ASTRA

We Are Honored To Present Astra Ecosystem In This **Whitepaper**.

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Astra Token 2021

Astra project is launching first as a utility token on BSC. Later on, the token will be used for empowering the Astra Blockchain.
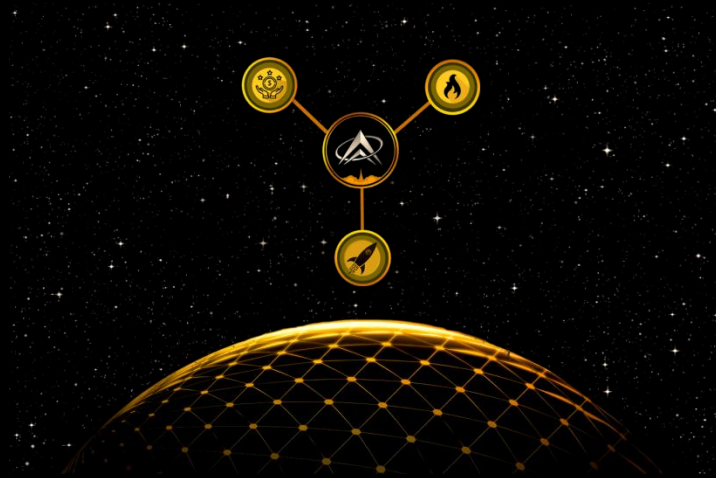
ASTRA TOKEN

BEAR MARKET KILLER

ASTRA TRIPLES YOUR EARNING POWER BY IMPLEMENTING MOST ADVANCED PASSIVE INCOME GENERATING MECHANISMS ON BSC.

After carefully studying all the best features from BSC that pump the tokens, we have combined them all into one single ASTRA token. ASTRA is Proprietary, Hyper Deflationary, Auto- claim BNB, Auto-generating liquidity, Static farming by holding all of these and more…ASTRA token is first ever to combine all these features.

ASTRA TRIPLE GAINS, BEAR MARKET KILLER
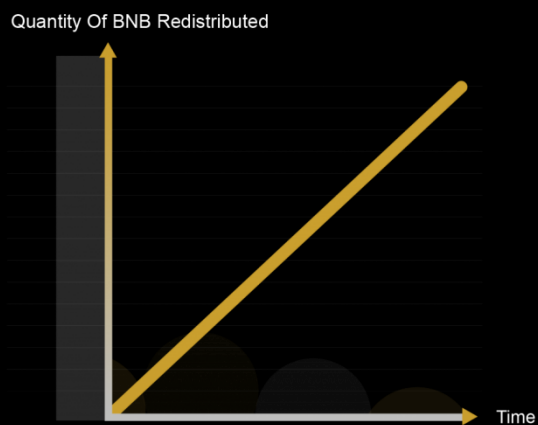
FORMULA EXPLAINED:

Token buy back – with each sell done on Astra token 5% will be used to automatically buy back the tokens from the liquidity pool and send them to burn address which means that this tokens will be gone forever. This feature makes Astra token hyper deflationary and encourages holders to HODL their tokens. Once these tokens are burnt, it is like adding free BNB to the pool as there are no tokens to sell in the future. This mechanisms pumps the price constantly.

