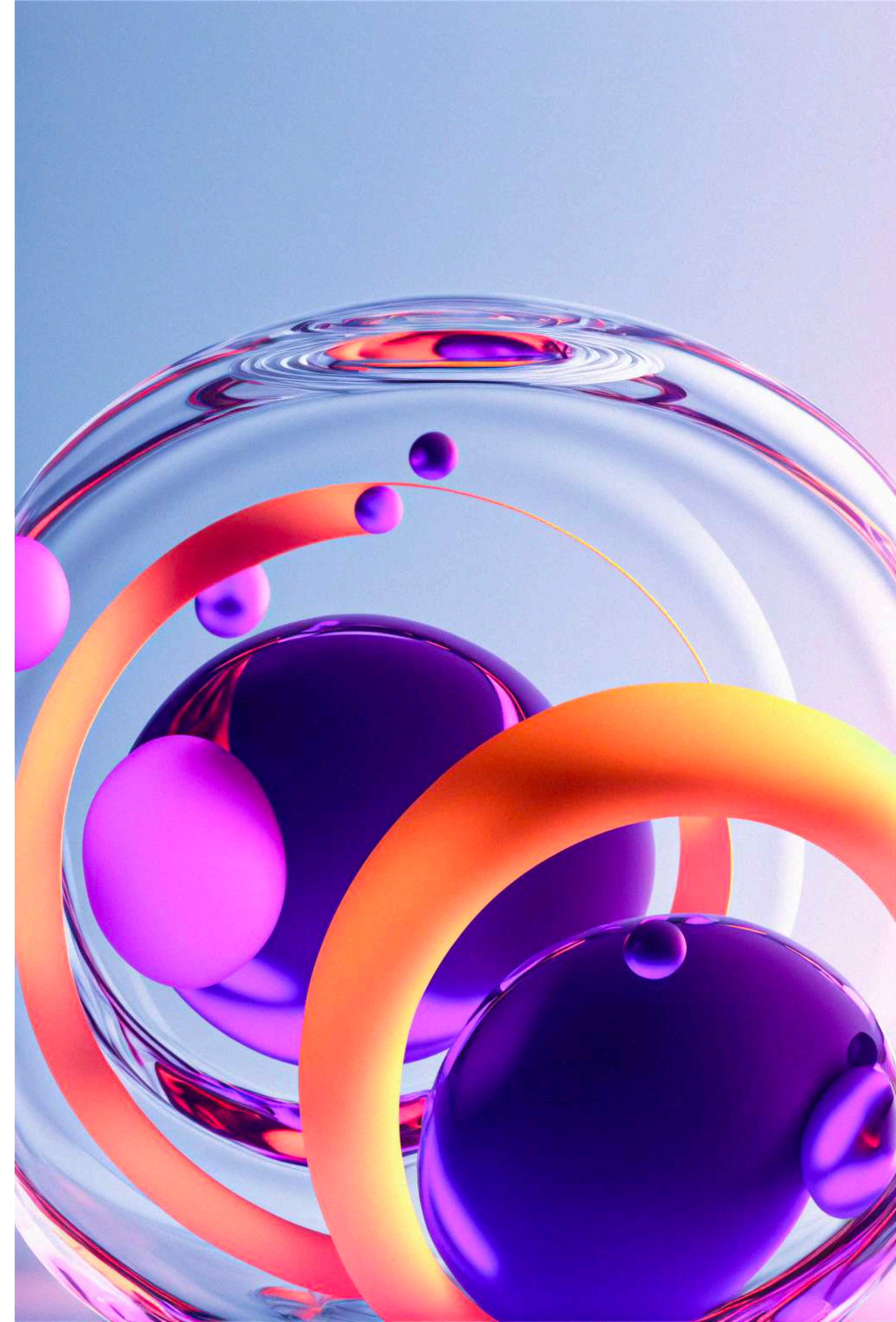




The first **web4** **infrastructure** for a decentralized internet

v.04



What is Grape?

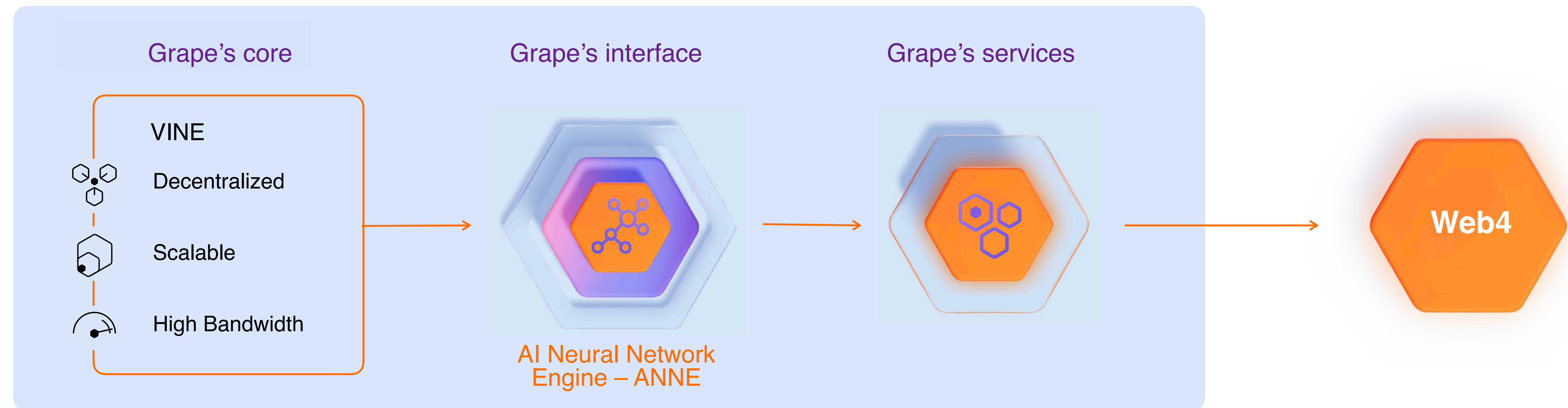
Grape is the first web4-type technology created to support the true decentralization of the internet.

Grape believes that to provide a wide audience with easy access to data decentralization, the infrastructure should have a simple interface enabling a **codeless approach** from top to bottom.

What is web4?



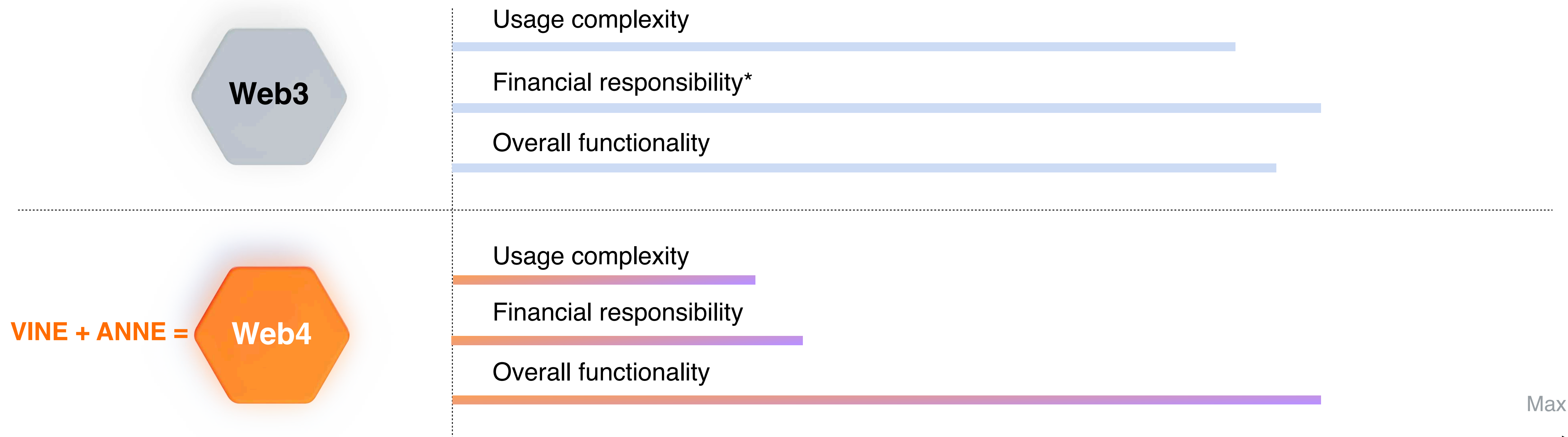
Web4 is a decentralized internet ecosystem with biometric access to all applications and an AI-powered assistant to easily create apps and navigate between them.



What is unique in Grape?

Grape has created two proprietary technologies that, when combined, can improve the adoption of web3 and push it to the next industrial level.

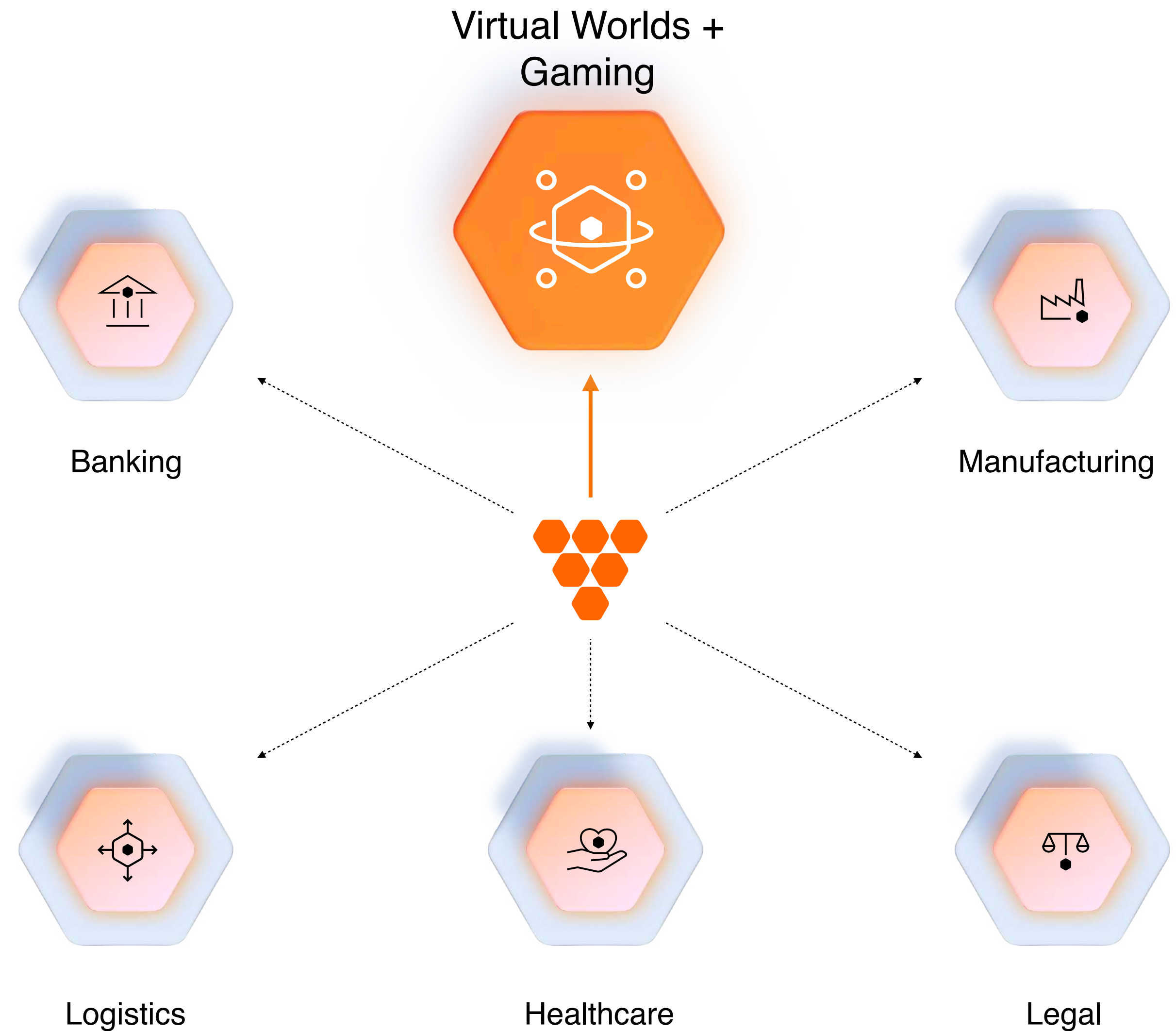
1. **VINE** – a scalable decentralized infrastructure with practically unlimited bandwidth based on DAG.
2. **ANNE** – an AI-based interface to access web3 technologies with the simplicity of web2.



