

POLYSHIELD WHITEPAPER V1.0 08.08.2021

TABLE OF CONTENTS

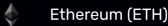
- O1 INTRODUCTION
- **O2** POLYSHIELD
- **O3** THE SHI3LD TOKEN
- 04 TOKEN SPECIFICATIONS
- **O5** VARIABLE EMISSION RATE
- **06 PUBLIC BURN FUNCTION**
- O7 POLYSHIELD FARMS
- **OB POLYSHIELD VAULTS**
- OP NFT MULTIPLIER SYSTEM
- 09 NFT FUND SPLIT
- 10 TIME LOCK MANAGEMENT
- 10 CONTRACTS & AUDITS
- 11 OFFICIAL LINKS

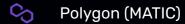
INTRODUCTION

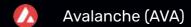
A shield is defined as a "piece of personal armour which is held in the hand". Shields have been used by all kinds of people throughout the ages for a wide variety of purposes. Whether it is to intercept and repel attacks, block some form of access, or, most importantly, to provide passive protection to the shield bearer at all times.

Yield farming is a fantastic way to use your assets in a practical way, where you farm tokens as a reward. As a cornerstone product under the umbrella of DeFi (Decentralized Finance), yield farming has grown into an incredibly large market cap asset class.

Although many good things can be said about the many farms that exist, it is evident that the market has reached a point of saturation, where scams and "rugpulls" have become the standard. This can be said for a large number of the farms on any of the current blockchains that offer smart contract products. The most prominent examples would the following be blockchains:







BinanceSmartChain (BSC)

KuCoinChain (KCC)

POLYSHIELD

Having been intimately involved in cryptocurrency development from an early stage, the PolyShield team decided to develop this yield farm using the Polygon blockchain. This was an easy decision to make, as Polygon has proven itself to be a very robust layer 2 solution to Ethereum. This means we get most of the benefits of the Ethereum blockchain, without the downsides; these downsides mainly being Ethereum's high transaction fees and its slow block speeds.

Polygon offers a truly decentralized solution for DeFi enthusiasts, where the transactions are extremely fast and incredibly cheap. Despite these benefits, Polygon is still considered in its early DeFi stages. This gives ground for a very innovative space but unfortunately it has also opened the doors to many exploits and scams. This is partly due to the nature of decentralization, where there is no "real" authority that can regulate the space. As such, Polygon has recently become a victim to scams and liquidity pulls, being released by rogue devs with malicious intent.

They say that "necessity is the mother of creation". As such, it was clear that there was indeed a necessity; the creation of a yield farm on the Polygon blockchain that was SAFE, SECURE, SUSTAINABLE.

SAFE, SECURE, SUSTAINABLE.

As such this became the motto of PolyShield. Finance. This project was built with the core foundation that it will become the golden standard for Polygon farms. The PolyShield. Finance developers have dedicated their time and resources towards building the safest yield farm possible, where users can comfortably deposit their assets without worry of waking up to an "exit scam" or liquidity drain.

Every single one of the PolyShield smart contracts has been developed with care, from the ground up, with maximum focus on security. The smart contracts will be audited by at least 2 auditing firms, for additional assurance of quality.

THE SHI3LD TOKEN

SHI3LD is the native token of the PolyShield.Finance ecosystem. SHI3LD is an inflationary token with an initial supply of 1,000 (Only 1,000 SHI3LD tokens were initially minted for farm generation purposes). The PolyShield Masterchef smart contract is programmed to start minting SHI3LD on the predetermined genesis block.

The **PolyShield** Masterchef smart contract is the only source for any SHI3LD tokens that will ever exist or The smart contract is circulate. programmed to follow very specific rules so as to always auto-regulate the rate of **SHI3LD** tokens. minting SHI3LD has a Variable Emission Rate. This means that the smart contract been designed with intelligent bonding curve that will always strive to balance the minting rate against the price and inflation of the token in the open market.

You can see more specific details in the Variable Emission Rate section.

SHI3LD is ultimately a governance token, but it comes with the benefits of staking and liquidity pool farming, with very attractive APYs.

