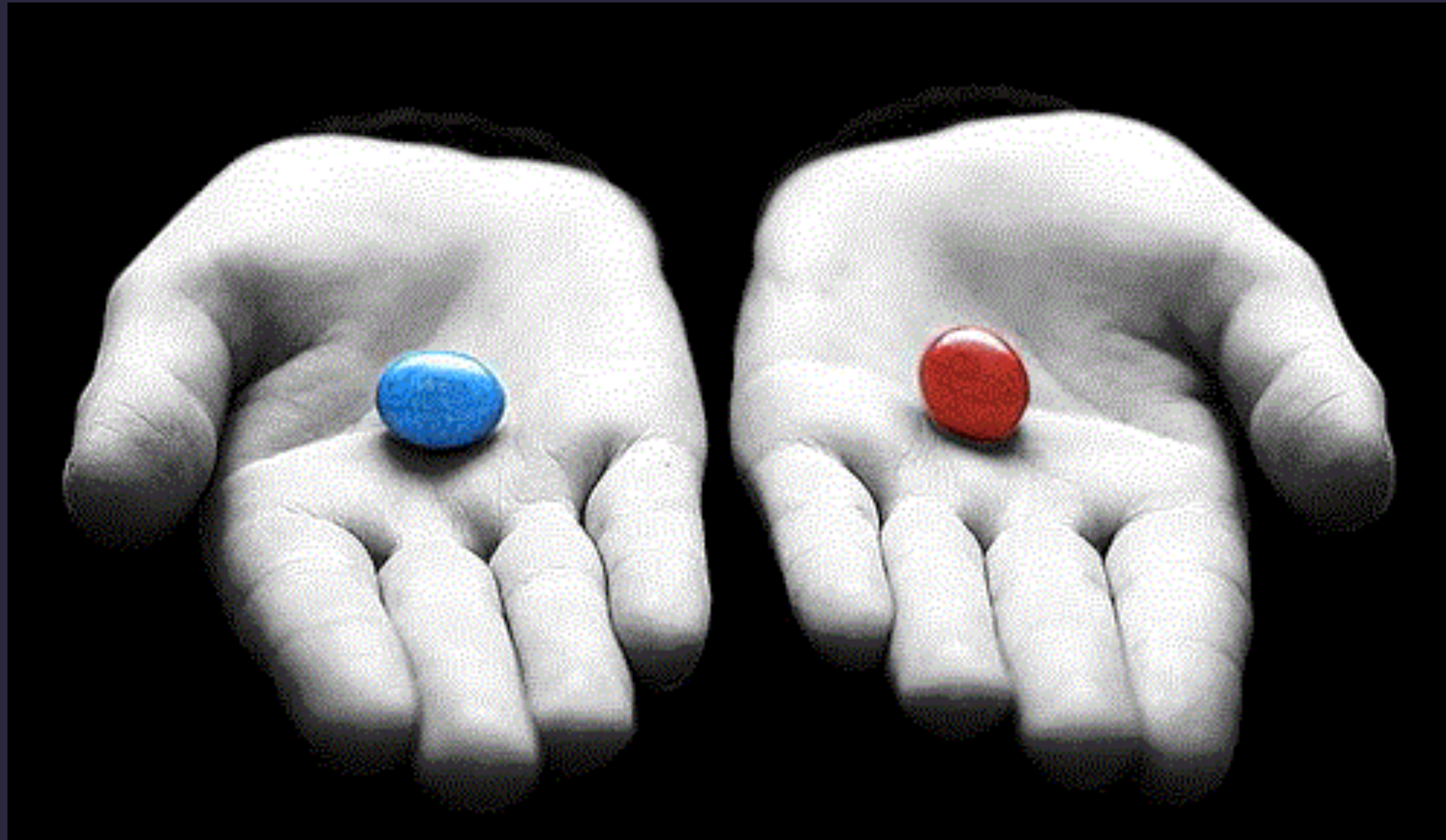


Crypto Structured Fund

Kyber DeFi Virtual Hackathon



A choice for you



**ETH price
will rise above
20%***

**ETH price
will rise within
1% - 20%***

**ETH price
will rise above
20%**

Excess Return

**ETH price
will rise within
1% - 20%**

