

Agile Finance

Lending & Decentralized Swap Finance

V1.1

October 10th, 2021

Introduction

This technical whitepaper discusses the choices underlying Agile Finance, as well as the contract features and protocols that bring a comprehensive decentralized-finance-based lending system to the Cronos Chain (CC).

Money Markets is a one-stop-shop DeFi platform for lenders and borrowers that also includes AMM and NFT Marketplace. Agile Finance is Money Markets. By utilizing AGL tokens, the community is able to:

- (1) create a secure lending platform where lenders receive a compounded interest rate paid per block while borrowers pay interest on the cryptocurrency borrowed;
- (2) provide liquidity, which contributes to the ecosystem's continuation and sustainability;
- (3) govern select protocol features that support flexibility and community ownership; and
- (4) enable the purchase and auction of NFT collectibles.

Unlike conventional finance systems, Agile Finance has an integrated DEX that allows members of the community to trade tokens via a community-centric Defi platform. By retaining the platform's governance via voting, the community improves it.

Problems

The blockchain is decentralized Finance has resulted in a tremendous amount of variation in the crypto-financial sphere. For new users, this might be incredibly intimidating. The Defi space must be new-user pleasant and secure throughout the network for the paradigm to be widely adopted. A borrower must offer credit or verifiable income to a lender in conventional financial lending systems before funds are considered. Agile Finance promises to alleviate this friction in the conventional lending system by allowing digital assets and cryptocurrencies to be pledged as collateral and earn interest.

Model and Solution

Defi is a borderless financial system that seeks to eliminate inefficiencies in the global financial system. In order to keep the network safe, Agile Finance has updated the Defi paradigm to enable user-supplied liquidity. The native token will be more reliable and safer as more users and liquidity providers join in. When a user provides liquidity to a pool, they become a liquidity provider (LP), and their token may be used for lending/borrowing on the blockchain or compounding to earn more interest. Due to the nature of this borderless system, it is a worldwide upgrade of Finance, enabling anybody to borrow funds, as opposed to the old system, which now excludes many nations and peoples. Furthermore, Agile Finance consumers would not have to be concerned about centralized institutions attempting to manipulate their money.

Agile Finance isn't the first decentralized financial platform to try to combine conventional lending with blockchain technology. Agile Finance benefits from the lessons learned from previous initiatives, resulting in a much better platform. Agile Finance will be the first to provide a DEX swap that allows users to produce LP and liquidity for themselves in order to earn high a

APY returns and enhances AGL price/volume while also enabling them to borrow and supply assets using smart contracts.

Agile Finance

Tokenomics by Agile Token (AGL)

AGL is an abbreviation for "Agile Finance Governance Token."

Agile Finance will be managed by the token (AGL), which will be mintable up to 700,000,000 tokens during the course of the loan platform's development and to provide liquidity to the DEX Swap.

Lenders and borrowers will get AGL tokens for utilizing the Lending Protocol, while liquidity providers will receive AGL tokens for providing liquidity to DEX Swap. The benefit of distributing AGL tokens will continue for six years.

Agile Finance will also place 50,000,000 AGL in a Cronos Chain token contract to reward holders of AGL tokens in personal wallets who have held them for more than 60 days, depending on epochs.

The token will be auctioned out through Agile Auction and DEX exchange, with a portion of the initial distribution supply going to project development. Early investors that use the system to lock in a profit at this time will be rewarded significantly with tokens via the bonus system. Agile Finance token holders may also use the token to vote in the governance mechanism.

To buy and sell NFT collectibles, the Agile NFT marketplace will employ AGL/CRO as the NFT currency.

AGL will also be used as an auction currency for establishing an auction pool and paying auction costs.

AGL Holdings (AGL) is a company that specializes in

The AGL holding rewards system is intended to distribute benefits to AGL holders inside the AGL contract automatically. AGL token contract was built by Agile Finance for AGL long-term holders to receive qualified benefits depending on their holding amount.

If AGL holders keep AGL for more than 60 epochs, they will automatically be added to the eligible list, and their reward will rise by 0.3 percent per epoch starting at 30 epochs. Every epoch is usually defined as one day.

The premium is derived by increasing the holding's value by the highest effective yearly interest rate.

Reward Amount = Eligible Epochs * 0.3 percent * Retention Amount

For example, Reward APR = $365 * 0.3 \text{ percent} = 109.5 \text{ percent}$ if the incumbents held 1,000,000 AGL for a year.

$1,000,000 \text{ AGL} * 109.5 \text{ percent} = 1.09,500 \text{ AGL Reward Amount}$

When users transfer AGL to a new address, they must be removed from the approved list in an extraordinary instance. The holders are removed from the eligible list, and their original rewards are instantly discarded when they transfer AGL to the other address.

