

The first web4 infrastructure for a decentralized internet

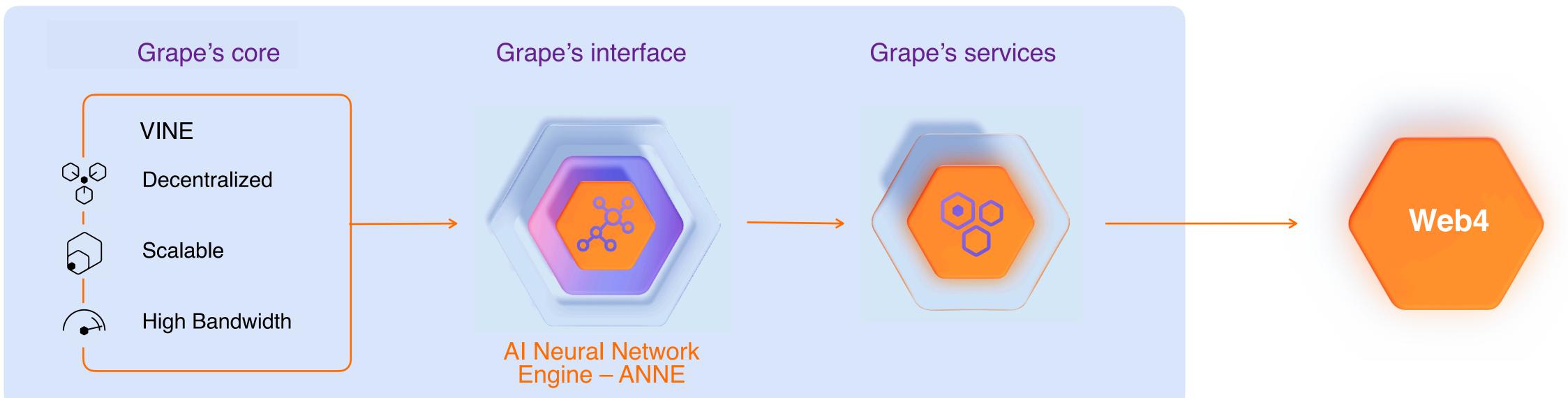


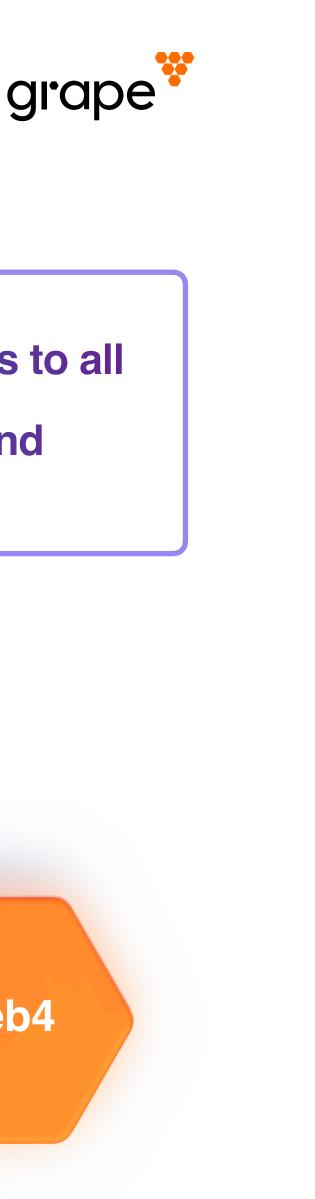


What is Grape?

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.





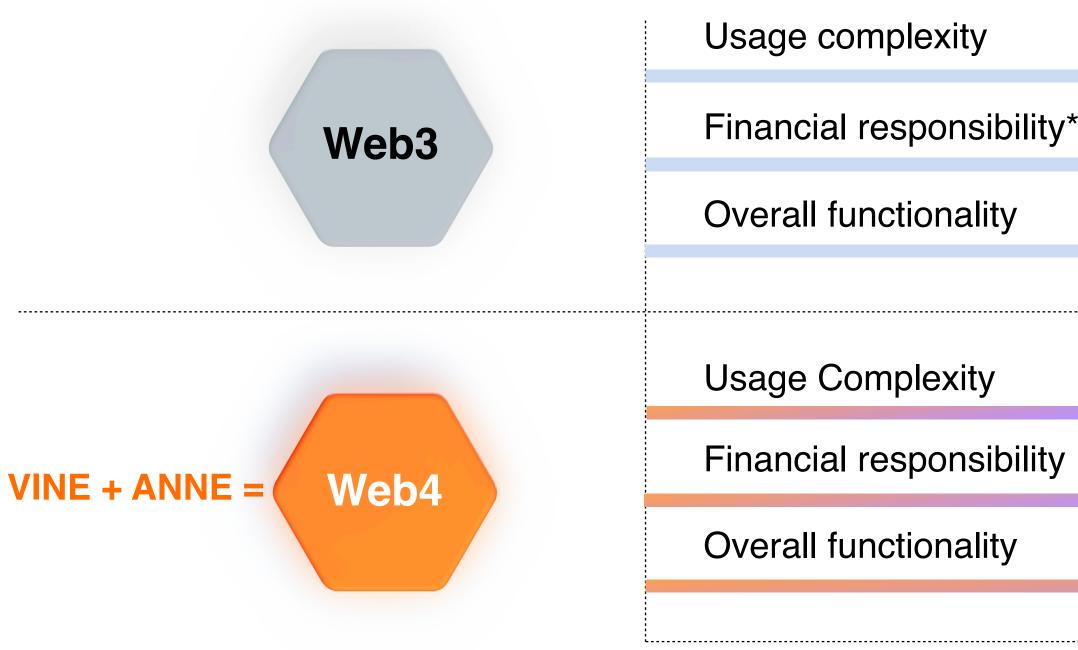
What is web4?

Yeb4 is a decentralized internet ecosystem with biometric access to all applications and an Al-powered assistant to easily create apps and navigate between them.

What is unique in Grape?

Grape has created 2 proprietary technologies that, when combined, can improve the adoption of web3 and push it to the next industrial level.

- 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 Web 2.0.







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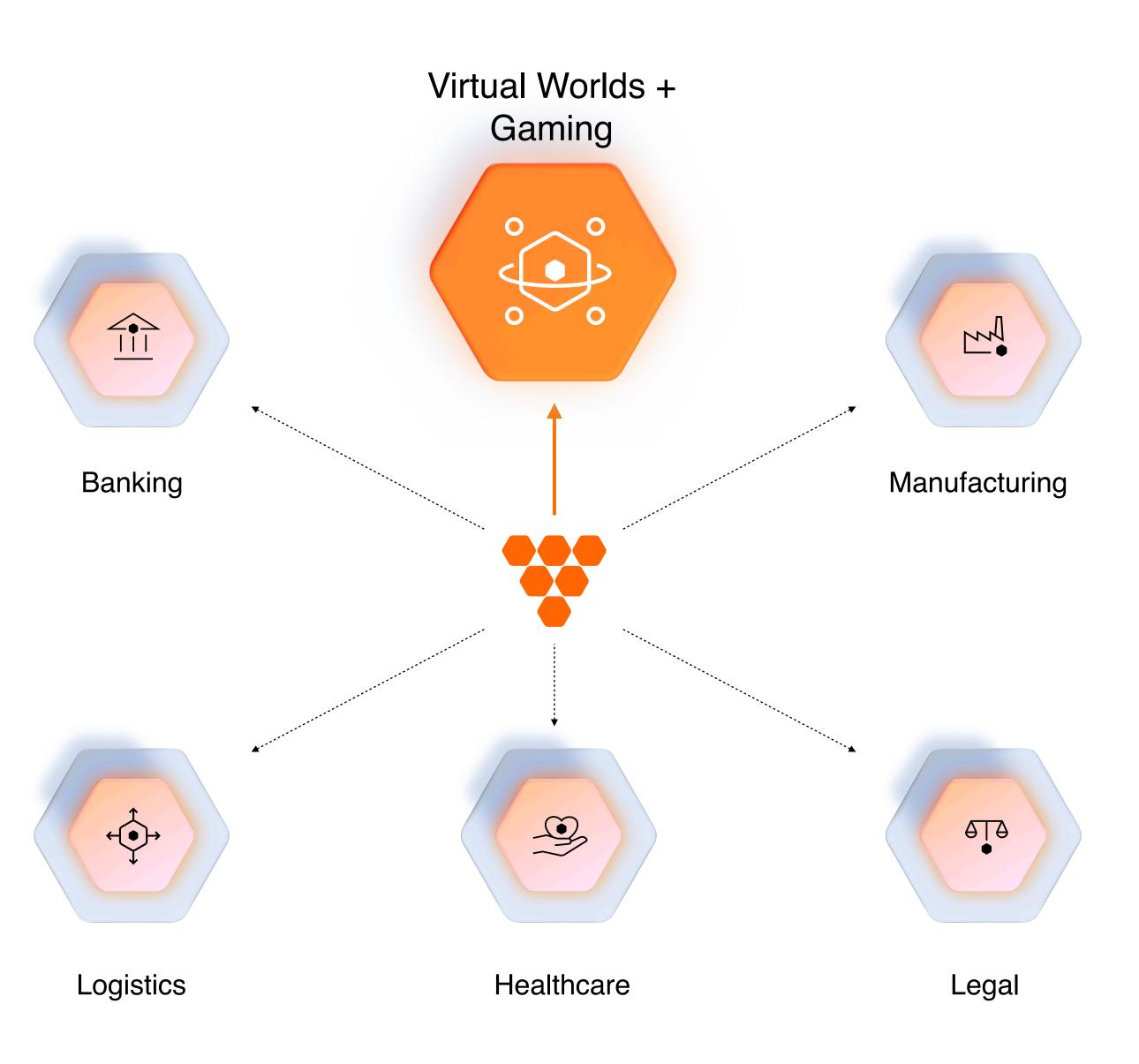


Which industries can benefit from Grape?