Preferred Share

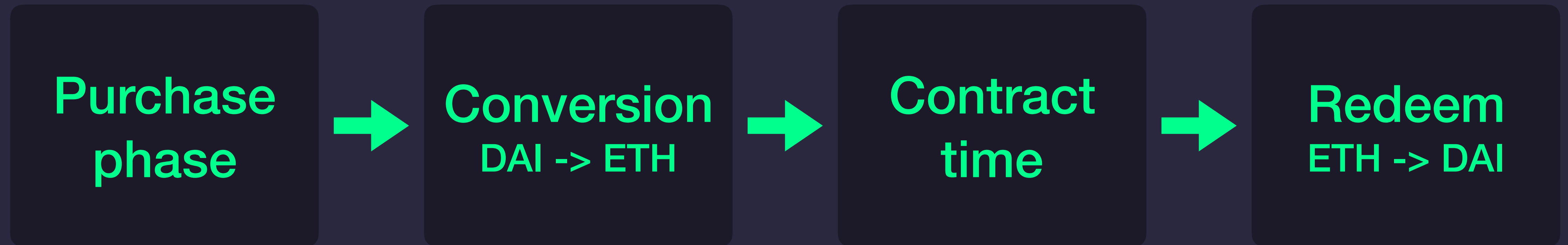
Preferred Share

Deposit DAI, except ETH price rise or drop little

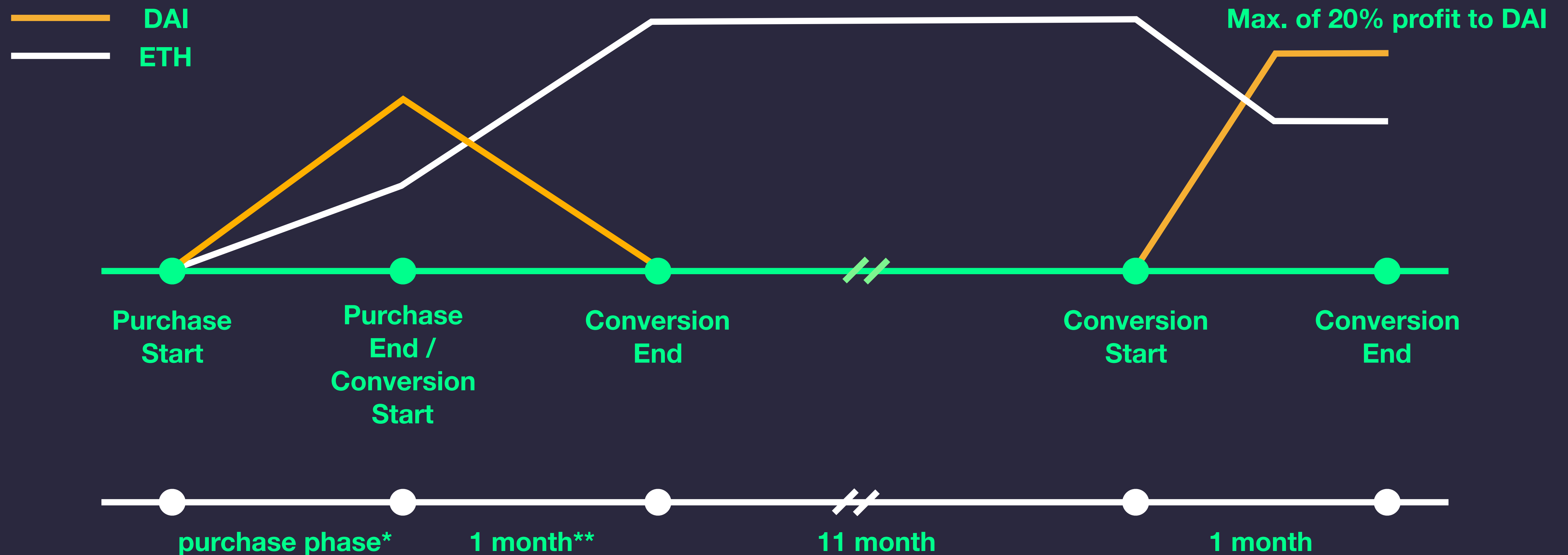
Excess Return

Deposit ETH, except ETH price will rise above 20%

How Structured Fund Works?



How Structured Fund Works?



