



Alpha Swap

Alpha Swap White Paper

AlphaSwap provides a DeFi (decentralized finance) system based on block chains, including decentralized exchange (AlphaSwap), decentralized wallet, NFT foundry sales, contracts, and quantification systems. Swap uses automated market makers (AMMs) protocol that rely on mathematical formulas to price assets. Unlike traditional exchanges, which use order books, assets are priced based on a pricing algorithm.

AlphaSwap's liquidity is provided by a liquidity pool that you can imagine as a large pool of capital against which traders can trade. Why is it important to attract liquidity? Due to the way AMM works, the more fluid there is in the pool, the less slippery spots a large order may generate. In turn, this may attract more traffic to the platform, and so on.

In addition to being a trader of AlphaSwap, you can provide liquidity to any liquidity pools (LPs) that you are interested in as a user of the Swap exchange. In return, the liquidity provider earns profits, i.e. handling fee dividends, from all transactions.

This White Paper gives a detailed description of our research and planning. It aims to showcase the AlphaSwap ecosystem, decentralized exchanges, wallets, NFT, contracts, quantification, metauniverse, the status quo and future plans for its related products and solutions. The document will tell readers without reservation how we leverage our team's expertise to deliver a decentralized financial technology solution while ensuring low overhead costs, transparency, maximum throughput, security and efficiency.



Abstract



1. Abstract-----	02
2. Introduction-----	04
3. Vision-----	05
4. Mission-----	05
5. Why is DEFI the Future of Finance?-----	05
6. Key Products-----	06
6.1 Alpha Wallet(Multi-currency wallet)-----	06-07
6.2 Alpha Exchange(Bridge and Conversion)-----	07
6.3 ALP Governance Token -----	08
6.4 Mining and Staking Pools-----	09
6.5 NFT Market-----	10
6.6 Contract Transaction-----	10
6.7 Quantitative Strategy-----	10
7. Structuring-----	11-12
8. Sources of Revenue-----	12
8.1 Conversion Fee -----	12
8.2 Mining incentives-----	12
8.3 Staking incentives-----	12
8.4 Contract Transaction-----	12
8.5 NFT Market Exchange Fee-----	12
8.6 NFT Staking-----	12
8.7 Quantitative Strategy-----	13
9. General Plan-----	13
10. ALP Initial Issue and Economic Model-----	14-15
11. Disclaimer-----	16
11.1 Restrictions on Distribution and Dissemination---	16-17
11.2 Risks and Uncertainties-----	17

2、 Introduction



AlphaSwap is a modern block chain project built on BSC (Binance Smart Chain), dedicated to providing innovative DeFi products while ensuring maximum user motivation through its dedicated block award system. Its product suite includes a decentralized exchange and a dedicated decentralized wallet, an NFT platform and a quantitative platform. Its functions include Staking of equity, liquidity farming, cross-chain swap, NFT foundry staking, and the application of quantitative strategies. As a Defi platform, AlphaSwap prepares for the automation and simplification of digital asset transactions and transaction processing between individuals or organizations by eliminating the role of centralized financial institutions and middlemen.

AlphaSwap is committed to eliminating the problems of consumers when dealing with financial products and services, especially consumers from underdeveloped and underserved communities. With the application of block chain technology and DeFi, AlphaSwap will give users complete financial autonomy, without relying on banks or centralized financial entities.

In addition, AlphaSwap has a non-custodial multi-asset atomic wallet that allows users to receive, store, send and trade tokens on BSC and other networks without having to store their digital assets on a centralized server. In a decentralized exchange such as AlphaSwap, there is no need for a traditional counterparty, because transactions occur between users and contracts, and you can consider AMM a point-to-point contract (P2C).

AlphaSwap is also committed to supporting trading enthusiasts by allowing them to participate in the staking process with maximum return and creating localized pools of liquidity (communities) that are used within their communities like traditional currencies, creating opportunities for tokens to become part of the business ecosystem and create value within their communities.

Most importantly, AlphaSwap is driven by its native token, ALP. This is a BEP 20 token that is built on the Binance Smart Chain Network. ALP will act as a gateway for users to access AlphaSwap's financial ecosystem and relevant products and solutions. The ALP will also be used as a DAO governance token and a bonus from mobile mining activities to provide incentives for participation in the ecosystem.

