



## **Course III:**

# **DeFi Deep Dive**

## **1. Credit and Lending**

**(ii) Compound**

**(d) Governance**

# Credit/Lending: Compound

## *Governance parameters*

- The many different parameters of Compound's functionality, such as the *collateral factor*, *reserve factor*, *base rate*, *slope*, and *kink*, can all be tuned.
- The entity capable of tuning these parameters is *Compound Governance*.
- Compound Governance has the power to change parameters, add new markets, freeze the ability to initiate new deposits or borrows in a market, and even upgrade some of the contract code itself.

# Credit/Lending: Compound

## *Governance*

- Importantly, Compound Governance cannot steal funds or prevent users from withdrawing.
- In the early stages of Compound's growth, governance was controlled by developer admins, similar to any tech startup.
- Technically, this meant that the first version of Compound was not fully decentralized



# Credit/Lending: Compound

## *Governance parameters*

- A strong development goal of Compound, as with most DeFi protocols, was to remove developer admin access and release the protocol to the leadership of a DAO via a governance token.
- The token allowed shareholders and community members to collectively become Compound Governance and propose upgrades or parameter tuning.
- A quorum agreement is required for any change to be implemented.
- The quorum rule is a majority of users each of whom holds with a minimum of 400,000 COMP (~4% of total eventual supply)

# Credit/Lending: Compound

## *COMP token*

- Compound implemented this new governance system in May 2020 via the COMP token.
- COMP is used to vote on protocol updates such as parameter tuning, adding new asset support, and functionality upgrades (similar to MKR for MakerDAO).
- On June 15, 2020, the [7th governance proposal](#) passed which provided for distributing COMP tokens to users of the platform based on the borrow volume per market.

# Credit/Lending: Compound

## *COMP token*

- The proposal offered an experience akin to a tech company giving its own stock to its users.
- The COMP token is distributed to both suppliers and borrowers, and acts as a subsidization of rates.

# Credit/Lending: Compound

## *COMP token*

- With the release of the token on public markets, COMP's market cap spiked to over \$2 billion.
- The price point of the distribution rate is so high that borrowing in most markets turned out to be profitable.
- This arbitrage opportunity attracted considerable volume to the platform, and the community governance has made and passed several proposals to help manage the usage.

# Credit/Lending: Compound

## *Other platforms use Compound*

- The Compound protocol can no longer be turned off and will exist on Ethereum as long as Ethereum exists.
- Other platforms can easily escrow funds in Compound to provide additional value to their users or enable novel business models.
- Easy, instant access to yield or borrow liquidity on different Ethereum tokens makes Compound an important platform in DeFi.



# Credit/Lending: Compound

## *Fair lotteries*

- [PoolTogether](#) is a no-loss lottery that deposits all user's funds into Compound, but pays the entire pool's earned interest to a single random depositor at fixed intervals.
- In most lotteries, 30-50% of the lottery sales are tagged for administrative costs and government or charitable use; hence, the expected value of investing \$1.00 in a lottery is \$0.50-\$0.70.
- In a no-loss lottery, all sales are paid out and the expected value is \$1.00.

# Credit/Lending: Compound

<b>Traditional Finance Problem</b>	<b>Compound Solution</b>
<i>Centralized Control:</i> Borrowing and lending rates are controlled by institutions.	Compound rates are determined algorithmically and gives control of market parameters to COMP stakeholders incentivized to provide value to users.
<i>Limited Access:</i> Difficulty in accessing high-yield USD investment opportunities or competitive borrowing.	Open ability to borrow or lend any supported assets at competitive algorithmically determined rates (temporarily subsidized by COMP distribution).
<i>Inefficiency:</i> Suboptimal rates for borrowing and lending due to inflated costs.	Algorithmically pooled and optimized interest rates.
<i>Lack of Interoperability:</i> Cannot repurpose supplied positions for other investment opportunities.	Tokenized positions via cTokens can be used to turn static assets into yield-generating assets.
<i>Opacity:</i> Unclear collateralization of lending institutions.	Transparent collateralization ratios of borrowers visible to entire ecosystem.