

 SMARTSWAP.EXCHANGE

&

SMART BRIDGE

One click slippage free cross chain swap
Whitepaper

V 2

Powered by  Atom
Foundation



100% cross-chain

No wraps, no side-chain, no light chain, no validators, 100% true one-click swap between all blockchains



100% value match

Receive new crypto equal to the exact value you sent with zero slippage



100% safe

No hot wallet, no deposits, no accounts, no custodial wallets



Up to 100% reimbursement

Fees and gas reimbursed fully with SMART



100% free license

Build your own SmartSwap at no cost or become an affiliate



100% anonymous

Complete privacy guard with no KYC / AML needed



100% scalable

No LP, no pools, true decentralized CEX and OTC liquidity bridge



100% decentralized

DAO approach with a closed system lacking any single point of failure privilege

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SmartSwap.Exchange is the world's first smart decentralized exchange (SDEX) which provides a SmartSwap, which is a one-click slippage-free cross-chain swaps and a SmartBridge as a slippage-free cross-chain swap without any click at all. The two solutions act as a decentralized layer with access to liquidity from all market participants including CEX (Centralize exchanges) and OTC (Over-the-counter) traders. The best way to think of SDEX is like PayPal creating a simple layer on top of banks to send and receive funds with one-click to cell phones and emails.

Smart.exchangeSwap is a decentralized organization managed by a DAO community and created early in the days of 2017 and filed as a patent during the year of 2018 when there was no DeFi awareness yet. It was too early to bring it into the market at the time because it was a solution to a problem that had not yet been created. Investors didn't even know what slippage was at the time. With AMM DEXs today, it's easier for us to accelerate the DeFi ecosystem by removing all the barriers and scale it for mass adoption

Smart.exchange has been organized under the umbrella of by Atom Foundation. Founded in 2020, the Atom Foundation (Atom) acquired bSWAP, the first Binance Smart Chain AMM and created dozens of decentralized solutions to solve liquidity issues on the blockchain, such as decentralized PDO platform, price support, reverse KYC, downside protection for NFTs, and many more DeFi projects.

SmartSwap allows users to swap tokens through Peer-to-Peer (P2P) trading technology built in a blockchain agnostic fashion. The trustless SmartSwap provides a way to swap assets and currencies without finding or knowing who the counterparty is and without sign-ups or centralized entities, all while guaranteeing an exact face value match.

SmartSwap's asset-to-asset swaps are precise trades based on reliable average fair market prices. The mechanism is 100% decentralized and unlike other AMMs and DEXes, the protocol does not require any deposits, locked LPs, pools, hot wallets, custodial, wraps, or side-chain. It's completely free with 100% reimbursement of fees and gas.¹

Zero Volatility Swap Platform

Smartswap's contract utilizes a zero volatility patent pending method which prevents slippage and wholly reimburses users fees and gas costs. The swap works by letting users choose a token they want to swap (Token A) and then select a receiving token (Token B). Unlike a Decentralized Exchange (DEX) or Automated Market Maker (AMM), SmartSwap asks users the USD face value of the tokens they want to swap, rather than the token amount they want to receive.

¹ All fees and gas are reimbursed with the SMART token

Subsequently, with SmartSwap, users do not choose the value of Token A or how many tokens of Token B they want to receive. Instead, SmartSwap prices Token A and Token B based on the current average market price between multiple reliable exchanges.

Furthermore, when the user sends \$1000 face value of Token A to receive Token B there is no possibility for them to receive \$999 or \$1001. SmartSwap executes the order with the exact same face value. In the case of an unmatched swap (due to counterparty different order amount or market volatility) the SmartSwap alters the order to receive less of Token B in order to match the face value, or alternatively return any excess to the user of which it belongs.

Example 1

- 🔄 Bob wants to swap \$1,000 of Token A with Token B.
- 🔄 SmartSwap executes the order and sends Bob exactly \$1,000 of Token B.

Example 2

- 🔄 Bob wants to swap \$1,000 of Token A with Token B.
- 🔄 At the time of the swap, only \$500 worth of liquidity is available.
- 🔄 SmartSwap executes 50% of the order and sends Bob \$500 of Token B.
- 🔄 The remainder of the \$500 remains pending until liquidity is available.

Example 3

- 🔄 Bob wants to swap \$1,000 of Token A with Token B.
- 🔄 At the time of the swap, only \$500 worth of liquidity is available.
- 🔄 SmartSwap executes 50% of the order and sends Bob \$500 of Token B.
- 🔄 The remainder of the \$500 remains pending until liquidity is available.
- 🔄 After SmartSwap has more liquidity, the remaining \$500 of Token A increases in value to \$510.
- 🔄 SmartSwap executes the order, sending Bob \$510 of Token B.