3、 Vision

Our vision is to be a sound and sustainable ecosystem with seamless transactions and value exchanges in a simple and powerful encrypted money wallet, while promoting the adoption of encrypted money and digital assets, ensuring community governance and maximizing user engagement.

4、 Mission

Our mission is to break the shackles of centralisation, reshape and develop DeFi (Decentralized Finance) and help promote its application. While providing the most powerful ecosystem DeFi needs to move forward. Our goal is to become a perfect ecosystem, linking all areas of the block chain, creating a leading digital asset with real monetary value, becoming an efficient and economic platform without borders, and realizing the functions and user incentives of a truly autonomous community organization DAO.

5、 Why is DEFI the future of finance?

Decentralized Finance (DeFi) provides a complete ecosystem with the objective of enabling everyone to access a wide range of financial products and services through a borderless, unlicensed and uncensored system. It de-centralises traditional financial use cases such as transactional lending, fundraising, payments and insurance, deploys them on a chain of blocks by encoding them as smart contracts operated through DApps, and makes them part of its point-to-point global financial network.

By its very nature, DeFi democratizes work and codifies trust to remove barriers and provide access to finance for anyone with Internet access, regardless of financial status, geographical location, age, creed, religion, currency, income or occupation.

In addition, DeFi also enables a safer, faster and cheaper way to trade. Over time, we believe that the organic growth of DeFi and the block chain will stimulate the growth of a large number of institutional interests and products.

DeFi is inevitable because it is faster, more consensual, cannot be tampered with, and is decentralized. At the same time, it will be easier than ever for international brokers to invest around the world. We have seen the rise of interesting new investment vehicles, from mutual funds to ETF.

"For people in the informal economy, the potential to trade assets and information using the middlemen-free approach of block chains and their irrefutable public record that is not controlled by any central authority is enormous." --PaulVigna, "The Age of Encrypted Money: How Bitcoin and digital currency Challenge the Global Economic Order".

In addition, since the governance aspect of AlphaSwap DAO is also decentralized, the holders of specific tokens have the decision-making power and it allows more automation in the process.

6、 Vision

6.1 Alpha Wallet (Multi-currency wallet)

Alpha Wallet will provide the users with:

- **Purchasing currency within 3 minutes**

Consolidate the underlying cross-chain interaction and trading infrastructure for encrypted currency swaps across chains and currencies within 3 minutes.

- **Easily earning interest on the encrypted currency in your wallet**

You can also earn encrypted currency when you leave. Staking enables your assets to be put to work at annual profit rate (APR).

- **Preservation of collections.**

Artwork and NFTS Alpha Wallet provide users with a simple way to store all of their unique ERC721 and ERC1155 encrypted currency NFT and gaming assets in one place. AlphaSwap will provide a foundry and trading market for NFT and a production, storage and trading venue for users worldwide.

- **No need to leave the application to exchange encrypted currency**

Transactions within the application are driven by smart contracts that automatically pull the liquidity of different transactions into "bridge" and "conversion" smart contracts for user interaction.

- **Tracking Prices in Applications**

Alpha Wallet connects smart contracts to the outside world by using Chainlink Price Feeds. Chainlink Price Feeds is the fastest way to link smart contracts to the real market price of an asset. They enable smart contracts to retrieve the latest price of an asset in a single call. Typically, smart contracts require real-time action on asset prices. This is especially true in DeFi. Synthetix, for example, uses Price Feeds to price its derivatives platforms. Lending platforms such as AAVE use Price Feeds to secure the total value of collateral.

- **Protecting your password from hackers and fraudsters.**

6.2 Alpha transaction (bridge and conversion)

Alpha Bridge is an interconnected link that enables interaction between several block chain systems. Bridge enables any data, information, tokens to be transferred between different block chain platforms. Alpha Bridge supports cross-link interchange between Ethereum and BSC and will realize more cross-link interchange between public chains in the future.

- **non-custodial conversion**

Conversion allows users to easily exchange one encrypted currency for another without having to switch to a master wallet while all assets are still in their native chain and under your control. The conversion function is instantaneous and uses a non-custodial exchange and does not hold your funds like a custodial exchange. In a very short period of time, the encrypted currency is automatically returned to your hands.

- **Transaction cost**

Bridge: Users can exchange their tokens from one chain to another through the cross-bridge function at zero transaction cost.

