



**LITHOSPHERE**

[lithosphere.network](https://lithosphere.network)

[kajlabs.com](https://kajlabs.com)

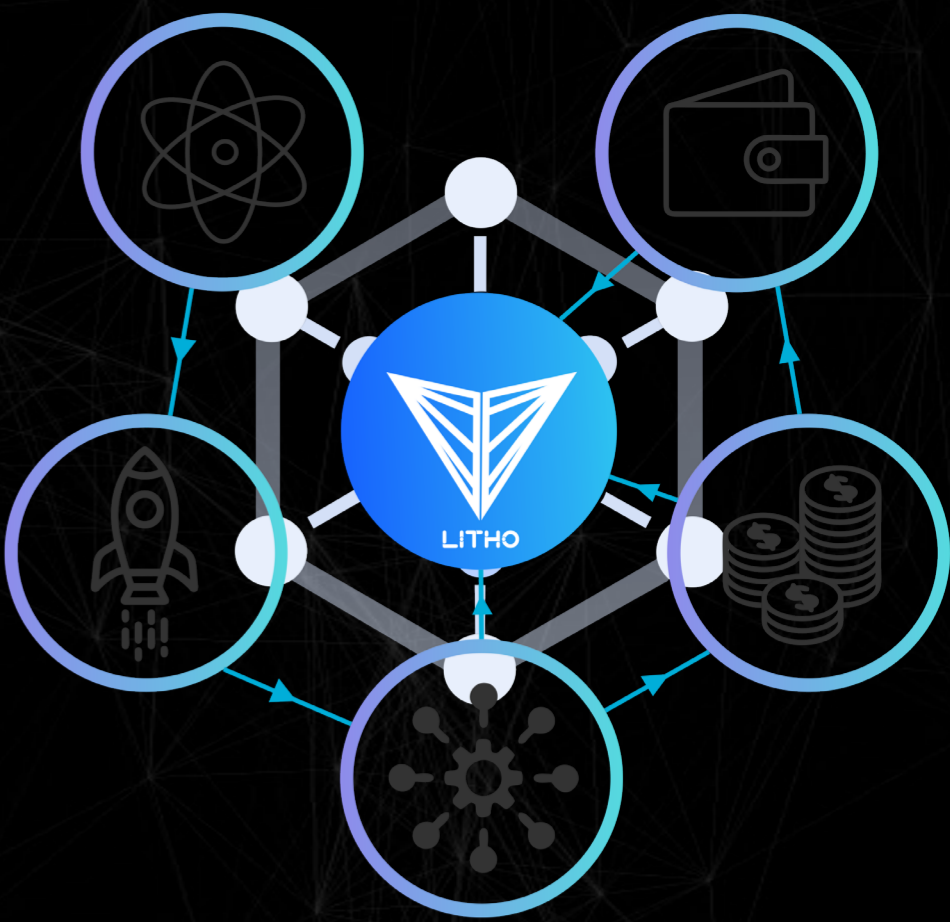
1.PROJECT OVERVIEW: WHAT IS LITHOSPHERE?

Lithosphere is the next-generation platform for cross-chain decentralized applications powered by AI & Deep Learning. The Lithosphere network introduces a novel consensus algorithm, a new token standard and other innovations like Deep Neural Networks(DNNs) to make smart contracts smarter with the help of AI.

Lithosphere’s vision is to connect all blockchains and break the barriers between blockchains by allowing them to transact with each other. The end goal is to create a connected network of blockchains, a network of blockchains able to communicate with each other in a decentralized way.

With Lithosphere, blockchains can maintain sovereignty, process transactions quickly and communicate with other blockchains in the ecosystem, making it optimal for a variety of use cases instead of being limited to one blockchain network i.e Polkadot / Bitcoin / Ethereum / Cardano.