Which industries can benefit most from Grape?

Grape is a comprehensive decentralized infrastructure that is designed to **withstand huge loads**. It has all the necessary functionality to support the needs of DApps for various industries.

Grape has chosen gaming and virtual worlds as a starting point to validate the functionality of the ecosystem, test its scalability, and potential.



Section 1 - Web3 Market Overview



There is no Layer 1 ecosystem on the market that can support all its needs

Despite this, the web3 industry shows sharp growth, mainly from GameFi & Metaverse projects.

GameFi users generate over **500 million monthly transactions.**

Most ecosystems launch investment funds
- Tron Foundation launched a **\$300 Million GameFi fund.**

AAA game developers work on web3-based games - **Ubisoft plans to bring NTFs** to games.

Bottlenecks of current Layer 1 solutions:

 High transaction costs

 Low transaction speed

 Insufficient infrastructure

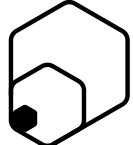

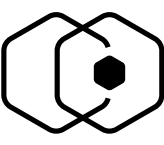
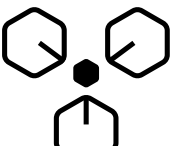
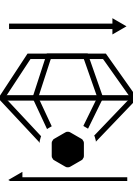
 Limited token interoperability

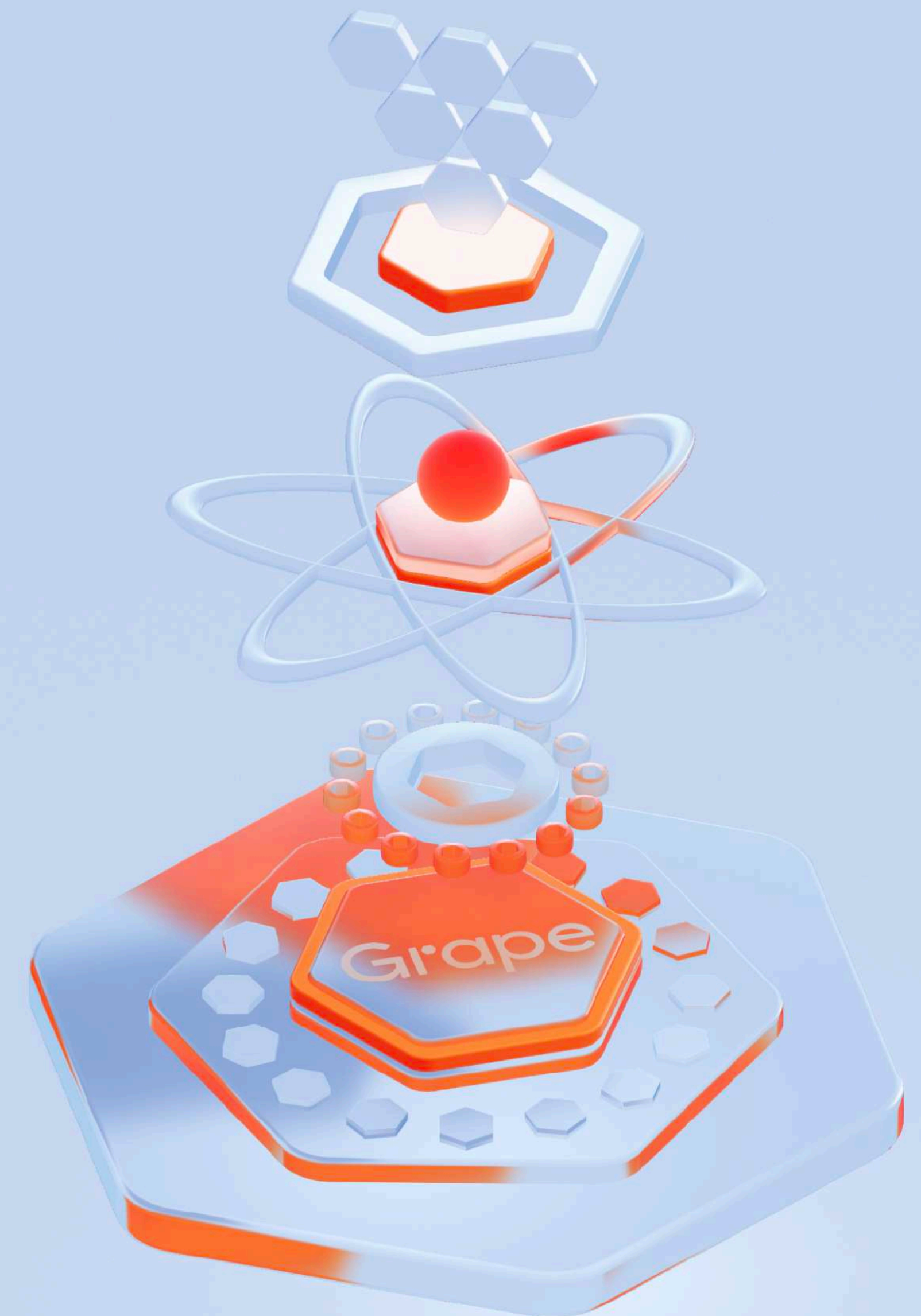


 Limited security features

 Usage of centralized storages

Web3 and virtual world requirements for a truly decentralized infrastructure

-
-  **High-performance** network
 -  **Easy-to-use** tools to launch DApps and web3 projects
 -  **Military-grade** security of funds and infrastructure
 -  **Decentralized** data & digital-asset storage
 -  **Interoperable** NFT standard





Grape is targeting the fastest growing industries



An estimated 2.9 billion people — more than 1/3 of the world population, played a video game in 2021*.

