ORAKURU

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INTRODUCTION

Since the dawn of time, there have been only small gaps in our economic history where investment and business opportunities like crypto have been possible. After arriving in crypto in 2013 and surveying the current market demands, the natural step for us was to create the unstoppable, all-seeing oracle, that is, Orakuru.

Lately, we have seen the Binance Smart Chain's (hereinafter: "BSC") immense growth, together with its native token, BNB. To help create the ecosystem that Ethereum has become, with the benefits that BSC delivers - we will become the sole provider of all data on BSC.

Orakuru (ora-ku-ru) is an indisputable price oracle on BSC. A truly decentralized alternative for off-chain data. It provides real-world data to the blockchain and asks its external nodes to capture data, such as BSC price feeds and off-chain market prices. Our data becomes available for on-chain usage in DEXs, prediction markets, insurance, lending, and more, using our feeds to power their dApps.

Why an oracle project?
Without oracles, smart contracts and blockchains would be unable to control off-chain data, which is information outside of the network. However, it is essential to provide accurate knowledge from the outside world with specific contractual arrangements to enforce the agreement. This is where, as they provide a link between off-chain and on-chain data, blockchain oracles come into play.

Oracles are vital within the blockchain ecosystem because they extend the reach and functionality of smart contract. Smart contracts would have minimal utility without blockchain oracles since they would have access to data only from inside their networks.

For the global adoption of blockchains, a secure platform that enables contact between smart contracts and the external world is crucial. Smart contracts will have to rely only on knowledge already within their networks without blockchain oracles, which would considerably restrict their capabilities.

This is where Orakuru arrives. To broaden the BSC capabilities, we intend to offer accurate & timely data, which will be crucial as we take advantage of BSC's low 3-second block time.

WHY BINANCE SMART CHAIN?

Why BSC is the most logical launch strategy
Several factors made us choose to develop and to build on BSC. One of the reasons is that the chain is promising and has many legit resources to back it up. Changpeng Zhao (CZ), the creator of Binance, BSC, and BNB, has personally stated that they will be pouring many resources to get developers over to Binance Smart Chain. Additionally, the ridiculous gas fees currently plaguing Ethereum renders the chain useless for ordinary retail investors.

Besides, BSC's transaction feed costs a few cents every few seconds. The block time is also much shorter. On Ethereum, the block-time is 30 seconds, while on BSC, it is 3 seconds.
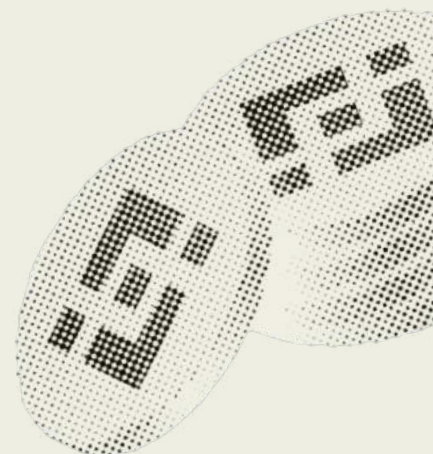
That is ten times faster. A considerable amount, especially if you want to use Defi applications in real-time. Furthermore, BSC solves expensive smart contract interactions and the price of oracle usage since transaction fees are considerably lower. The cost of a specific token could have dropped in those 30 seconds, but on BSC, data can be provided more frequently. Data refreshes every 3 seconds.

Defi applications on BSC do not have a native oracle that can utilize the 3-second block-time accordingly. Orakuru aims to fix this, offering its features and functionality to existing projects on BSC. Oracles on Ethereum are expensive. The price is negatively affected because of the slow block time. We offer a seamless oracle solution on the cheapest Ethereum competitor, BSC.

Therefore, as BSC offers the best initial market (a completely unserved one) and the most pragmatic use case in the actual application, we think this is the most logical launch. Post-launch, due to Orakuru's architecture, we will be working with the community to port onto new chains, maximize validator usage, and compete with the incumbent oracles.

OUR VISION

Before Orakuru was founded, the team had quickly established that community-governed oracles were lacking. Particularly on Binance Smart Chain. Orakuru aims to fill that gap. Nonetheless, we also embrace the philosophy that numerous oracles are needed to decrease the risk of relaying false information. Thus, our work does not lay in competition but rather collaboration. To understand Orakuru's vision, we want you to indulge in oracles' obvious necessity in decentralized blockchains.