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.

We chose 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.

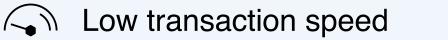
GameFi users generate ~500 million monthly transactions.

Most ecosystems launch investment funds - Tron Foundation launched \$300 Million GameFi Fund.

Bottlenecks of current layer 1s:



• $\overset{\checkmark}{\bigcirc}$ High transaction costs





Insufficient infrastructure



 \bigcirc Limited token interoperability



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





Limited security features



 $\mathbf{E}_{-\bullet-}$ Usage of centralized storages



Web3 and virtual world requirements for a truly decentralized infrastructure





Easy-to-use tools to launch dApps and web3 projects



Military-grade security of funds and infrastructure



Decentralized data & digital-asset storage

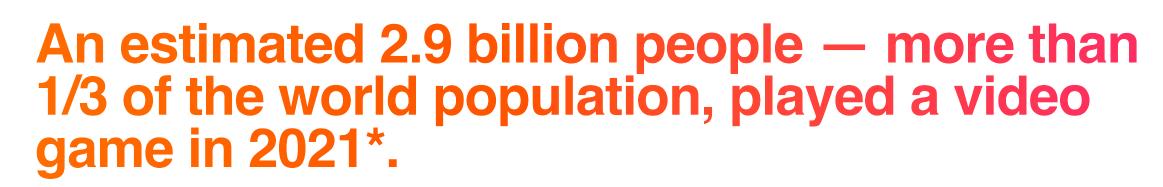


Interoperable NFT standard





Grape is targeting the fastest growing industries



Virtual world market to surpass CAGR 43.7%	\$1,525.7 bil
The gaming market to surpass CAGR 10.2%	\$470 billion
GameFi market to surpass CAGR 23.7%	\$74.2 billior



illion by 2030

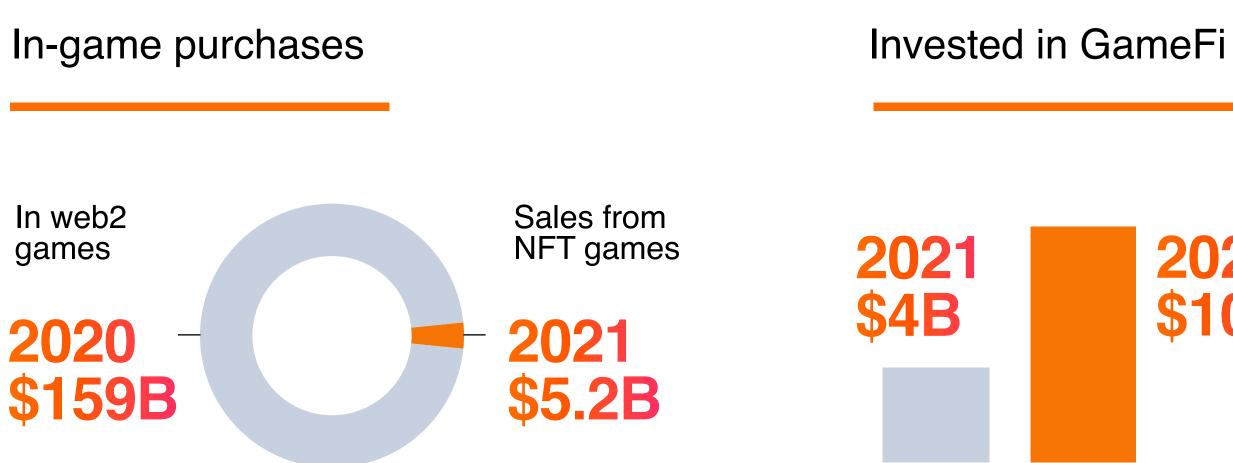
n by 2030

on by 2031





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

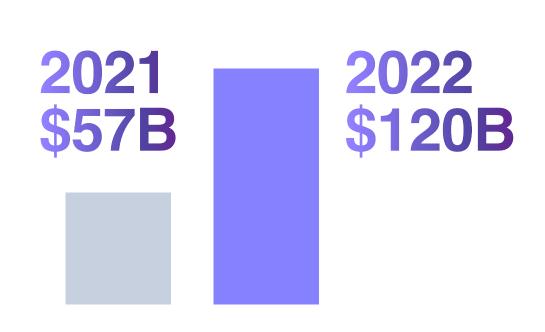


Microsoft's \$70B acquisition of Activision will allow the company to develop Microsoft-backed games and software within the metaverse in the coming years.



