NEOPIN Token

NEOPIN
VISION PAPER [EN]

The Vision Paper of NEOPIN Platform

Version 1.2

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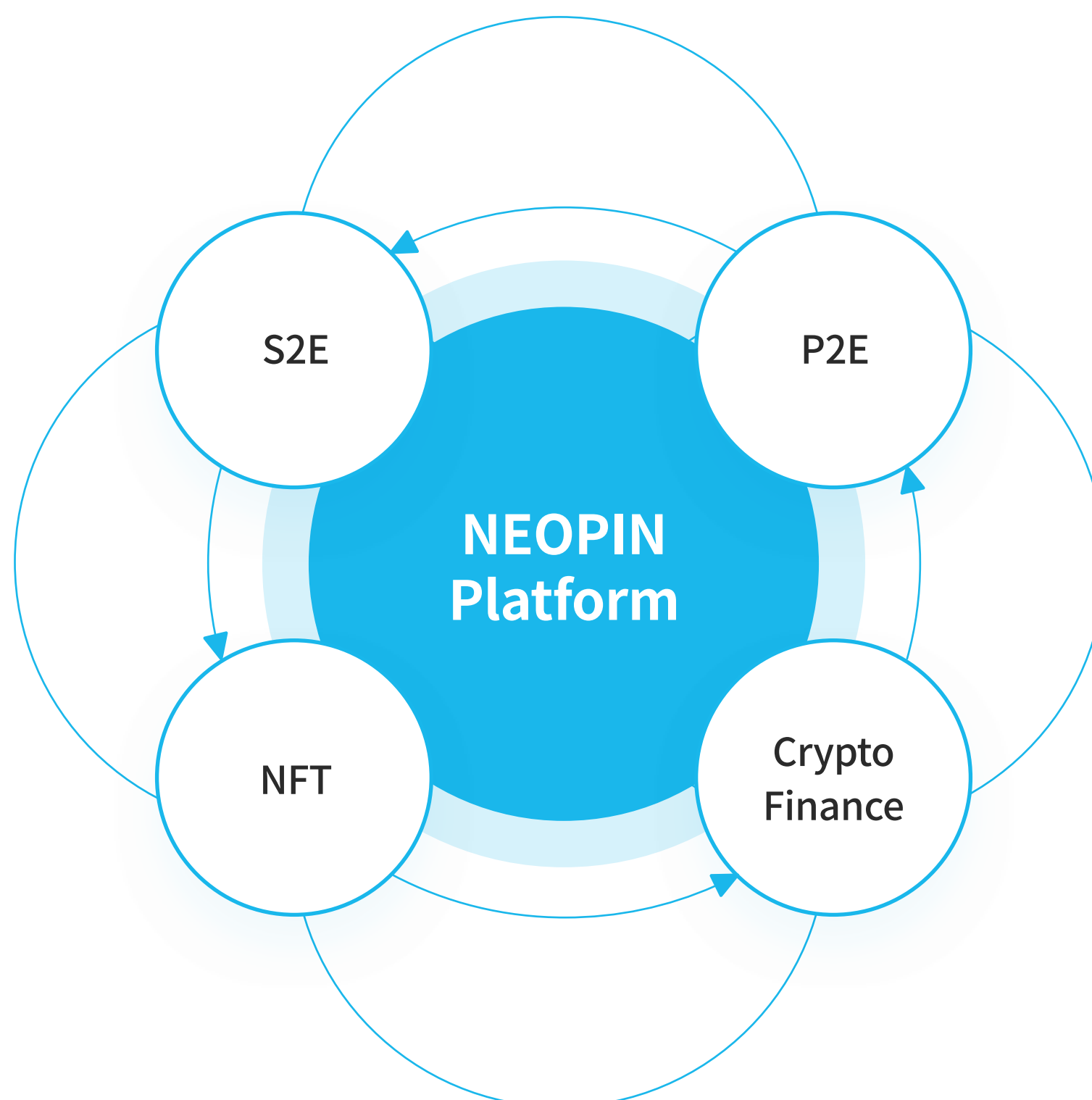
What is
a NEOPIN Vision Paper?

 NEOPIN Vision Paper aims to describe NEOPIN in an easy-to-understand manner. NEOPIN is proposing a better benefit than any other conventional projects and/or services to the platform participant, users and members of the community.

1. NEOPIN Vision

Pin it to Infinity and Beyond,
NEOPIN Crypto Platform

 The core vision of NEOPIN is "Connection" and "Expansion".
 NEOPIN is a platform that provides not only "financial services for virtual assets", but it also 'connect' services of NFT, P2E (Play to Earn) and S2E (Service to Earn) at once. Users can experience various services with a single account as NEOPIN is a "One-Stop" service.
 NEOPIN supports various virtual assets and chains. NEOPIN is focusing on "expansion" so that it can be used in reality beyond the virtual world through business partnerships with various corporations.

1. Financial services for virtual assets provide a one-stop service for users to conveniently use the service. It allows users to use and participate in various financial services across multiple chains.
2. The NFT service supports users to trade, sell, and collect NFTs, and it also supports NFT to be used in games.
3. The P2E (Play to Earn) service supports to earn, utilize, and exchange tokens through entertainment services provided by NEOPIN.
4. The S2E (Service to Earn) service currently developing and operating real and virtual services combining with virtual assets. Thus, users can utilize tokens through NEOPIN.

The core value of NEOPIN is "user-friendly".

NEOPIN aims to provide convenient service for all and in the long term, multi-languages environment as well for global users. In addition, to activate NEOPIN, the NPT token economy is designed to compensate according to one's contribution. We plan to establish a sustainable token economy and distribute a large portion of fees to users to be a user-centric ecosystem.