Virtual world market to surpass
CAGR 43.7%

\$1,525.7 billion by 2030

Gaming market to surpass
CAGR 10.2%

\$470 billion by 2030

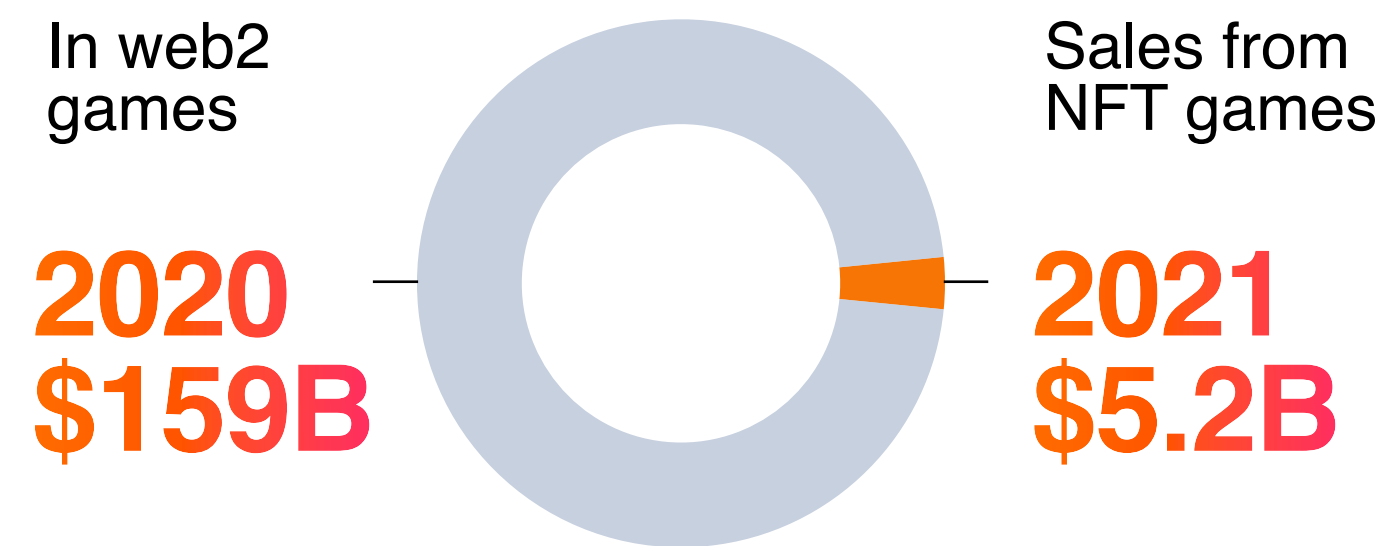
GameFi market to surpass
CAGR 23.7%

\$74.2 billion by 2031

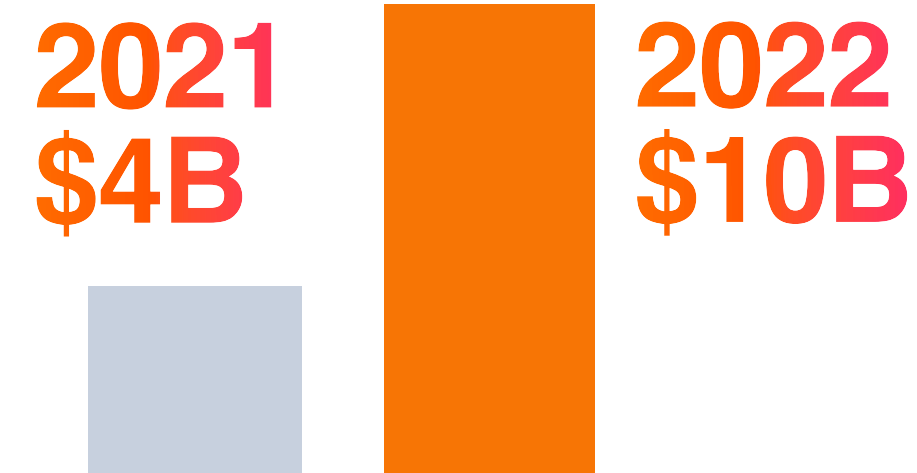


Despite the market drop, gaming continues to attract billions of dollars

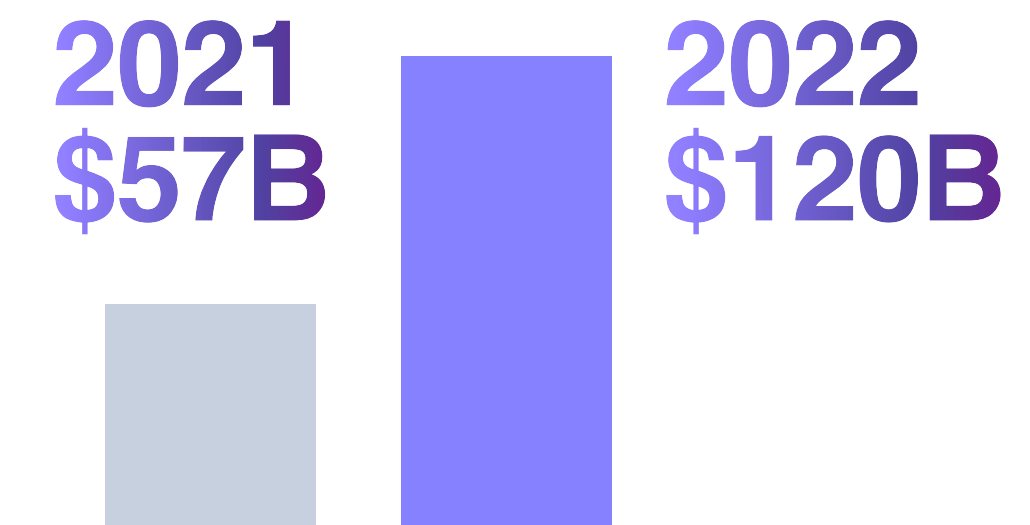
In-game purchases



Invested in GameFi



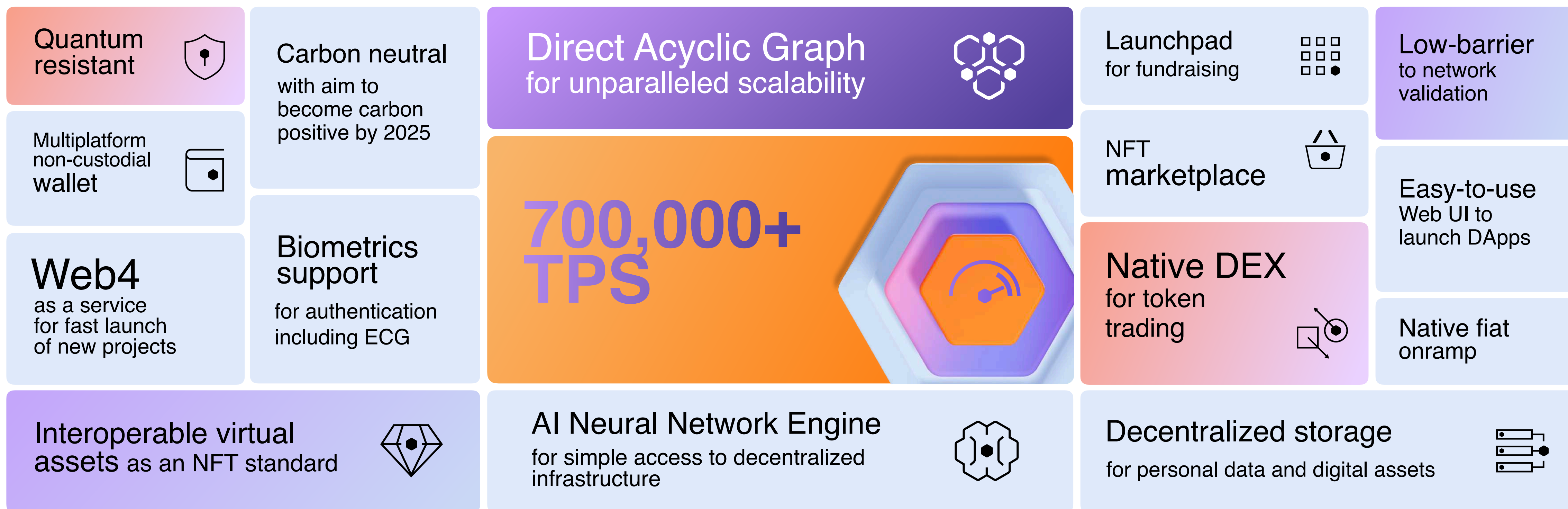
Invested in Metaverse



Microsoft's \$70B acquisition of Activision will allow the company to develop Microsoft-backed games and software within the metaverse in the coming years.

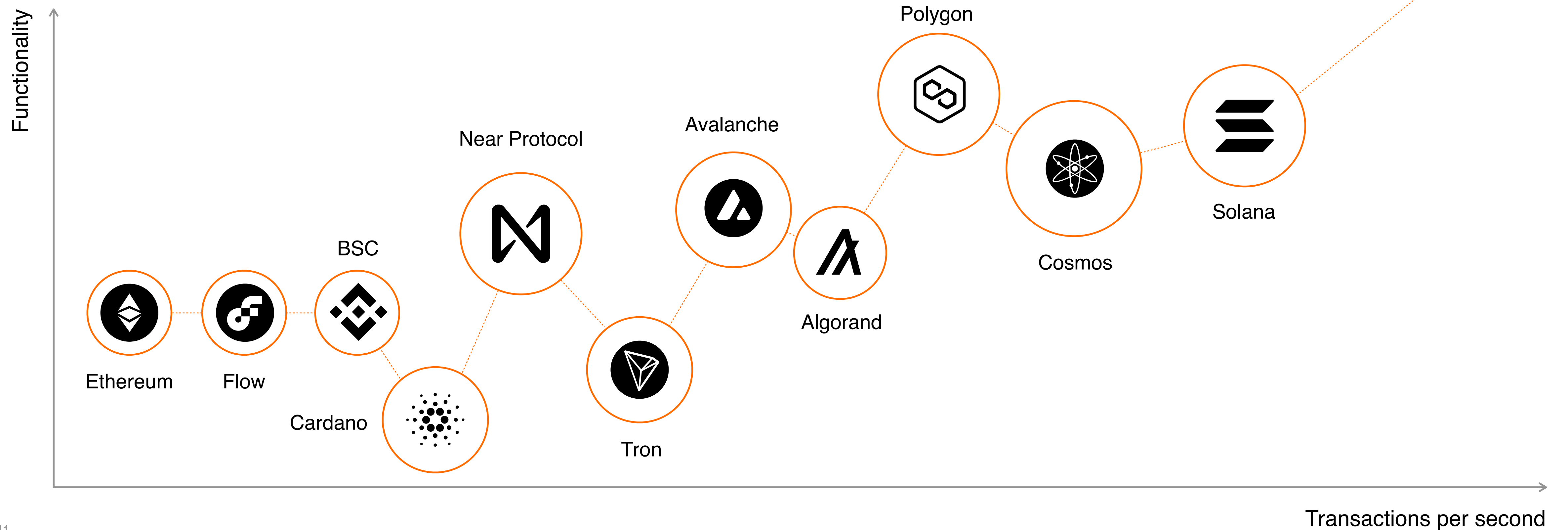
Axie Infinity, the most popular NFT game in the world, has announced three esports tournaments with a total prize pool worth \$1M.

Section 2 - Meet Grape. The first Web4 infrastructure for a decentralized internet.



Grape's infrastructure allows launching **any web3 DApps**

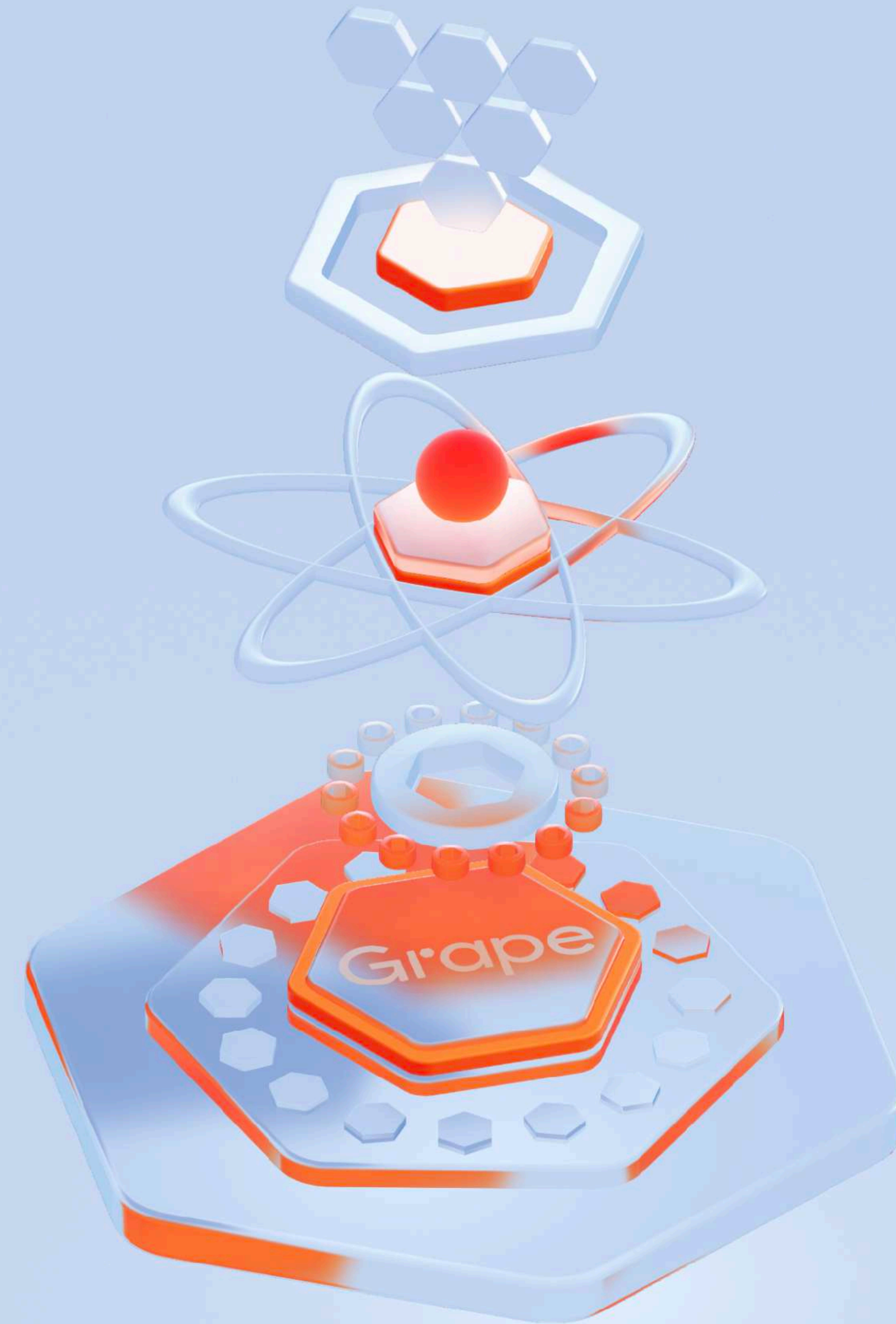
Grape's total token supply is **half the BTC total supply**, bringing more scarcity, many times the features of leading coins, and the network power **of most of the top 30 coins combined**.