Factors that encourage you to keep your CC:

- Each block has an epoch of 14,400 blocks (1 day)
- Periodic interest rate: 0.3 percent
- Number of times eligible: 60
- There is no minimum retention requirement.
- Delisting request: send AGL to any address. - The first prize pools are worth 50,000,000 AGL.

Team members from the Treasury and Development Department

140,000,000 AGL will be locked into the team and development treasury for community development, and 10,000,000 AGL will be released each month for Agile Protocol operation, marketing, and future development.

Token Contract:

Chain: Cronos Chain

Name Agile

Symbol: AGL

18 (decimal)

1,000,000,000 Total Supply

CRC20 Token type

Distribution:

100,000,000 AGL (Award period 9 months)

10,000,000 AGL for Public sale

300,000,000 AGL mining pool

400,000,000 AGL for Governance mining

Pool of CC Holding Rewards: 50,000,000 AGL

140,000,000 AGL for equipment and development

1,000,000,000 AGL Total supply

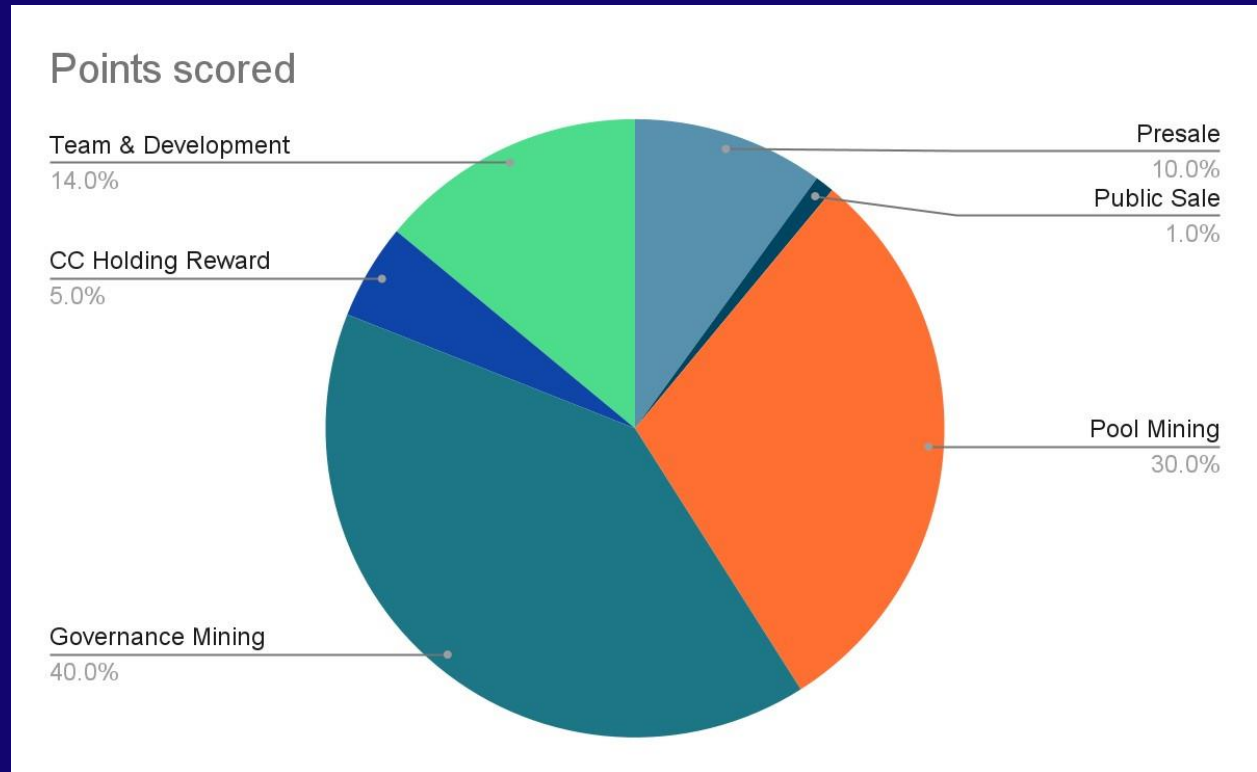
The first market capitalization was \$ 2.5 million.

Market capitalization diluted: \$ 50,000,000

1 AGL = \$ 0.03 (pre-sale price)

1 AGL = \$ 0.05 at the first public sale

\$ 0.5 (List price)



After the pre-sale ends, only 10% of the entire purchase price is released.

Pre-sale tokens may be claimed every three months for 30% of the entire purchase price for a period of nine months.

Agile Lending

Tokens are the connected assets generated by the registry by providing collateral.