Firstly, why are oracles even needed in blockchains? Blockchains were designed to be segregated from the outside world and credible third parties. Still, most activities continue to take place outside of blockchains, necessitating the development of a bridge that does not jeopardize censorship resistance. The key concept is to create a trusted marketplace for oracles that links clients and nodes. First, we will have seven nodes to provide trustless services - shortly after, we intend to make this an inclusive process for our community.

Part of our vision also includes innovating and providing solutions that are not ordinarily available. As a result, Orakuru has already integrated a payment system (in $ORK) to serve any arbitrary rest request. A full explanation of its intricacies and functionalities is provided in the "Orakuru architecture section."

Upon launch, we will launch our metacommunity, which will govern and operate the Orakuru. This will create a much faster pace of innovation and feature output, along with the project's longevity and safety. Anyone can participate, which we reflect with fair distribution.

Moreover, within the next 12 months, as in our roadmap, we have a variety of strategic goals, with each goal stacking until we reach chain-agnosticism, a crucial point where we can start to scale laterally and with speed. This is our hope for Orakuru. To be able to shape and develop itself according to market demands.
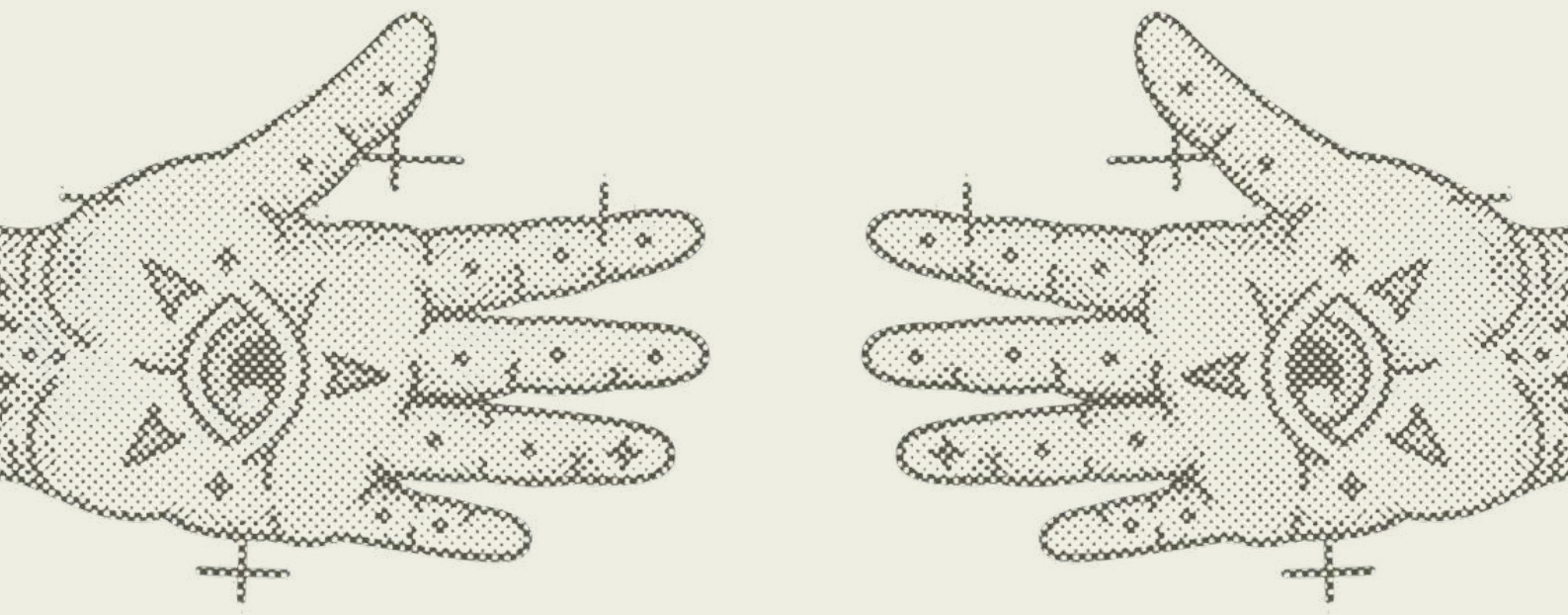
HOW ORAKURU WORKS

Orakuru is a decentralized oracle network built with the goal of connecting on-chain smart contracts to off-chain real-world data. Within the Orakuru network, oracle nodes act as an intermediary or 'middleware' between blockchain smart contracts and outside information, by processing on-chain requests for real-world data, and translating and sending the retrieved data back to smart contracts in a seamless, verifiable, and trustless way.