Grape created **VINE** - a **proprietary DAG** structure with multi-layer functionality



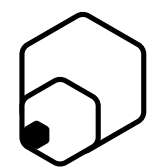
Mainnet — **VINE** — Branch-chain



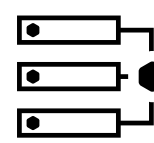


Each action in a virtual world is based on a data transfer, which is the foundation for transactions

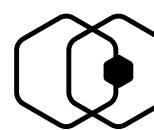
The Grape main pillars to ensure the ecosystems operation are:



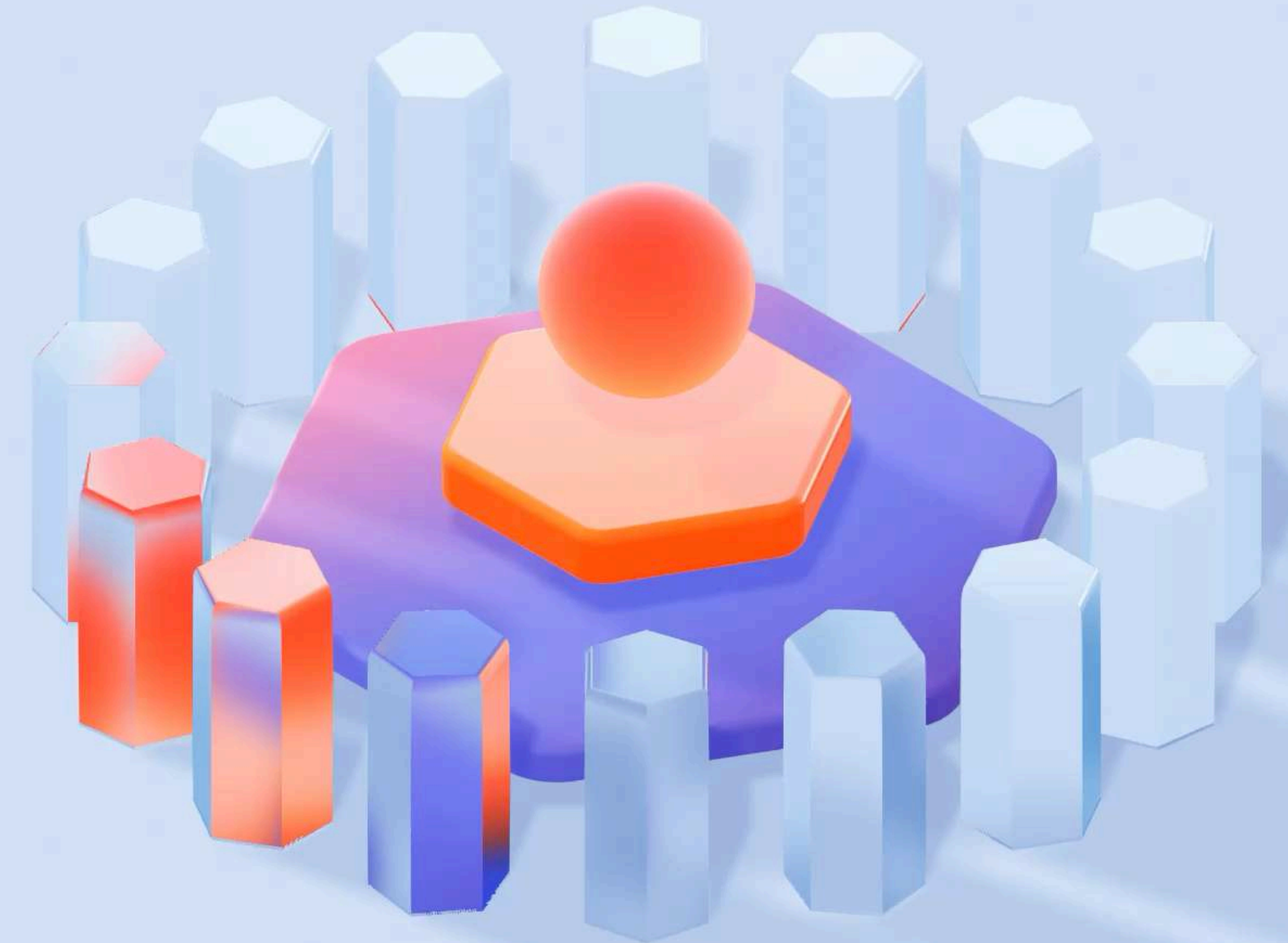
VINE - scalable DAG technology for fast and cheap transactions



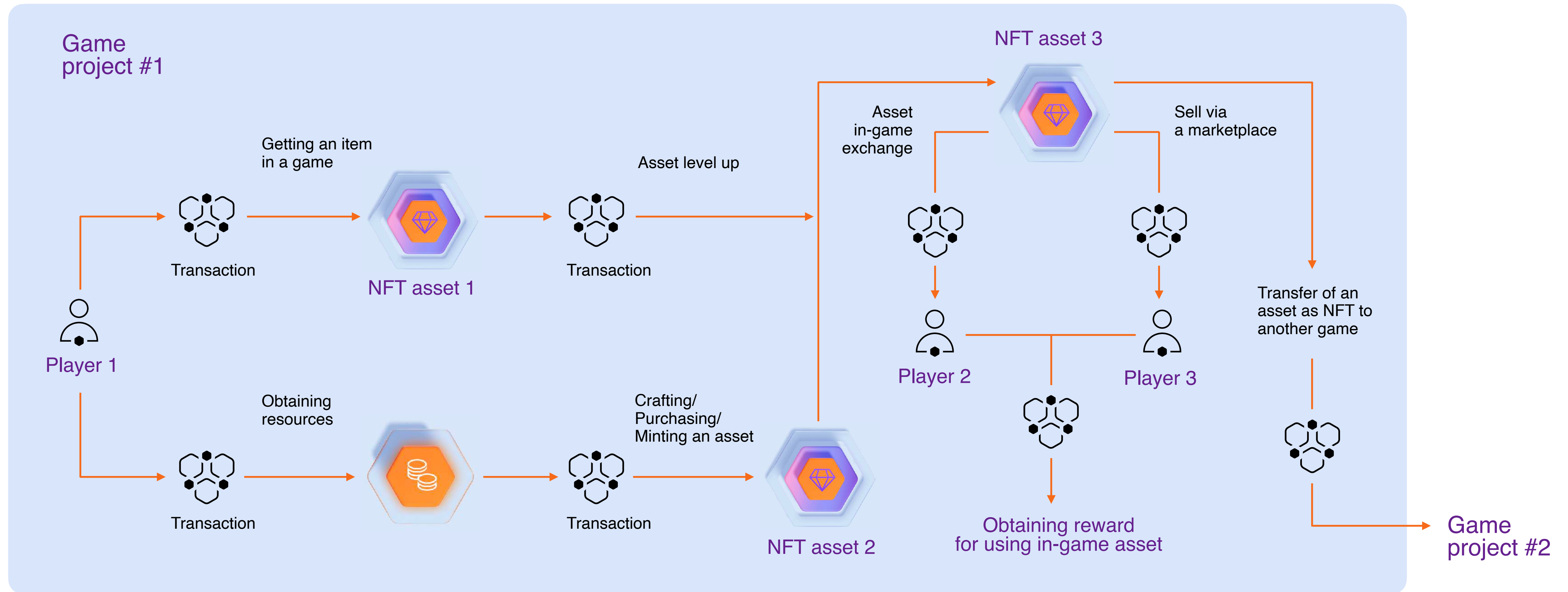
Decentralized cloud storage for securely storing NFTs and other game data



AI DApp creation and standards for **interoperable NFTs**



Example of a project's data flow within Grape's ecosystem

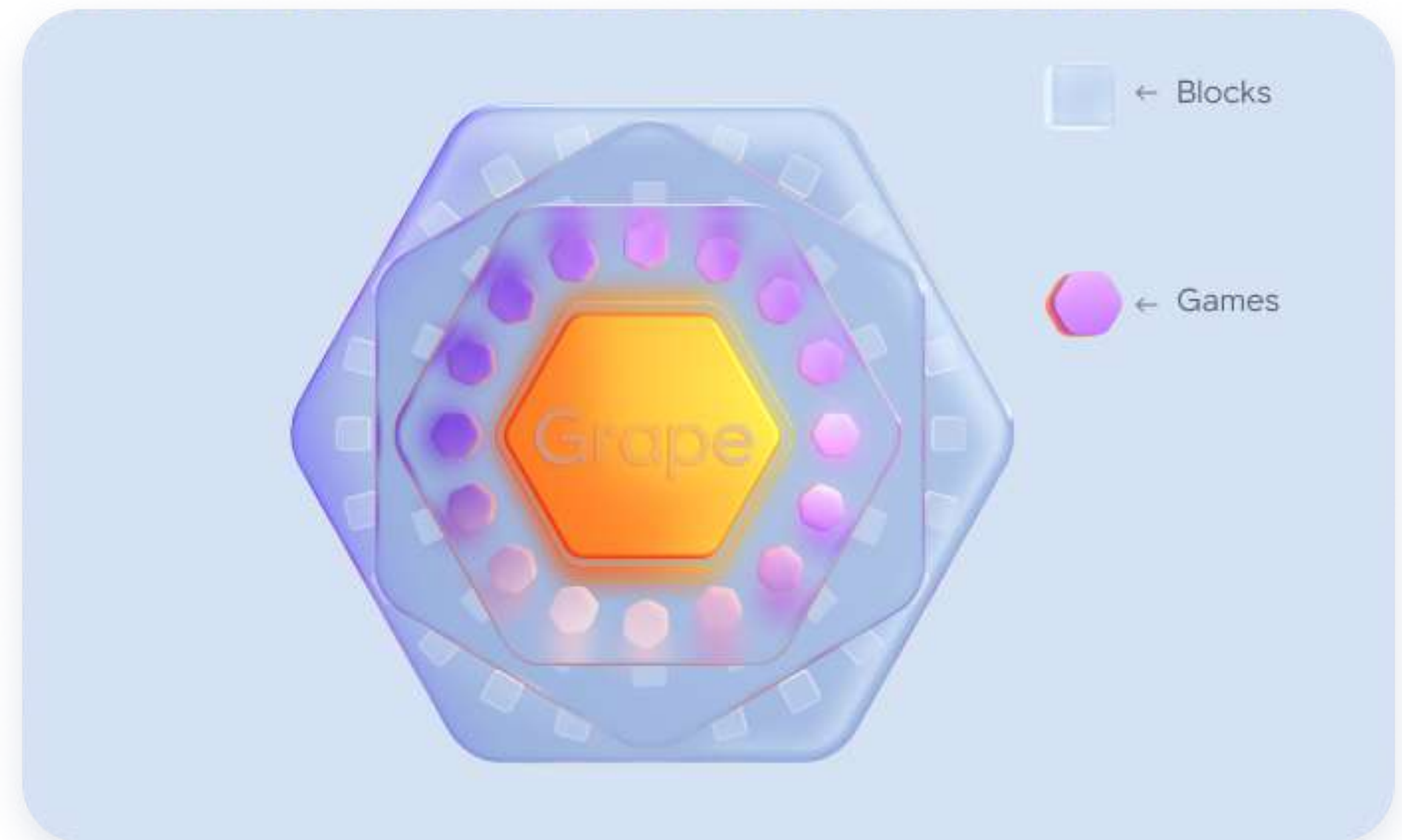


Grape is a robust decentralized infrastructure capable of handling the most extreme loads, while maintaining unlimited scalability

VINE allows formulation of the transaction tree **asynchronously** without hitting the bottleneck of linear limitations.



One of the most technology advanced blockchains, Solana, had an 18 hours of downtime due to transaction overload.