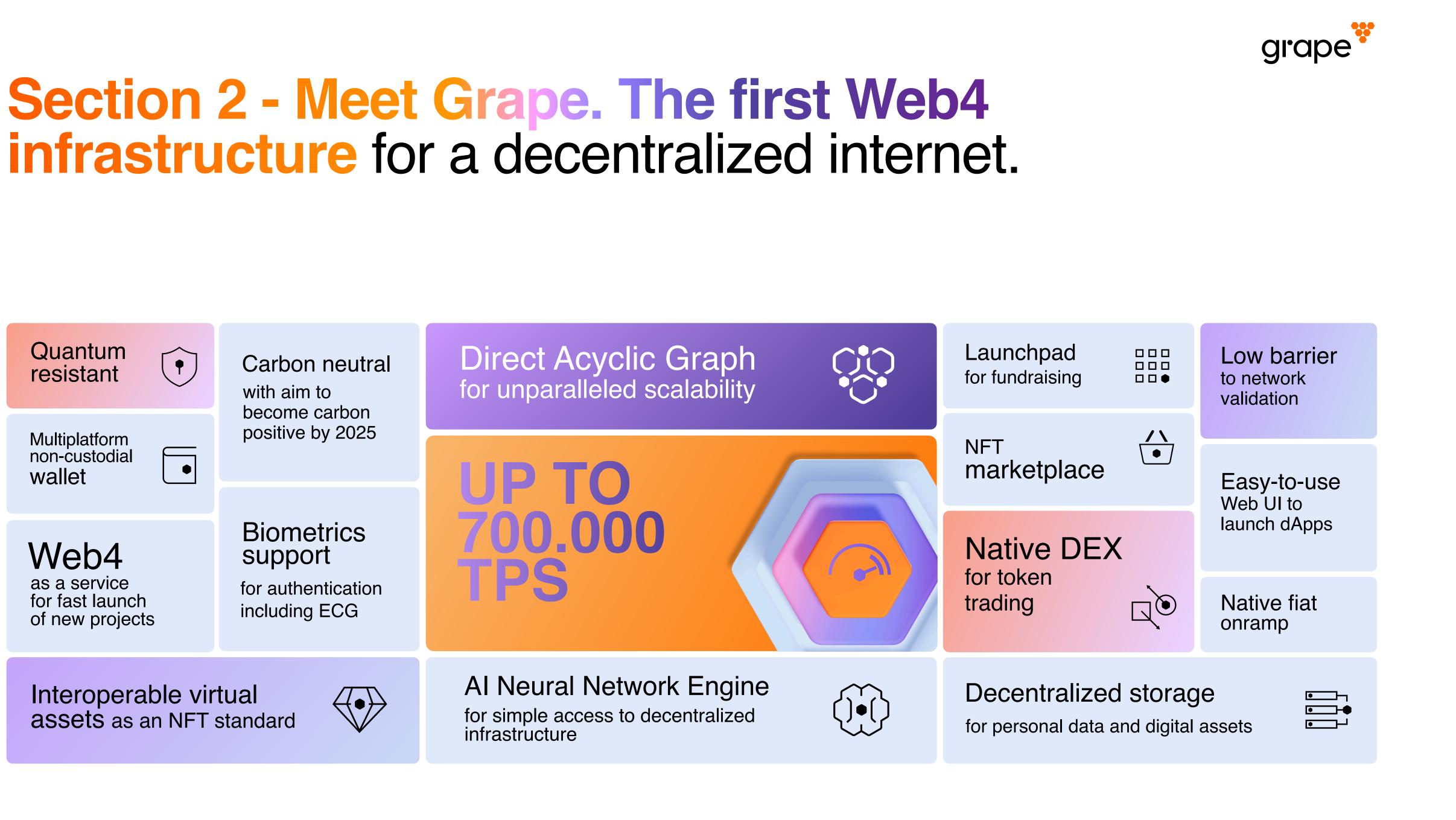
Invested in metaverse

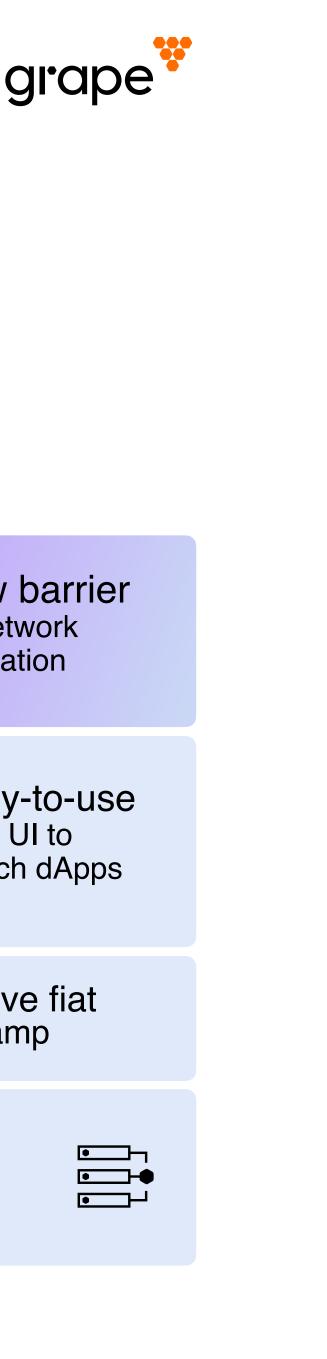
2022 **\$10B**



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

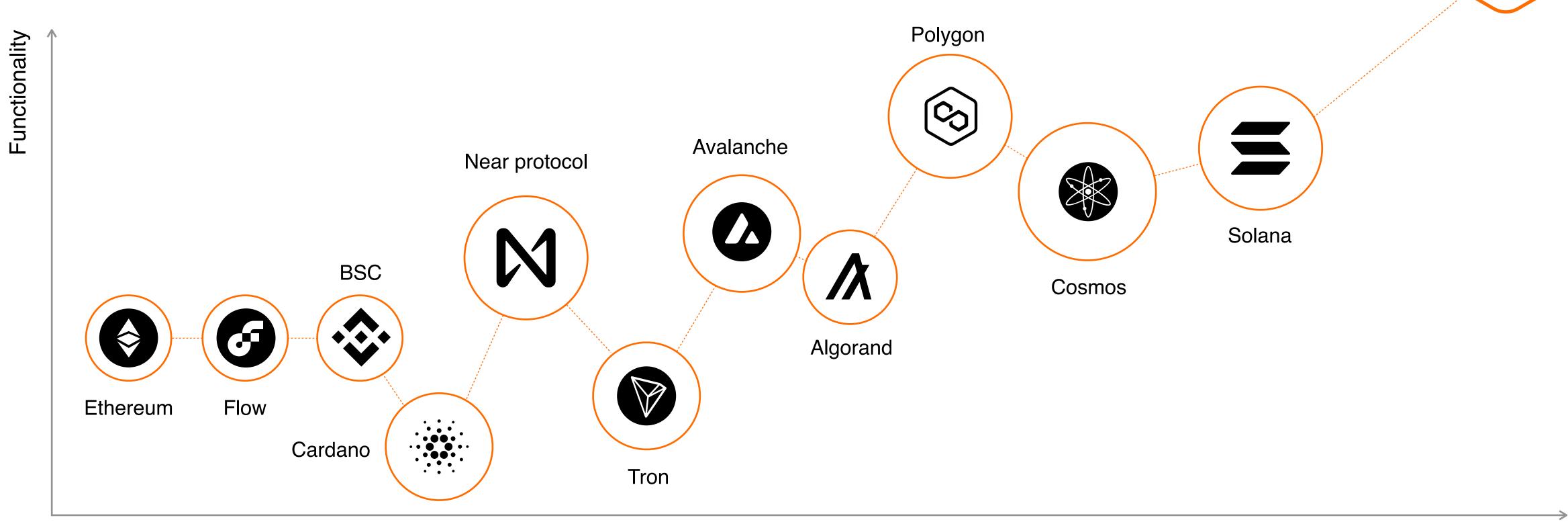






Grape's infrastructure allows launching any web3 dApps

Grape has half of the BTC total supply, many times the features of leading coins and the network power of most of the top 30 coins combined.

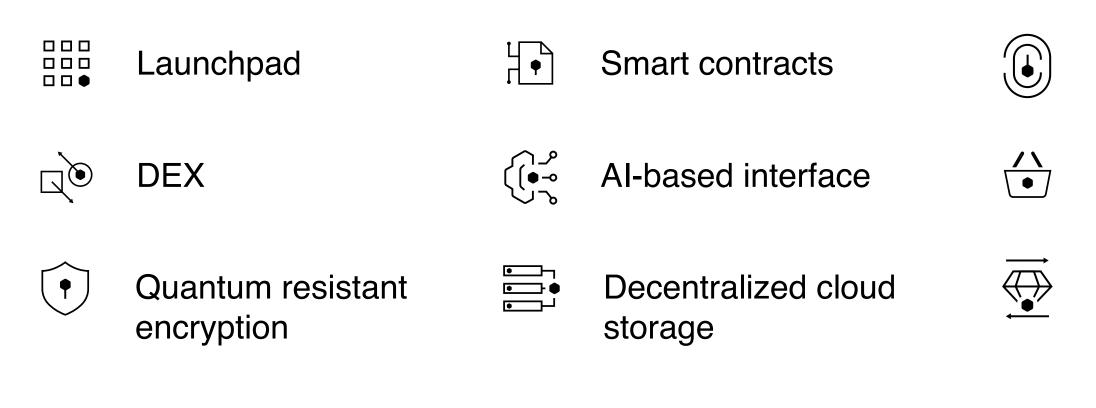


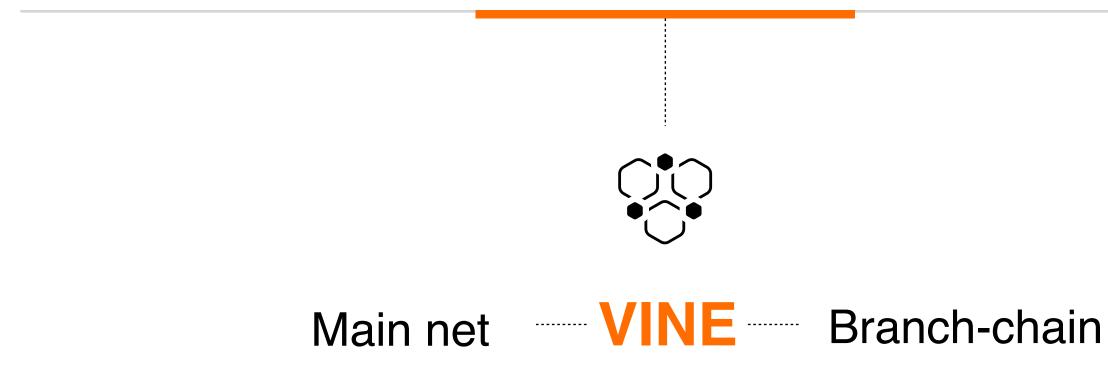


Grape



Grape created VINE -a proprietary DAG basis with multi-layer functionality

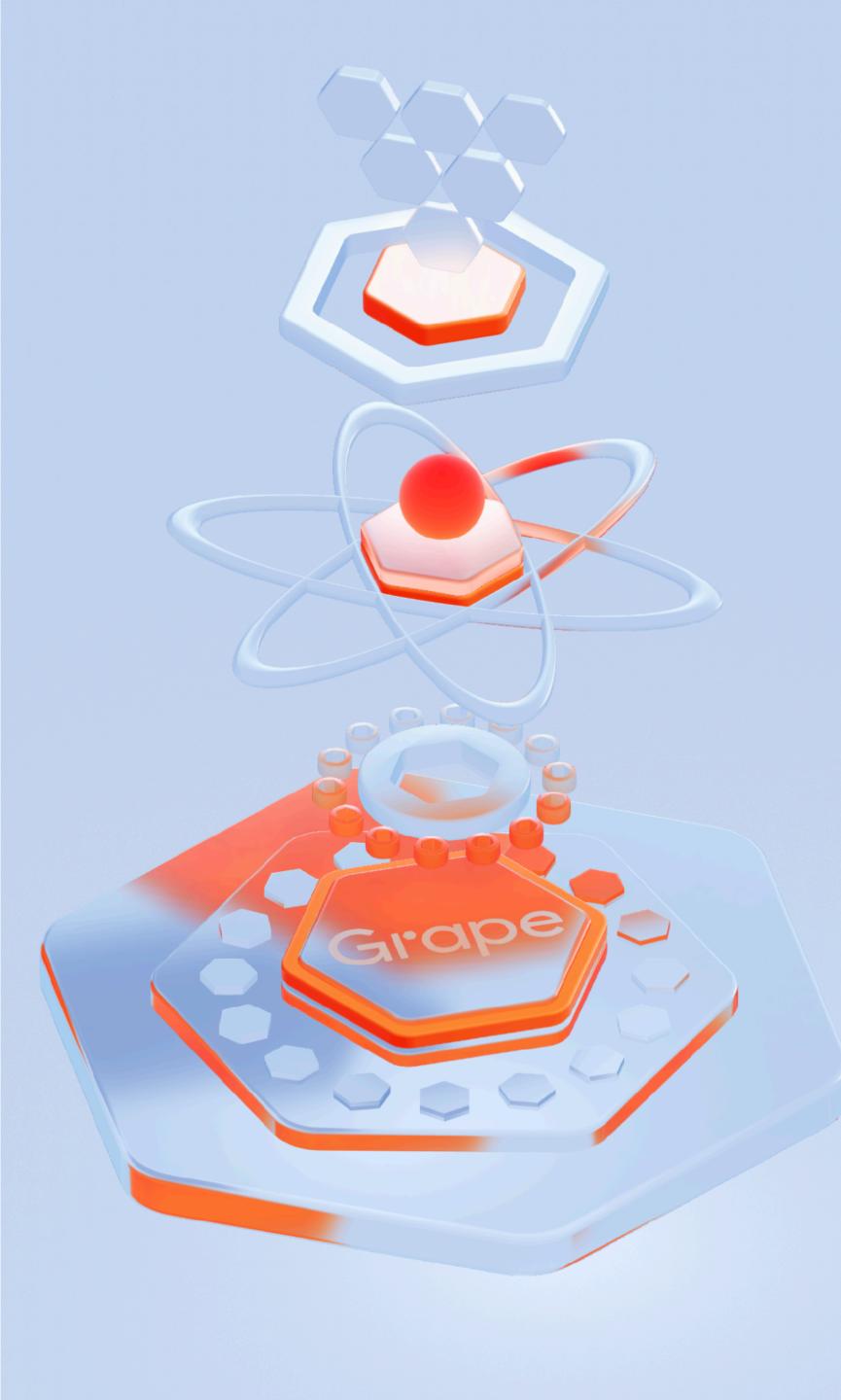




Biometric users access

Marketplace

Interoperable NFTs standard transfer



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

The Grape main pillars to ensure ecosystems operation are:



VINE - scalable DAG technology for fast and cheap transactions



Decentralized cloud storage for securely storing NFTs and other game data

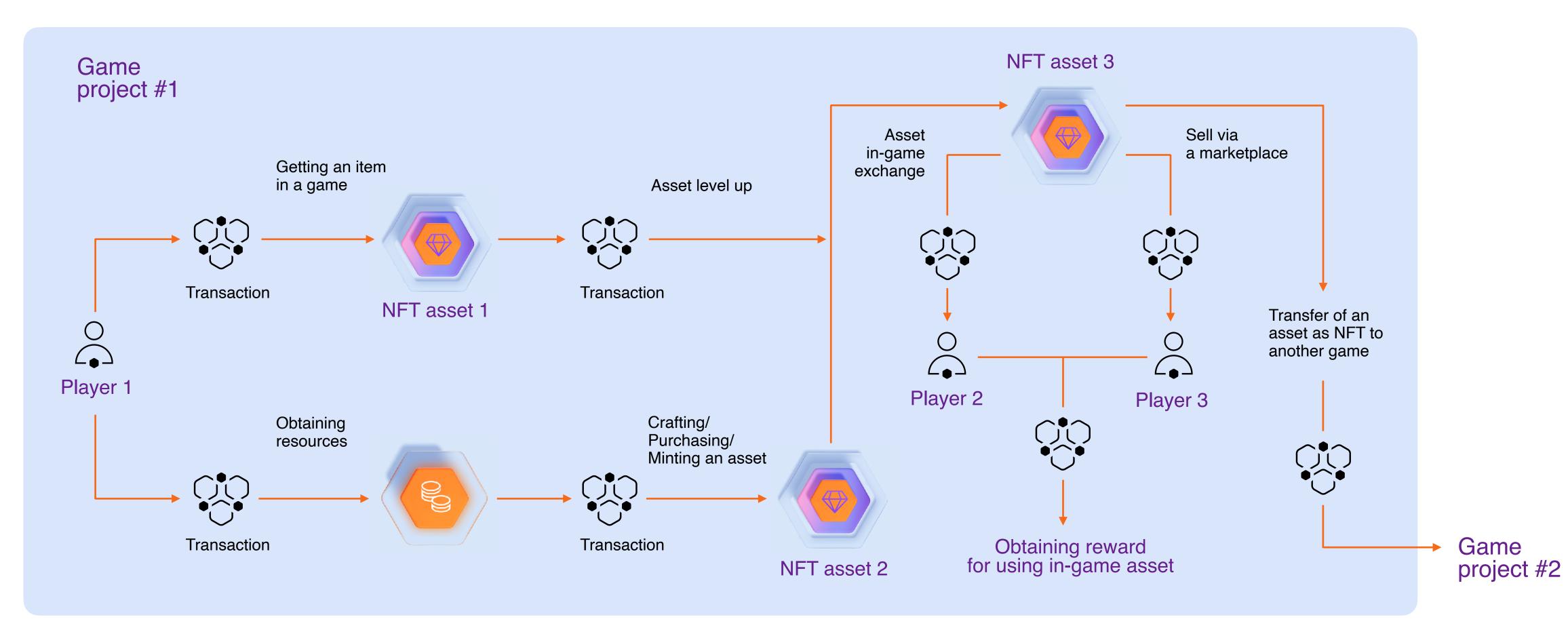


AI Dapp creation and standards for interoperable NFTs





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





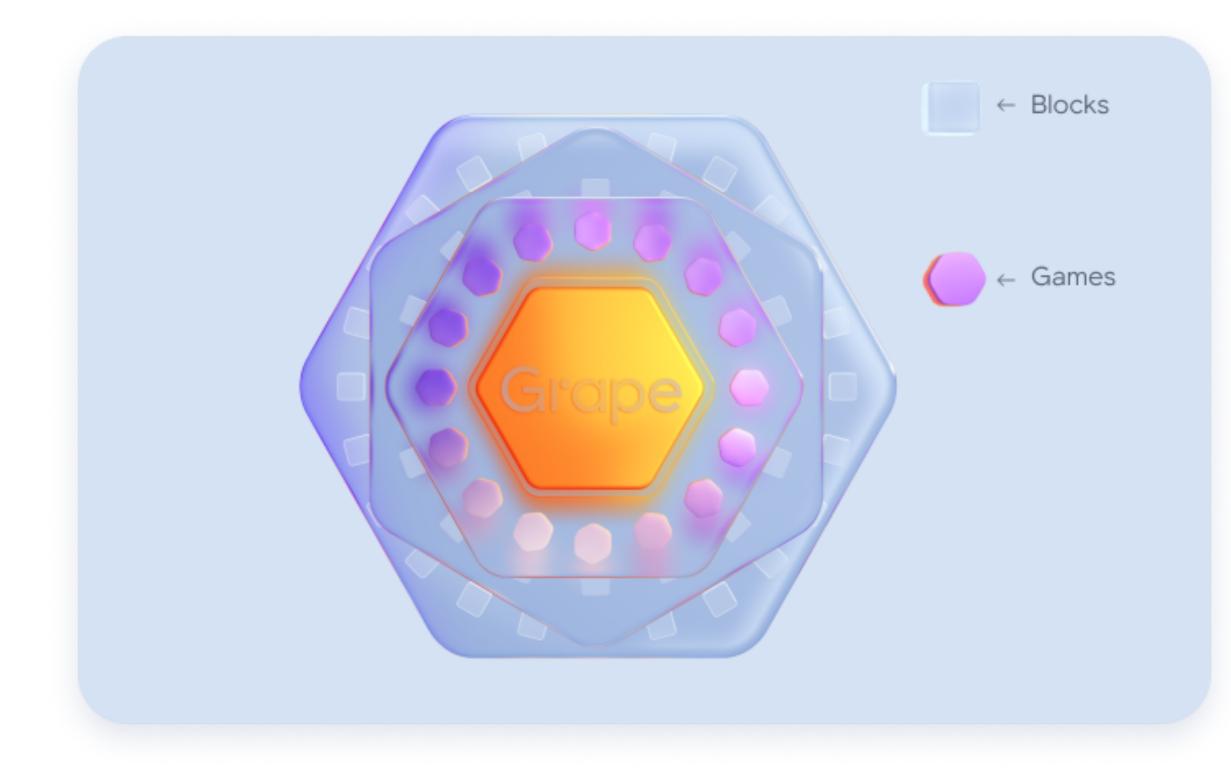


Grape is a robust decentralized infrastructure capable of handling the most extreme loads, while maintaining unlimited scalability.