Instead of relying on a single source of truth (a centralized oracle operator), which poses the problem of having a single point of failure, Orakuru employs a decentralized network of independent oracle nodes. Each node processes consumer smart contract requests and retrieves the requested data, which is then aggregated on-chain by the Orakuru aggregator smart contracts.

Orakuru architecture

At the core of the design of Orakuru lies the OrakuruCore smart contract deployed on BSC, which is responsible for the following tasks:

• Accepting and registering consumer job requests to perform an off-chain data retrieval.

• Relay job request information to oracle nodes within the Orakuru network, and aggregating the results which are then passed on to the client.

• Management of Orakuru oracle nodes, in particular, assigning a score to each based on their demonstrated commitment to the network, and applying 'slashing' of their stake in case of poor performance.

When a consumer smart contract wants to request off-chain data, they submit a job request using an Orakuru provided proxy that interacts with the OrakuruCore smart contract, together with a payment in ORK tokens aimed at rewarding nodes for processing the request in a timely and accurate manner.

Orakuru's architecture for processing job requests is based on a Request-Event-Response model. Once the client job request is received, its information is published and broadcast as an EVM event by the OrakuruCore smart contract, which is then intercepted by Orakuru oracle node operators that are eligible to process the request. This depends on how many ORK tokens they have at stake and/or their reputation in the network. The published event also contains metadata related to the job request, including callback addresses that are to be used to accept the results from the job execution.
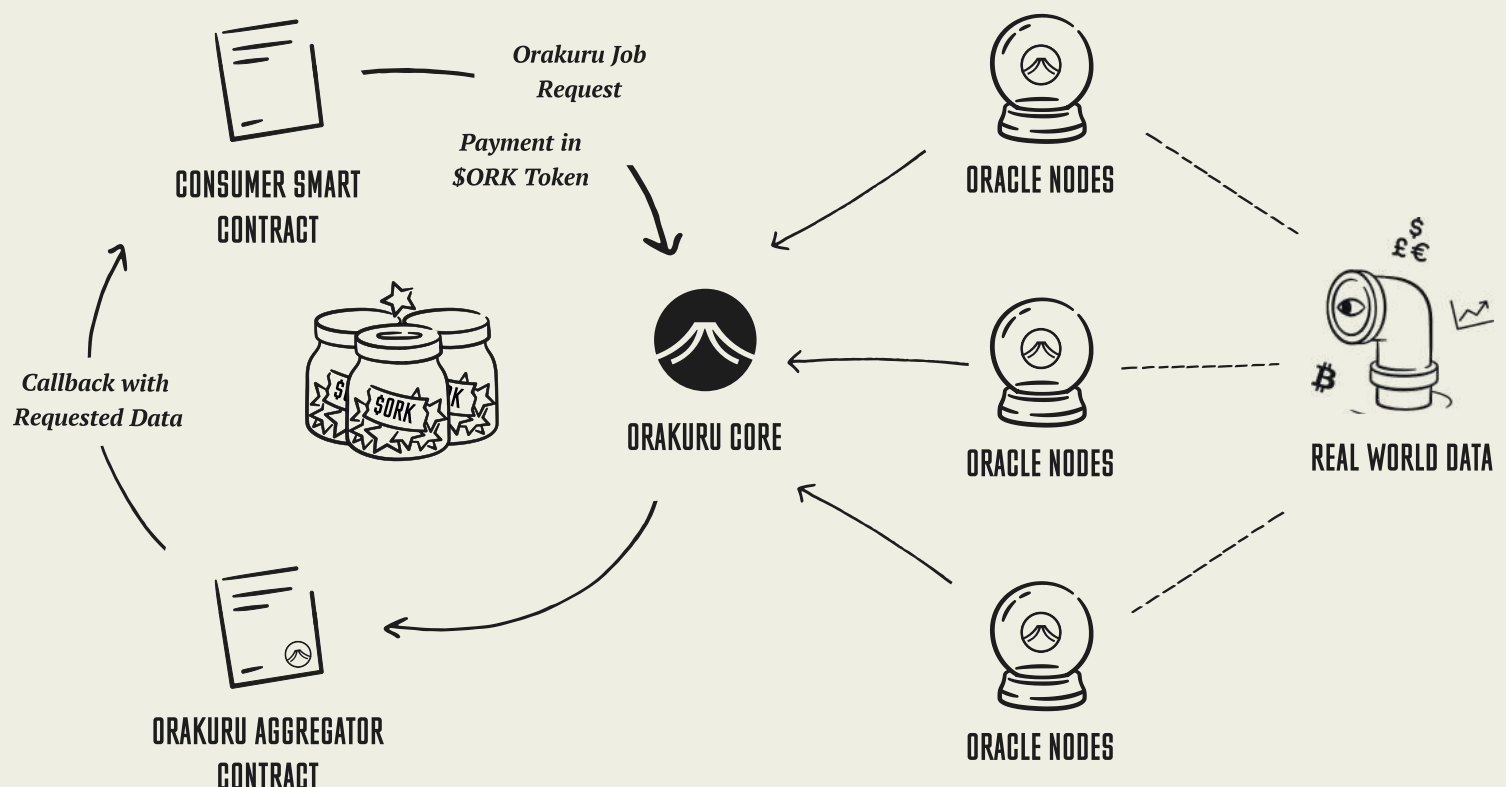
After the eligible oracle node operators process the consumer job request (e.g. fetching the weather information in Paris, France), the results are published back to the OrakuruCore smart contract, which is then responsible for aggregating the different results (e.g. in case of an asset price, applying an average), rewarding node operators and slashing the deposits of misbehaved nodes.