At first, the SHI3LD token cannot be bought or sold on QuickSwap due to liquidity. The optimal method to obtain SHI3LD tokens is through farming and harvesting them. After people have claimed their SHI3LD tokens they can liquidity to either the the SHIELD-MATIC farm or SHI3LD-USDC farm, thus enabling anyone to buy SHI3LD on QuickSwap, in exchange for MATIC or USDC.

The **SHI3LD** Vault and Farms yield the highest APY, making them a valuable place to provide liquidity.



TOKEN SPECIFICATIONS

SHI3LD TICKER

POLYGON

ERC20 STANDARD

1,000
INITIAL SUPPLY

MAXIMUM SUPPLY

\$1 INITIAL PRICE

VARIABLE EMISSION RATE 1/BLOCK
INITIAL EMISSION RATE

\$1-\$100 VARIABLE EMISSION RATE PRICE RANGE

PRE-SOLD TOKENS

TEAM TOKENS

MARKETING TOKENS

LINKS

CIRCULATING SUPPLY
BURNED SUPPLY
CIRCULATING SUPPLY

VARIABLE EMISSION RATE

The PolyShield emission rate is calculated based on a curve with input from the current token price in USD.

The curve operates within a price range. Outside this range the emission rate will be either 100% (below bottom price) or 1% (above top price). The initial range will be set to 1 USD bottom and 100 USD top.

When the price of SHI3LD leaves this range the team will adjust the range accordingly. For example it might make sense to have the range between 50 and 150 USD.

The curve equation is below and starts with a curve rate of 5.

$$y = \frac{1}{curveRate} \left(100 - x \right) + \left(\frac{100}{x} \right)$$

The token price is calculated by comparing the balance of the SHI3LD/USDC LP held by the tokens SHI3LD and USDC on QuickSwap.

The graph below shows how the curve affects the emission rate depending on the token price within the specified range. As the price increases, the emission rate drops to a minimum of 1% of 1 SHI3LD per block.



PUBLIC BURN FUNCTION





It has become somewhat of a standard in DeFi yield farms where 10% of all minted tokens emitted into supply go directly (or indirectly) to the dev team. At PolyShield.Finance, things are a little different.

Our dev team does not receive any share of the minted SHI3LD tokens. Instead we chose to direct 10% of all minted tokens to a burner contract that has only one function:

To allow anyone to burn the current amount of tokens pending to be burned

A provision has been added to the MasterChef contract that will split this 10% into 5% for burning and 5% to go towards the NFT system when it is implemented as part of the product roadmap.

POLYSHIELD FARMS

A farm is a DeFi product which allows you to stake your liquidity pool tokens (LP) and in return yields you tokens as a reward.

In our case you can provide liquidity to certain liquidity pools on the QuickSwap DEX, and then stake your LP tokens in our farms, and as a result you will be able to harvest SHI3LD tokens, which are minted every block.

https://polyshield.finance/#/farms

The amount of SHI3LD you will be able to harvest depends on the APY of the liquidity pool you choose. The APY represents how much percent gain you can make per year on your USD value staked (if the price and liquidity were to remain constant at time of calculating the APY).

PolyShield. Finance currently offers these LP farms:

LP	MULTIPLIER	DEPOSIT FEE
SHI3LD-MATIC	50X	0%
SHI3LD-MATIC	50X	0%
USDC-WETH	20X	4%
MATIC-QUICK	20X	4%
USDC-USDT	10X	4%

APY & ROI

The amount of SHI3LD earned is estimated based on the current emission rate, the percentage of liquidity pool held, SHI3LD token price and an investment of \$1000 worth of the liquidty pool asset.

APY estimates are not guarantees and are subject to change depending on token price and emission rates.

POLYSHIELD VAULTS

A vault is a DeFi product which allows single asset staking, and in return yields reward tokens which are accumulated every block.