2. NEOPIN Service

NEOPIN is a platform that provides not only "financial services for virtual assets", but also other services including NFT, P2E (Play to Earn) and S2E (Service to Earn) at once. In NEOPIN, users can experience a one-stop service that allows them to use all services with a single account.
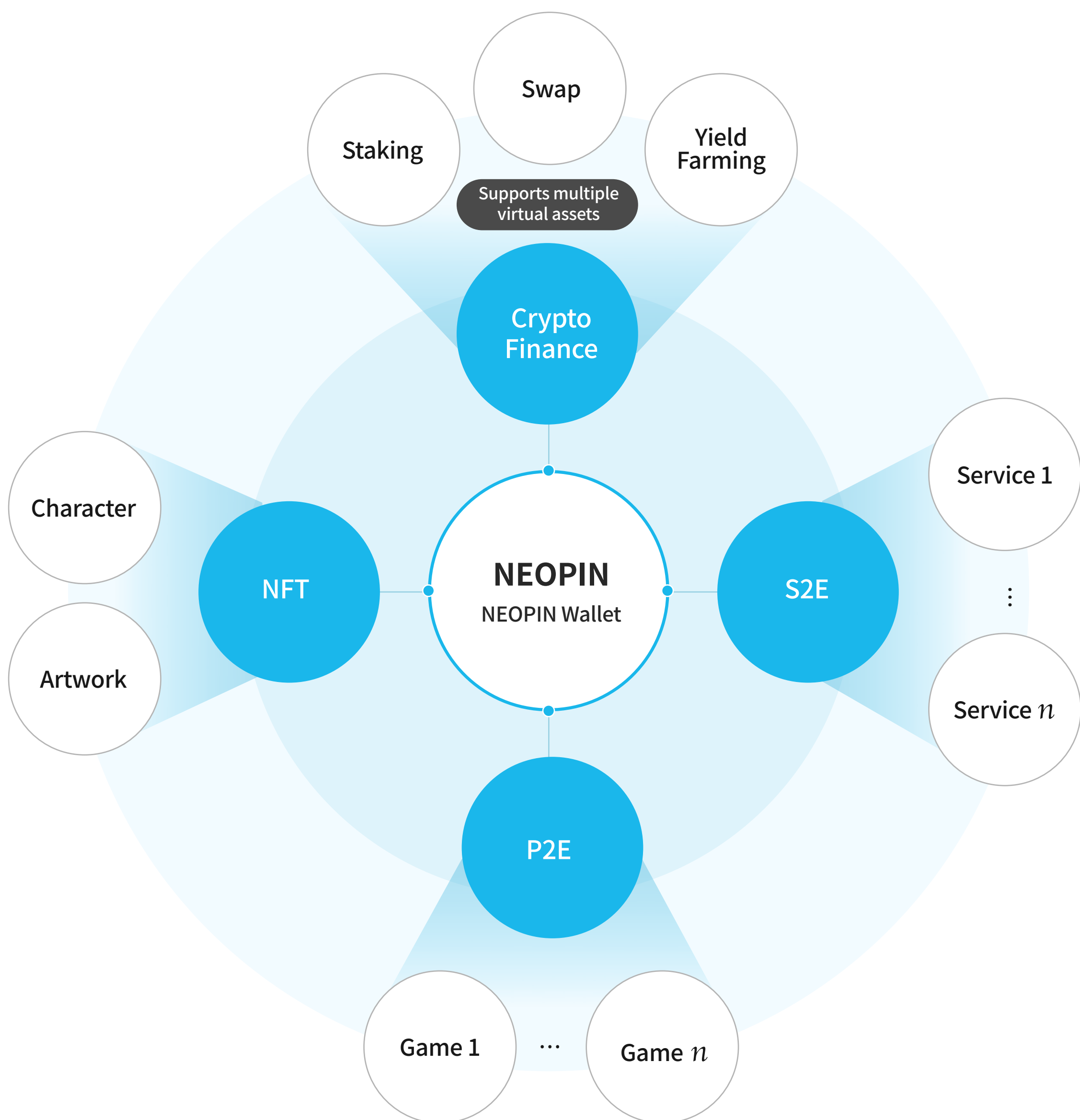
NEOPIN's primary services are Staking, Swap, Yield Farming, and Lockup. As our service expands, NFT, P2E (Play to Earn), S2E (Service to Earn), etc. will be provided through various types of cryptocurrency financial products and entertainment services. All of these NEOPIN services allow users to earn or use NPT (NEOPIN token) as rewards.

2.1 Wallet

**NEOPIN is a private wallet with self-developed enhanced security.**

NEOPIN Wallet is a differentiated private wallet from an ordinary wallet that can only be used by the user him/herself. The wallet can be restored only with the mnemonic initially issued for a user, when it was created. Even when the mnemonic is exposed to others, the wallet is only available to the initial user, which keeps virtual assets safe.

NEOPIN provides its self-developed wallet with multiple virtual assets.

NEOPIN will take the role of an intermediary to keep users' assets safe and connect services of NEOPIN partners, as "connection" and "expansion" are the core visions of NEOPIN. Most of the investment systems, such as pool deposit, swap, and staking can be used in one place, and assets from P2E (Play to Earn) and S2E (Service to Earn) of various services of our partners can be easily exchanged and expanded into other assets.