Orakuru oracle nodes and reputation system

Orakuru oracle nodes are operators running the Orakuru oracle software, and registered through the OrakuruCore smart contract, which requires operators to stake ORK tokens in the contract for a fixed number of epochs (with a minimum of 6 months). In order to incentivize good behaviour from oracles within the network, Orakuru employs a reputation system which is used to assign a reputation number to each node operator, based on the number of tokens they have committed (staked) to the network, as well as their past performance in serving customer's on-chain requests.

The ORK token

Orakuru's ORK token is deployed on Binance Smart Chain and follows the BEP-20 token standard. ORK's use case is three folded:

1) It is used as the digital asset token to pay for services on the Orakuru network;

2) Reward node operators for serving job requests to clients;

3) On-chain governance to regulate different aspects of the network, such as the minimum number of tokens that need to be committed by a node operator before they can join the network.

Orakuru utilises a completely decentralised stack to scrape, validate and push data out into our network. We rely on third parties to become external node validators, each of whom also scrape using our standardised technical stack. This allows for a completely flexible, democratised oracle, independent of a central authority.

GOVERNANCE

Upon launch, we will enable our metacommunity, powered through our forum and 'Snapshot.' Using our designated token reserves, we will then optimize for:

1. Creation of new feeds and data points
2. Onboarding of new nodes
3. Partnering with dApps
4. Improvement of product
5. 'Self-eating innovation' - whereby the community identifies value

Decisions will be made on-chain by delegating $ORK tokens to proposals.

Unlike Band and Chainlink and other large oracles, open-source but centrally controlled, our mission is to move the governance to completely community owned and controlled.

That comes through a deliberate and transitional change of building up the amount of contributors and builders, at each stage, based on community demand and ideals.

For us, governance is not just an extension of the project, it's an integral part to how we grow, dominate the market, and ultimately win.