A very good use case of Lithosphere will be the transfer of NFT. Presently, NFT can only be transferred to parties within a given network. At the moment one can’t send Ethereum NFT to a Smart Chain (BSC) user or viceversa. With Lithosphere, users in the eco-system will be able to receive and send tokens from any blockchain that supports Byzantine Fault-Tolerant (BFT) consensus.



2.A. GO-TO-MARKET STRATEGY

Lithosphere is conducting several IDOs, which will build significant awareness about Litho and the community.

Ongoing awareness is amplified through a strong community and PR efforts. Partnerships is also an important factor for building awareness and engagement for the project.

The KaJ Labs Foundation already has strong media presence and will utilize additional advertising agencies to bolster Lithosphere adaption.

2.B. PRODUCT VIABILITY

Lithosphere is the world’s first AI powered, advanced blockchain interoperability platform. The KaJ Labs Foundation, the core-developers of Lithosphere introduce; a novel consensus algorithm, a new token standard with a combination of other innovations like Deep Neural Networks(DNNs) to make smart contracts smarter. The KaJ Labs Foundation aims to introduce more innovations to the network and the blockchain eco-system.

THANOS WALLET

Thanos is a free client-side interface for creating and using Lithosphere wallets. The Thanos wallet contains a suite of innovative functions like cross-chain Swaps, multi-currency storage, NFT DEX, yield farming, lending, borrowing & more.