BNB redistribution – Auto claim – Apart from token buy back Astra holders will also earn BNB from each trade. This BNB will be collected in a pool and send automatically everyday to all Astra holders proportionately to their holdings of Astra token.
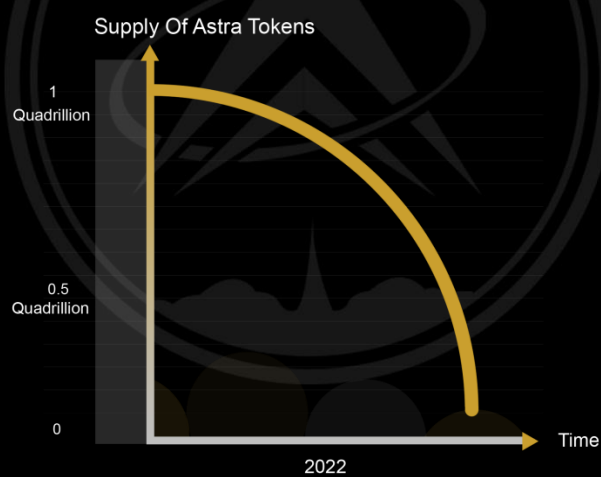
Static reflection to all token holders – 2% of each trade is redistributed in Astra token to all holders proportionately to their holdings.
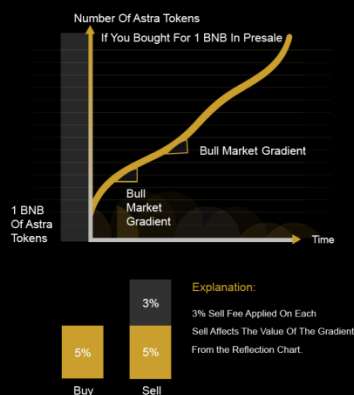
REDISTRIBUTION OF BNB

Quantity Of BNB Redistributed

Time

BUYING BACK TOKENS

Supply Of Astra Tokens

1 Quadrillion

0.5 Quadrillion

0

2022

Time

REFLECTION OF ASTRA TOKENS

Number Of Astra Tokens

If You Bought For 1 BNB In Presale

Bull Market Gradient

Bull
Market
Gradient

1 BNB
Of Astra
Tokens

Time

3%

5%

5%

Buy

Sell

Explanation:

3% Sell Fee Applied On Each
Sell Affects The Value Of The Gradient
From the Reflection Chart.

VALUE OF YOUR ASTRA INVESTMENT

Value $

Value $

Lp Tokens
Price Floor

Presale
Liquidity

Time

Value = BNB Redistributed
+ ↑ In Astra Price From
Buy Backs + Reflected Tokens
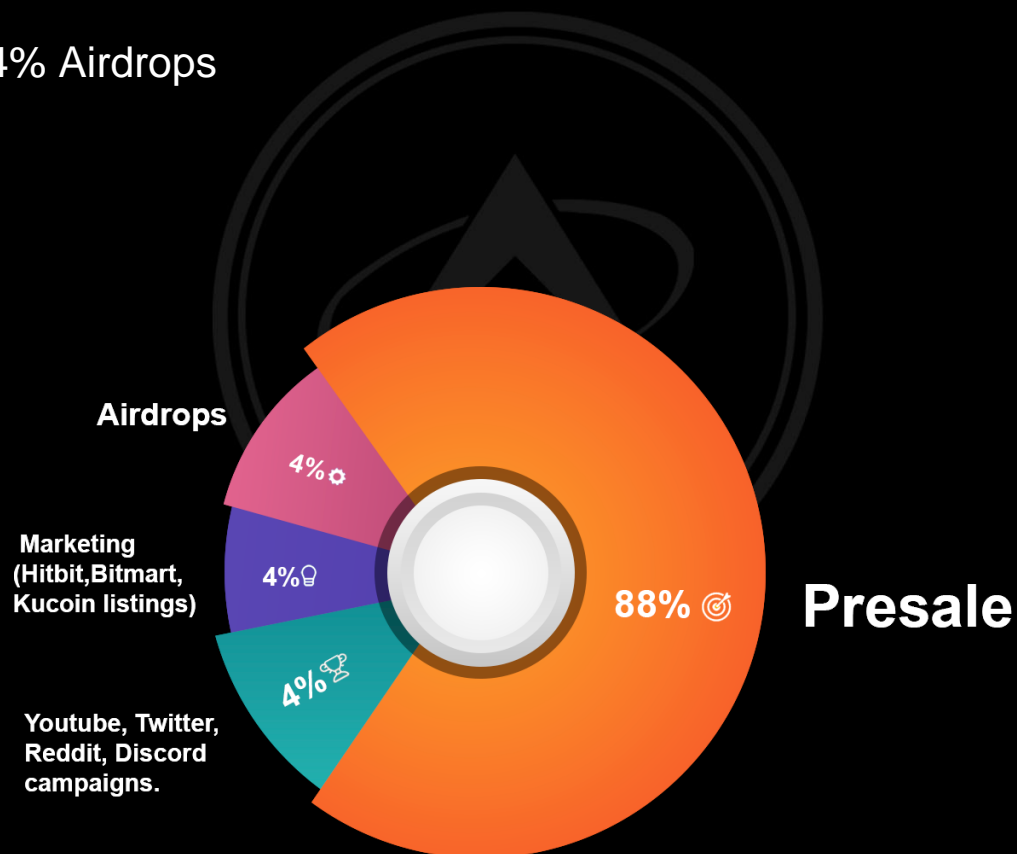
TOKENOMICS