Conversion: Users can convert his or her token into a selected token or LP pairs at one click (conversion fee of 0.5).

6.3 ALP Governance Token

ALP is a BEP20 token standard that functions as a platform token for the AlphaSwap ecosystem. ALP uses the BEP20 as a developer friendly token standard, allowing anyone to strike a replaceable digital currency or token at the top of the coin safe smart chain. ALP is designed to have a total limited supply of 10 billion. It will act as:

A governance token that gives the holder the right to vote and DAO governance in the AlphaSwap ecosystem.



6.4 Mining and staking pool

- Muti-chain LPs

Instant access to a variety of liquidity sources, including Global Liquidity Provider Multi-Chain DEXes and Market Makers. AlphaSwap aggregates the deconcentrated exchange liquidity across various block chains. Aggregate trading quotes from block chain liquidity sources such as Ethernet, Polygon BSC, PolkadotArbitrumHeco, etc.

- Top select LPs

With the aggregator strategy deployed in the Alpha Smart Contract, users can participate in the Top Select LP with a simple click on the platform. Except for these successful strategies, all transactions and combinations are visible to users for a truly open, collaborative and transparent transaction experience.

- Automatic compound mechanism

Automatic compound enables users to automatically re-hold tokens or liquidity pairs without having to manually perform repetitive actions. Enjoy the results and let smart contracts work for you. With the implementation of this strategy, APY will grow higher.

- Fixed term staking

Fixed term staking is a pledge in which the incentivess are fixed within a specific time frame to maximize profits.

- NFT staking

Alpha uses the ERC-721 standard token as a liquidity mining program on the intelligent chain of monetary security. It is a complicated DeFi pledge model. The staking of NFT is not attached to the wallet address. The automatic staking function authenticates the user through the ERC721 token holder and is only allocated to the owners of the NFT.

6.5 NFT market

An open infrastructure that enables all types of artwork to be monetized and ownership is secured through the issuance and exchange of NFT. Artists can issue NFT for their digital assets and list on the NFT market. The platform will launch a shared award system Alpha Series as the beginning of the NFT market. Purchase Alpha Series NFT and obtain privileges that only Alpha Series NFT owners are entitled to.

NFTs has emerged among artists and creators to encourage creators to transform traditional art sales into technologically advanced art. Buyers, fans and collectors can easily search for outstanding works.

6.6 Contract transaction

Compared with Swap Token exchange, the decentralized derivatives are a larger DeFi blue ocean, with a market capacity of 1 trillion USD and a wider range of products. The products cover a wide range and can be easily connected with real financial products. It is an upgraded version of ordinary DeFi derivatives. The market turnover is expected to step up to 10 million, 10 million and 1 billion USD. AlphaSwap uses CF-PMM (constant function-active market maker model) and CC-LPP (constant currency liquidity agreement) to provide millisecond trading experience and depth with up to 150 times leverage to meet the needs of a wide range of traders.

6.7 Quantitative strategy

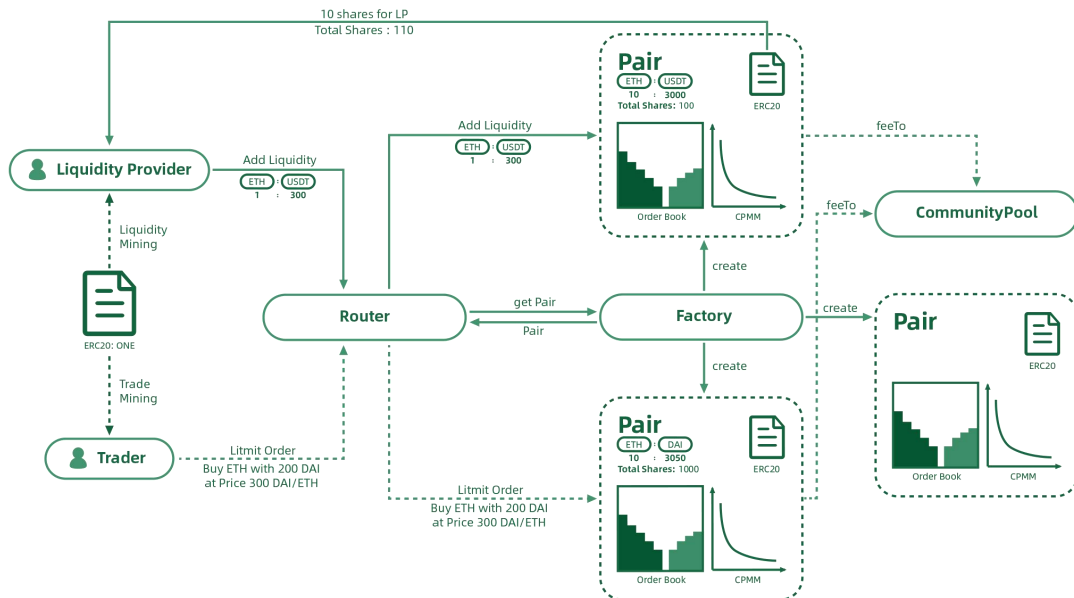
AlphaSwap cooperates with world-renowned quantitative institutions to develop AI intelligent quantitative system, which contains various effective strategies including grid, CAT, Martin, multi-factor, hedging, high frequency, price difference, cross-chain arbitrage, etc. Members of the platform can use and open the VIP area free of charge, allowing members to conduct transactions independently to meet the needs of transaction enthusiasts.