One-Click Cross-Chain

SmartSwap utilizes technology that allows cross-chain swaps between two assets without a single point of failure such as single validator risk, wrapping, or side-chain utilization. The cross-chain swap is a true one-click swap between blockchain networks. The cross-chain swap has the ability to act like a bridge between blockchain networks based around smart contracts such as Ethereum and BSC.

At the moment, SmartSwap supports swaps between BNB <> ETH and ERC20<>BEP20. SmartSwap capabilities present the first one-click swap that is not considered an atomic swap or reliant on time-locked swaps.

The technology capabilities grow as more blockchains are added such as Casper, Tezos, Tron, HOLO, Ontology, ALGO, Polkadot, etc.

Two-click Bitcoin Cross-chain

SmartSwap technology provides a decentralized swap between smart contract based blockchains such as ETH and BNB to non-smart contract based blockchains such as BTC and BCH. The process allows users to send orders to the SmartSwap without knowing who the counterparty is and without any time pressure to claim the order. The process requires two clicks to swap, one click to approve and the second click to swap. When the order is fulfilled (or partially fulfilled) the transaction to transfer BTC to the user's wallet is sent automatically.

Forex Killer

SmartSwap's zero volatility solution removes the need for costly arbitrage which only benefits those Forex traders with high frequency platforms and in depth strategies. Once governments issue their own digital money, anyone can trade currencies without slippage rather than relying on traditional Forex markets.

Decentralization for XRP

By utilizing SmartSwap, XRP bank can truly become a decentralized solution for banks, connecting all their liquidity with zero spread. Whereas banks have minimal spread, now XRP users can also enjoy the bank's liquidity even when the capital is not moving across XRP constantly. Banks can utilize the solution for free while maintaining their current custody guidelines. XRP can charge an extra fee and reimburse through their current minting structure.

Further, Smartswap can change XRP's volatility to 0% by following the market price which is based on independent oracles that cannot be controlled by XRP's in-house validators.



Remove fractional reserve risk

Currently, Arrington Capital runs a quasi fractional reserve that is centralized in order to maintain incentives for Banks and partners to utilize their protocol. By adding XRP to the SmartSwap, XRP now connects partners to the entire market including DeFi, CeFi, BNB, ETH, and future digital currency platforms that may arise. This removes the Arrington Capital's fractional reserve risk and acts as if they sold the XRP themselves, without having to sell it, it is a perpetual fountain. Send-Receive-Repeat

Unlimited and Scalable Liquidity

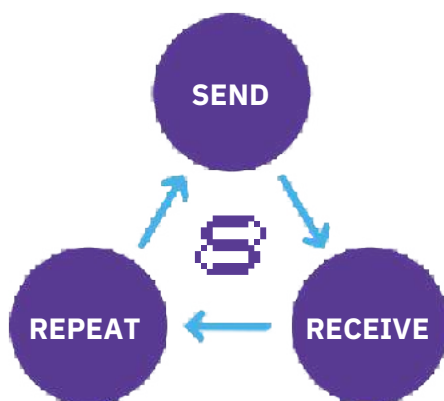
Unlike traditional AMMs, like Uniswap and PancakeSwap, SmartSwap does not have pools or LP tokens. Instead the liquidity methodology is based on P2P counter parties which can either be user to user(s) or Swap Providers (SP) to users.

Liquidity Fountains for SPs

SmartSwap allows anyone with a Centralized Exchange account, like Binance, to utilize a simple decentralized API and become an Swap Provider (SP). The SP's drive liquidity into SmartSwap allows the SP to earn automatic spread on their favorite tokens.

How does it work?

When users swap tokens on SmartSwap, the protocol takes the market price. SP's are buying those tokens on the CEX through the API integrated on their account. The API is set to buy the tokens below the market price to gain a spread. The structure creates a send, receive, repeat loop similar to a fountain that mines for SPs more of their favorite tokens like Bitcoin without having to lock or wrap any tokens.



