



**Course III:**

# **DeFi Deep Dive**

## **1. Credit and Lending**

**(i) MakerDAO**

**(c) Governance**

# Credit/Lending: MakerDAO

## *Governance*

- The MKR token controls MakerDAO.
- Holders of the token have the right to vote on protocol upgrades, including supporting new collateral types and tweaking parameters such as collateralization ratios.
- MKR holders are expected to make decisions in the best financial interest of the platform.
- Their incentive is that a healthy platform should increase the value of their share in the platform's governance.

# Credit/Lending: MakerDAO

## *Global settlement*

- For example, poor governance could lead to a situation where the buffer pool is not sufficient to pay back the Protocol Debt.
- In this case, newly minted MKR tokens are auctioned off in exchange for DAI and the DAI are used to pay back the Protocol Debt.
- This process is *Global Settlement*, a safety mechanism intended for use only when all other measures have failed.
- Global Settlement dilutes the MKR share, which is why stakeholders are incentivized to avoid it and keep Protocol Debt to a minimum.

# Credit/Lending: MakerDAO

## *Decisions of MKR holders*

- Votes by the MKR holders can change any of the parameters available on the platform, e.g., supporting new collateral types for Vaults
- MKR holders could also vote to pay themselves a dividend funded by the spread between the interest payments paid by Vault holders and the DAI Savings Rate.
- The reward of receiving this dividend would need to be weighed against any negative community response that might decrease the value of the protocol and the MKR token.

# Credit/Lending: MakerDAO

## *Why DAI is attractive*

- Importantly, users can purchase and utilize DAI without having to go through the process of generating it in a Vault—they can simply purchase DAI on an exchange.
- Therefore, users do not need to know the underlying mechanics of how DAI are created.

# Credit/Lending: MakerDAO

## *Why DAI is attractive*

- Holders can easily earn the DAI Savings Rate by using the protocol.
- More technologically and financially sophisticated users can use the MakerDAO web portal to generate Vaults and create DAI to get liquidity from their assets without having to sell them.
- It is easy to sell DAI and purchase an additional amount of the collateral asset to get leverage.

# Credit/Lending: MakerDAO

## *Drawback of DAI*

- DAI supply is always constrained by demand for ETH-collateralized debt.
- No clear arbitrage loop exists to maintain the peg.
- For example, the stablecoin USDC is always redeemable by Coinbase for \$1, with no fees. Arbitrageurs have a guaranteed (assuming solvency of Coinbase) strategy in which they can buy USDC at a discount or sell it at a premium elsewhere and redeem on Coinbase.
- This is not true for DAI. Irrespective of any drawbacks, the simplicity of DAI makes it an essential building block for other DeFi applications.

# Credit/Lending: MakerDAO

Traditional Finance Problem	MakerDAO Solution
<i>Centralized Control:</i> Interest rates are influenced by the US Federal Reserve and access to loan products controlled by regulation and institutional policies.	MakerDAO platform is openly controlled by the MKR holders.
<i>Limited Access:</i> Obtaining loans is difficult for a large majority of the population.	Open ability to take out DAI liquidity against an overcollateralized position in any supported ERC-20 token. Access to a competitive USD-denominated return in the DSR.
<i>Inefficiency:</i> Acquiring a loan involves costs of time and money.	Instant liquidity at the push of a button with minimal transaction costs.
<i>Lack of Interoperability:</i> Cannot trustlessly use USD or USD-collateralized token in smart contract agreements.	Issuance of DAI, a permissionless USD-tracking stablecoin backed by cryptocurrency. DAI can be used in any smart contract or DeFi application.
<i>Opacity:</i> Unclear collateralization of lending institutions.	Transparent collateralization ratios of vaults visible to entire ecosystem.