

# OAK Lightpaper v1.0

## Introduction

**OAK(Onchain Autonomous Framework)** is building the Operating System of smart contracts on Polkadot. In the past few years, most blockchain solutions focused on horizontal scalability, to solve the current problem of speed and throughput. In comparison, OAK looks a bit further in future, taking on the imminent challenge of vertical scalability with a smart contract virtual machine redesign.

## The Mission

Our mission is to empower high-level business models innovations with a smart contract engine redesign at the low level. By solving critical problems from bottom up, we can unleash the potential of products that are not possible today. With original solutions on batch operation, access control and resource management, OAK VM will introduce new smart contract features while staying EMV-compatible, all to expand the feasibility of blockchain application. In addition, OAK will offer developer tools to streamline the setup and trouble-shooting process, enabling more powerful and versatile applications to be built.

## For consumers

- **Automate** the repetitive transaction signing such as interest claiming, retrying on failure, , and etc.
- **Connect** any number of dapps to execute in serial with a few clicks.
- **Delegate** complex tasks to experienced devs on OAK keeper network.

## For Smart Contracts

- **Same Interface, new implementation.** With an EVM-compatible interface, there's little to no programming barrier to the existing solidity developers and to migrate existing dApps from Ethereum.
- **Publish-Subscribe Capabilities.** Subscribe to contract events and updates about on-chain transactions, balances, and more.
- **Computational efficiency.** The event-driven execute model makes computational cost efficient with message prioritization.
- **Native Upgradability.** The redesign of account versioning will fully support forward and backward compatibility and obsolete the proxy upgradable smart contracts.
- **Modular Programming.** Pre-defined modules streamline the smart contract development process and reduce testing overhead.

# Future Products

- **Zapier for dApps.** Zapier is a \$5B business that connects and automates Web 2.0 applications such as Slack and Gmail. Imagine the unlimited number of user scenarios to be created on blockchain.
- **Advanced DEX trading.** User can enjoy the advanced trading options such as stop loss, trailing stop, and ice berg order that are missing onchain today.
- **Recurring Payment.** A business can sign up on OAK Pay and receive recurring payment of any assets from the customers and auto-convert them to the preferred asset.

# Fund-raising table

The total supply of token is 1 billion and the target of Seed raise is \$4.6M

# Token Sale

The OAK token serves 3 distinct purposes: operation, governance and bonding.

	Seed	Validator Sale	Public Offering
Lockup	24 months	12 months	0-12 months
Sale Date	9 months before mainnet	6 months before mainnet	1 month before mainnet
Purchase Limits	\$50K min \$1M max	\$250K min No max	\$100 min \$1500 max
% of Total Supply	10%	12%	10%
Num of Tokens	100M	120M	100M
Price per Token	4.6 cents	21 cents	30 cents