2.2 Supporting Multi Virtual Assets

NEOPIN will support various chains, starting with the popular major chains such as Ethereum (ERC-20), Klaytn (KIP-7), and Tron (TRC-20). NEOPIN will expand to supporting stable coins such as Tether (USDT), USD Coin (USDC), etc., which are designed to minimize fluctuations in virtual assets, so they can be used as an investment means in virtual assets. We are planning to cooperate with various partners as many chains can be used in various financial services along with the NEOPIN wallet.
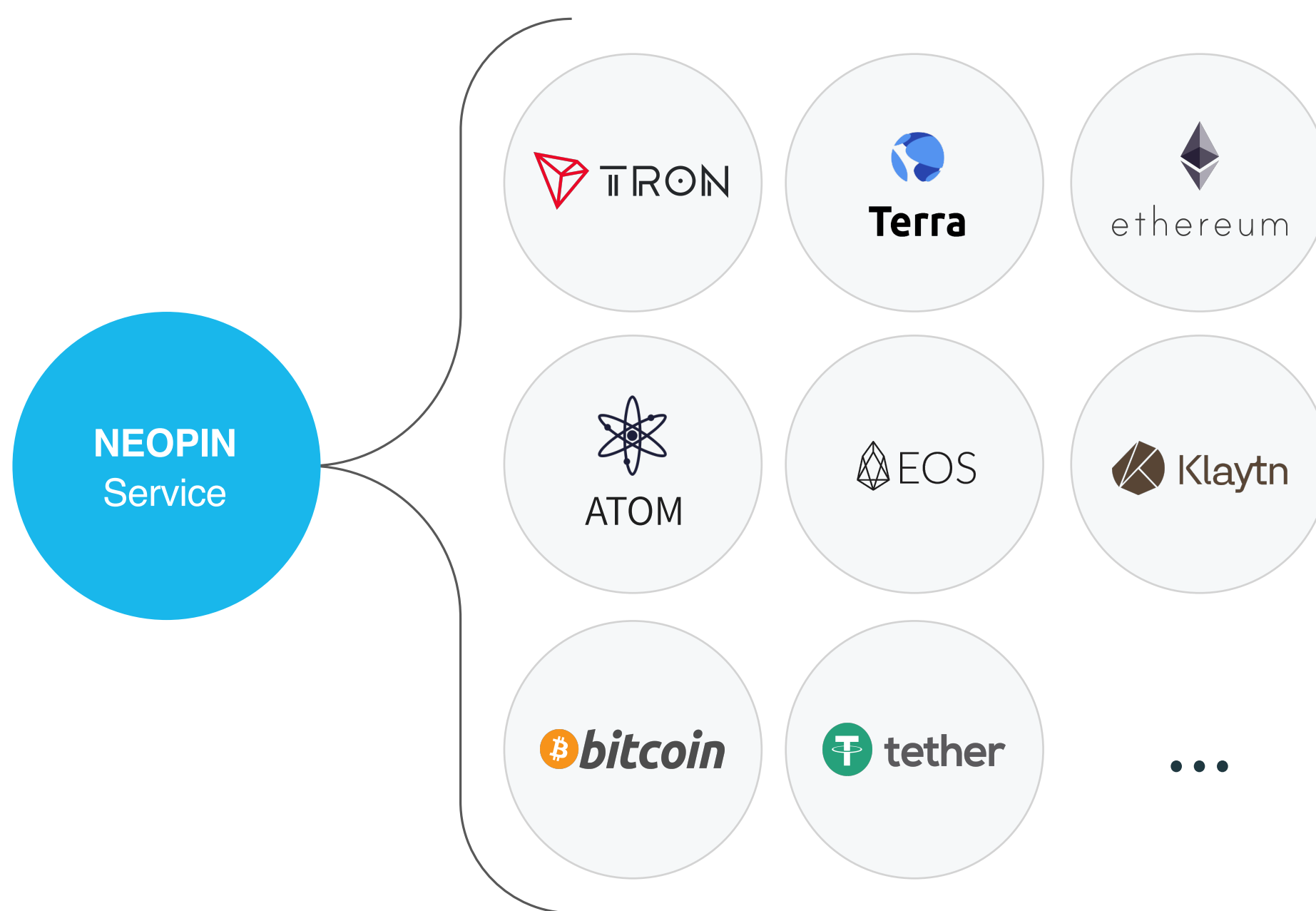
2.3 Staking

 The NEOPIN staking service is based on the algorithms of PoS(Proof of Stake) and DPoS(Delegated Proof of Stake), which serve the blockchain network and provide rewards to users. This allows users to indirectly contribute to the formation of the price of virtual assets in the blockchain.

✦ **Paying off Staking reward**

 Staking rewards are determined according to the set interest rate of each chain and proportional to the amount delegated, and accumulated staking reward is claimed periodically either automatically or upon the delegator's claim request.

 In NPT token Economy, users can participate in the NEOPIN ecosystem by depositing their own virtual assets into staking, and they will receive NPT service contribution rewards based on their contribution in addition to the staking rewards.
For instance, if a user deposits 100,000 TRX into staking, the user claims about 18.35 TRX daily as a reward from an annual staking interest rate of 6.7%. Also additional NPT can be rewarded for contributing to the NEOPIN ecosystem.

2.4 Pool Deposit

When a user deposits virtual assets for a certain period of time in a pool provided by NEOPIN, the user can earn stable interest, which is similar to the bank's system. In order to increase opportunities of a user's profit and trust, NEOPIN will provide various services with specialized investment corporations as partners.

2.5 Swap

Swap provided by NEOPIN applies a strictly verified protocol so that users can exchange tokens (coins) quickly at any time. The LP(Liquidity Provider) who provides liquidity in swap, continuously earns rewards with NPT allocated to the pool by the share rate and fees incurred from the swap.

The method of pricing in swap is determined in the market by AMM (Automated Market Maker), and details are as follows.

✦ **AMM (Automated Market Maker)**

AMM
(Automated Market Maker)