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

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



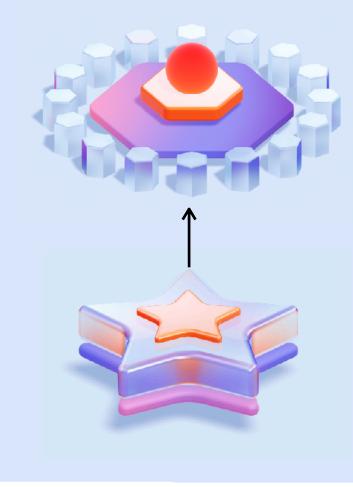


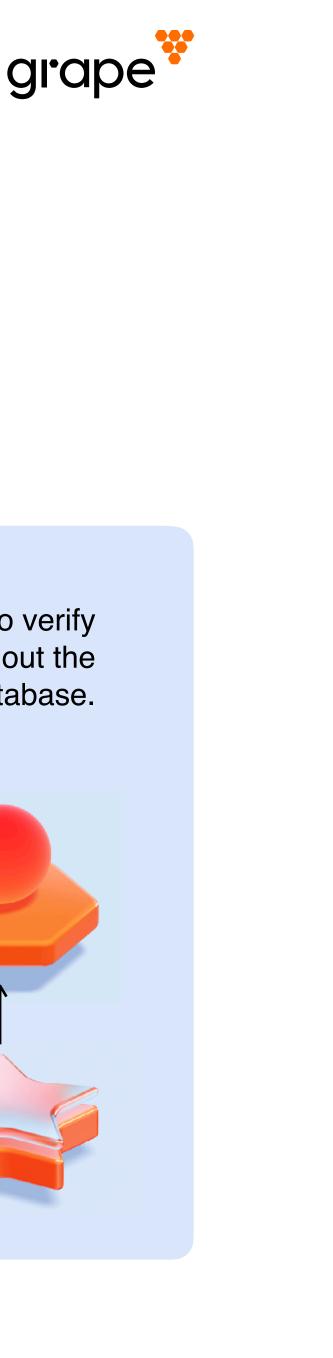


The primary goal of Grape is to create a fully decentralized infrastructure

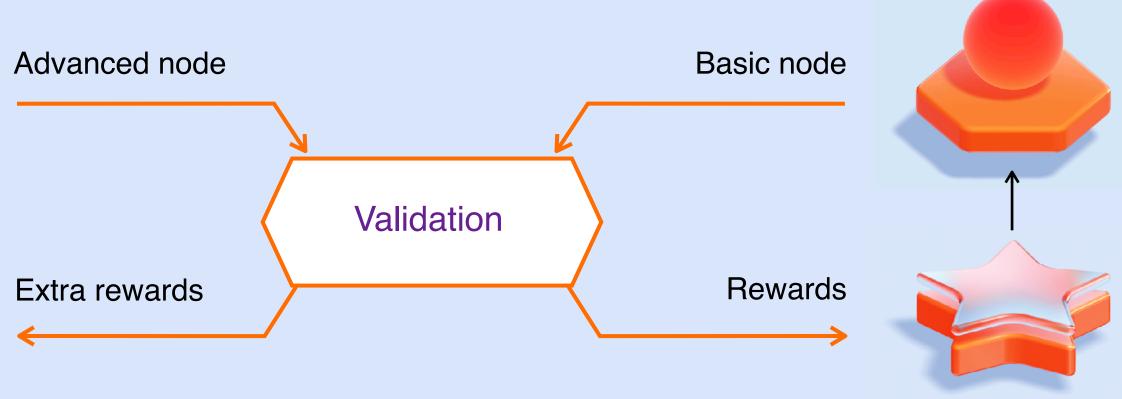
Due to its unique design, Grape network performance will grow with each new advanced node connected to it.

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





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

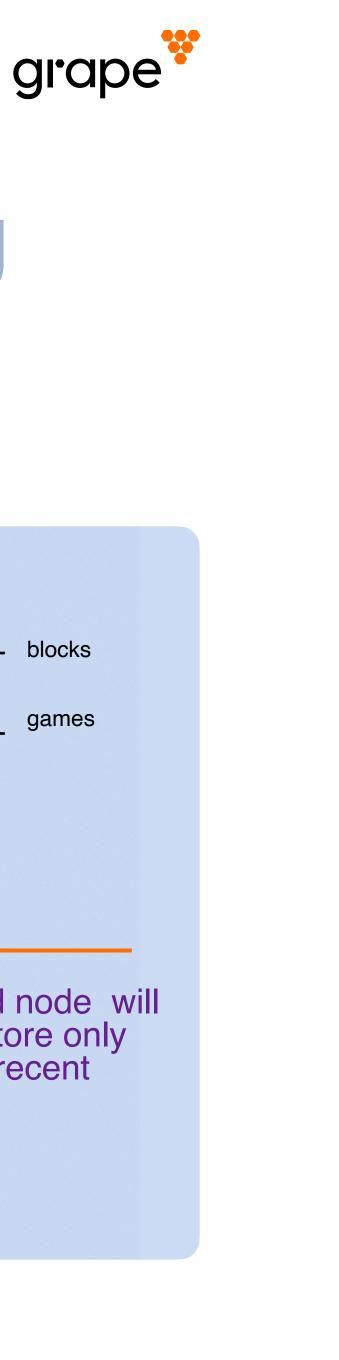


To make advanced nodes even more accessible and achieve higher performance for Grape, sharding will be launched to split the database