- 1 Quadrillion Initial Supply

- 88% Presale

- 4% Marketing (Hitbit, Bitmart, Kucoin Listings)

- Liquidity Locked

- 4% Airdrops

Airdrops

4% ⚙

Marketing (Hitbit,Bitmart, Kucoin listings)

4% 💡

88% ◎ **Presale**

4% 🏆

Youtube, Twitter, Reddit, Discord campaigns.

OUR APPS & ROADMAP

Q3 2021

- ✳ Website Launch

- ✳ Complete whitepaper

- ✳ Complete contract on BSC

- ✳ Techrate audite

- ✳ Dashboard: Earnings tracking Launch & Liquidity locked

- ✳ Launch on Pancakeswap

- ✳ $5M Market cap

- ✳ Astra Shop finished

Q4 2021

- ✳ Coingecko & coinmarket cap listing

- ✳ First project launched on Astra launchpad IDO- we already have a candidate (video games producer)

- ✳ Swap & Claim on website Auto-reinvest on website

- ✳ Partnerships

- ✳ Listing on Hotbit, Bitmart, KuCoin

- ✳ Publication of Astra blockchain roadmap

Q1 2022

- ❋ First publication of Astra blockchain Code
- ❋ Listing on major exchanges
- ❋ Launching new projects on weekly basis
- ❋ YouTube and tick tock partnerships on daily basis

Q2 2022

- ❋ Publication of new set of functionalities in Astra Blockchain
- ❋ More research, prototyping, and development
- ❋ Promoting the blockchain on International conferences
- ❋ Astra testnet

Q3/4 2022

- ❋ Scalability, interoperability, and sustainability

Launching best only best projects on BSC. Simply hodl your Astra to participate in new launches. There will be no min holding, everyone will be able to fairly participate.

BRINGING SMART CONTRACTS TOGETHER

INTRODUCTION

We're experiencing issues in blockchain smart contract technology, due to having too many blockchains with smart contracts and no way of interacting with one another on two separate blockchains. Astra is here to fix that very issue, by allowing smart contracts to interact with each other regardless of the blockchain it uses.

How Astra would work: Astra would make duplicates of contracts on its own blockchain which would be linked directly to smart contract. For example-

Pancakeswap Token(**0x0e09fabb73bd3ade0a17ecc321fd13a19e81ce82**) would be duplicated in a sense with a new address on the Astra blockchain,

such as (**0x0e09fabb73bd3ade0a17ecc321fd13a19e81ce82-BSC**) which can then be used to interact with on the Astra Blockchain. Astra would be used as a mechanism to interact with different blockchains with the same programming language(Solidity). When sending Eth or Polygon to your BSC address it would happen seamlessly due toAstra interpreting the initial address or smart contract and automatically changing the protocol.

The user would need to make use of either the Astra wallet or give access to your current wallet address (Metamask, Trustwallet).