Simple OTC Access

SmartSwap also presents an opportunity to decentralize the OTC industry by allowing investors to place big orders on the SmartSwap using self-custody wallets, while OTC liquidity is driven into the Smartswap as through SPs

OTC SmartSwap Liquidity Process


- 🔗 User initiates a swap order
- 🔗 SmartSwap searches for a counterparty (Peer-to-Peer)
- 🔗 If there is not enough liquidity, the swap order automatically triggers the liquidity from Swap Providers
- 🔗 If a counterparty is not found and there is not enough liquidity in the Peer-to-Contact process, the swap order automatically triggers a flash swap with OTC to rebalance the fountains

Swapping Process

SmartSwap processes the swaps based on different methods and priority solutions. As a default the SmartSwap will swap first between two users since with such swap each counterparty will cover only the send gas cost (instead of send and receive) which will be the cheaper solution for both sides. In case there is no counterparty, the SmartSwap will swap the order with Swap Providers, and in case that Swap Providers cannot provide enough liquidity, the SmartSwap will execute the order partially, and leftovers remain pending until the new counterparty is available or until Swap Providers repeat their liquidity fountain cycle.

Example

- 🔗 Bob wants to swap \$1,000 of Token A for \$1,000 of Token B.
- 🔗 Bob sends his order to SmartSwap and SmartSwap immediately identifies one counterparty that wants to swap \$500 of Token B against Bob's Token A.
- 🔗 In this case, Bob receives the first \$500 of Token B and the rest of the \$500 in Token A remains pending until counterparties or Swap Providers provide liquidity.

	DEXs (Uniswap, Pancake, etc)	Binance Bridge	 SMARTSWAP.EXCHANGE
Cross-chain	✗	✓	✓
One click cross-chain	✗	✗	✓
Unlimited liquidity	✗	✗	✓
Slippage free	✗	✗	✓
Fee reimbursement	✗	✗	✓
Gas reimbursement	✗	✗	✓
Token price correlated to platform usage	✗	✗	✓

Decentralizing the CEX Industry





Now, without signing up to a CEX, doing time-consuming KYC on multiple platforms, or dealing with order book volatility, users can still benefit from CEX liquidity through SmartSwap. SmartSwap provides a true bridge between CeFi and DeFi with one simple click access to liquidity, even while keeping self custody of the assets.

Swap Value Limit Options

Users have the ability to control how their swap executes through the platform using the swap value limit option. They can choose to swap the same market value at the time of swapping or the same sent value. Providing users with more control over their swaps.

In the case that a user selects to receive the same value sent, the order remains pending and not matched until such value is available. If during the swap the order is partially completed and the user selects to cancel, the order partially completes and the remaining portion is refunded to the user.

Example #1 No Swap Value Limit

-  Bob wants to swap \$1,000 of token A and receive whatever the current face value of token A and token B at the time of swapping
-  In the case that the price goes up by 5% Bob will get \$1,050 worth of token B
-  In the case that the price goes down by 5%, Bob will get \$950
-  In the case that there is not enough liquidity, Bob's order remains pending until liquidity is available

Example #2 Swap Value Limit Option

- ⊞ Bob wants to swap \$1,000 of token A with a swap limit so the price of the value received is not less than \$1,000
- ⊞ In the case that the price goes up by 5% Bob will get \$1,050 worth of token B
- ⊞ In the case that the price does down by 5%, the order remains pending until the market price will go up again to \$1,000
- ⊞ In the case that Bob's order has partially completed \$500 for example, the remaining \$500 remains pending. If Bob cancels his order, the SmartSwap gives Bob back \$500 of token B and \$500 of token A

Fees

Fees are incurred for successful swaps on SmartSwap and are 100% reimbursed with the SMART token. The total fee is 0.30% and can be changed by DAO voting.

Fee Breakdown

80%

is utilized to buyback SMART while adding liquidity to the market by rewarding users for swapping

20%

20% goes to the Atom Foundation maintenance and to market the swap

If the platform launches before the token, there will be zero fees to use the SmartSwap but gas fees will be unable to be reimbursed.

Gas Costs


A huge barrier to DeFi trading is high gas costs. On certain blockchains these costs will drive users to the cross-chain swap in order to move from a high fee blockchain to a low fee blockchain.

In order to encourage these types of swaps, SMART is distributed to reimburse 100% of the fees and gas costs incurred when utilizing SmartSwap.

100% Fee Reimbursement

SmartSwap users have the option to receive 100% reimbursement for their gas and swap fees. Users are able to claim reimbursements via the reimbursement staking contract. To release reimbursements users must stake the 1:1 equal amount of SMART for one year, but will be able to release partial amounts of the reimbursement if withdrawn at any time before the 1 year period . The pending balance accumulates and the user is able to claim the rest.