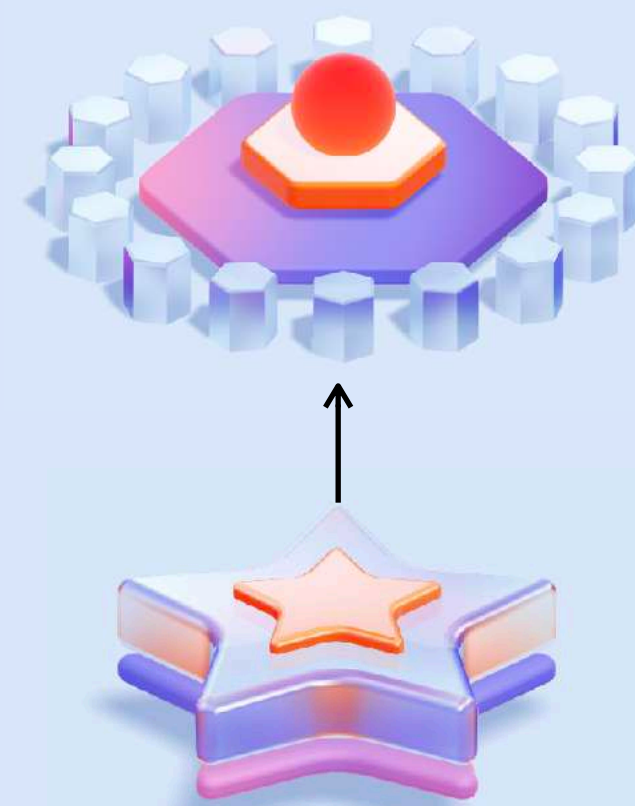
The primary goal of Grape is to create a fully decentralized infrastructure



Due to its unique design, Grape network performance will grow with each new advanced node connected to it.

1 Advanced validators will need to store database to ensure effective scalability of the network.

2 Basic validators will be able to verify transactions with any device without the need to store a database.



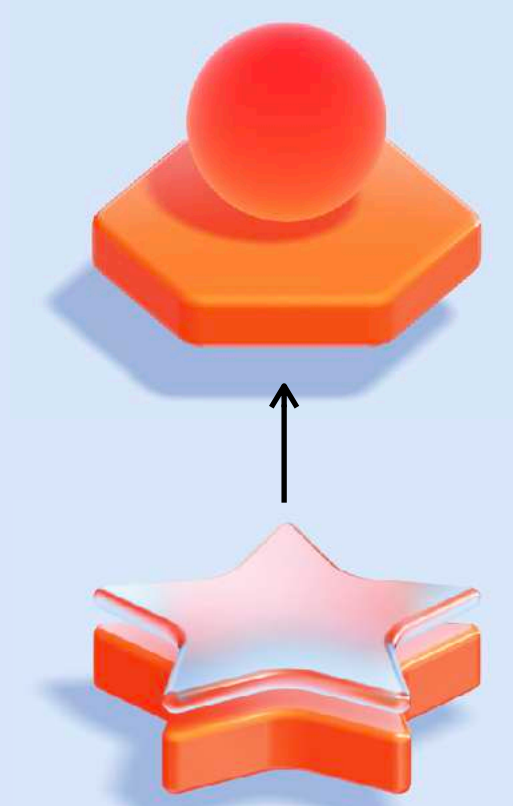
Advanced node

Extra rewards

Validation

Basic node

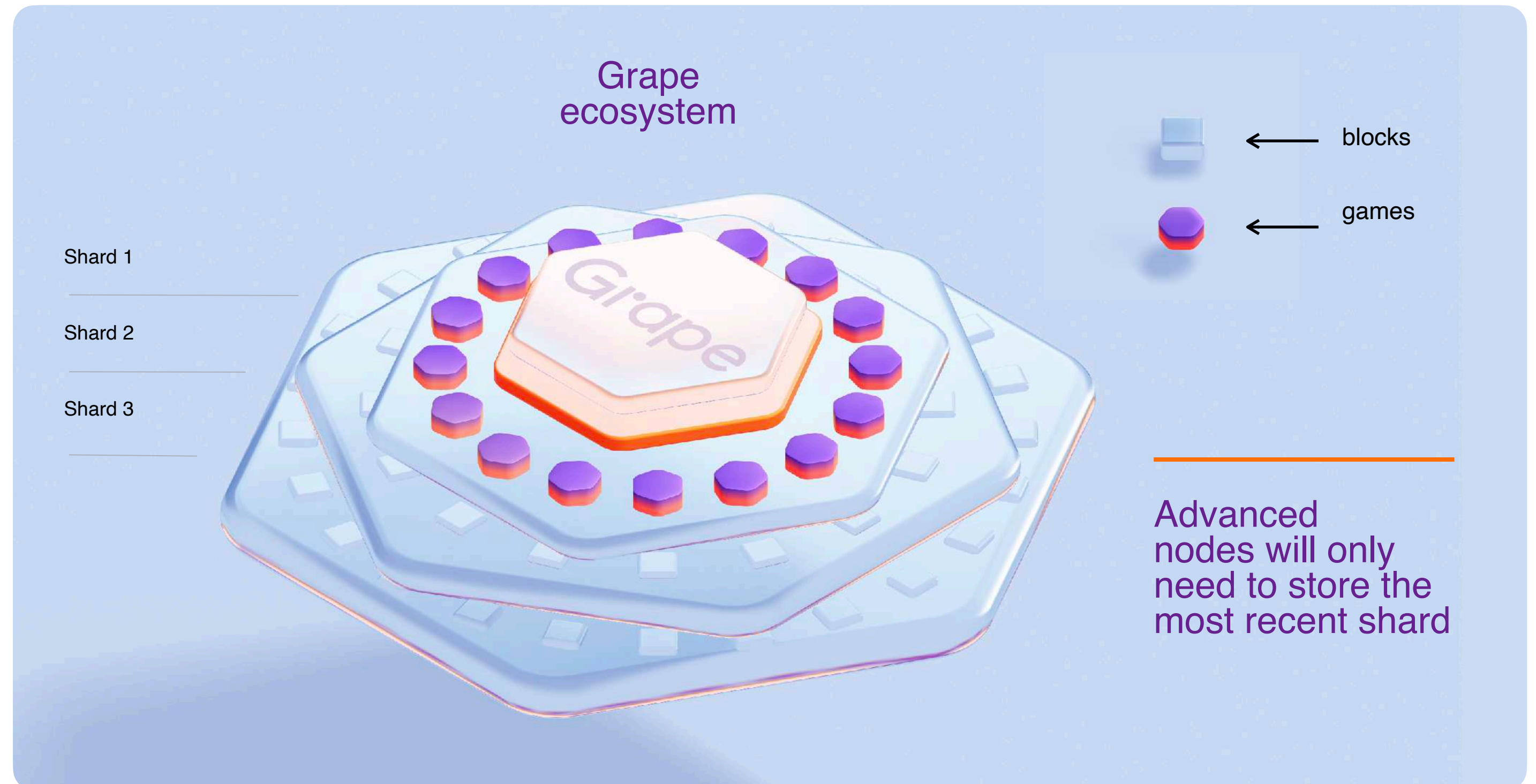
Rewards



To make advanced nodes even more accessible and achieve higher performance for Grape, sharding will be launched to split the database



In comparison, to participate in block validation in Ethereum, a user requires to stake at least 32 ETH and have more than 900 terabytes of free space to download the full Ethereum blockchain.