$$X \times Y = K$$
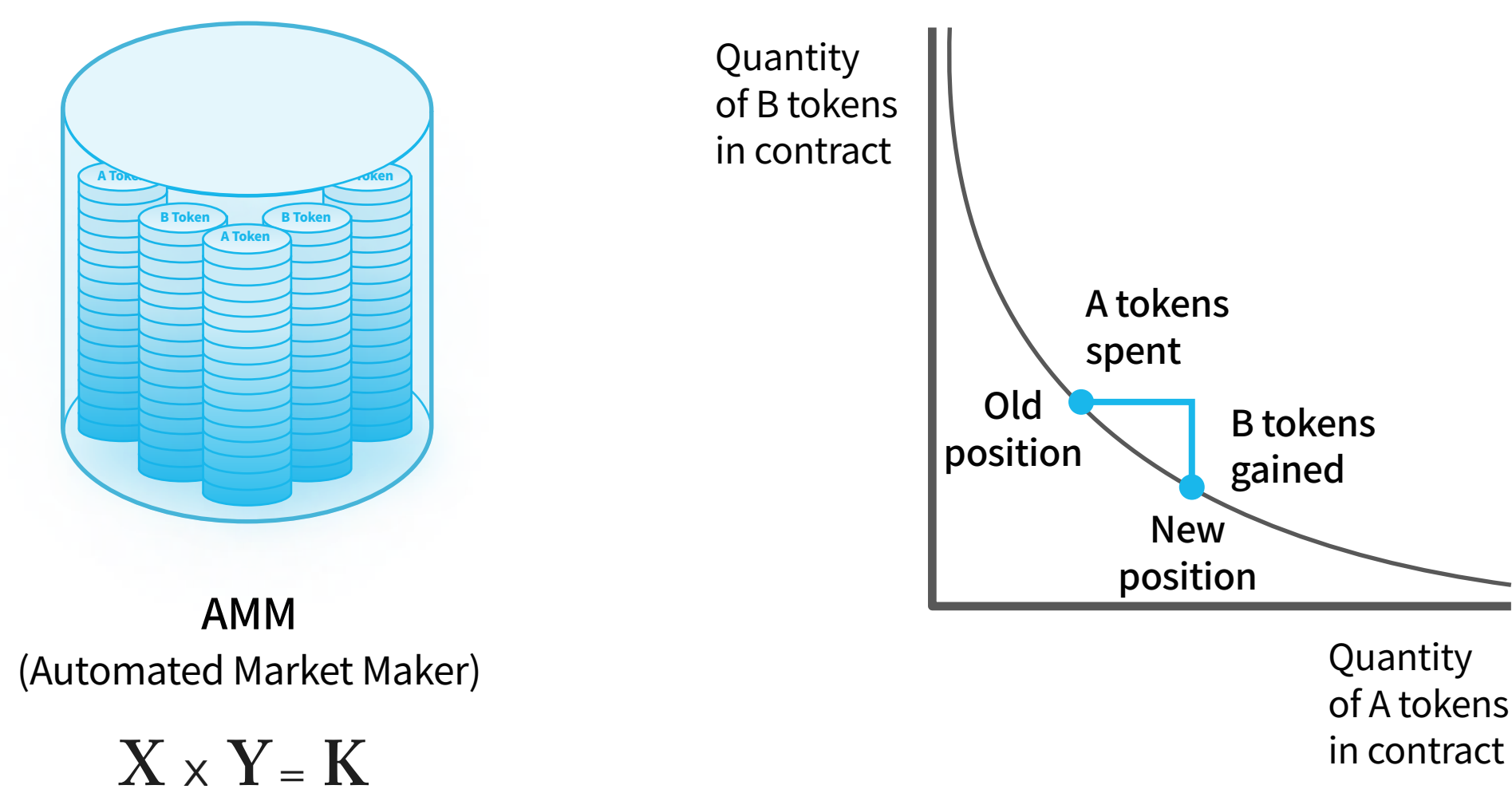
AMM (Automated Market Maker) is a type of decentralized exchange protocol that sets a price of an asset based on a mathematical formula. Instead of using the order book and order matching system like a traditional exchange, the price of an asset is calculated using a mathematical formula based on a pricing algorithm.

NEOPIN Swap uses X Y = K formula. X refers to the number of a token(coin) in the liquidity pool. Y refers to the number of the other token (coin). K is a constant number referring to the total liquidity in the pool and unless additional tokens (coins) are supplied or withdrawn from the pool, it stays the same.

Automated Market Maker (AMM) works similar to the order book in any exchange where the assets are paired, for instance ETH/USDC. However, a transaction counterpart is not necessary, and users secure a token (coin) liquidity pool and determine the price according to the smart contract and AMM, which "develop" the market.

◆ Slippage

Slippage refers to an additional cost incurred by a lack of liquidity and the difference between the expected price of an exchange and the price at which the exchange is executed. AMM (Automated Market Maker) cannot completely avoid slippage as it provides an environment where transactions are possible at any time. However, setting up an exchange period through contemplating fees and slippage tolerance initially can minimize a loss or earn a profit.

2.6 Yield Farming
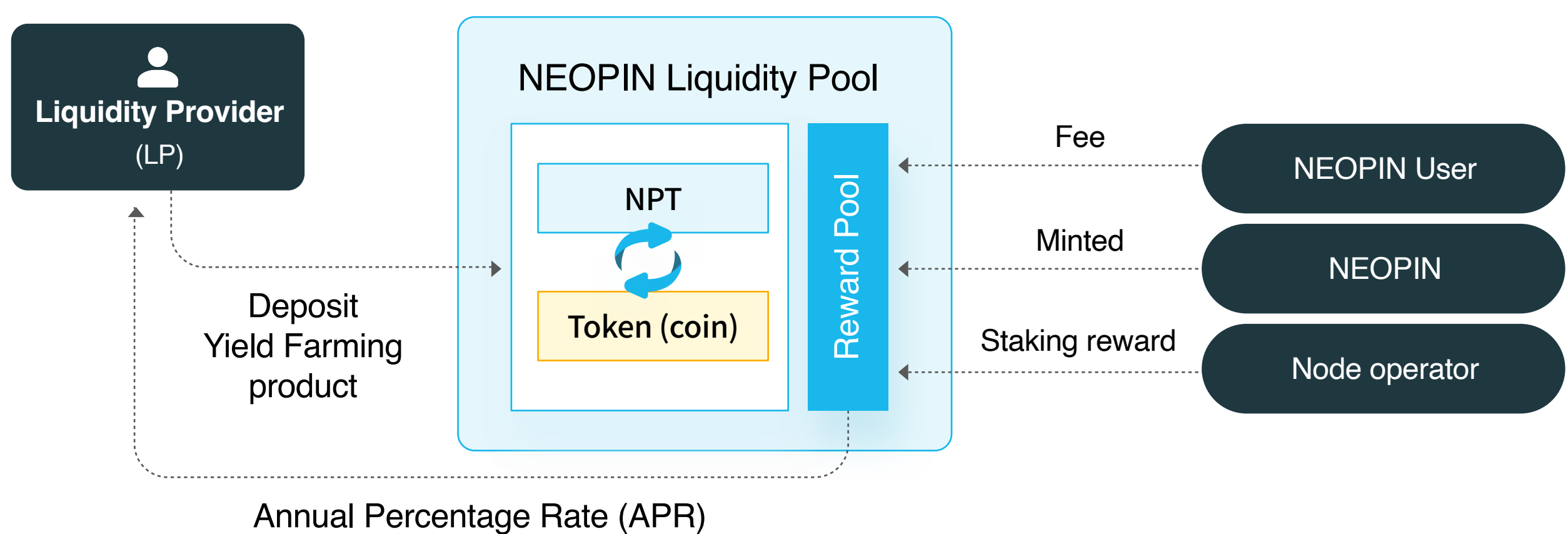
Yield Farming is a product in which users supply liquidity to a Liquidity Pool and claim reward for it. A user who supplies liquidity to a liquidity pool is a Liquidity Provider. Any NEOPIN user can become a liquidity provider and receive two rewards.