This means that you don't have to deal with liquidity pools and their lengthy process if you don't want to. Simply go to the Vaults page, pick your chosen Vault, and then stake with 2 transactions. As a result you will be rewarded with SHI3LD tokens which you can track in real time on our website.

https://polyshield.finance/#/vaults

The amount of SHI3LD tokens you can harvest depends on the APY of your chosen Vault. The APY represents how much percent gain you can make per year on your USD value staked (if the price and total amount staked were to remain constant at time of calculating the APY).

PolyShield. Finance currently offers these Vaults:

LP	MULTIPLIER	DEPOSIT FEE
SHI3LD	40X	0%
WETH	30X	4%
QUICK	20X	4%
WMATIC	10X	4%
USDC	10X	4%

APY & ROI

The amount of SHI3LD earned is estimated based on the current emission rate, the percentage of your stake vs total staked, SHI3LD token price and an investment of \$1000 worth of the staked asset.

APY estimates are not guarantees and are subject to change depending on token price and emission rates.

NFT MULTIPLIER SYSTEM

The NFT Multiplier system is one of the most exciting implementations to be added to the PolyShield. Finance ecosystem.

When activated, 5% of the current SHI3LD minted during emission will go into the NFT system where it will be available to NFTs.

A suite of NFTs (non-fungible tokens) will be released through our own marketplace, where each will have a set Multiplier and Timer.

- The Multiplier represents what share of the total SHI3LD allocation will be made available to the NFT.
 10x, 20x, 30x etc.
- The Timer represents how long the NFT will be effective.
 3 hours, 7 days, 30 days etc.
- Different NFT's will have different combinations of the two parameters, and as such a secondary market of NFT's will naturally develop where the community will settle on appropriate prices for the NFT's, depending on their rarity and usability.

With this system, NFTs can be bought and then resold for higher prices (flipped), or the NFTs can be used to amplify the yields of the farms and vaults. Depending on circumstances, both options can yield fantastic results.

Simply put, you can look at your NFTs as yield multipliers or as collectibles. The final choice is yours.

NFT FUND SPLIT

All proceeds from the NFT market will go towards either:

- Market buying SHI3LD and burning it
- · Adding SHI3LD liquidity to the existing LP's

The team will not receive any share of the sells.

Additional bonuses will be available to addresses that have participated in the Public Burn Function

TIME LOCK MANAGEMENT

All key admin functions on the MasterChef contract which controls the emission of SHI3LD to the farms and vaults are controlled by a TimeLock contract.

The Time Lock system queues transactions for to 12 hours to prevent immediate action by administrators that might affect the value of the farms or deposits.

Initially this is disabled to allow the setup of the farms and vaults in a timely way. As soon as the initial configuration is complete and minting has begun, the Time Lock will be enabled for additional security.

CONTRACTS & AUDITS

POLYSHIELD

https://polygonscan.com/address/0xf239e69ce434c7fb408b05a0da416b14917d934e

MASTERCHEF

https://polygonscan.com/address/0x0Ec74989E6f0014D269132267cd7c5B901303306

TOKEN BURNER

https://polygonscan.com/address/0xfbb307fea8cdaf614b66f82d8d233c947b07c4f5

AUDITS

https://github.com/polyshield-finance/audit-reports/blob/main/HazeSecurity_Polyshield.pdf

OFFICIAL LINKS

WEBSITE

https://polyshield.finance/

GITHUB

https://github.com/polyshield-finance

SHI3LD-USDC:

https://info.quickswap.exchange/pair/0x0ca257a6cae5c89826daae3be0a64170e34493c5

SHI3LD-WMATIC

https://info.quickswap.exchange/pair/0x982c1f90381e31e7b7dbba8708126532b7cb7df6

SHI3LD SMART CONTRACT

https://polygonscan.com/address/0xf239e69ce434c7fb408b05a0da416b14917d934e

TELEGRAM GROUP

https://t.me/polyshield

TELEGRAM ANN

https://t.me/polyshieldann

DISCORD

https://discord.gg/SqTY3whkFb

TWITTER

https://twitter.com/TeamPolyShield

GITBOOK

https://docs.polyshield.finance/