7、Structuring

The AlphaSwap deployed on each block chain platform contains a series of pools, which are referred to as trade-to-Pair pair contracts on exchanges. Each Pair contract has three components:

- 1) Chain Order Book: Stores limit order transactions that cannot be completed;
- 2) CPMM model: Constant product market maker, which provides liquidity for the Pair contract;
- 3) Equity token: A token that records the interest of liquidity providers.

The AlphaSwap architecture on the BSC is shown in the following figure, where the equity token is a token that meets the BEP20 standard.



When a liquidity provider injects a digital asset into the pool of money in a Pair contract, the Pair contract casts a new equity token for the liquidity provider based on the current total pool of money, the total amount of equity tokens issued and the amount of money injected this time. When the liquidity provider wishes to retrieve its own funds, the Pair contract returns a corresponding proportion of the funds in the pool to the liquidity provider and destroys the corresponding equity tokens in proportion to the number of equity tokens provided and the total amount of equity tokens.

Each Pair contract is created by the Factory contract on demand, and AlphaSwap also provides a routing Router contract as a bridge between the user and the Pair contract for user convenience. All user transactions are sent to the Router contract. Whenever a user funds a new transaction Pair, the Router contract instructs the Factory contract to generate a new Pair contract for that transaction pair.

8、 Sources of revenue

8.1 Conversion cost

The Swap conversion function will charge a fixed sliding point and a fee of 0.5.

8.2 Mining incentives

The Alpha Pool is formed by the best choice of multiple Dex and multi-chain liquidity pools. Mining incentives for each block (175SPT/ block) are allocated to all mines based on the multiplier factor for each pool.

8.3 Staking incentives

The staking incentives provide users with the opportunity to pledge ALP and earn more ALP. The staking incentives comes from each block award. The flexible staking is 75SPT/ block and the fixed staking is 10SPT/ block as the holder of the ALP token. There will be no cancellation or service fee when staking, release and claim are made.

8.4 Contract handling fee

The contract transaction is frequent, and the handling fee after the bar is enlarged is considerable, i.e. one thousandth of the individual handling fee is distributed to the ALP holder and the LP in proportion. Among them, there are percentage cases of repurchase and destruction of the token ALP.

8.5 NFT Market exchange fee

Transaction fees for any successful transactions in the NFT market will also be destroyed.

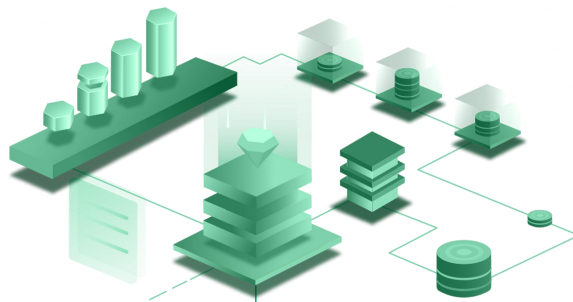
8.6 NFT staking

The NFT is becoming a new asset class of concern in the field of encrypted money. Each NFT being sold issued by the platform can be pledged into the NFT special pool to tap ALP awards.