First of all, it is a reward from Liquidity Mining. A user deposits virtual assets into a liquidity pool to form the liquidity pool, and NEOPIN starts mining to provide rewards for the pool. The rewards are distributed to the user by his/her rate of Total Value Locked (TVL).

Second, the user can swap a token (coin) in a NEOPIN liquidity pool and pays a certain amount of fee when using it. The fee paid by the user will be provided to the LP as a reward. The LP receives rewards by the share rate in the liquidity pool as mentioned above. The two rewards are combined to determine the interest rate incurred when depositing a yield farm and are offered as an annual percentage rate (APR).

✦ Occurance of Impermanent Loss

Impermanent loss occurs when the price of assets deposited changes after liquidity is provided to a liquidity pool. If there is a difference in the price of a token (coin) deposited and a token (coin) in the market, impermanent loss occurs. Once the difference in price of a token (coin) increases, there is a risk of increasing the volume of impermanent loss.

Impermanent loss occurs due to the price determination formula AMMs. Due to the nature of AMM, the transaction rate of tokens (coins) cannot be automatically adjusted. Therefore, a user must purchase undervalued assets or sell overvalued assets until the price formed in AMM equals the price of the market.

For a liquidity provider, the loss can sometimes be larger than the sum of the fee gained from the pool and the token (coin) rewards. When the price of the token (coin) in AMM converges to the market value, the loss disappears, resulting in an impermanent loss.

2.7 Play to Earn (P2E)

P2E refers to applying NFT into a game. Earning assets or NFT by playing the game can be utilized for a character in the game or traded in the NFT marketplace to earn profit.

NEOPIN provides a variety of games through business partnership with game corporations, and is used as a medium for exchanging and connecting coins in each game ecosystem with virtual assets.

NEOPIN provides a game platform like Steam that allows users to purchase or play a variety of games, making it more convenient for them.

For instance, items and coins earned by playing a game can be exchanged into virtual assets or buying NFT items in the game. It could also be used to exchange items and coins in other services or games in the NEOPIN ecosystem.

2.8 Service to Earn (S2E)

Similar to P2E, S2E refers to the activity of reusing or exchanging virtual assets acquired from non-game services. For instance, if a user uses a particular service, the user will be rewarded with items and coins that can be used in the service.

NEOPIN supports existing offline or online partners to adopt blockchain, and NEOPIN will provide various services for NEOPIN users for benefits.

2.9 NFT(Non-Fungible Token)

Fungible Tokens (FT) are replaceable, in other words they are mutually interchangeable with other tokens. For example, it can represent anything from cryptocurrency such as Bitcoin, coins used in video games, crude oil, or gold to tokenized versions of real assets.

Non-Fungible Token(NFT) is unique and cannot be mutually interchanged. Digital art pieces made by users, car registrations, or game characters are examples of NFT. These assets are unique and cannot be exchanged directly.

NEOPIN provides a NFT exchange and marketplace for partners to sell or issue characters, items, tokens, etc. used in P2E or S2E as NFT. Users can purchase NFTs for the services or trade NFTs from P2E or S2E through the NFT exchange and marketplace.
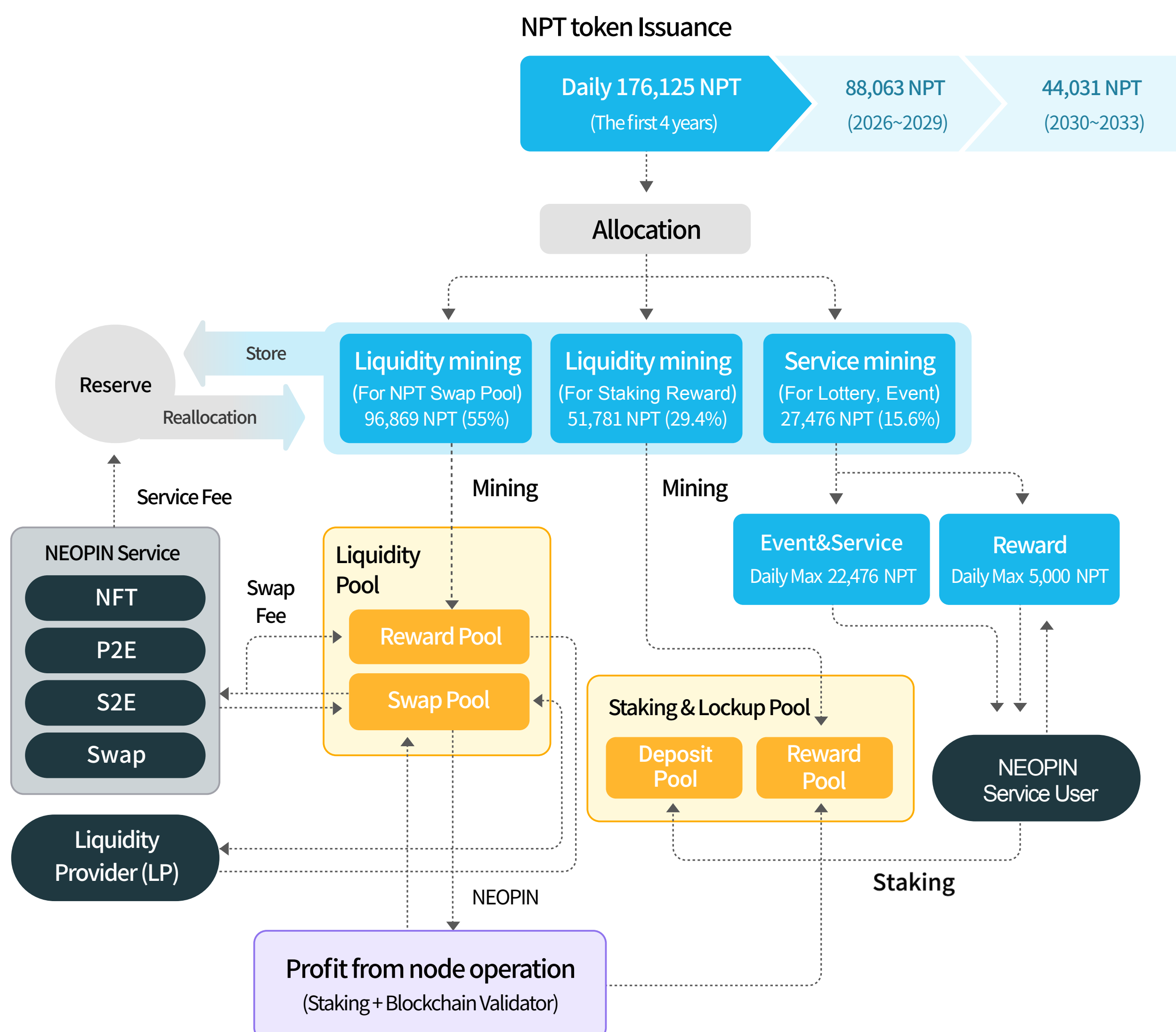
3. NPT Economy