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. Shard 1

Shard 2

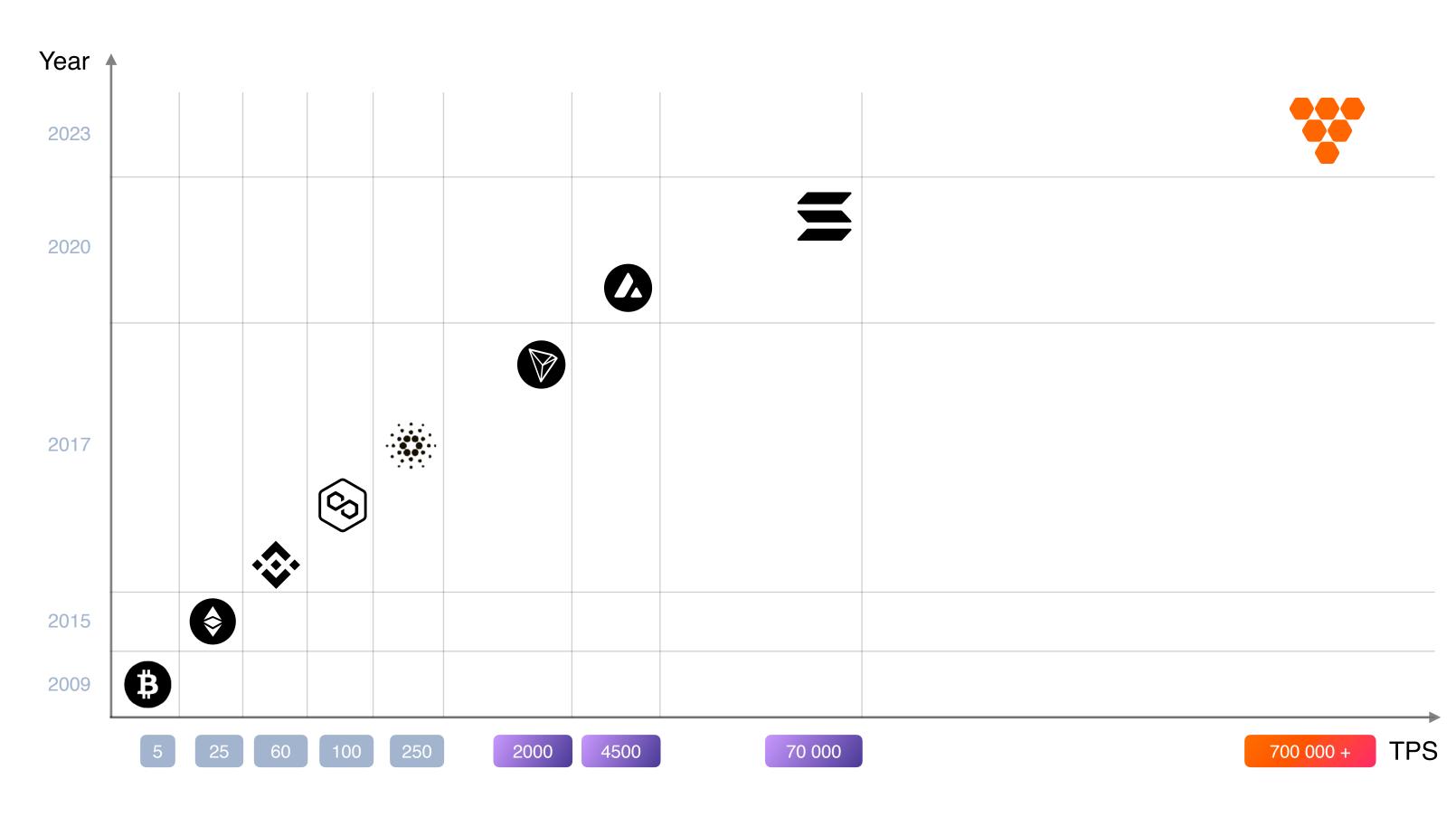
Shard 3





VINE is an evolutionary mechanism for scalability

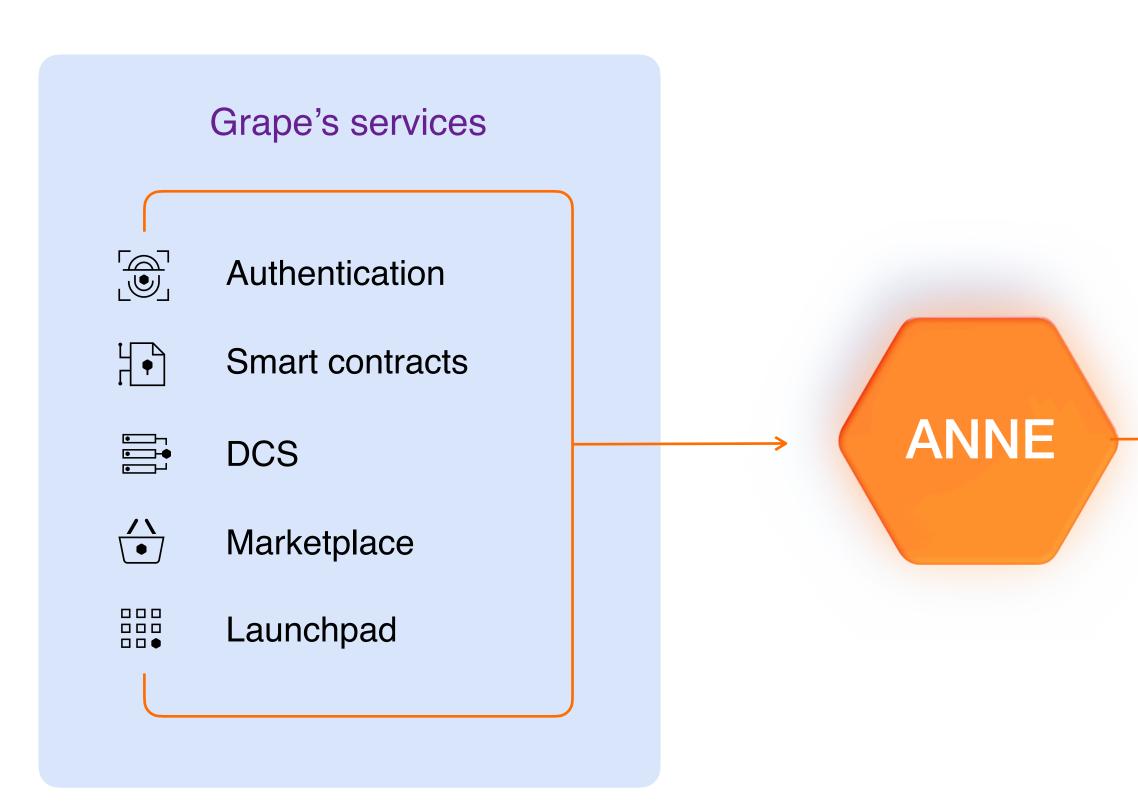
700K+TPS Grape				
10x	faster than Solana			
150x	faster than Avalanche			
350x	faster than Tron			
2Kx	faster than Cardano			
5Kx	faster than Polygon			
7Kx	faster than BSC			
17Kx	faster than ETH			
84Kx	faster than BTC			



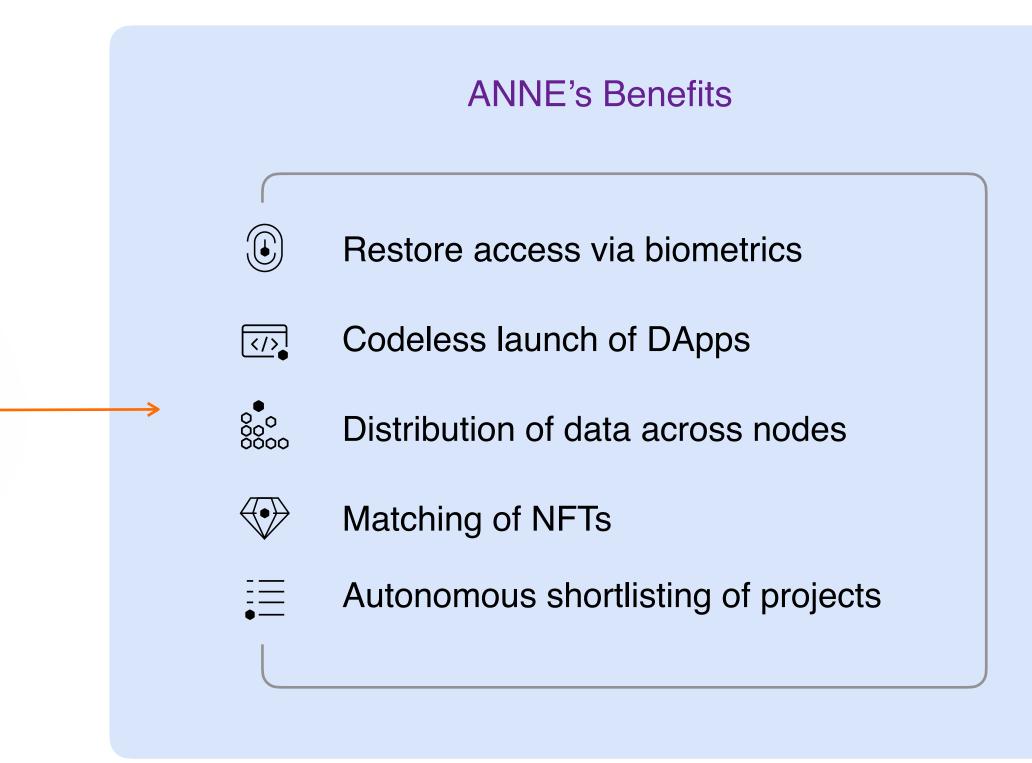




ANNE is a proprietary Al-based interface that improves each functional module of Grape



grape



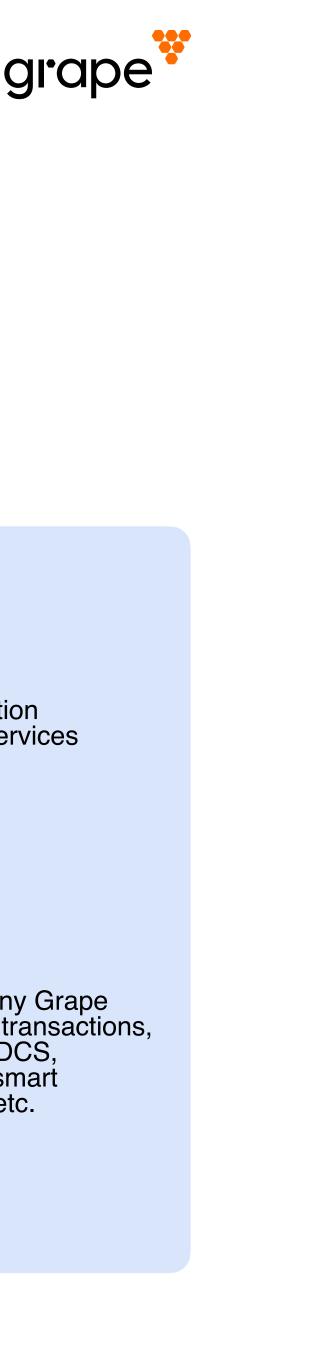


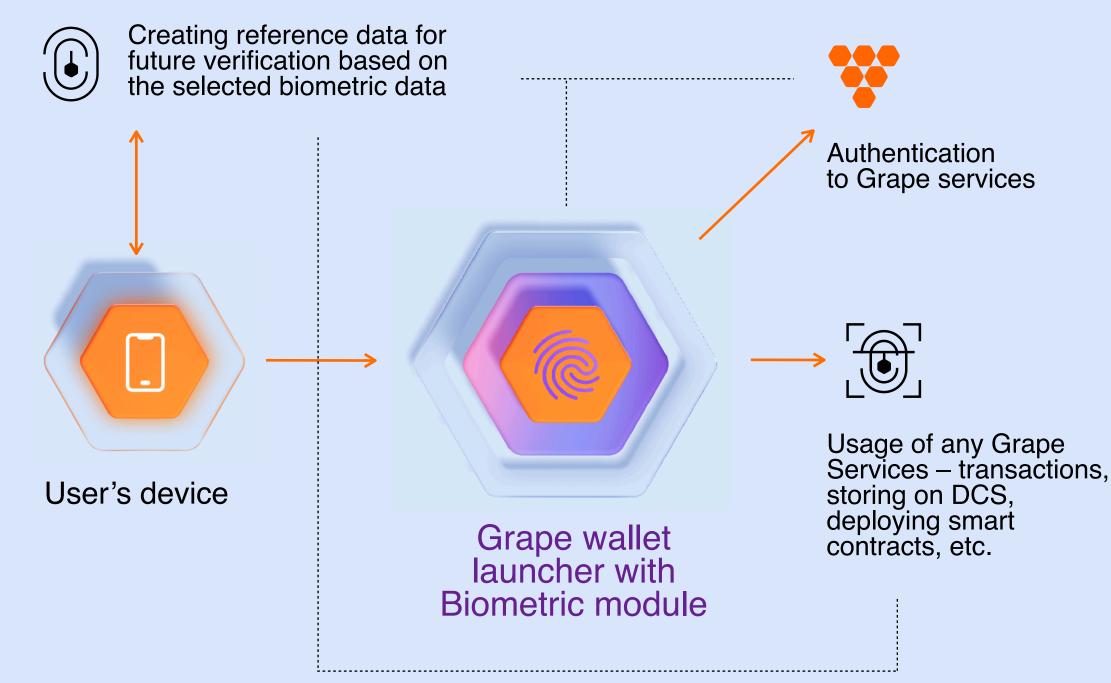
Grape will allow multiple biometric options for authentication and verification options including ECG