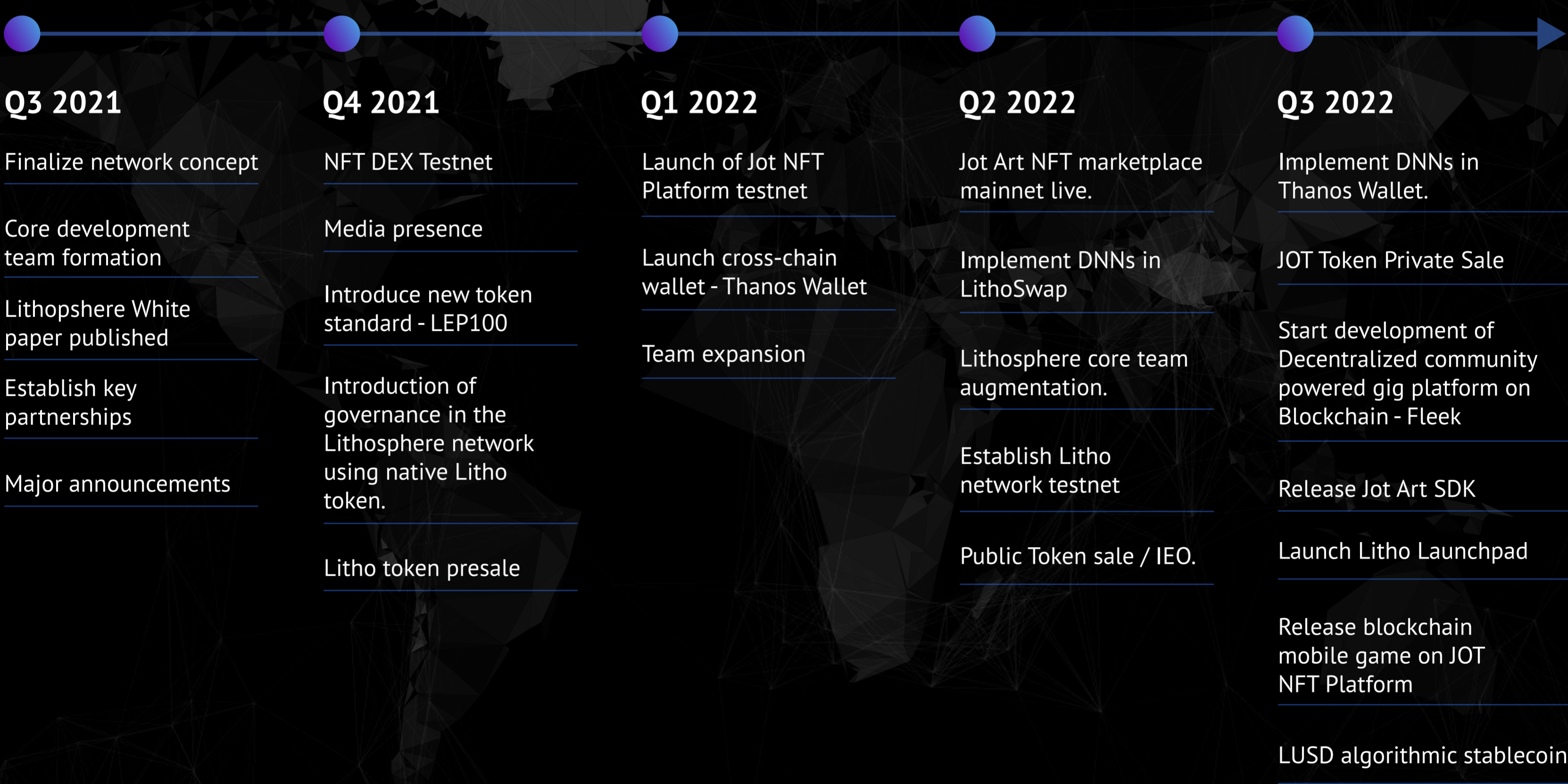
LUSD ALGORITHMIC STABLECOIN

Litho USD coin (LUSD) is similar to algorithmic stablecoin protocols operating on the Ethereum blockchain, but unlike coins like U.S. Dollar Coin (USDC) and Tether (USDT) which are backed by audited holdings of U.S. dollars or crypto assets like PAX Gold (PAXG), Litho USD coin is not pegged to the U.S. dollar or any crypto collateral.

LITHOSWAP DEX

LithoSwap is a fully decentralized cross-chain swap protocol, based on Lithosphere's MKDM technology. LithoSwap enables swaps between any coins on any blockchain which uses ECDSA or EdDSA as signature algorithm like BTC, Stellar etc.

3.PRODUCT ROADMAP



Token Utilities	Payments	Governance	Bonus for Providing Data	Staking
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4.REVENUE STREAMS

- Transaction fees and contract deployment fees are transferred to the Litho ecosystem where they are distributed to the validators.
- Brokerage profit for nodes offering price peg during LITHO Token payments in Lithosphere.
- Token transfers from the LithoSwap DEX to generate a fixed percentage fee distributed to the various Lithosphere Pools .

5. PRODUCT DIVE

The Pool

Deposits at the pool are the foundation for the Automated Market Maker (AMM). By providing liquidity to a trading pair of tokens, you will help the exchange execute faster and better. In return, you will receive tokens and rewards.

NFT DEX

Presently, NFT can only be transferred to parties within a given network. At the moment one can’t pay for Ethereum NFT using Smart Chain (BSC) tokens or vice-versa. With Lithosphere, users in the eco-system will be able to receive and send tokens from any and all blockchains that support Byzantine Fault-Tolerant (BFT) consensus through dApps on Lithosphere, the LithoSwap DEX or Thanos wallet.

Bridge

Convert your tokens into their private equivalent, where all transactions are completely private. This means BTC becomes LithoBTC. ETH becomes LithoETH. You can use these Litho tokens to trade on LithoSwap, or simply convert them back to their original state whenever you like. Currently there is support for Ethereum, but other bridges are launching soon (Binance Smart Chain, Polkadot, Monero and more).

Swap

Swap your tokens with LithoSwap. You can swap any private LEP1000 token at LithoSwap or in the Thanos Wallet. If you do not have private tokens yet, you can use the bridge to exchange your tokens for the private equivalent. You can always convert them back again. This will enable you to trade through LithoSwap.

## 6.TECHNOLOGIES USED AND CREATED BY THE PROJECT

Considering the bright future of DeFi and the issues faced in the current Internet of Values, we propose the Lithosphere project. Lithosphere's goal is to establish a platform-level public chain in the digital economy era that as a key infrastructure for value transfer, can connect all kinds of values, provide complete financial functions, communicate diverse communities and tokens, and bridge the centralized and decentralized organizations to bring the Internet of Values as early as possible with the help of blockchain, AI & Machine Learning.