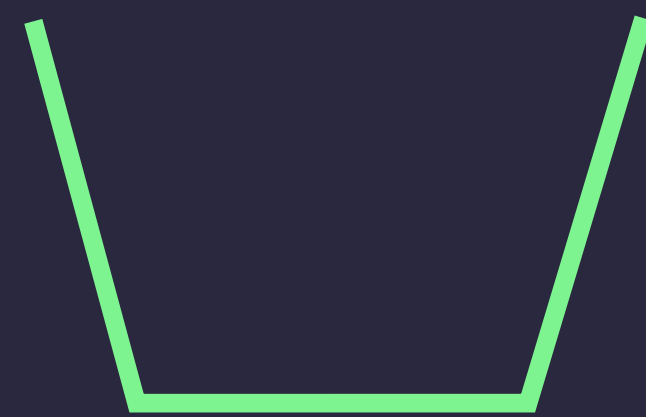
* Purchase phase ends while conversion starts

** Conversion will occur throughout a timeframe, not a certain time

Detail procedures

- Customer choose to deposit DAI or ETH during purchase phase
- Conversion phase initiated. DAI is converted to ETH using KyberNetwork `swapTokenToEther` function. (Conversion will slowly conduct within a time range to mitigate sudden price change)
- Contract locked. Store ETH and wait for price change
- Redeem phase start, ETH is converted to DAI using KyberNetwork `swapEtherToToken`, but this conversion will stop when DAI balance $\geq 120\%$ of the initial DAI investment amount.
- Customer can redeem profit at any time after the whole process

Profit of ETH price rising



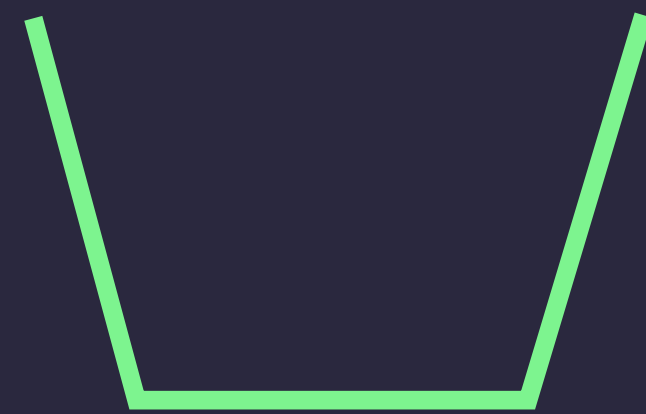
Preferred Share
Profit Bucket



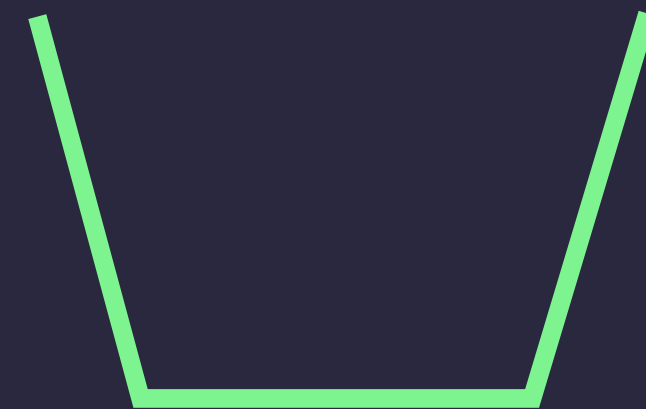
Excess Return
Profit Bucket

Customer who
purchase
Preferred Share
will enjoy priority
to share up to
20% of the profit

Profit of ETH price rising



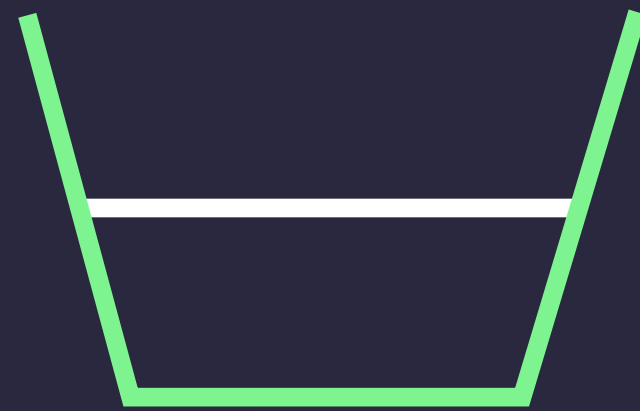
Preferred Share
Profit Bucket



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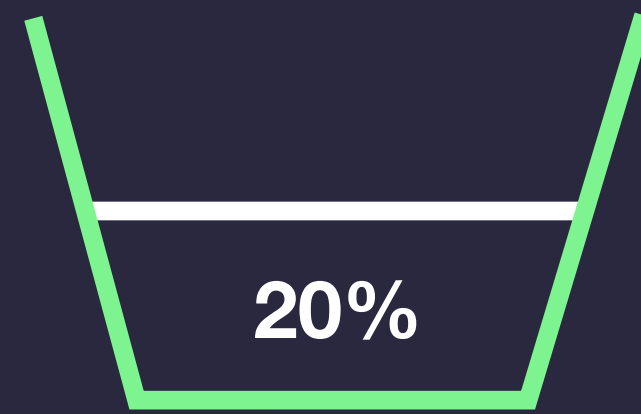
Preferred Share
Profit Bucket