Example

 If over the year if user spent over gas \$1000 or even more, at any time he can reimbursements for such cost even with the SMART token value will be higher due to appreciation




Gas Reimbursement Strategy

In the future, the fastest blockchain with the lowest gas costs will win which is why SmartSwap is built in a blockchain agnostic way to allow creators to build on the best blockchain, regardless of where there is liquidity in the market.

Until that time comes, Ethereum fees present a major barrier. Therefore, in order for users to qualify for fee reimbursement on gas, they must utilize the rollup or “bus” process created by SmartSwap.

Instead of sending individual transactions, the bus process groups transactions together for the same tokens within the same block. once there are multiple transactions for the same tokens.

Example

-  10 users pay \$50 gas
-  The contract receives \$500 total for gas costs but with the bus strategy gas may only cost \$50
-  Therefore, the extra \$450 is used to buyback SMART in the market for the rewards pool

SCALABILITY

Licensing Strategy

SmartSwap is patented due to the risk of SDEX owners utilizing the technology to hurt users or that traditional players such as banks will use it to monopolize the technology when CBDCs are more prevalent. Therefore, Atom Foundation will allow free licenses to anyone with their own branding, protecting the technology and the SmartSwap network. Further, projects can add swap fees on top of SmartSwap's fee as long as they reimburse their users with their native token or token of value. The main idea behind the licensing strategy is long-tail to grow traffic and liquidity, creating mutually beneficial interoperability between everyone.



Smart Bridge

SmartBridge is a layer on top of wallets which is designed to turn the wallet into an interoperable payment solution. So when users engage with dApps on BSC, Ethereum, or other blockchains they can pay with any digital asset they have (whether is crypto, NFT, or digital government money) while the receiver receives the type of currency they need and request. The SmartBridge approach allows users with ETH to deploy ETH to BSC projects and those projects can receive BNB instead of ETH.

The SmartsBridge solution helps allow projects to host their contract on their preferred blockchain without worrying about losing out on opportunities from more popular chains.

The bridge is already implemented successfully on Jointer.io and on the bSWAP PDO platform.

Example

-  Jointer's DeFi Auction is built on Binance Smart Chain due to low gas costs on the 52 smart contracts that govern the dAPP
-  Utilizing SmartSwap Jointer is able to accept BNB or Ethereum to the dApp yet always receives BNB

SMART Tokenomics

SMART's mission is to become a sustainable DAO that provides much needed unlimited liquidity with zero-volatility cross-chain capabilities in a blockchain agnostic fashion to the cryptocurrency community.

Supply

In order to facilitate sustainable DAO design, SMART’s supply functions encourage users to utilize the platform through rewards while only minting if an equal value asset is presented to the community.

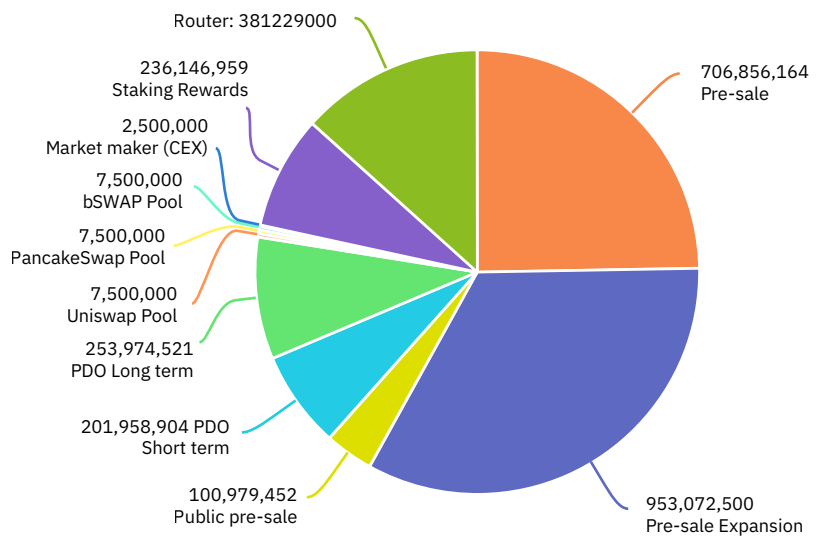
The SMART supply does not allocate a team supply and focuses solely on building and adding value to the ecosystem through liquidity and a CEX listing of both SmartSwap and the SMART token.