VINE is an evolutionary mechanism for scalability

700K+ TPS Grape

10x faster than Solana

150x faster than Avalanche

350x faster than Tron

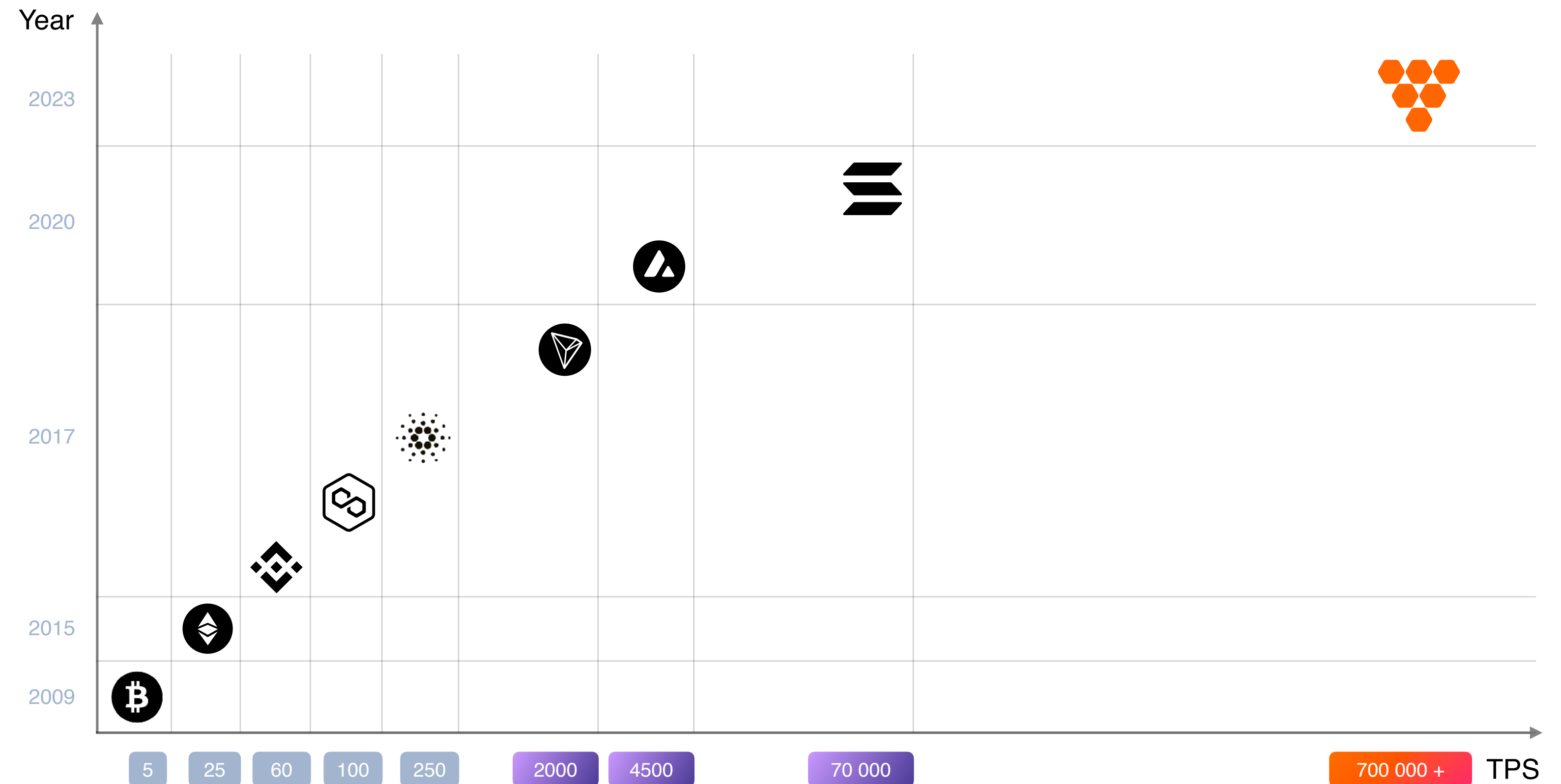
2Kx faster than Cardano

5Kx faster than Polygon

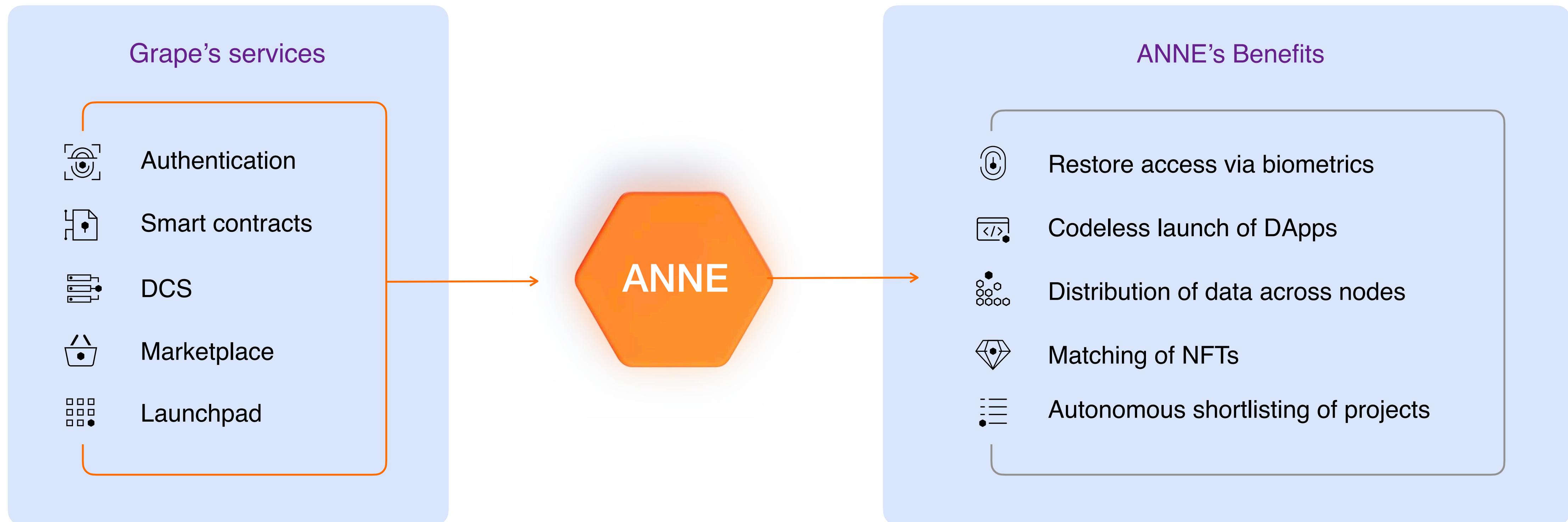
7Kx faster than BSC

17Kx faster than ETH

84Kx faster than BTC



ANNE is a proprietary AI-based interface that improves each functional module of Grape



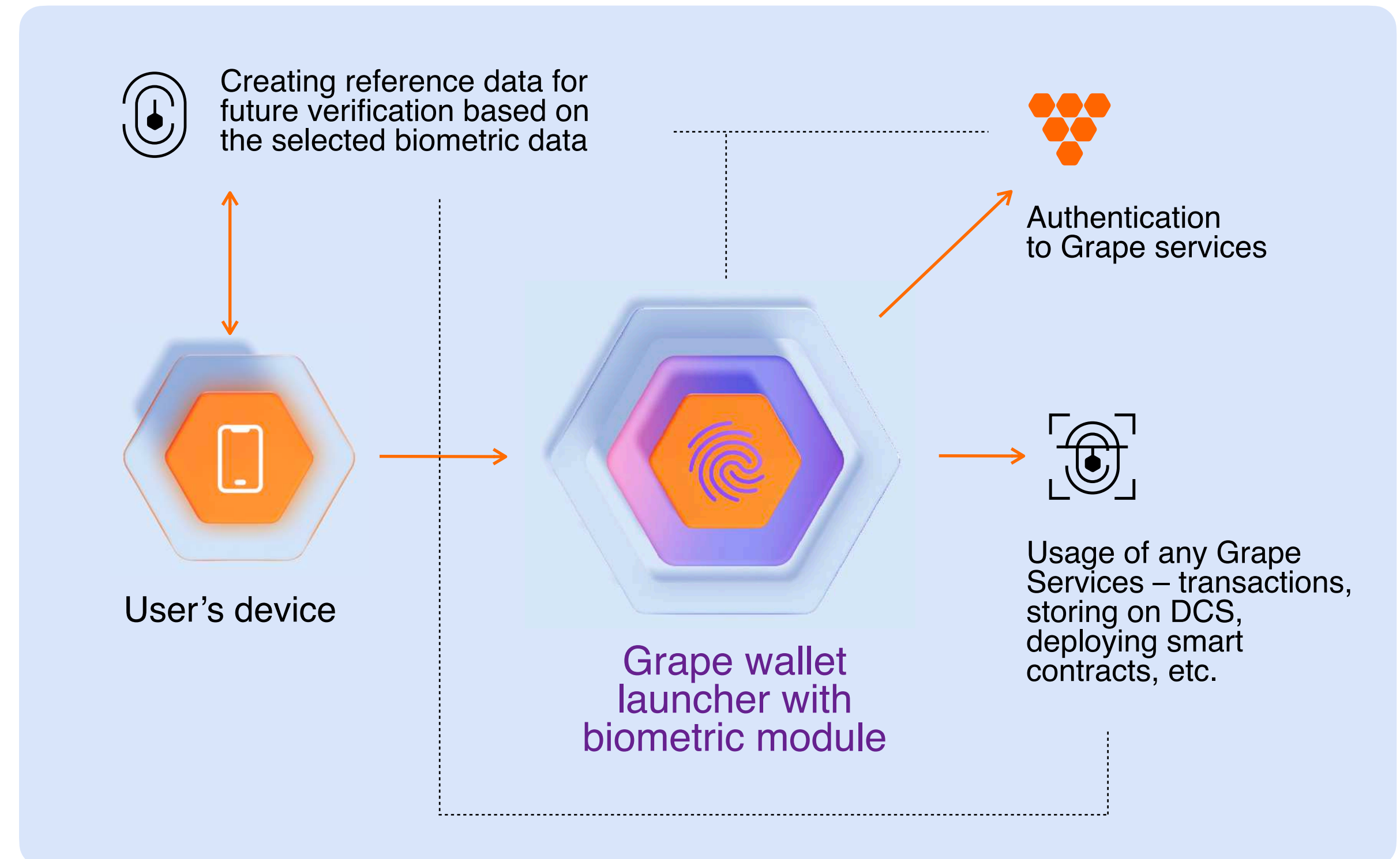
Grape will allow multiple biometric options for authentication and verification options including ECG

Maintaining decentralized approaches to privacy, users will be able to access wallets using **unique biometric identifiers** including electrocardiogram.

Security levels will be fully **customizable** through the application to simplify operations with assets and ensure the highest security level.



Cryptocurrency theft increased 516% from 2020, to \$3.2 billion worth of cryptocurrency.

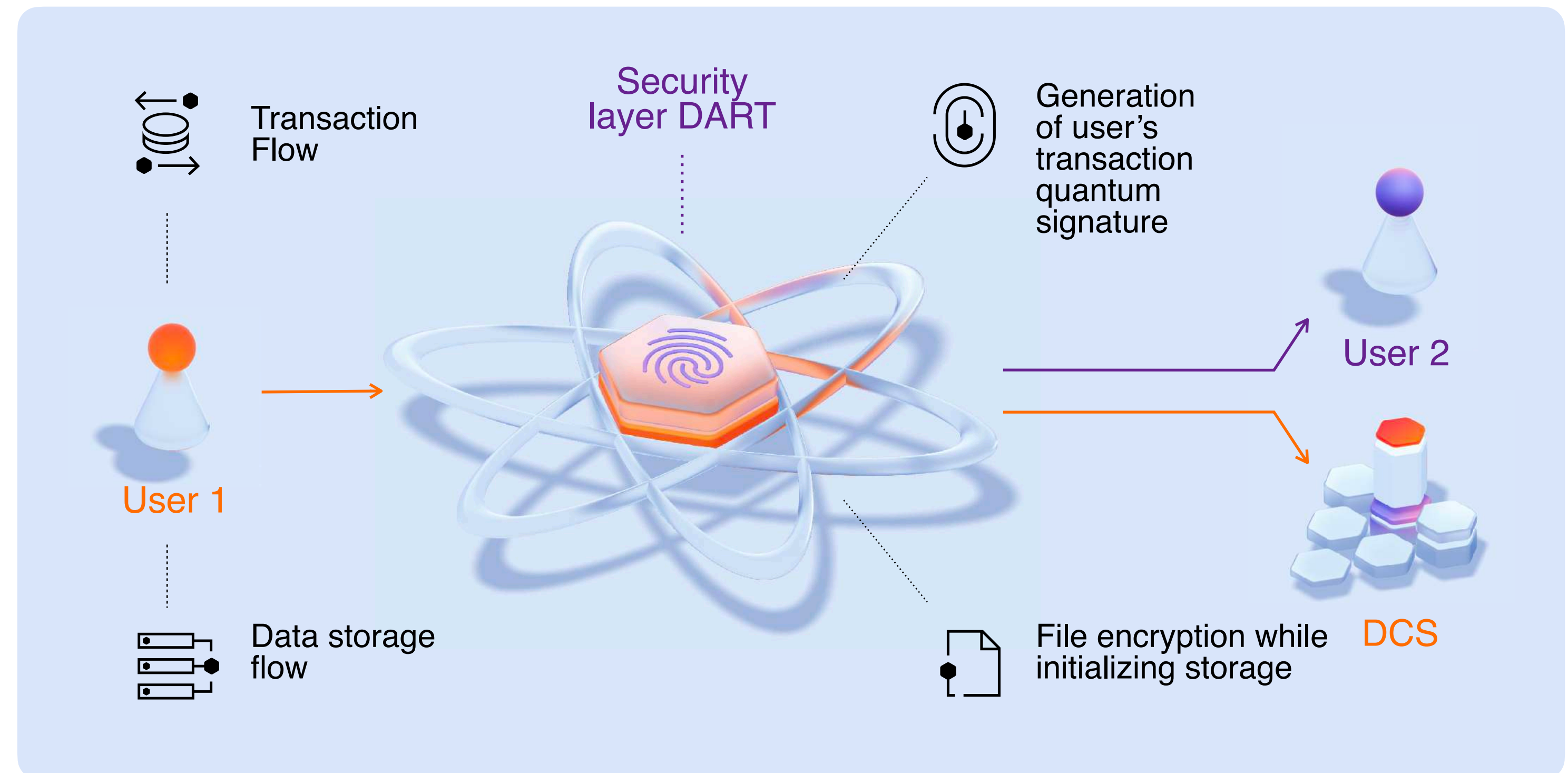


Grape quantum resistance is a fundamental requirement in the post-quantum world

A proprietary module DART is based on a **quantum-resistant** encryption algorithm, which allows Grape to ensure comprehensive security.