Excess Return
Profit Bucket

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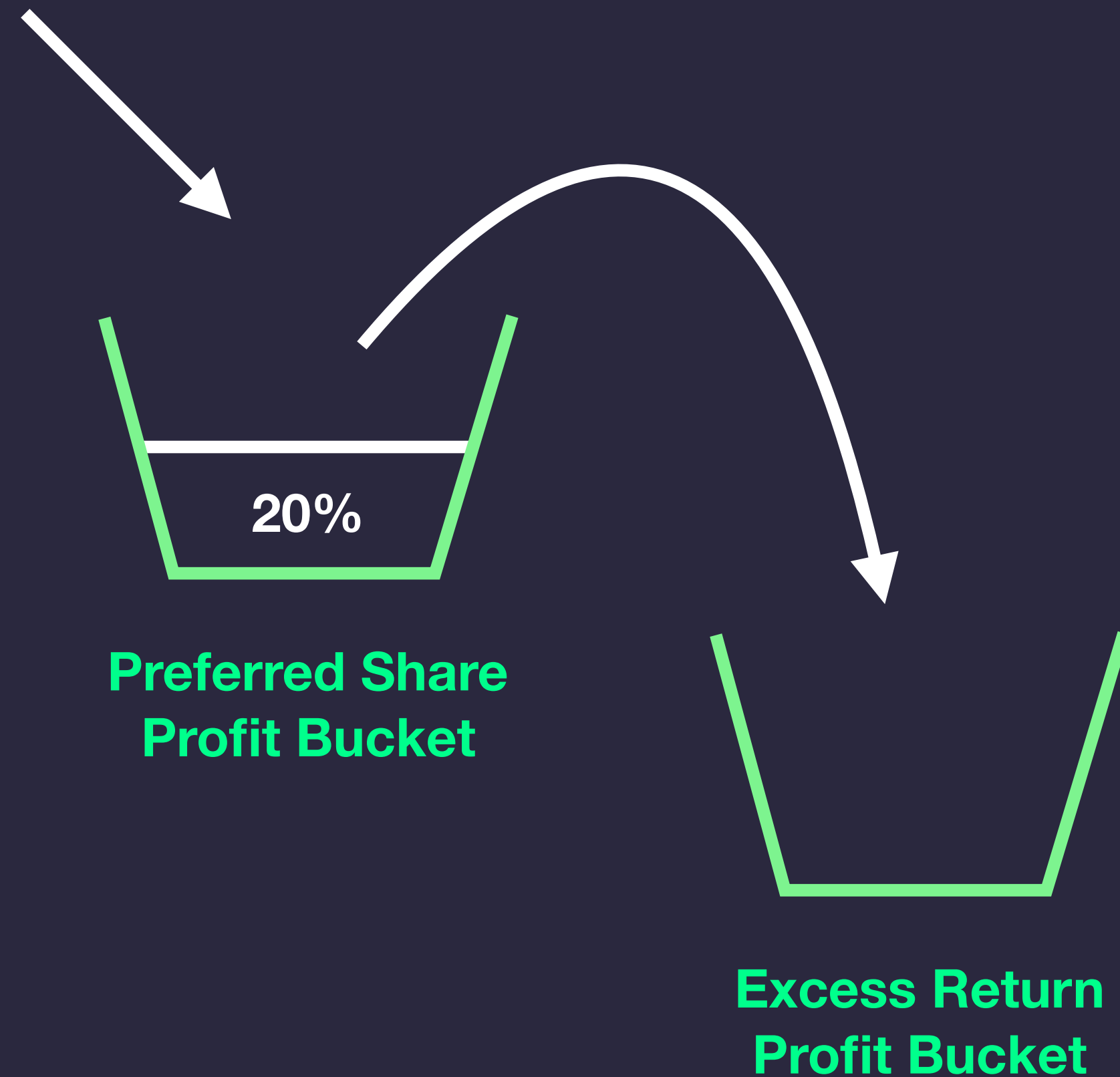
Preferred Share
Profit Bucket