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

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



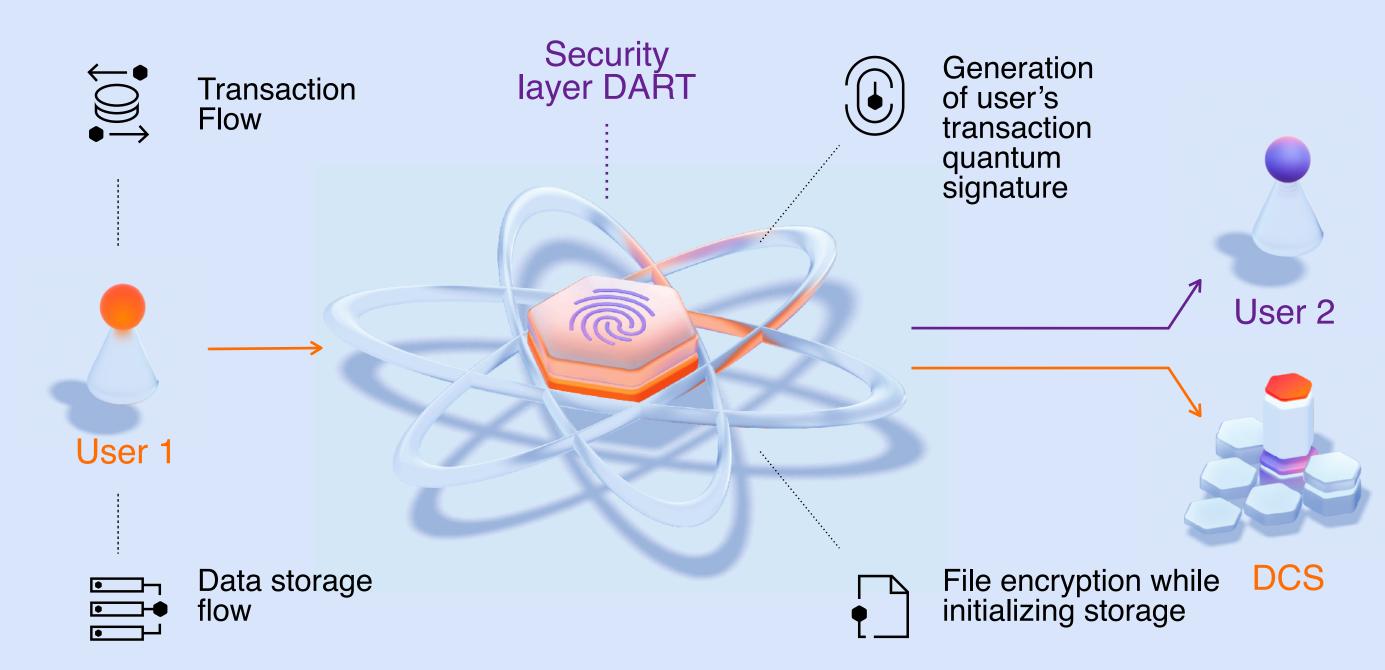


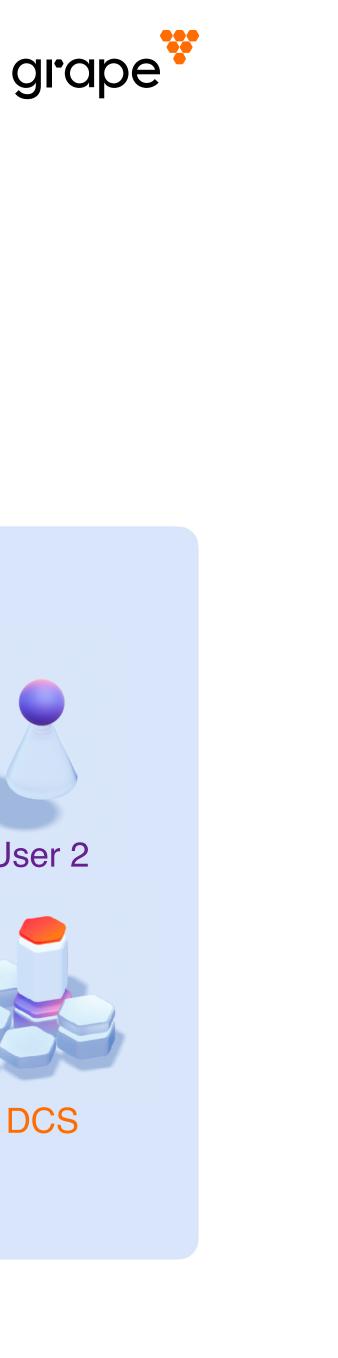


Grape quantum resistance - as a fundamental requirement in the post-quantum world

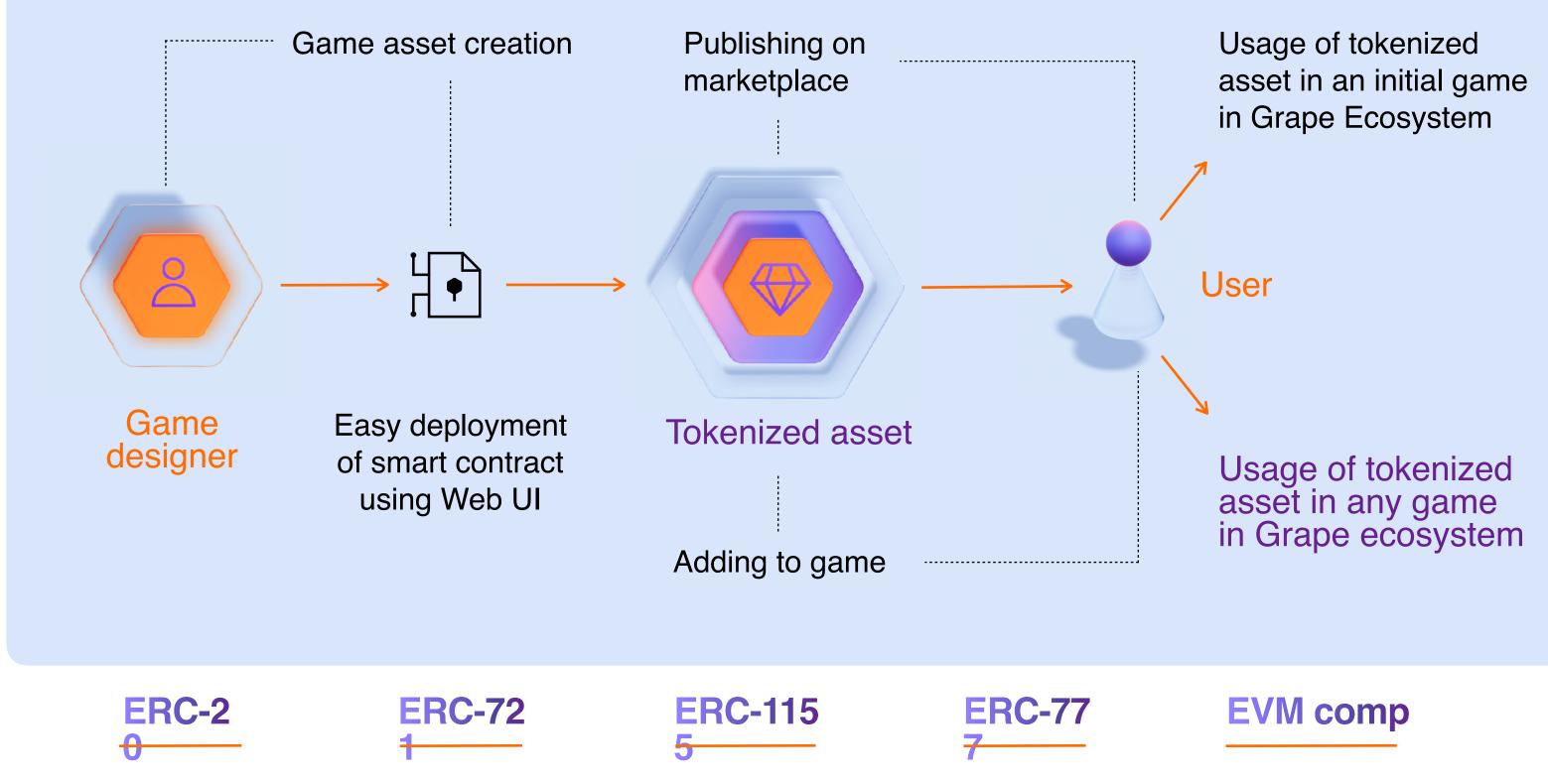
A proprietary module DART is based on a **quantum-resistant** encryption algorithm, which allows Grape to ensure comprehensive security.

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

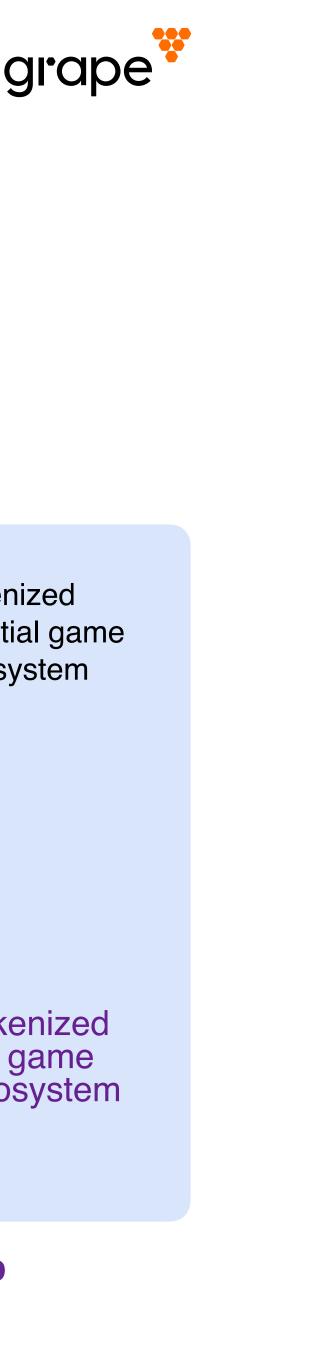




Grape's unique smart contract engine removes boundaries between virtual worlds by introducing interoperable NFTs