8.7 Quantitative strategy

On-line quantification of the strategy segment of the platform can increase transaction fees, and strategic usage fees can be collected after the VIP function is gradually opened in the later stage. It is a large revenue segment on a monthly or annual basis.

9、General Plan



Q1 2022

- Organize the development of AlphaSwap, set the business model and develop the economic design of tokens;
- Introduce BETA test version and complete the angel organizational investment.

Q3 2022

- Complete IDO;
- Launch AlphaSwap main network, unlock the currency trading, liquidity mining and staking sectors;
- Issue the platform token ALP to Pancakeswap and its own platform, and go online to the world-renowned centralized exchange as appropriate;

Q2 2022

- Recruit 50LP seats globally, of which 15 seats were obtained by outstanding contributors of Alpha quantification platform, and the other 35 seats were recruited globally with conditions;
- Issue platform token ALP and complete private placement;

Q4 2022

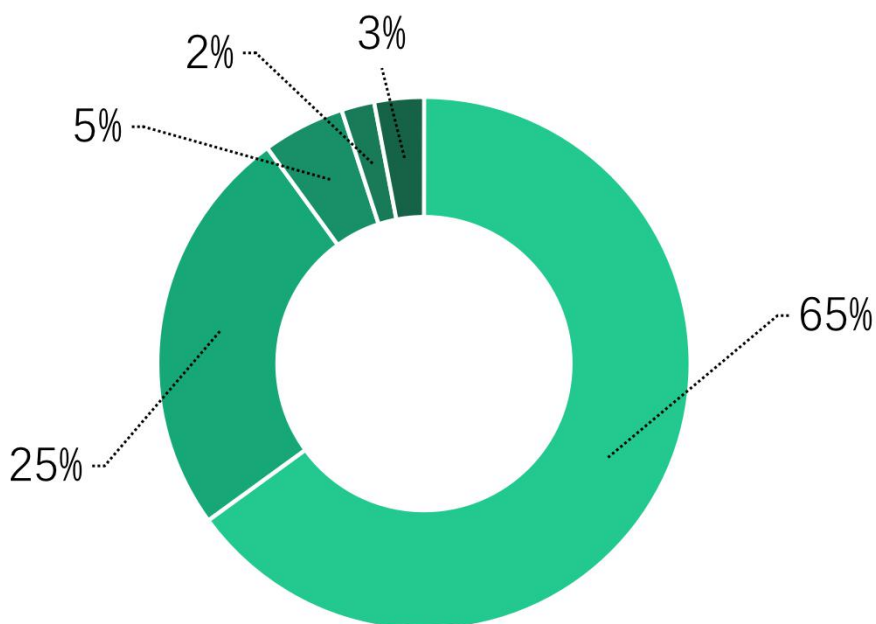
- Unlock NFT casting and trading functions;
- Launch AlphaWallet beta;
- Launch quantitative plate strategy products.

10、ALP issue economic model

The total amount is 10 billion, distributed as follows :

- **65%** : 6.5 billion are used for trading mining.
- **25%** : 2.5 billion is allocated to Partner LP partners with a total of 50 seats, which will be locked for 6 months.
- **5%** : 50 million will be invested in the ALP/USDT trading pool with the initial price of 0.00003 USDT.
- **2%** : 20 million for marketing airdrops
- **3%** : 30 million for channels, media, cooperation and brands.

10 Billion In Total



Handling fee :