Excess Return
Profit Bucket

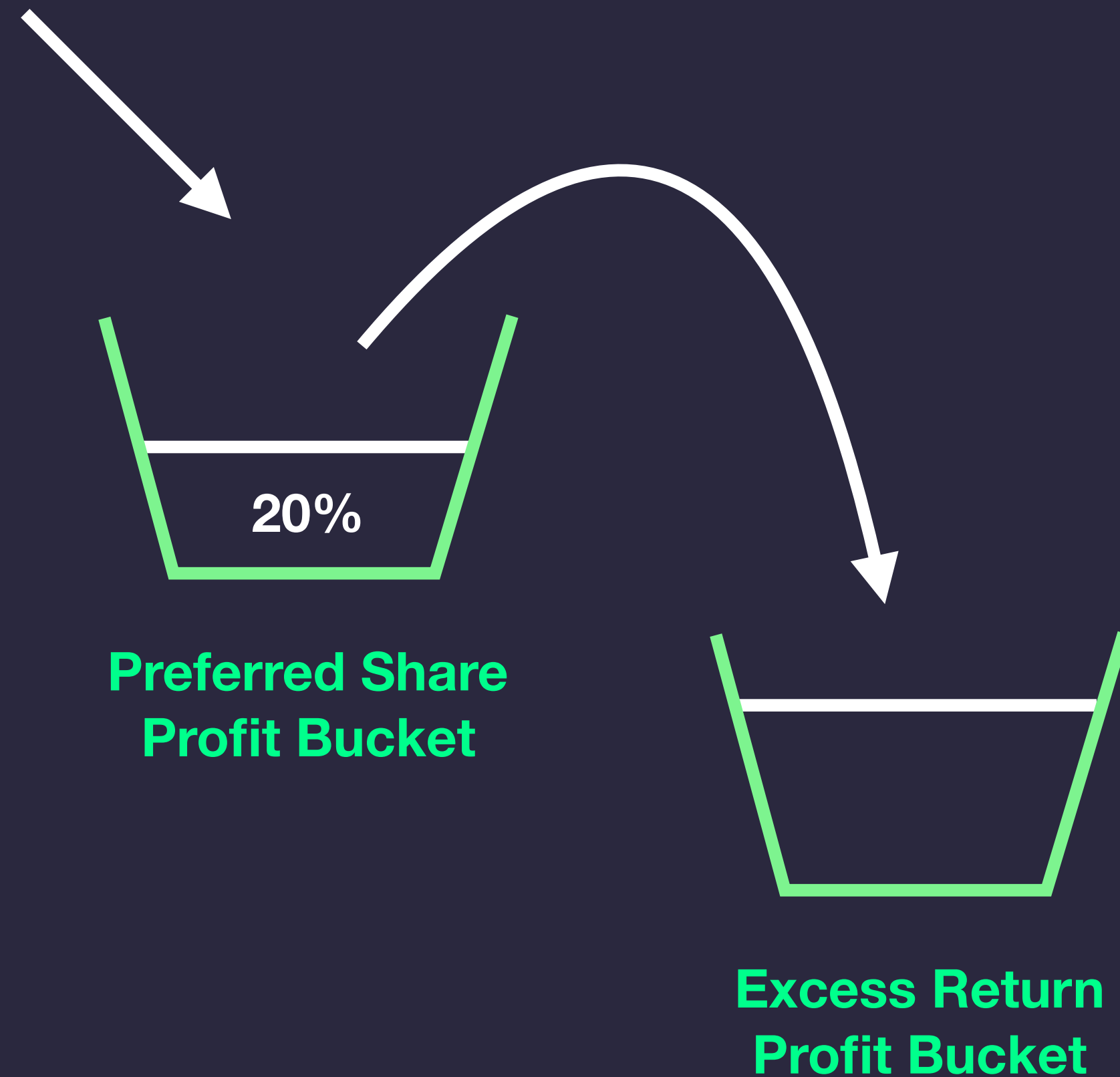
Customer who
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Profit of ETH price rising