ORAKURU
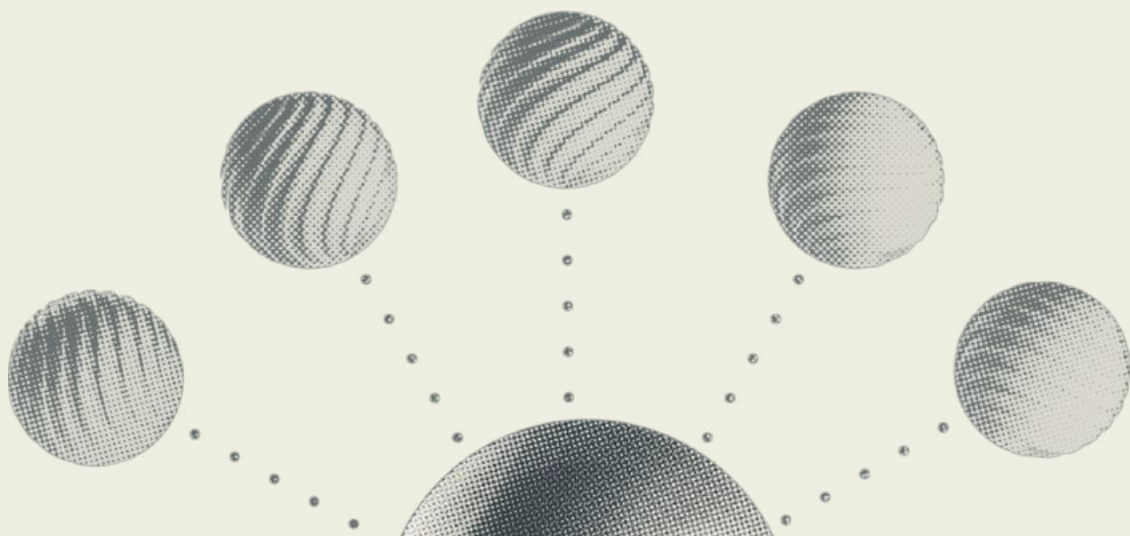
TOKENOMICS

$497,862.50
Initial Mcap

2,844,929
Initial Circ

$7,695,758.33
Diluted Cap

43,975,762
Total supply

0.175
Listing Price

	Amount	*Price*	*Supply*		*Mcap*	*Initial Unlock*		*Monthly Vesting*
Seed	$350,000	0.06	5,833,333	13.26%	$170,696	262,500	4.5%	over 8 months
Private A	$600,000	0.12	5,000,000	11.37%	$242,220	375,000	7.5%	over 6 months
Private B	$450,000	0.15	3,000,000	6.82%	$341,025	255,000	8.5%	over 5 months
Public	$100,000	0.175	571,429	1.30%	$497,863	571,429	100%	100% unlocked
Total	**$1,500,000**		**14,404,762**					

TOKEN ALLOCATIONS

		Supply	*Monthly vesting*
🟢	**Public sales** (32.75%)	14,404,762	Vested as described above
🔴	**Liquidity Mining** (25.01%)	11,000,000	1 week lock, 20 month vested
⚪	**Marketing & CEXs** (13.64%)	6,000,000	13.5% on listing, 9 month vested
🔴	**Team** (11.37%)	5,000,000	18 months (6 months lock)
🩷	**Partners** (11.37%)	5,000,000	2 months (18 months lock)
🟣	**Advisors** (4.55%)	2,000,000	2 months (14 months lock)
⚫	**Dex** (1.30%)	571,000	100% unlock
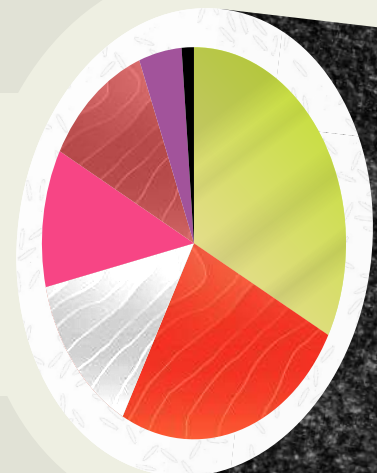
OUR PLANS AHEAD

Our plans focus on our three fold approach: Community, Product and Ecosystem. As an Oracle, we cannot solely rely on the value of our product to navigate the competitive landscape. Therefore we designed our core roadmap primarily around what we believe to be the strongest marketing tactics, that is of course community and ecosystem.

On launch, we will have the highest number of BSC-based feeds being served by an Oracle on BSC. We will leverage this along with key partners to start our first 7 nodes with validators to become sufficiently decentralized.

Post-launch, we will turn our attention to the community, to gauge the highest in demand product extensions we can build. Initially, we will launch our special 'one-off' service, which allows any dApp to query virtually any type of result. Whether that be of a presidential election, UFC fight or the price of coffee, our unique and malleable contract opens up a whole realm of possibilities for dApps contributors and Orakuru builders.

We hope that the community will join us in our vision of building multi-function tools, such as EVFs, Averaging contracts and more, that enable a far greater lever of scale, and much broader utility.

ROADMAP

- **Q2 2021**

  - Orakuru's Alpha network, including:
    ~ Price aggregators and data feeds
    ~ S&P 500 assets (e.g. $TSLA)
    ~ Staking contracts for Orakuru network validators

  - Off-chain governance through Snapshot

  - Community votes for the creation of additional price feed.

  - Partnership with 7 key Orakuru validators.

- **Q3 2021**

  - Deployment of Orakuru's Beta network.

  - Validator reputation system and slashing mechanisms.

  - Community grant program starts.

  - Creation and delegation of tokens towards the DAO treasury.

- **Q4 2021**

  - Migration from Orakuru's Beta network to its fully decentralized counterpart, with decentralized on-boarding of new validators, and reputation and slashing system implemented.

  - Expansion of Orakuru's technical documentation and code samples to facilitate on-boarding of new validators and customers.