BLOCKCHAIN INTERACTION FOR TRANSACTIONS
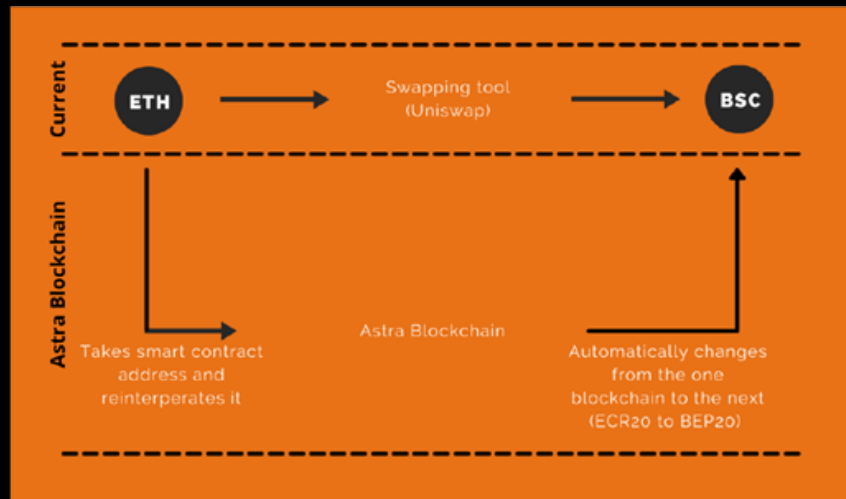
MECHANISM

The mechanism would need nodes to validate all transactions on the Astra Blockchain. Validation for receiving (RX) smart contract addresses, validation for the Astra blockchain, and validators for interacting with other blockchains on the (TX side). This would impose a 3 layer verification system to interact with all blockchain parties per transaction. Validator nodes would thus be classed as RX node, Tx node and Master node, all 3 being equally valuable as the next.

ASTRA NODE LAYERING
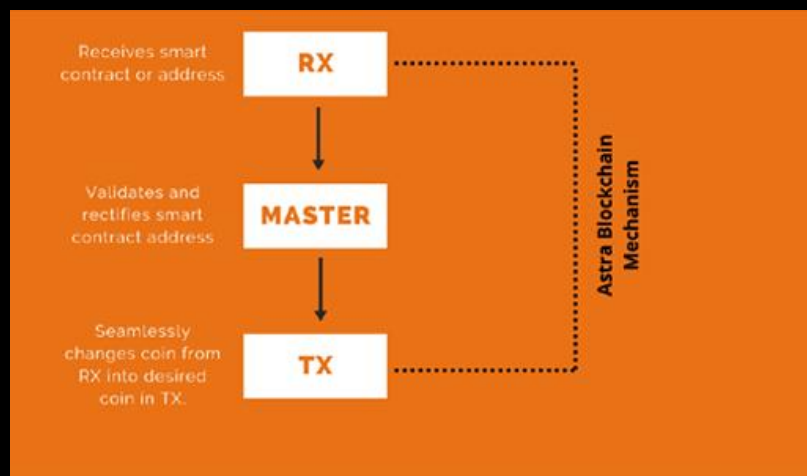
VALIDATOR REWARDS

All validators will be rewarded for running their node. However a minimum amount of Astra would need to be staked to ensure uptime of existing nodes on the Astra Blockchain. All current holders ofAstra coin will receive a reward payed from the 3% sell tax made by sell transactions on the Astra blockchain. The tokenomics would be similar to BSC, where the holders would get rewarded for holding and the sellers taxed for selling. However nodes would reap more rewards compared to the holders. Thus increasing the supply of validators.

FUTURE CONCEPTS ANDIMPLEMENTATIONS

As we move forward with Smart Contracts we move further away from other fields of interest such as contracts drawn up in the real world, taxation imposed on citizens, insurance for different industries, etc. Changes such as these would make a mechanism such as the Astra Blockchain more valuable for future activities where one blockchain smart contract address needs to communicate with a different blockchain smart contract address. Example: Insurance would be taken out for a loan on the Ethereum blockchain, however you would like to sign for it by using your Polygon address.