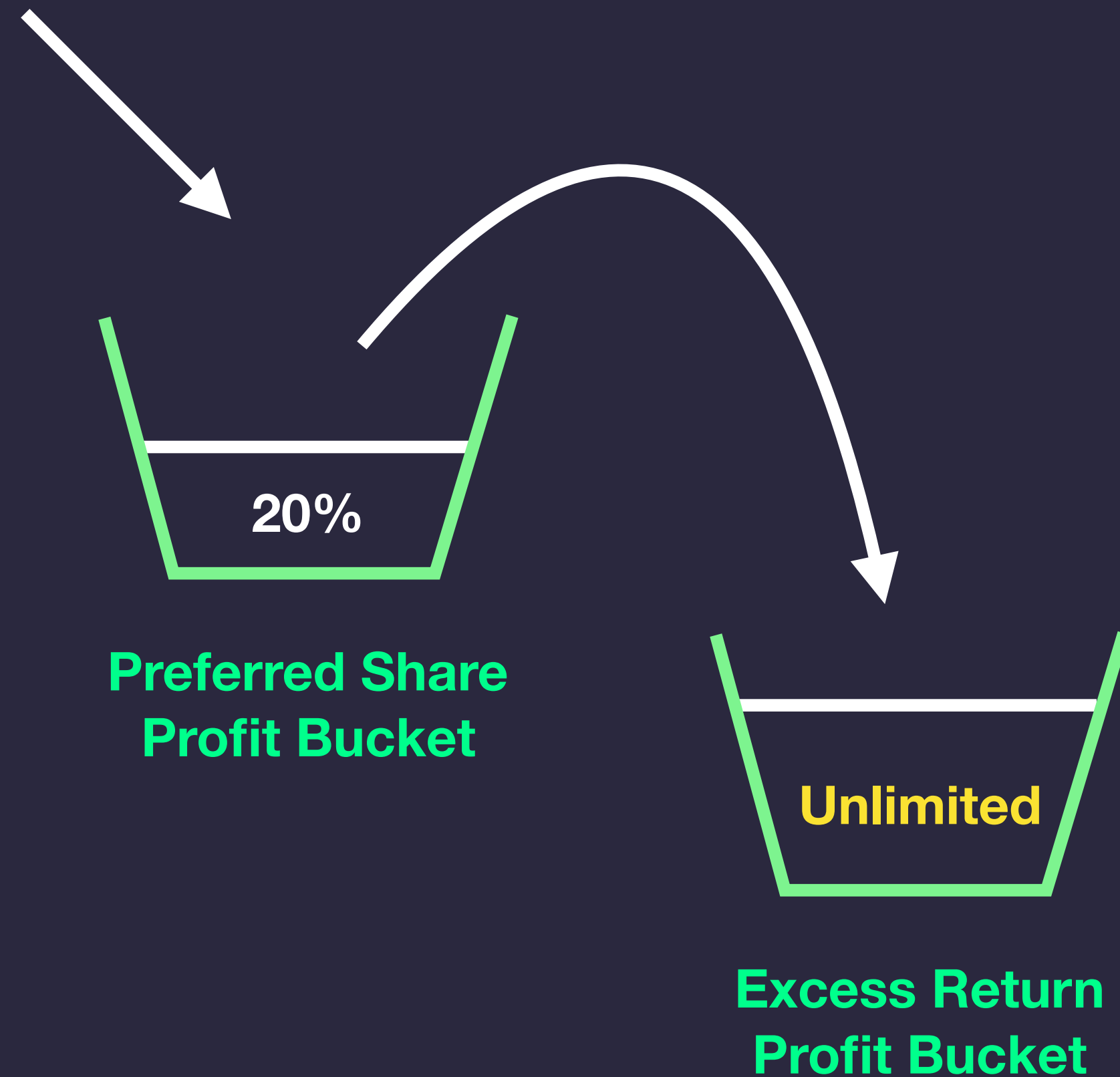
Customer who
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Preferred Share
will enjoy priority
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20% of the profit

Profit of ETH price rising



Customer who
purchase
Preferred Share
will enjoy priority
to share up to
20% of the profit

Profit of ETH price rising



After
Preferred Share
Customer's profit
is satisfied
Excess Return
customer will
share the rest

Result summary

When contract time ended and conversion is done

	ETH price rise over 20%	ETH price rise or fall little	ETH price collapse
Preferred Share	Share 20% profit	Share profit up to 20%	Get lower profit or lose principal
Excess Return	Get excess return	Get lower profit or lose principal	Get nothing

No Oracle Needed

Thanks to the deep liquidity pool of Kyber Network,
Crypto Structured Fund requires no on/off-chain price feed.