The NPT economy connects various cryptocurrency financial services with P2E, S2E, NFT, etc. The service users and users who provide liquidity to the service exchange value while benefiting from each other through NPT. In other words, anyone can supply virtual assets or NPT into a liquidity pool through NEOPIN, and a user can contribute to increasing the value of the NEOPIN ecosystem and NPT through fees generated in swap transactions.

3.1 NPT Economy

Within NEOPIN ecosystem, NPT acts as a major economic medium for exchange or rewards in using various services. NPT Economy clearly defines the contribution of participants to the ecosystem, and aims to operate with the essential goal of providing relevant rewards.

NPT token Issuance

| Daily 176,125 NPT (The first 4 years) | 88,063 NPT (2026~2029) | 44,031 NPT (2030~2033) |

Allocation

Reserve — Store / Reallocation

Liquidity mining (For NPT Swap Pool) 96,869 NPT (55%)

Liquidity mining (For Staking Reward) 51,781 NPT (29.4%)

Service mining (For Lottery, Event) 27,476 NPT (15.6%)

Mining / Mining

Event&Service — Daily Max 22,476 NPT

Reward — Daily Max 5,000 NPT

NEOPIN Service: NFT, P2E, S2E, Swap

Service Fee / Swap Fee

Liquidity Pool: Reward Pool, Swap Pool

Staking & Lockup Pool: Deposit Pool, Reward Pool

NEOPIN Service User

Liquidity Provider (LP)

NEOPIN / Staking

Profit from node operation (Staking + Blockchain Validator)

3.1.1 Rewards for participation in the ecosystem

NPT builds and develops a systemic ecosystem to induce spontaneous participation from users. The NPT economy provides rewards based on the contribution of participants in the ecosystem, and the rate of rewards is adjusted by the contribution.

✦ Rewards for a Liquidity Provider

① Mining rewards is earned depending on the interest rate of Yield Farming.

② A liquidity provider is rewarded with fees generated from swap transactions by users.

③ In a NEOPIN service, a certain rate of the profit generated by the operation of a staking node is continuously exchanged in a liquidity pool, and the rewards generated from it are provided as additional profit.

✦ Rewards for NPT Lockup

① Rewards allocated to a lockup product are rewarded in proportion to the amount of the locked up NPT.

✦ Rewards for Staking

① Rewards are provided proportional to the amount delegated to a staking product.

② In a staking product, staking rewards and mining rewards according to the contribution to the ecosystem are provided.

✦ Rewards for events & services

① Rewards are provided for participating in an event to activate the NEOPIN service.

The amount of liquidity and service mining refer to the maximum amount provided as rewards for participation in the ecosystem. The amount of distribution is adjusted by the volume of a liquidity pool and the NEOPIN ecosystem.

The reason for adjusting the distributed amount of NPT is to maintain the value of NPT and allow users to continuously participate until the NEOPIN ecosystem is sufficiently expanded. The distributed amount of NPT will be disclosed periodically to ensure transparency and reliability of the NEOPIN project.