When your loan isn't payed back, the insurance on your loan would automatically be deducted from your address on Polygon. Astra would be a mechanism and a building block for the future of smart contracts as long as more industries adopt blockchain technology which is already happening on a phenomenal rate.

INTRODUCTION

Astra team is developing its own blockchain which will implement its own tokenomics withsolidity programming based on EPOS (End-Proof-of-Stake) protocol where the holder always gains the most.

The Astra Blockchain will feature the following:

3% Sell fee (subject to change according to the amount of transactions), which will go toverification nodes (lower gas prices) and holders, the 3% fee would also be calculated asgovernance coins for future development.

Staking a min amount of x will allow one to become a validators on the Astra blockchain. Whensales or transactions of tokens are made the 3% fee will be distributed to the validators, thusautomatically covering gas fees.

This creates a new Astra blockchain ecosystem which would make transactions basicallyfriction-less in the sense of paying zero transaction costs outside of the tokenomics. Holders willalso be rewarded for holding by rewarding holders automatically with Astra coins.

Once nodes are set up and running transactions canproceed. The rewards pool will be the main host of total supply, both rewarding holders/stakersand transacting between wallets (selling Astra coins). More wallets could be added when scalinghappens on the Astra blockchain.

ASTRA VALIDATORS

EPOS (End-Proof-of-Stack) Protocol

EPOS (End-Proof-of-Stake) is designed to give the end user (holder/staker) the most out of theirholdings either by holding Astra in their wallets or by staking them in a validator/pool, you arebound to make the most out of Astra. EPOS is a newly designed protocol in the hopes to increasevalue without having a large environmental impact, due to the limited supply of coins and greatuse-case of Astra.

A defined amount of tokens is minted to create a new price floor for holders and the value ofthe coin. This would encourage early investors and long term holders thus creating a new standardfor this coin.

3% tax fee imposed on all transactions (this might need to be adjusted in the future as theblockchain expands. Auto rewards to holders will also need to be adjusted accordingly (perhaps an elastic rewards mechanism would need to be imposed for this to work on the long term.

What makes Astra different compared to the others:

0% Gas fees (tokenomics of Astra would allow you to transact without paying gas).

Environmentally friendly (limited supply of coins, no farming). Only validators and users wouldbe using power to interact with one another.

The end user gets **rewarded** for holding (payouts from the rewards pool would be distributed toall Astra holders).

3% sell fee, these coins will calculated as Governance coins, for future voting on the Astrablockchain.

Nodes

Nodes will need to be physical hardware nodes on which a minimum amount up to a maximumamount can be staked. The 3% fee which sellers are taxed would go to a rewards wallet. Therewards wallet would then pay for gas fees to the nodes, thus making all transactions Gas-less.

Payment to the blockchain nodes would differ dependent on the amount of coins staked. Howeverthe rewards payment will differ for each node on the blockchain not based on the amount of coinsstaked, meaning nodes with less coins staked could possibly receive more in rewards and viceversa.