Comparison

- **Prediction Market:**
Create synthetic asset at a given price, essentially a zero-sum game, oracle dependent.
- **Lending (Money Market):**
Given a collateral/leverage ratio, determine APR by market force, oracle dependent.
- **Structured Fund:**
Given a specific APR, determine leverage ratio by market force, independent of price oracle.

User Interface Walkthrough

Preferred Share

Profit Rate Limit

Profit Rate
20%

Pool (DAI)
400.0000

Investors
1

DAI Amount in the
Preferred Share

Already Bought 400.0000 units.

Your Balance: 598.4303 DAI

100

DAI

Purchase

◆ Purchase Due Date: 2019/12/1 08:00:00

◆ Redeem Starting Date: 2020/12/1 08:00:00

Preferred Share

$\text{DAI pool} * 1.2 / \text{Total pool}$

$\text{DAI pool} / \text{Total pool}$

Estimated Ether Price that you will get...

Unit: USD/ETH

Current Price

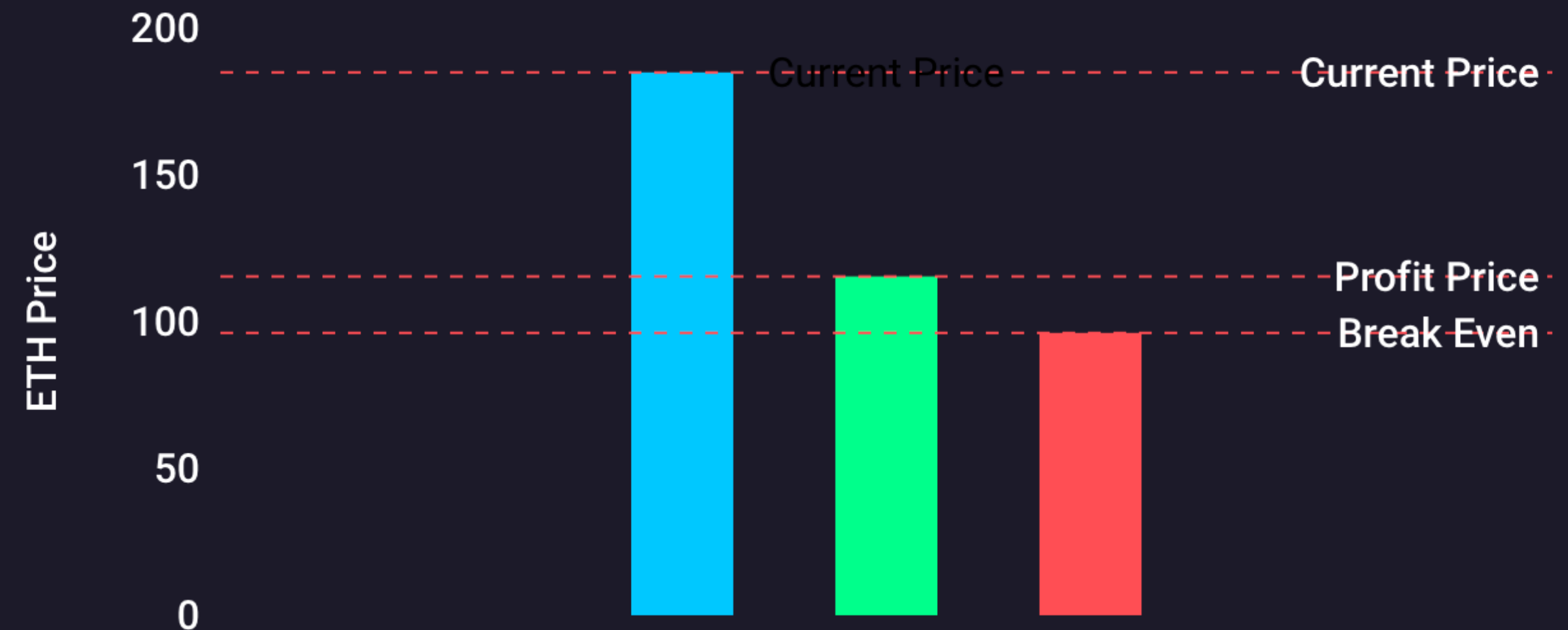
184.87

Full Profits

115.38

Loss

96.15



Excess Return

Total pool /
ETH pool



Leverage
2.08

Pool (ETH)
2.0010

Investors
2

Already Bought 2.0000 units.