3.1.2 Maintaining the sustainable ecosystem

  NEOPIN must provide rewards for participation to motivate the contribution to the ecosystem and participation by users. If the amount of rewards available is exhausted and no ecosystem contribution rewards are provided, the motivation to participate in the NEOPIN ecosystem will be weakened, thus threatening the stability of a liquidity pool, which is the most significant component of the ecosystem, and it becomes impossible to maintain the ecosystem.
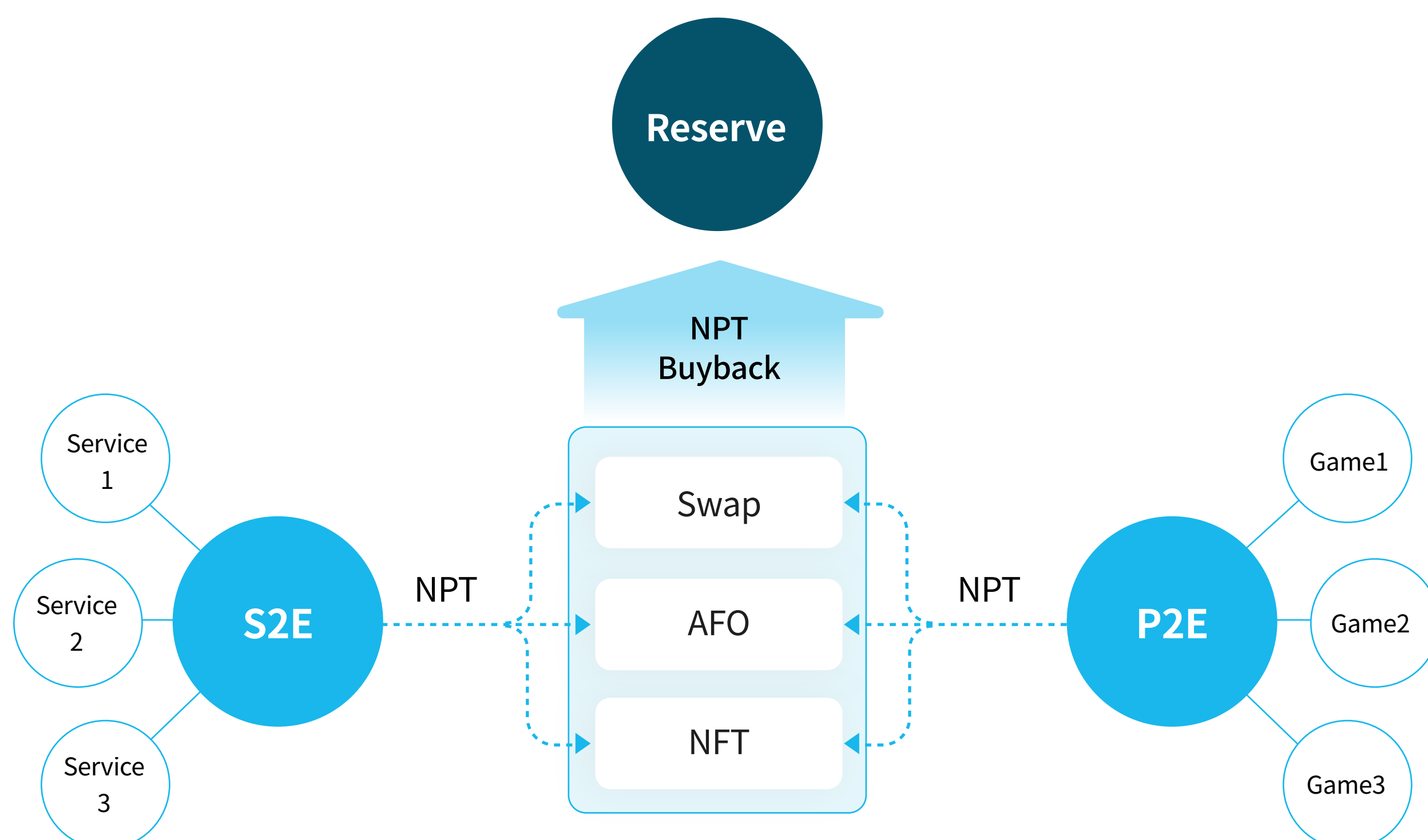
  To maintain a stable NPT economy, NEOPIN collects distributed NPT through S2E, P2E, swap, and NFT marketplace to maintain a stable circulation structure in the NEOPIN ecosystem.

- Expand swap by supporting various blockchain
- Increase NFT trading by expanding S2E/P2E services
- Buyback NPT by creating an initial liquidity pool
- Buyback from market with profit of NEOPIN

  The circular structure of the NEOPIN ecosystem will collect the distributed rewards based on various services for inducing user participation and striving to sustain the ecosystem.

3.2 Issuance and allocation plan

3.2.1 Issuance

A total of 1 billion NPT tokens will be issued, and it is designed in such a way that only a fractional amount of the total volume will become liquid in the market every month to enable a long-term operation.
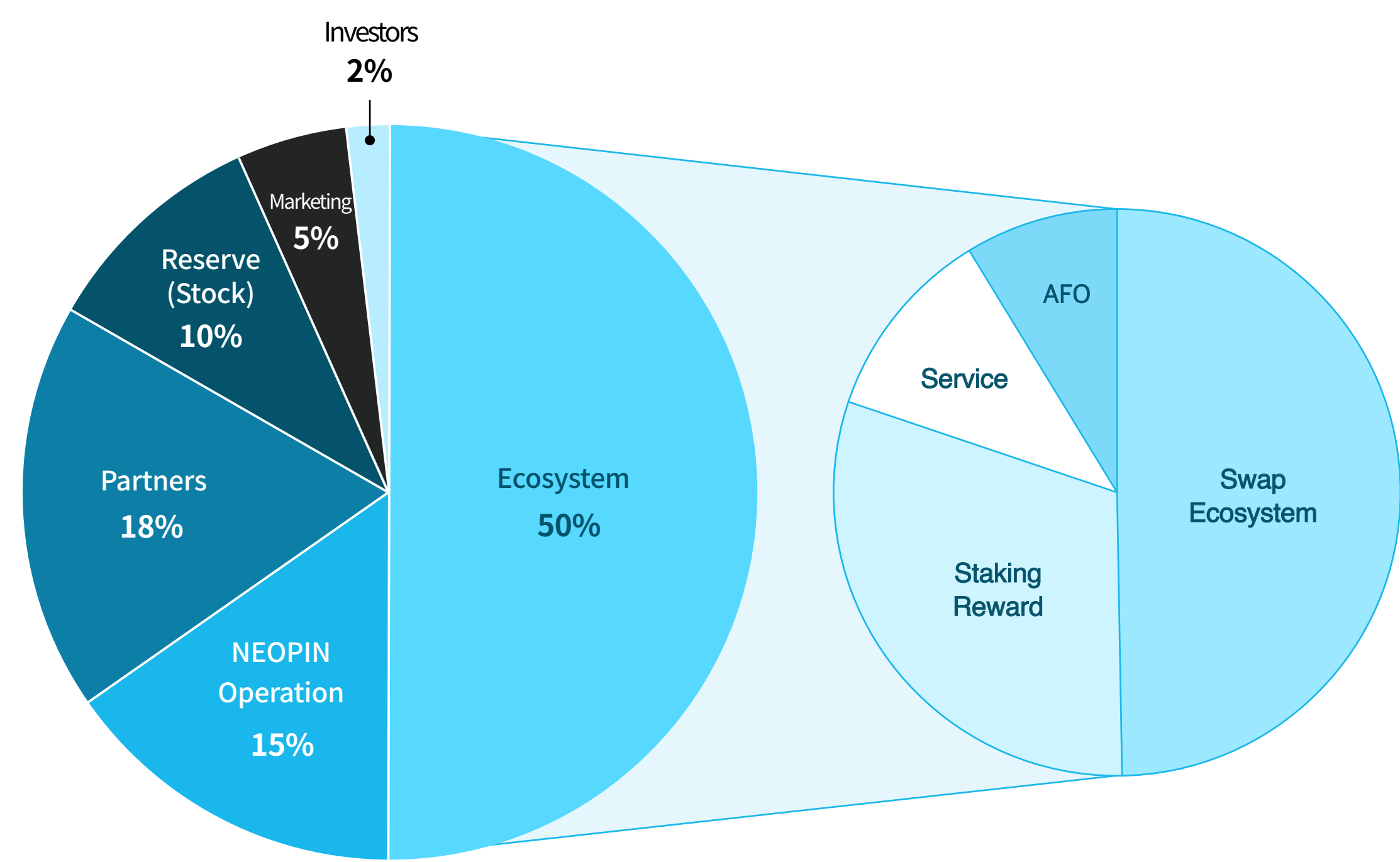
Category	Total (%)	Amount (NPT)
Ecosystem	50.0%	500,000,000
NEOPIN Operation	15.0%	150,000,000
Partners	18.0%	180,000,000
Reserve	10.0%	100,000,000
Marketing	5.0%	50,000,000
Investors	2.0%	20,000,000
Total	100%	1,000,000,000