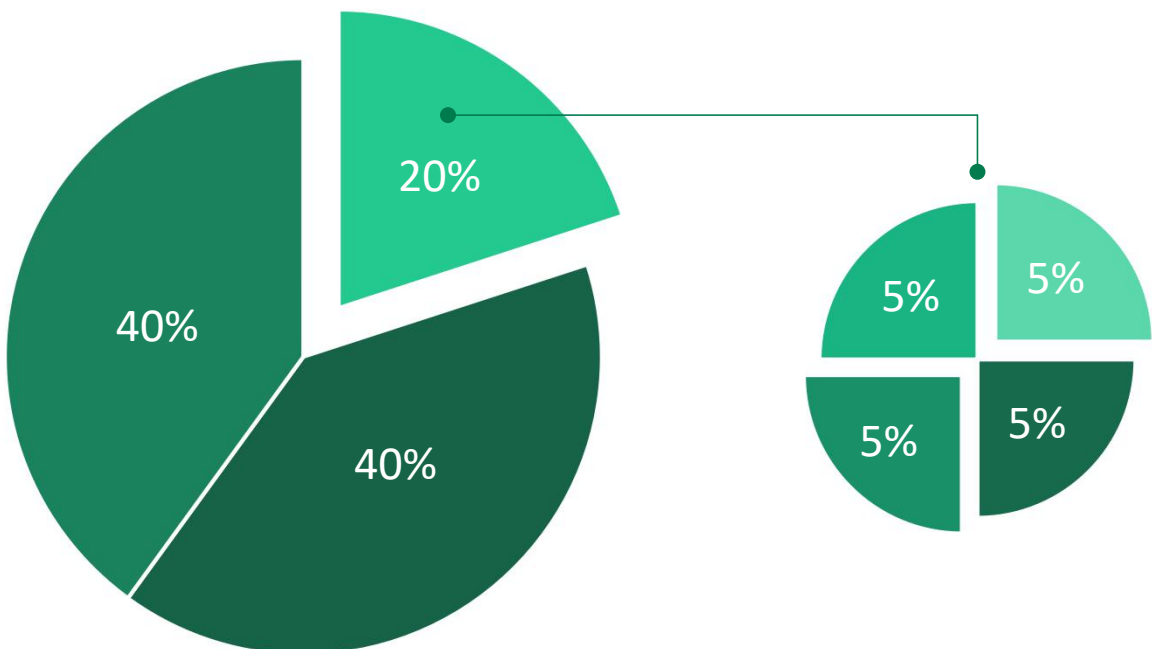
Transaction fee is 0.5%, contract 0.1%, NFT, quantitative strategy revenue :

40% belongs to the platform

40% repurchase and destruction (put into trading pool)

20% for ecological incentive expenses, including :

- 5% into the ALP/USDT trading pool for trading
- 5% for Partner LP dividends
- 5% for repurchase destruction
- 5% for PMM dividends



PMM market making :

Users can subscribe for the PMM market-making qualification, starting from 1,000 U. They are entitled to seven days' dividend after purchase. Dividend interests are allocated based on the proportion of funds. The market-making funds will be used for the platform market-making and 10 (to be determined) equal parts will be drawn out for each round to be put into the two pools with long and short contracts.

11、DISCLAIMER

11.1 Restrictions on Distribution and Dissemination

Please read this disclaimer carefully. If you have any questions, please consult your legal, financial, tax or other professional advisor.

This document is a white paper describing the current situation and future development of the AlphaSwap ecosystem. This document is for reference only and is not a statement of future intent. Unless otherwise specified, the products and innovations described herein are currently under development and have not yet been deployed. To the extent permitted by law, AlphaSwap makes no warranties or representations regarding the successful development or implementation of these technologies and innovations, or the achievement of any other activities identified in the documents, and disclaims any warranties implied by law or otherwise. No one is entitled to rely on the content of this document or any inference drawn therefrom, including any interaction with AlphaSwap or the technology referred to herein. The Platform shall not be liable to any person for any kind of loss or damage (whether foreseeable or not) that may result from any information and opinions contained in this document relating to the Platform or the ALP ecosystem, or from any information provided in connection with any further enquiries, notwithstanding any negligence, default or lack of care.

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Any agreement between Distributor and you as a purchaser, as well as any agreement relating to the sale and purchase of ALP (as mentioned in this white paper) are governed solely by separate documents which set out the terms and conditions of the agreement ("T&C"). In the event of any inconsistency between the terms and conditions and this White Paper, the former shall prevail.

No regulatory authority has reviewed or approved any of the information listed in this white paper. No such action has been or will be taken in accordance with the laws, regulatory requirements or rules of any jurisdiction. The publication, distribution or dissemination of this White Paper does not imply compliance with applicable laws, regulatory requirements or rules. There are risks and uncertainties associated with the AlphaSwap network and/or distributors and their respective businesses and operations and the Alpha Wallet, as mentioned in this white paper.

11.2 Risks and Uncertainties

Potential purchasers of ALP (as described in this white paper) should carefully consider and evaluate all risks and uncertainties associated with the platform, distributors, merchants and their respective businesses and operations. If any such risks and uncertainties develop into actual events, the business, financial position, results of operations and prospects of AlphaSwap or the Distributor may be materially and adversely affected, in which case you may lose all or part of the value of ALP.