Total pre-mint

2,859,217,500²

Pre-mint allocation

- 706,856,164 Pre-sale³
- 953,072,500 Pre-sale Expansion⁴
- 100,979,452 Public pre-sale⁵
- 201,958,904 PDO 1 Short term
- 253,974,521 PDO 2 Long term
- 7,500,000 Uniswap Pool
- 7,500,000 PancakeSwap Pool
- 7,500,000 bSWAP Pool
- 2,500,000 Market maker (CEX)
- 236,146,959 Staking Rewards
- 381,229,000 Router
- 0 Treasury
- 0 Team and founders



² The original supply before the pre-sale voted 50% expansion was 1,906,145,000

³ Only value add partners were accepted

⁴ Leftover tokens from the expansion will go to the Staking Rewards pool, outside of circulating supply

⁵ The public and private pre-sale have the same terms

SMART Price

Baseline pre-sale price:

\$0.01

Listing price exchanges and PDO:

\$0.02

Dumper Shield

Traditionally, those who receive tokens at a discount have hurt communities through selling tokens at a discount, aka “dumping” tokens on the community. This outcome is unacceptable to the creators of SmartSwap so a Dumper Shield was developed.

The Dumper Shield allows investors to sell their tokens through an inside OTC or through a gateway to the secondary market. If investors choose to sell their tokens via the inside OTC, they can set any price even for free, since such sales do not affect secondary market prices. On the other hand, if investors want to sell their tokens via the Gateway they can only sell it at the average market value which is set by Coingecko / CMC. The Gateway utilizes SmartSwap to sell those tokens at the average market price.

The average market price means that in the secondary market there are prices below the average and above the average, which means the gateway creates an arbitrage opportunity for investors to buy at the average and sell it on those places above the average. In other words, the gateway allows arbitrage players to facilitate liquidity for investors behind the dumper shield.

The SmartSwap Dumper Shield is active for 365 days after the lock period and is voteable within the DAO to decrease or increase.

Minting

SMART includes same face value minting based on equal value being added to the ecosystem in the form of swap fees.

The minting is meant to encourage platform use through the “Buyback and Reward” DAO functionality.

Flexible 10% APY Staking

In order to incentivize users to hold SMART, Atom Foundation implemented the flexible DeFi staking⁶ contract directly into the token. This allows SMART to provide flexible staking rewards without having users lock the token on an external smart contract. Staking rewards are paid every Binance Smart Chain block, ranging in time from approximately 3-5 seconds, simply by holding tokens in their wallet users will receive more SMART. The initial APY is 10% but can be changed by a votable percentage.

NB. Any token sent to the flexible 10% APY staking contract (which is 0x0000000000000000000000000000000000000001 address) is not controlled by a private key. Therefore, it is considered a burned token and cannot be recovered for trading without the staking smart contract (not even through voting).

Tx Tax Fee

The SMART token built-in the TX Tax fee functionality which taxes users everytime they move the SMART between wallets. For example, the tax fee can be 5% or any other number. The tokens that are taxed are sent to the flexible DeFi staking pool, which rewards users for holding SMART. This functionality is not active yet and is subject to later voting by the DAO if they wish to activate it.

Public and Private Pre-sales

The pre-sales take a strategic approach ensuring a functional and supportive DAO. During the private round, only value add partners were accepted. Both public and private pre-sale participants must complete the Reverse KYC process before the SMART tokens move to the dumper shield.

Pre-sale terms

Price:

\$0.01

Lock period:

90 days locked staking followed by one year under the Dumper Shield

Rewards:

413.53% APY Bonus

⁶ Users can enjoy from flexible staking only when SMART is not staking in other staking contracts

PDOs

In order to provide the SMART community with liquidity and trading options, SMART will launch PDOs on bSWAP. 100% of the funds raised from the PDO will automatically transfer to the SMART liquidity pool to support liquidity and growth, no funds will go to the developing team or founders.

PDO price follows the market thus protecting the community as well as allowing the final amount invested into the pools to grow based on the remaining supply.

PDO terms

PDOs will launch a minimum of two weeks after the public pre-sale

Short term

Price:

Price: Starts at \$0.02 and follows the current price of SMART⁷

Rewards:

413.53% APY Bonus

Lock period:

90 days locked staking then 1 year behind the Dumper Shield

Long term

Price:

Starts at \$0.02 and follows the current price of SMART

Rewards:

827.23% APY Bonus

Lock period:

365 days locked staking then 1 year behind the Dumper Shield

Fundraising allocation

100%

of PDO fundraising goes to pools

Scarcity

Since all SMART tokens from pre-sell or PDO will be locked for a minimum of 90 days and since no one (not even founders) has SMART available. The 25M SMART (initial circulating supply) dedicated to CEX and pools will be utilized in the initial buying and selling of SMART.

New Communities

Stay in touch with the SmartSwap devs and the whole SmartSwap community.