The Ecosystem allotment will be used for the Initial liquidity pool formation, Staking rewards, Mining rewards, and Service rewards.

Category	Eco (%) (Eco volume)	Total (%) (Eco/Total volume)	Amount (NPT)
Swap Ecosystem	49.50%	24.75%	247,500,000
Staking Reward	26.46%	13.23%	132,300,000
Service	14.04%	7.02%	70,200,000
AFO (Airdrop Farm Offerings)	10.00%	5.00%	50,000,000
Total	**100%**	**50.0%**	**500,000,000**

[Ecosystem Allocation]

Operation allotment will be used as an incentive to the development team, and it will be distributed depending on their contribution to the ecosystem.

The partnership allotment will be used for expanding the use of NPT such as cooperating with NEOPIN's outside partners and bringing in new service products. The lockup period will vary according to the nature of each partnership.

The marketing allotment will be used as the marketing expense to expand the number of NEOPIN participants.

・ The token allocation plan in this vision paper could change according to the progress of the roadmap and changes in the technical development circumstances, and any other changes in the circumstances that could affect token issuance and its distribution, and when due to aforementioned reasons changes are required, project NEOPIN can notify of the changes in the details set forth in this vision paper with the reason through the webpage.

4. Roadmap

2021

4Q

Service Launching Preparation

- NEOPIN Service
- Partnership to expand P2E Game

2022

1Q

Official Release

- Official NEOPIN service launch
- Release NEOPIN staking and NPT lockup
- Offer AFO(Airdrop Farm Offering)
- Release P2E Game

2Q

Service Expansion Phase1

- Expand financial products (Swap pool, Staking)
- Release P2E Game
- DApp service

3Q

Service Expansion Phase2

- Open platform project launch
- Expand multiple chain service
- Partnership to contents platform
- Release P2E Game

4Q

Global Platform Connection

- Global partnership (exchange, platform)
- Partnership to contents platform
- DApp service

· Schedule presented in this document can change according to the changes in market circumstances.

5. Disclaimer

 Please note that this Vision Paper is provided with the sole purpose of conveying information regarding the project and contents of this vision paper is merely a guideline.

 This vision paper is not a security issuance plan, a suggestion for an investment nor purchase of securities, and it should not be comprehended as any form of investment advice suggestion or recommendation. Therefore, all participants should be fully aware that token(coin) is clearly not secured and that not only this vision paper suggests any issuance of securities, but also any token(coin) issued by project NEOPIN bears any dividends nor voting rights, hence shall avoid participating in the project with such purpose.

 Although project NEOPIN will continue to review legal aspects of this Vision paper, the legitimacy, non-infringement of 3rd-party's right, commercial value and accuracy of the vision paper itself is not guaranteed. Affiliates and participants of the NEOPIN project shall not accept any responsibility or liability to the content of this vision paper.

 Whatever decision that investors make, the NEOPIN project will not be responsible for any compensation · indemnification against any financial loss · damage · debt etc. occurred due to use of this vision paper and will not guarantee nor protect any future profit or loss resulting from trading token(coin) regarding this vision paper.

 We recommend all participants to consult legal, financial, tax and/or other experts and decide participation on one's own risk.

 The NEOPIN project currently does not guarantee any of the products and services that are planned to release in the future, and the roadmap suggestion in this paper is merely a reference material for the products and services. The project plans provided could always be changed due to its circumstances.

Token (coin) trading participants within NEOPIN project shall not provide·distribute, re-sale or transfer NEOPIN project token (coin) to citizen · individuals · corporatebody (hereafter "restricted participants") in countries where regulatory authority and policies prohibit or restrict digital token(coin) trading. Restricted participants cannot participate in token(coin) trading regarding the vision paper.

Restricted participants those who have provided · distributed · resold · transferred to the restricted participants are solely responsible for their intervention in the project.

Project NEOPIN can at all times, refuse token (coin) purchasing requests regarding this vision paper in case the individual information that provisional participant provided is insufficient, incorrect and/or misleading in any way or if that provisional participant could be deemed as 'restricted participant. Also, it is strictly restricted to participate in token (coin) trade with the proceeds of crime such as drug dealing or for the purpose of money laundering and terrorist financing.

In case a restricted participant purchases a token (coin) or purchase is made with illegal/unauthorized funds and purpose, the transaction can be banned and restricted immediately and such token (coin) purchase can be canceled or deemed invalid. It is the participant's sole responsibility to find out whether it is legitimate to purchase tokens (coin) in their geographic region and to find out if they could resell it to another buyer in a certain region. Thus, this vision paper does not provide any grounds on such decisions, and the NEOPIN project will not be responsible for any misjudged decisions.

This vision paper and related documents can be translated into Korean language and should there be any discrepancies between the Korean and English version, the English version shall prevail. Project NEOPIN's indemnity shall not be limited to above mentioned cases.