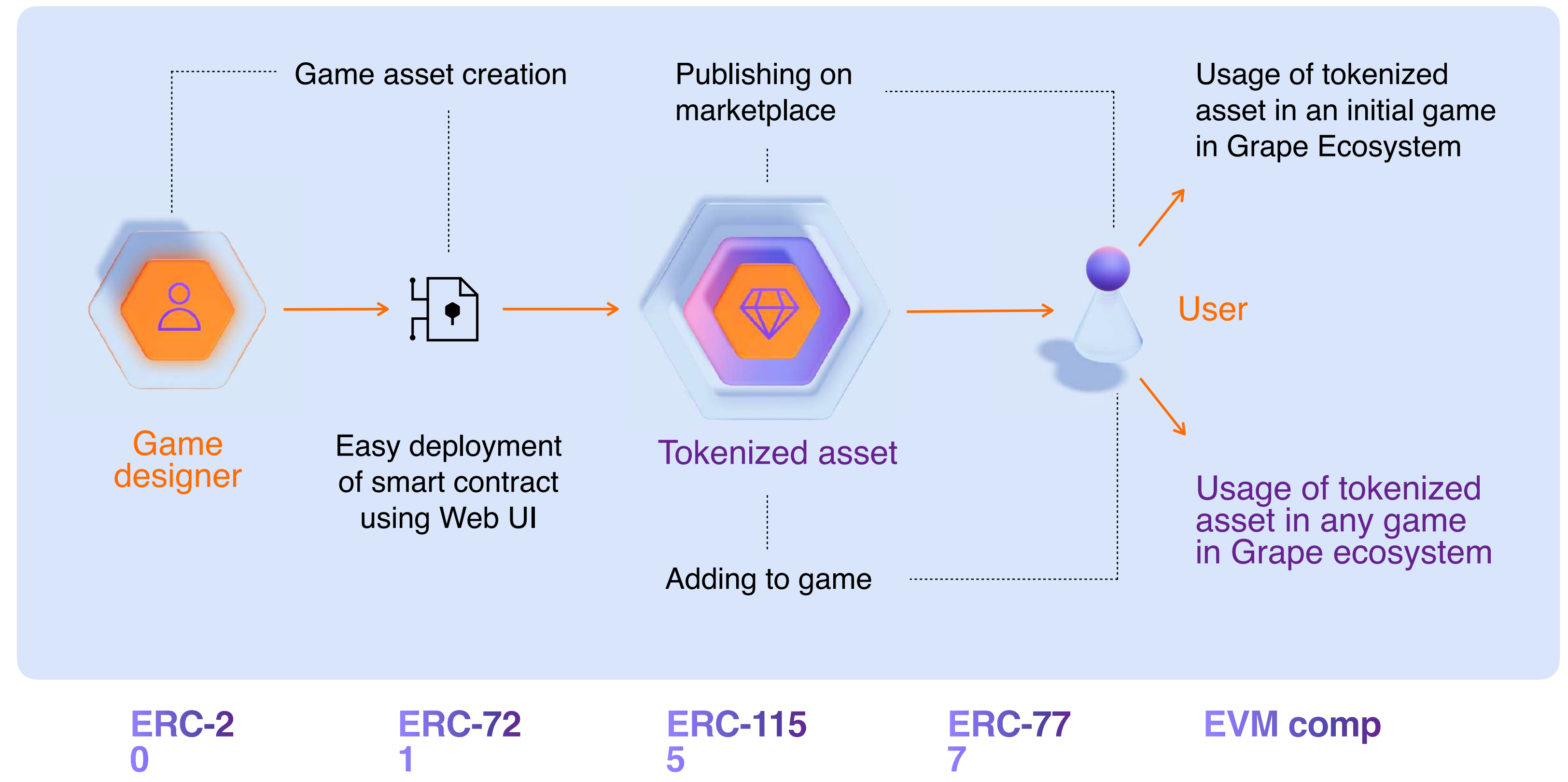
Opinion-based estimates of the cumulative probability of a digital quantum computer able to break RSA-2048 within 24 hours.



Grape's unique smart contract engine removes boundaries between virtual worlds by introducing interoperable NFTs



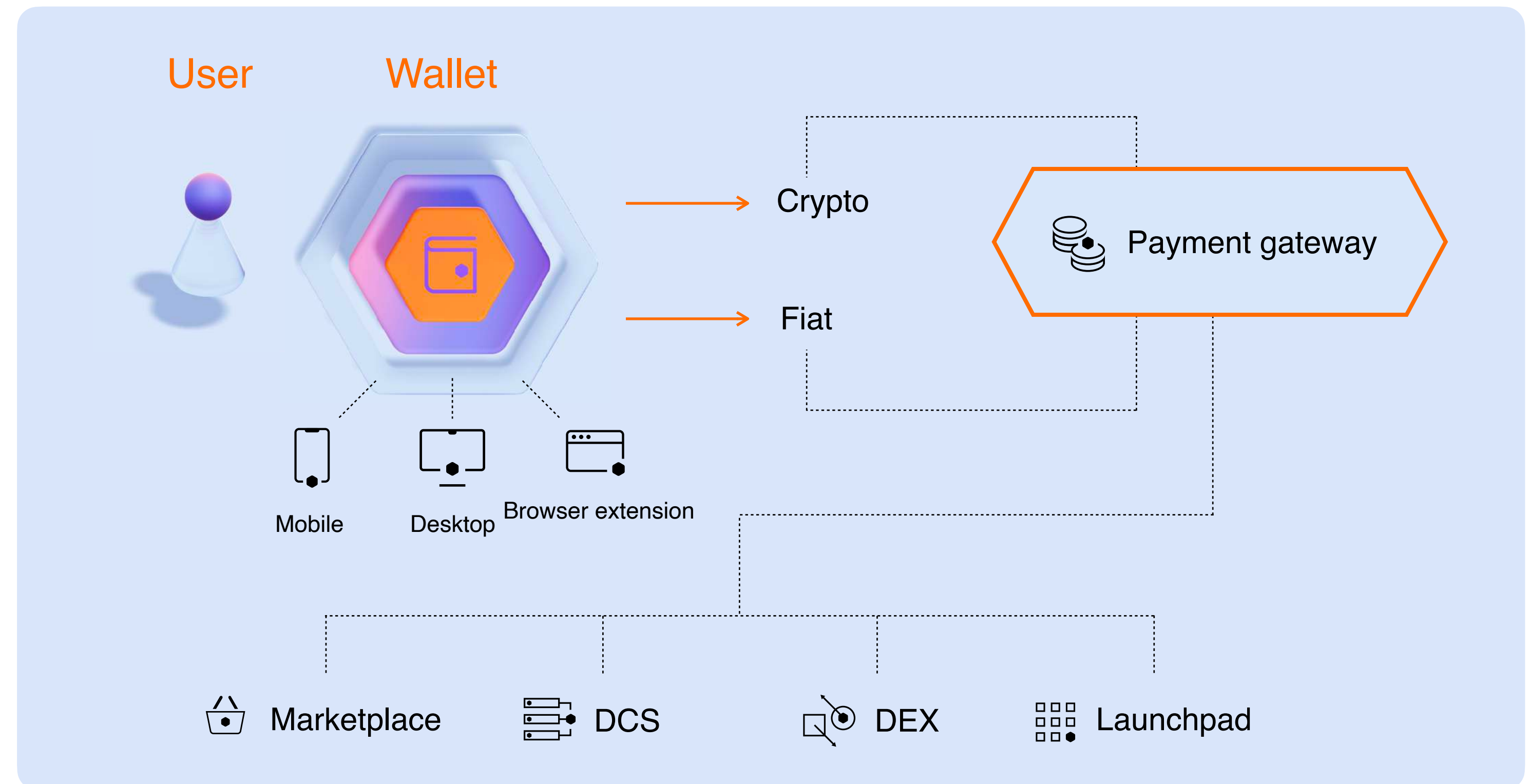
Some platforms like Oculus perceive the development of an open NFT market on their platform as a competitive advantage.



Grape will support both fiat and crypto in its multi-platform wallet

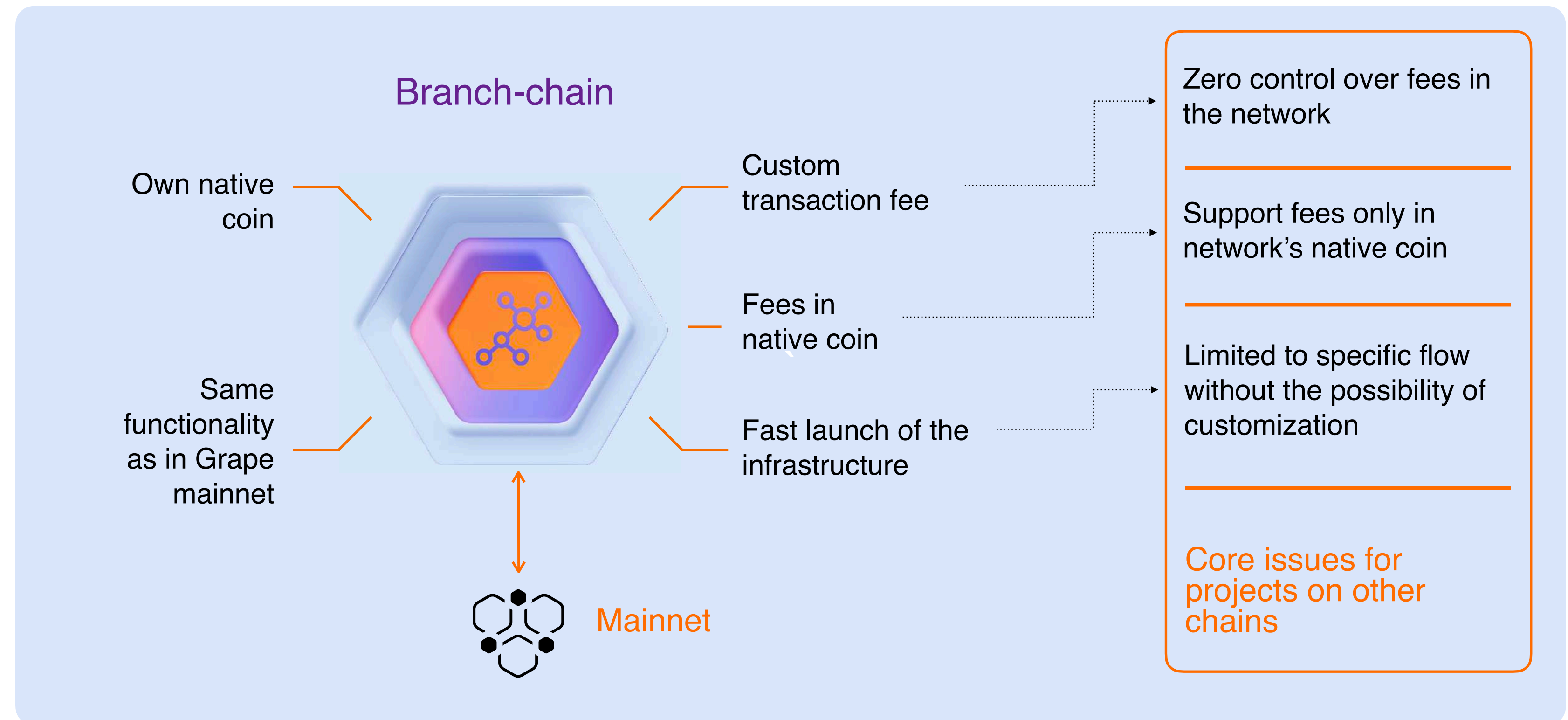


With recent beta launch of fiat-crypto on-ramp solution from Stripe, it becomes obvious that market requires on edge solutions to be able to use blockchain with both fiat and crypto.