### Myriad Distributed Key Management (MDKM)

Lithosphere is based on the theories and achievements of distributed key generation (DKG) in the field of cipher-sharing. The public key and the private key are both generated by nodes cooperating to communicate. The public key is broadcast in the public chain, the private key is separately stored by each node in a distributed manner through Variable Secret Sharing (VSS). The common public key is generated by the DKG algorithm, and then the account address of the Lock-in is generated by the corresponding algorithm to realize decentralized control.

### Litho Native Token

Litho is the native coin of Lithosphere. Both cross-and intra-chain transactions consume a certain amount of Litho. Litho is also used in security deposits for the cross-chain verification nodes. Litho / \$LIT is the currency of choice in the Lithosphere network although other crypto can be used as well since the Lithosphere blockchain supports interoperability.

### Deep Neural Networks (DNN)

David Yang PhD, advisor to the Kaj Labs foundation proposes Deep neural networks (DNNs) for Lithosphere smart contracts. DNNs are very useful in blockchain applications such as DeFi and NFT trading. However, training / running large-scale DNNs as part of a smart contract is infeasible on today's blockchain platforms, due to two fundamental design issues of these platforms. First, blockchains nowadays typically require that each node maintain the complete world state at any time, meaning that the node must execute all transactions in every block. This is prohibitively expensive for computationally intensive smart contracts involving DNNs. Second, existing blockchain platforms expect smart contract transactions to have deterministic, reproducible results and effects. In contrast, DNN are usually trained / run lock-free on massively parallel computing devices such as GPUs, TPUs and / or computing clusters, which often do not yield deterministic results.

### LUSD – Algorithmic Stablecoin

Litho USD coin (LUSD) is similar to algorithmic stablecoin protocols operating on the Ethereum blockchain, but unlike coins like U.S. Dollar Coin (USDC) and Tether (USDT) which are backed by audited holdings of U.S. dollars or crypto assets like PAX Gold (PAXG), Litho USD coin is not pegged to the U.S. dollar or any crypto collateral. Rather than using crypto, fiat, or commodities as collateral, the Lithosphere protocol adjusts its LUSD crypto supply every 24 hours in a process called “rebasing” to maintain a stable price.

### Consensus Mechanism

Lithosphere adapts a proof of stake consensus mechanism. The goal of Lithosphere is to use blockchain technology to build an infrastructure platform to run decentralized applications and on the platform, multiple types of tokens will be able to freely interact through smart contracts to achieve value interoperability. Lithosphere aims to implement myriad key distribution management, build smart contracts for DeFi.

### Cross-Chain Integration

We call the process of generating corresponding tokens used for bookkeeping on Lithosphere for a managed object as asset mapping. Through mapping, one token can freely interact with other mapped assets. Operations that implement and de-manage distributed control are called Lock-in and Lock-out.

### Cross-Chain Transactions

Asset Lock-in is a process that enables myriad distributed key management and asset mapping for all key-managed tokens. Asset Lock-out is the reverse operation of Lock-in and consists of two parts: to distribute control rights management and to disassemble asset mapping. Control of the digital asset is returned to the owner upon completion of Lock-out, restoring the storage of complete keys and centralized management of keys. Adopting myriad key distribution management of digital assets will increase the value of digital assets by increasing the security, liquidity, and DeFi applications of existing digital assets.