Your Balance: 18.6516 ETH

0.0

ETH

Purchase

◆ Purchase Due Date: 2019/12/1 08:00:00

◆ Redeem Starting Date: 2020/12/1 08:00:00

Excess Return

$$\frac{(\text{Total pool} * \text{ETH USD price} - \text{DAI Pool} * 1.2)}{\text{ETH pool}}$$

Estimated Profits/unit if Ether hits USD 500

Unit: USD/ETH

Outcomes

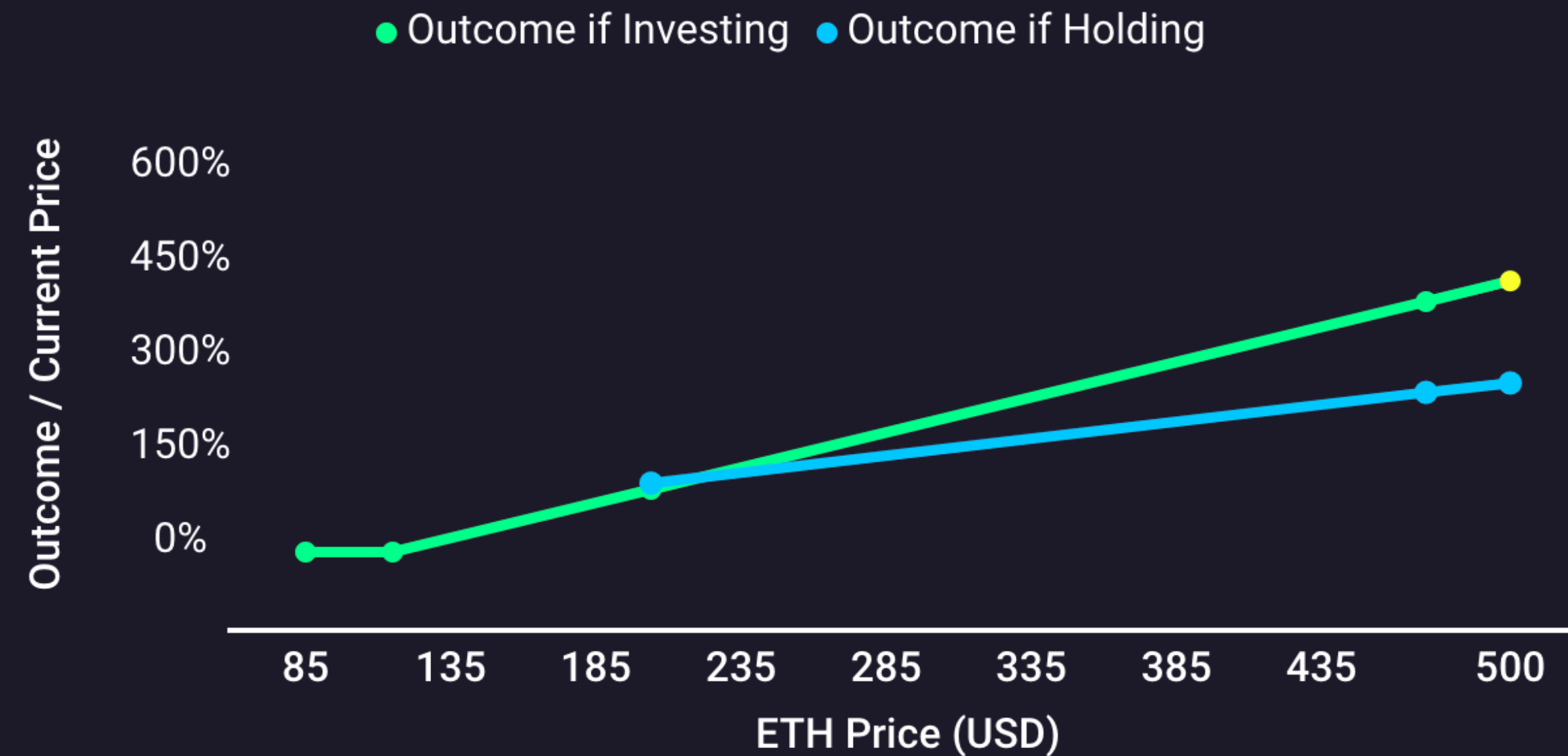
799.5887

Profit Rate

333%

Current Price

184.87



csf.pelith.com

Source Code:

<https://github.com/artistic709/crypto-structured-fund>