Tokens are the smallest unit of collateral given and may be used as a form of payment.

Tokens are selected by agile token holders and produced and deployed via governance mechanisms.

Contract ABI	Description
mint (base value of quantity uint256)	Changes the token balance of msg— sender by transferring a base value to the market.
restore (amount uint256) redeem basic value (uint256 base amount value)	From msg.sender, transfer a market base value and update aToken balance.
borrow (amount)	msg. The sender's collateral value is checked, and if adequate, the underlying asset is transferred from the market to msg. Sender, and the credit balance of msg. The sender is updated.
Return Borrow (unit quantity) repay Borrow Behalf (account address, uint amount)	refreshes the borrower's credit limit by transferring the underlying asset to the market.
Liquidate (borrower's address, collateral address, uint close amount)	The underlying asset is transferred to the market, the borrower's loan balance is updated, and the borrower's token value is sent to msg. Sender.

Provided Assets

On the Agile Finance platform, users may deposit a variety of cryptocurrencies or comparable digital assets that can be used as collateral for loans, offer liquidity, and earn an annual percentage yield (APY). Providing assets to Agile Finance, such as cryptocurrency or digital assets, allows users to engage as lenders while retaining the security of collateral on file. Users are given a changeable interest rate that is based on how the market yield curve is used. All user assets are combined into smart contracts,

allowing users to cancel deliveries at any moment as long as the record balance is positive. Users that provide Agile Finance their cryptocurrency or digital asset will be given a token, such as BTC or aCRO, which is the sole way to redeem the underlying collateral. This enables users to secure their tokens against other assets or migrate them to Cronos Chain-compatible cold storage wallets.

Borrowing Assets

Users who want to borrow one of the Agile Finance platform's supported cryptocurrencies will have to pledge tokens or guarantees that are locked by registration. Users may borrow up to 60% of the collateral value with locked assets.

A user may borrow an asset-dependent range from the asset's collateral relationship after providing their collateral value. For example, if a person contributes \$1,000 in CRO, the loan platform will let them borrow up to 60% of their asset worth. A liquidation event happens when the value of a user's collateral falls below the percentage of their collateral portion of their assets. To prevent liquidation if the value of the collateral has been reduced while borrowing, users must understand the value of their asset ratio.

Users of the Agile Finance platform pay a compound interest rate for each block on the borrowed asset, with no monthly payments required. To get the asset back, the borrower must pay the platform his initial sum plus the entire compound interest.

Changing market conditions

The asset's interest rate index is updated with each transaction to capitalize the interest from the preceding index, with interest for the period, denominated in $r * t$, computed using the following interest rate per block:

$$\text{Index } a, n = \text{Index } a, (n - 1) * (1 + r * t)$$

Since the prior index, total market indebtedness has been revised to include interest accrued:

And a portion of the accumulated interest is kept (returned) as a reserve, as defined by the total amount owed.

$$\text{totalBorrowBalance}_{a,n} = \text{totalBorrowBalance}_a \cdot (1 + r)^t$$

Reserve factor, ranging from 0 to 1:

$$\text{reserve}_a = \text{reserve}_a \cdot (1 + r)^t + \text{totalBorrowBalance}_a \cdot (1 + r)^t \cdot \text{reserve factor}$$

NFT Marketplace

NFT's flexible marketplace includes art, censorship-resistant domain names, virtual worlds, trading cards, sports, and collectibles, among other non-fungible tokens.

ERC721 and ERC1155 assets are included. Cronos NFT, ENS names, Fungible, and other unique digital assets are available for purchase, sale, and discovery.

NFT Currency AGL

The Agile NFT marketplace accepts AGL as the principal NFT token for makers and buyers to purchase products. AGL units may be used by creators to establish fixed pricing, while buyers can use them to bid or offer.

How to Use

The Agile NFT Item Minting Tool allows creators to build their own blockchain things. It enables users to make a free collection and NFT without writing a single line of code. Users may simply add themselves to the Agile NFT marketplace when they create their own smart contract for a game, digital collectible, or other product with unique digital features on the blockchain.

The architecture of the system

For token farming, the platform's DEX will leverage a fork of Pancakeswap's codebase. When consumers link to tokens through the lending platform, they must first connect to an underlying asset. The native tokens' monetary values are related to the items held as collateral. Because of the cryptocurrency's nature. The collateral values are derived in real-time from market rates utilizing the market price update tape recorder to offer the fa

Token access:

Metamask, Trust Wallet, and Wallet Connect wallets may be used to establish an account with Agile Finance. Our objective is to grow the platform as quickly as possible so that, after it passes all of the exchange's standards, we may apply for crypto exchange listings like crypto.com.

