARS emissions on both deposits and borrows.



The requirement to lock liquidity tokens in LP form serves the AquariusLoan money market in multiple ways:

- ◆ Long-Term Participation : Locking LP tokens effectively commits users to a set period, increasing the likelihood that they'll maintain their deposited collateral.
- ◆ ARS Emissions Activation : This commitment enables ARS emissions, rewarding those who are invested in the protocol's long-term vision.
- ◆ Attracting New Users : The above dynamics make the AquariusLoan money market more appealing to potential liquidity providers, thereby stimulating both growth and development.

# Aquarius Loan Architecture

## Token Accessibility

Aquarius Loan will enable users to open an account via Arbitrum and Core Supported Wallets such as Metamask, Wallet Connect wallets and more. This will enable a broad range of users to join who are already knowledgeable regarding wallet functions. As mass growth ensues this will enable the application to join hugely popular exchanges and gain our own listings.

## User Caution Regarding Liquidations

Users will be tasked with keeping a close eye on collateral assets, so that they do not fall victim to liquidations that can ensue from volatile market movement. The aforementioned liquidations are accompanied by a fee to satisfy the outstanding debt. Whatever remains on the balance will be rightfully returned to the relevant user.

## Token Reserves

A reserve factor of 10% has been underlined for stable collateral while non-stable collateral will see a reserve factor of 20%. The reserve factors are intended to be taken from the spreads of the lending platform and the idea is to utilize them for development, security and stability. The Governance process that the entirety of the community shall be a part of will be in control of the aforementioned reserve factors and may decide to use them for things such as rewards.

## How Interest Rates Function

Interest rates designated according to markets from both supply and borrowing on the platform will be adopted by Aquarius. A yield curve, which varies based on asset liquidity will help determine interest rates for relevant markets.

# Aquarius Loan Architecture

## Liquidity Incentive Structure

While liquidity cannot be guaranteed, its incentivization will certainly be engineered through interest rates by Aquarius. Protocol liquidity will decline in accordance with spells of intense interest in an asset. As this takes place, interest rates will begin to soar and in turn encourage supply.

## Price Feeds

A designated price oracle keeps on top of the current exchange rate regarding relevant assets; where applicable Aquarius affords the responsibility of setting asset value to a committee that pools prices from Chainlink. Transparency and fairness regarding asset value is optimum for Aquarius Loan, especially since they determine borrowing capacity and collateral necessities, which in turn determine the value of an account.

## Aquarius's Governance Process

Participation is encouraged and indeed a key aspect of Aquarius Loan's governance process. aToken holders have the opportunity to take part in the poll section which allows them to decide on what they wish to vote on. Proposal thresholds are currently set at 10,000,000 \$ARS and Quorum votes at 20,000,000 \$ARS respectively.

Below are the relevant opportunities offered to prospective users:

- ◆ Opportunity to list a new aToken market
- ◆ Opportunity to alter interest rate models per market
- ◆ Opportunity to alter oracle address
- ◆ Opportunity to withdraw the reserve of an aToken

# Roadmap

- ✔ Whitepaper and the Landing Page Production

- ✔ Auction Contract launch on Core DAO Chain testnet
- ✔ Aquarius Lending Launch on Core DAO Chain testnet
- ✔ Security Audit for Lending contract

- ✔ Deploy Aquarius Loan on Core Mainnet
- ✔ Launch \$ARS Reward Vesting
- ✔ Launch Referral Reward System
- ✔ Launch Zapping LP
- ✔ Launch LP Staking
- ✔ Listing \$ARS in Sushiswap and IcreamSwap

- ✔ Listing \$ARS on Coin market cap
- ✔ Listing \$ARS on CoinGecko
- ✔ Marketing on various crypto media outlet like BSC News, The Block

- ✔ Expand Aquarius Loan onto Arbitrum One
- ✔ Launch \$ARS Bridge based on LayerZero
- ✔ ChainLink Price feed Integration
- ✔ Listing \$ARS in Balancer.fi
- ✔ Listing \$ARS on BitMart

# Roadmap

- ✔ Launch Contribution Score
- ✔ Upgrade Aquarius Loan User Interface

# Upcoming

- ◆ Launch Portfolio & Email Subscription
- ◆ Launch Aquarius Loan Bug Bounty
- ◆ Listing \$ARS onto tier 1 Centralized Exchanges
- ◆ Launch Max Borrowing (Loop)
- ◆ Launch Credit Score
- ◆ AI powered Automatic Collateral Management
- ◆ Launch Cross Chain Borrowing

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