NODES ON ASTRA
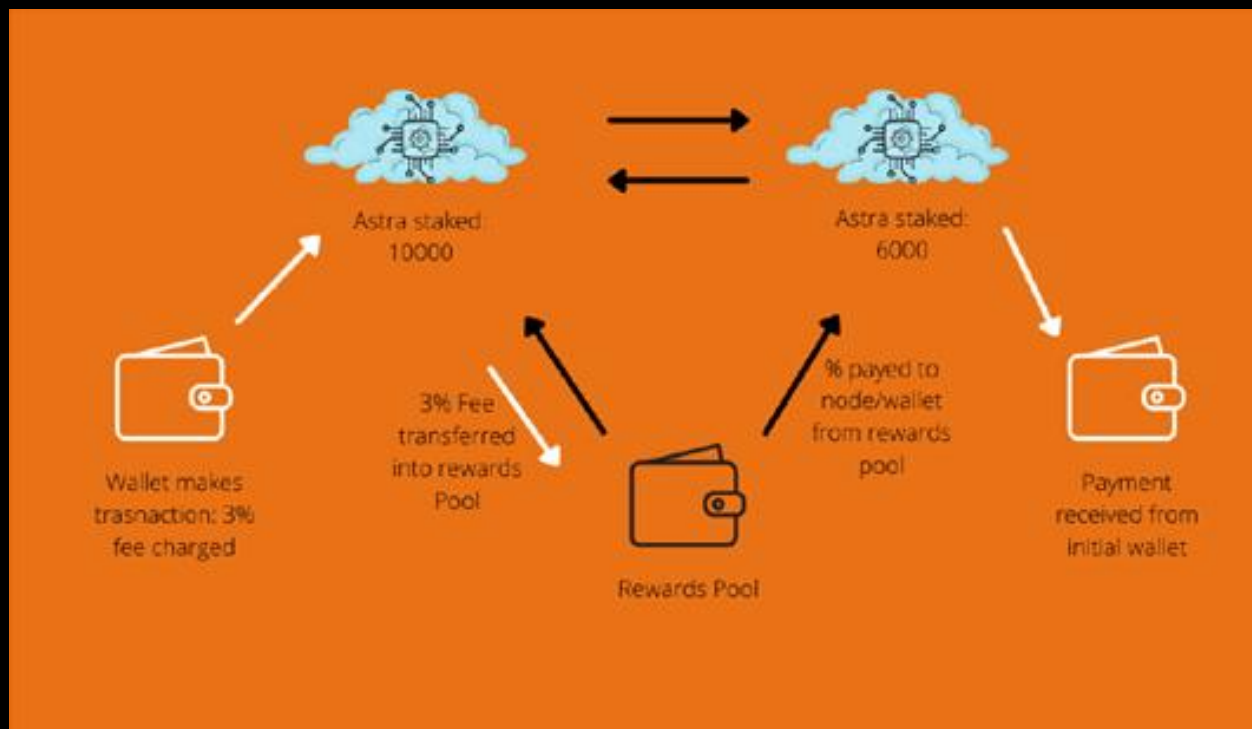
Astra is Gas-less. Non-mint-able,environmentally friendly- with a low carbon footprint for nodes. Governance enabled for future forking or upgrades on the Astra blockchain.

Governance coins calculation: Wallets on the Astra blockchain which are holding or staking will receiveauto-yield from the rewards pool, these coins will also be logged as governance tokens on theirwallet addresses (thus promoting the development of the Astra blockchain).

Cryptography

Astra blockchainconsists of a mnemonic phrase, private keys, public keys and transaction hashes, better known as a public key, cryptographybased system (asymmetric cryptography). Thus all wallet addresses provided by or imported into Astra will remain a pair with their private keys.

Generating of keys involves finding a secure source of entropy, or randomness. Creating anAstra private key essentially involves picking a number between 1 and 2^256. The exact method you use to pick that number does not matter as long as it is not predictable or deterministic. Astra software uses the underlying operating system's random number generator to produce 256 random bits which becomes private key. Note that the private key generation process is an offline one, which doesn't require any communication with the Astra network.

When generating the public key (where wallets interact with one another) a elliptic curve multiplication calculation (*secp256k1* standard to be used) would be done on the private key; which in turn gives the pair (private key and public key) which are unique for each key pair.

Hashes would be the map for transactions to happen within the blockchain. A cryptographic hash function is a one-way hash function that maps data of arbitrary size to a fixed-size string of bits, which in turn makes the blockchain more secure and virtually impossible to intercept informationtraveling through the blockchain network (dubbed Astra-sphere).