Liquidations:

The user has complete control over their security. If the collateral falls below the necessary debt level, it may be liquidated. There is a cost associated with these settlements, and they are used to settle outstanding obligations. If there is any leftover warranty, it is refunded to the customer.

Token reservation:

With a token, it depends on the collateral asset. The reserve factor for the stable collateral is 10%, whereas the reserve factor for the unstable collateral is 20%. These reserve variables are derived from credit platform spreads and may be used to project development, risk mitigation, and other purposes. The governance process controls these reserve factor funds, which may be utilized in various ways, including B. as reward mechanisms.

Interest Rates

On both the supply and credit sides of the protocol, the platform employs market-established interest rates. A yield curve that fluctuates based on the liquidity of the assets determines the interest rate made accessible to the markets.

Structure of liquidity incentives:

The protocol does not ensure liquidity; instead, it creates incentives using an interest rate model. When an asset is in high demand, the protocol's liquidity (the number of tokens available for withdrawal or borrowing) falls; when this occurs, interest rates rise, boosting supply while discouraging borrowing.

Feed Prices

A Sorceress Agile Finance delegated the capacity to decide the value of assets to a committee that combines the prices of the tape registry. Price maintains the current exchange rate for each supported asset. These exchange rates are used to calculate credit worthiness, collateral requirements, and any other function that determines an account's equivalent value.

Governance:

Participation in the Agile Finance Governance and Proposal system is possible with any token. Users may vote on numerous proposals and participate in the voting section. The proposal's quorum vote is 20 million AGL, while the proposal's threshold is 10 million AGL.

- The ability to add a new market token.
- The ability to update the interest rate model per market.

- The ability to change the Oracle address.
- The ability to remove a token reservation.
- The ability to combine several AGL reward bets into a single wager

Financial Build of Agile

Cronos Chain will be used in the design of Agile Finance V1 for three primary benefits:

- Transaction lock time is quick,
- Transmission is secure.
- Compared to others, the rates are lower.

Cronos Chain maintains a list of reputable organizations where users may report harmful projects and frozen project assets, ensuring that user payments are always protected. The second version of the project will rely on Ethereum and Polygon networks.

Roadmap

No	Tittle	Timeline
1	- Whitepaper and landing page introduction	Phase 1
2	<ul style="list-style-type: none"> - Agile Finance Marketing Campaign - Agile Finance Early Booking Open - Public Sales Introduction 	Phase 2
3	<ul style="list-style-type: none"> - Agile Finance Testnet loan application - Provide exchange contract on leading CC network 	Phase 3
4	<ul style="list-style-type: none"> - AGL to be listed on coinmarketcap - Agile Loans to be launched on the leading network - Agile Swap to be launched on the main network - An overview of the farm AGL / CRO or AGL / USDT - Coingecko listing for AGL - Agile Marketing @ Cointelegraph and Coindesk - Agile Marketing with a Dedicated Marketing Company - Launch the NFT Agile Marketplace on the testnet - Establish LGA governance 	Phase 4
5	<ul style="list-style-type: none"> - Go live on the leading network with Agile AMM and Liquidator Bot - Go live with the agile NFT marketplace 	Phase 5
6	<ul style="list-style-type: none"> - Begin the Agile Bug Bounty by burning a portion of the chips. - Expanding worldwide marketing campaigns - Listing on medium stock markets - Growing an agile finance team 	Phase 6
7	<ul style="list-style-type: none"> - A portion of the chips should be burned. - Business expansion - Listing on major stock markets - Introduction of mobile, agile financial apps - Development of the agile chain 	Phase 7

References

1. Compound Protocol, a whitepaper written by Robert Leshner and Geoffrey Hayes, February 2019, <https://compound.finance/documents/Compound.Whitepaper.pdf>
2. MakerDAO and DAI, a whitepaper written by Maker Foundation Team, December 2017 <https://makerdao.com/whitepaper/DaiDec17WP.pdf>
3. Aave V2, a whitepaper written by Aave Protocol, December 2020, <https://github.com/aave/protocol-v2/blob/master/aave-v2-whitepaper.pdf>
4. COMP Token Governance, Robert Leshner, February 2020, <https://medium.com/compound-finance/compound-governance-5531f524cf68>
5. Venus Protocol, a whitepaper written by Swipe Wallet, November 2020, <https://venus.io/Whitepaper.pdf>
6. Uniswap, whitepaper V2 written by Hayden Adams, Noah Zinsmeister and Dan Robinson, March 2020, <https://uniswap.org/whitepaper.pdf>
7. Curve, whitepaper DAO was written by Curve DAO, November 2019, <https://curve.fi/files/CurveDAO.pdf>