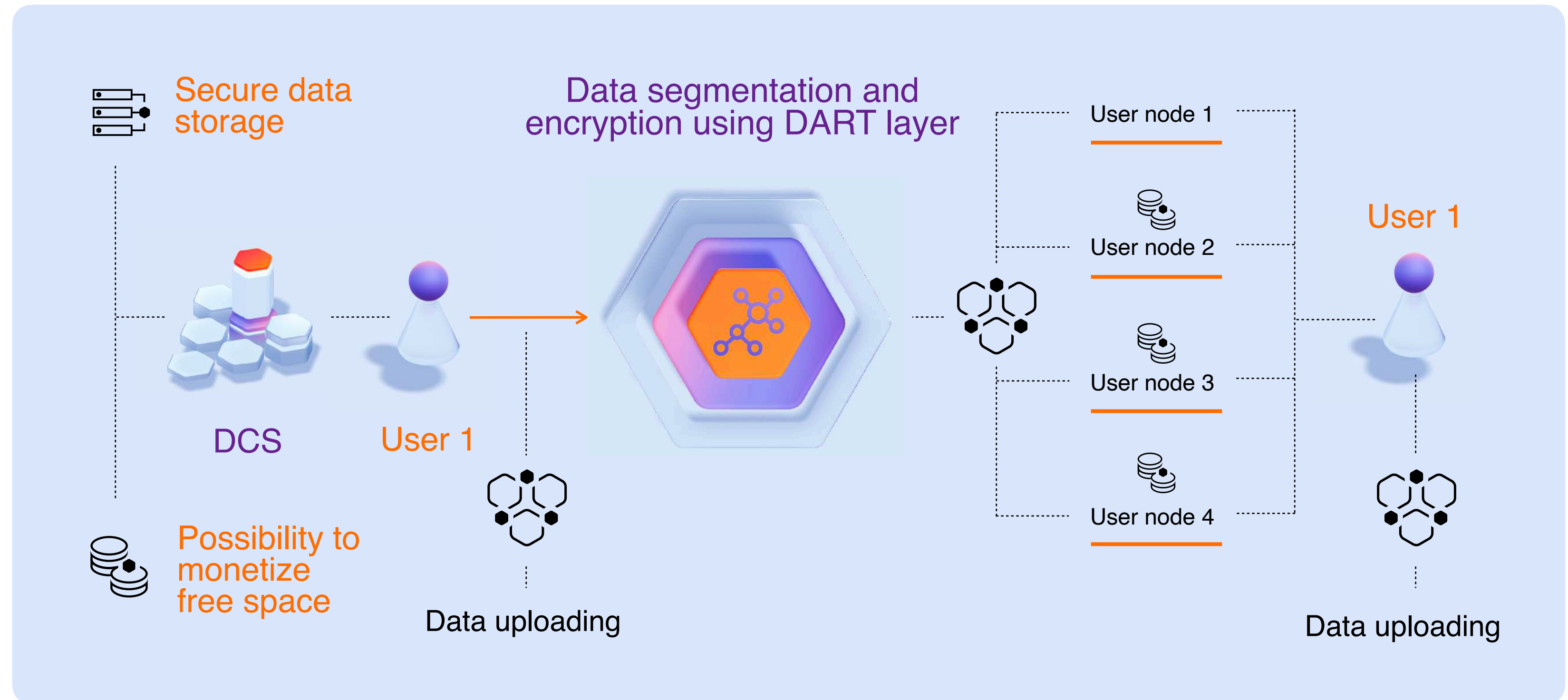
Grape will introduce Web4-as-a-Service as a tool to launch projects using ready-to-deploy infrastructure

Grape will provide an **autonomous infrastructure** for projects requiring custom operations flow with most of the ecosystem's benefits.



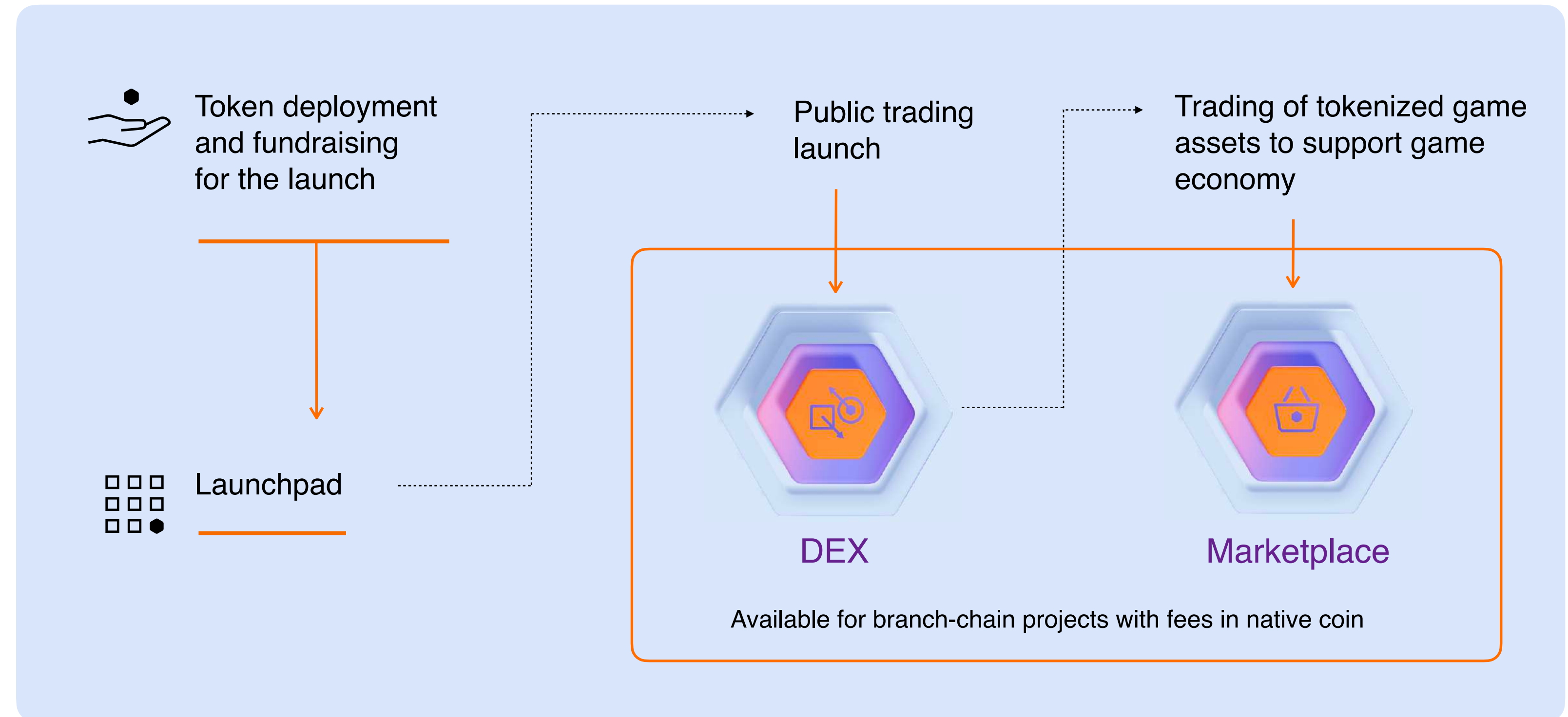
Decentralized Cloud Storage (DCS) is a crucial element of the decentralized ecosystem

Grape will allow **anyone** to become a **node operator** and provide disk space for distributed data storage in exchange for a reward.



Grape allows anyone to launch and maintain projects within a **single ecosystem**

Grape's economic infrastructure covers the **full cycle of a project's needs** from fundraising to the initial token launch on the exchange or marketplace.



Section 3 - Tokenomics



Tokenomics

Distribution

Seven whitelist distribution rounds, with 2,000 or less spaces available in each round, each round has minimum buy amounts.

	Total supply %	Total supply
Pre-Distribution	40%	4,000,000
Staking and Community rewards	10%	1,000,000
Grape DAO	10%	1,000,000
Grape Labs	40%	4,000,000
Total	100%	10,000,000

Price Protection Protocols

All distribution purchases have a 120-day hold with 20% APY. After this staking period, the distributed GRP is subject to a 30% sell tariff for the first 30 days, 20% for the second, and 10% for the third.

These tariffs will be paid to holders GRP, increasing the 20% APY.

Exchange Listings

Planned First Exchange Listing: September 2023. To launch close to mainnet (subject to change).

Planned Exchange Listing Price: \$50 (subject to change based on market conditions)

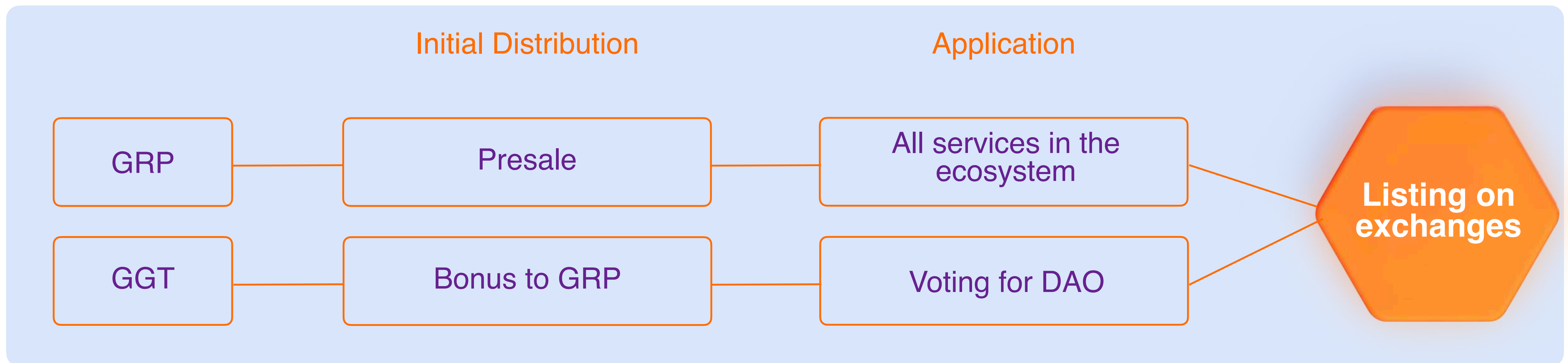
Planned First Exchange: Uniswap & Bitmart (in order to uphold price protection during the post-launch phase) then other major exchanges.

Distribution: \$GRP & \$GGT

To form a strong economy in the Grape ecosystem, and have a clear application, the team has decided to make governance a separate token.

\$GRP is the main token of the Grape ecosystem that allows accessing all functions and services.

\$GGT is a governance token that will be launched on Grape's smart contract engine that will be used to create proposals and vote on the future of Grape.



Grape economics and tx fee structure

Grape's goal is to ensure that ecosystem operators and the community earn sufficiently from commissions to maintain and grow the network.

Gas fees for operations and gwei structure will be introduced with public testnet launch.

Basic tx fee distribution

Receiver	Share
Basic node	30%
Advanced node	60%
Grape DAO	5%
Grape Labs	5%
Total	100%

Launchpad commission to platform

2.5% in raised funds

90% goes to Grape Labs

2.5% in token

10% goes to Grape DAO

DCS cost structure

\$2.5 for node operators per 1TB of data

\$25 for node operators for 1TB of egress bandwidth

\$3.5 for users per 1TB of data

\$6.5 for user per 1TB bandwidth

Roadmap



2023

- Q1 PoC VINE testnet
- Q2 Public testnet launch
- Q3 Decentralized File Storage (DFS) launch
- Q4 Mainnet launch
 - Fiat on-ramp
 - Interoperable NFTsAlpha launch of ANNE

2024

- Q1 Authentication to wallets using biometrics
 - DEX, Launchpad, Marketplace
 - Web4-as-a-Service launch
- Q2 Mainnet sharding
- Q3-Q4 Launch of ANNE