ASTRA BLOCKCHAIN

CYRPYOGRAPHY ASTRA BLOCKCHAIN
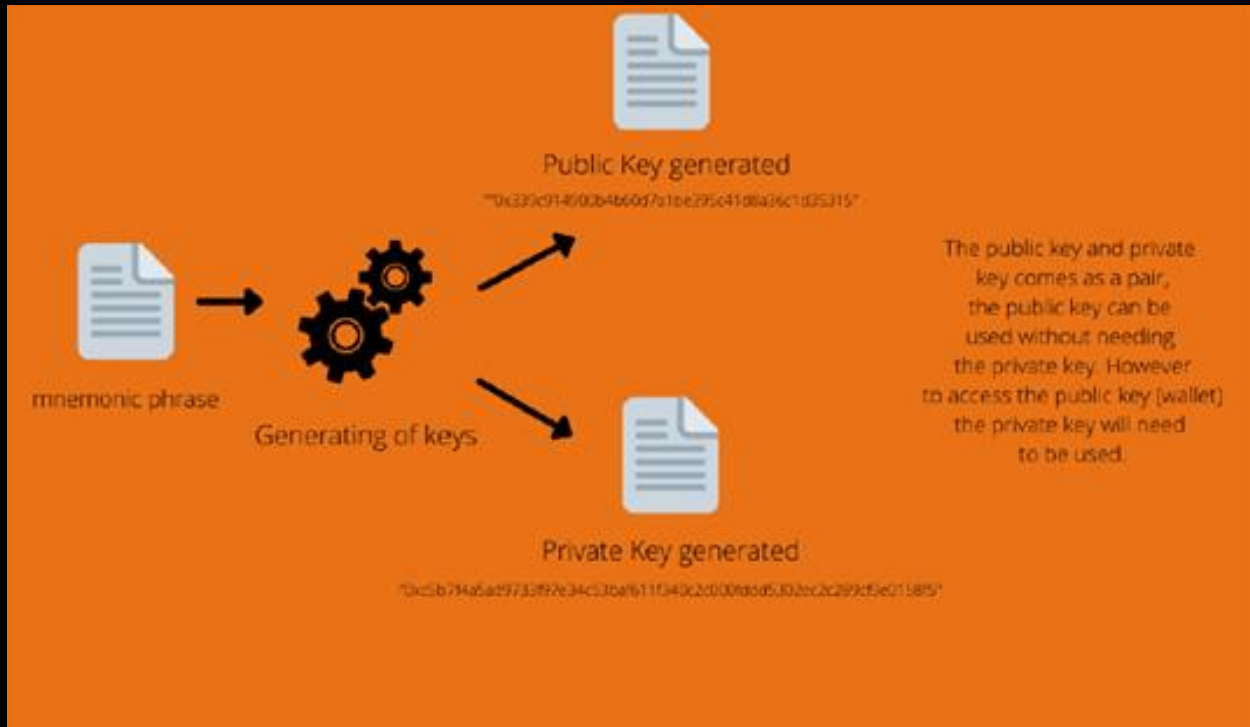
Node interaction

Astra blockchain nodes are tasked with verifying the state of existing accounts on the blockchain.BSC operators have a full copy of the network and provide responses to network-based queries if needed. Thus nodes create a decentralized blockchain and interaction.

Detail about the amount of nodes needed for verification: TBA

All nodes on a blockchain are connected to each other and they constantly exchange the latest blockchain data with each other so all nodes stay up to date. The more nodes the Astra blockchain is running on, the better its resilience against such catastrophes is. When the Astra blockchain data is spread across so many devices, it will be very hard for a corrupt entity to wipe out all this data at once, thus making the blockchain secure. Even if a large number of nodes suddenly goes offline and becomes inaccessible because of a global crisis, a single node can theoretically keep an entire blockchain operational, if it is online and is synchronized with the blockchain.

Taxation on selling Astra coins will fund Gas fees on nodes, which will in turn make the Astra blockchain gas-less, in simple terms, free. The taxation will however be fluctuating dependent on network size and total of users. Example taxation will start at 3% per transaction and decrease as the network expands gradually

Taxation vs transactions

The above is an example of the taxation imposed on the Astra blockchain and is subject to change.