## 7.TEAM



**Joel Kasr**  
Founder & Chief Scientist



**Mukesh G**  
Developer



**Cathy C**  
Public Relations Specialist



**Artem P**  
Blockchain Developer

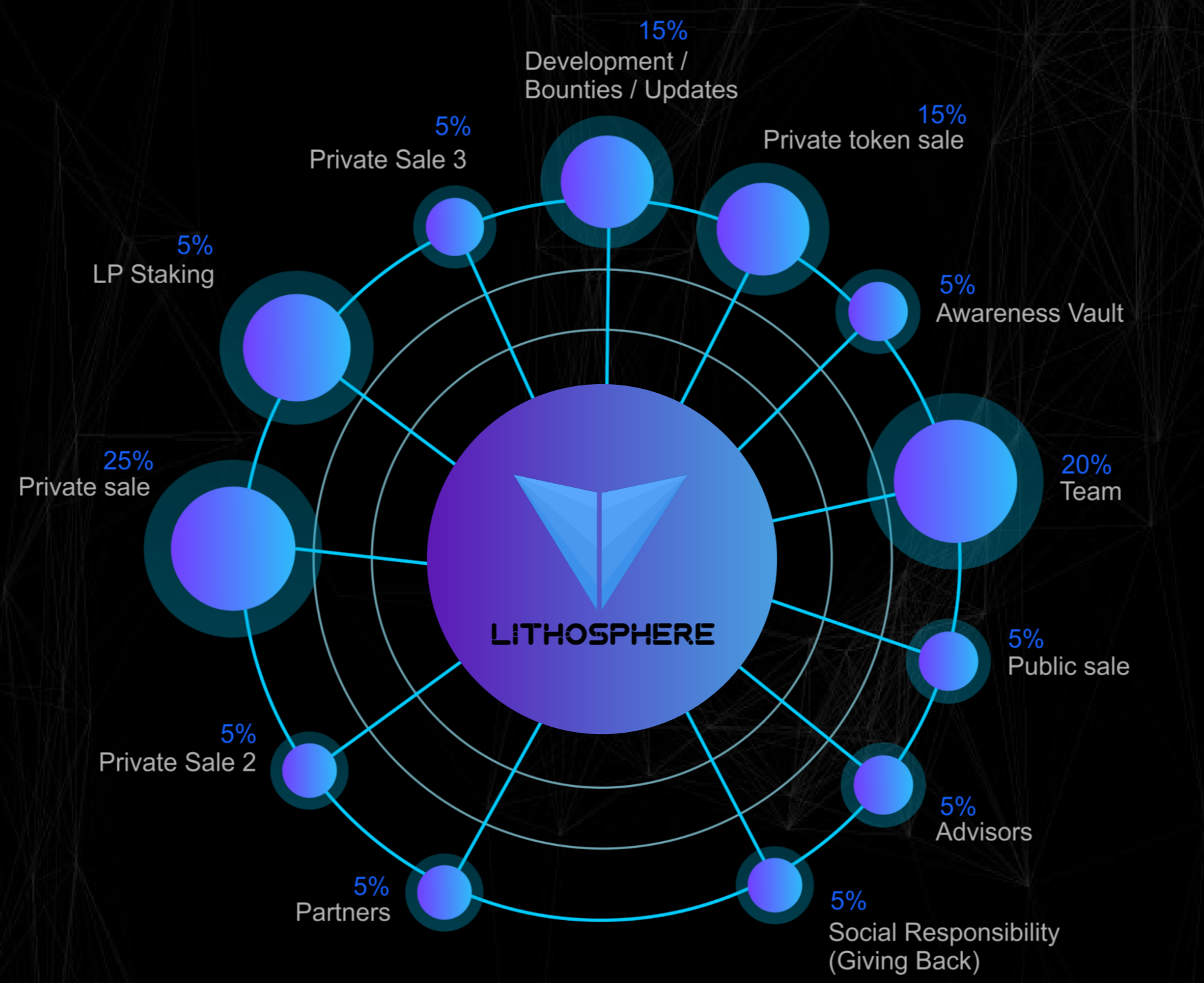
## 8.INVESTORS & PARTNERS



9.DETAILED TOKEN METRICS

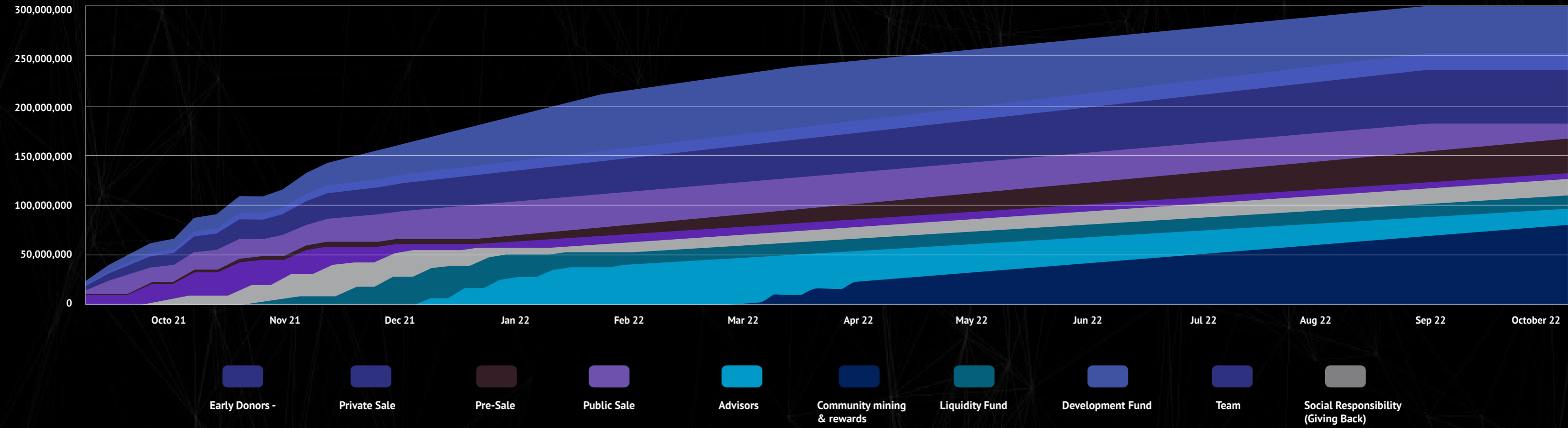
Ticker:	LITHO
Blockchain Network:	Binance Smart Chain / Ethereum
Initial Token Supply:	300,000,000
Total Token Supply:	1,000,000,000
Supply End of 2nd Year:	1,000,000,000
Pre-Seed Round	
Pre-Seed Round Raise:	\$6,500,000
Pre-Seed Round Lock-up:	20% unlocked at the TGE, then 20% on a quarterly basis

10.TOKEN DISTRIBUTION



11.TOKEN RELEASE SCHEDULE

Initial Token Supply:	300,000,000	
Total Token Supply:	1,000,000,000	Initial Supply Qty
Whitelist Private Sale	5%	15,000,000
Public Sale	5%	15,000,000
Advisors	5%	15,000,000
Team	20%	60,000,000
Public Sale	5%	15,000,000
Public Sale	5%	15,000,000
Partners	5%	15,000,000
Public sale IEO / SHO	5%	15,000,000
Awareness Vault	5%	15,000,000
LP Staking	20%	60,000,000
Development / Bounties / Updates	15%	45,000,000
Social Responsibility (Giving Back)	5%	15,000,000
TOTAL		300,000,000



12.Disclaimer

Prospective purchasers of Litho tokens should evaluate all risks and uncertainties associated with the token and all information set out in this document and any related terms & conditions prior to any purchase of the native Litho tokens.

You are not eligible to purchase the native Litho token if you are a citizen, resident (tax or otherwise) in any jurisdiction in which crypto trading is not permitted. Due to regulatory uncertainty, you must not be a US person by citizenship or residency. No regulatory authority has examined or approved of any of the information set out in this document.

No advice, no information in this proposal should be considered to be business, legal, financial, or tax advice regarding this token. Please consult your own legal, financial, tax,or other professional advisers regarding buying any cryptocurrencies.