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

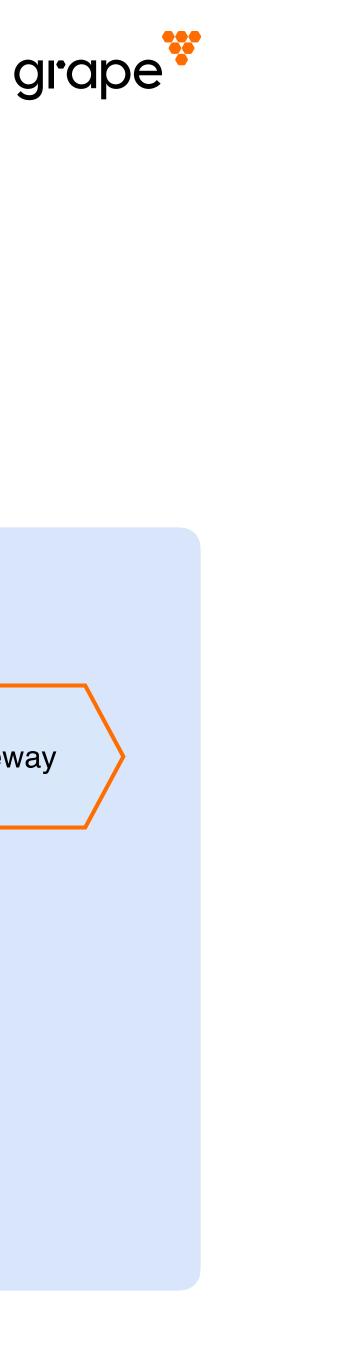


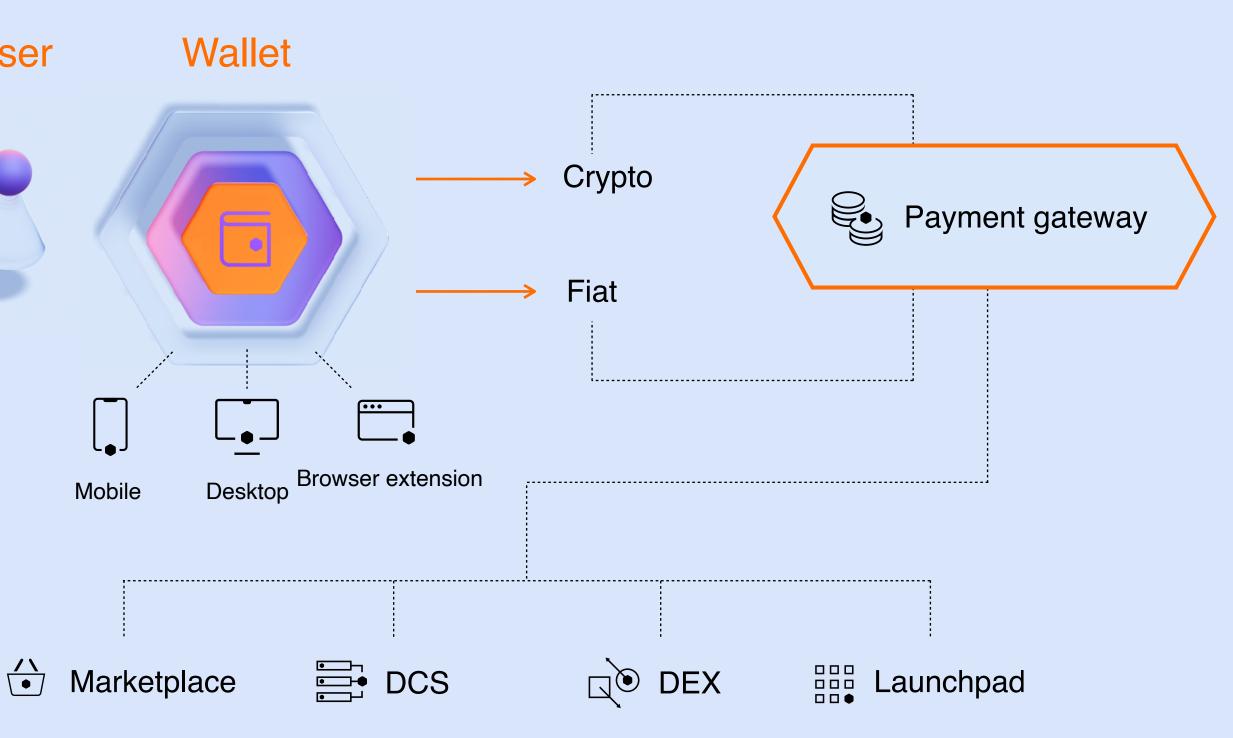
Grape will support both fiat and crypto in its multi-platform wallet

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

User

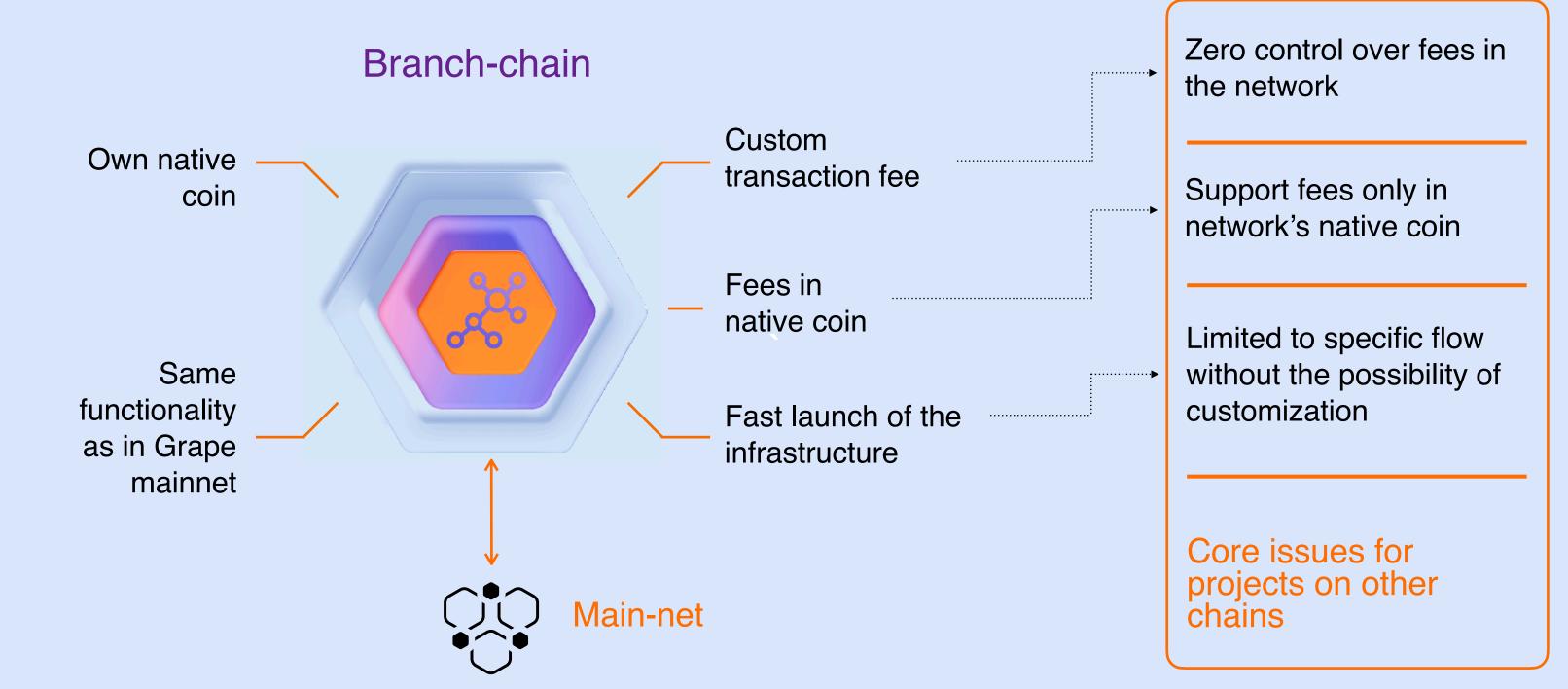
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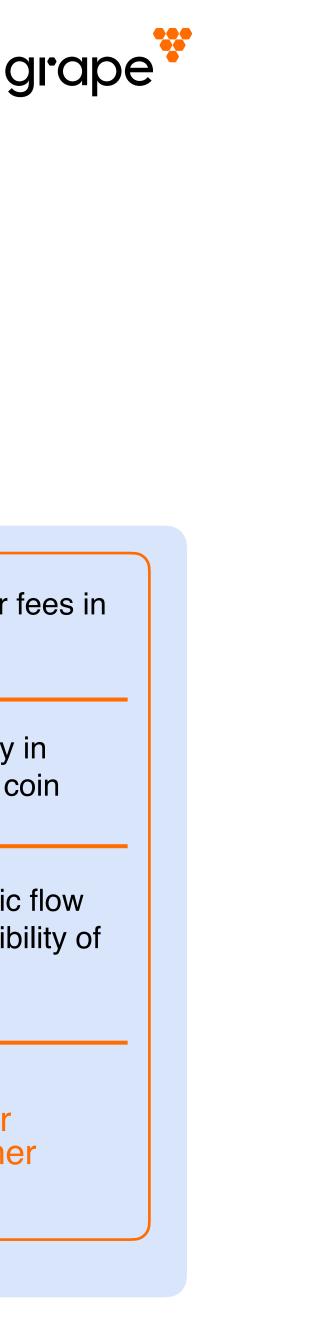




Grape will introduce Web4 as a Service – a tool to launch projects using ready-to-deploy infrastructure

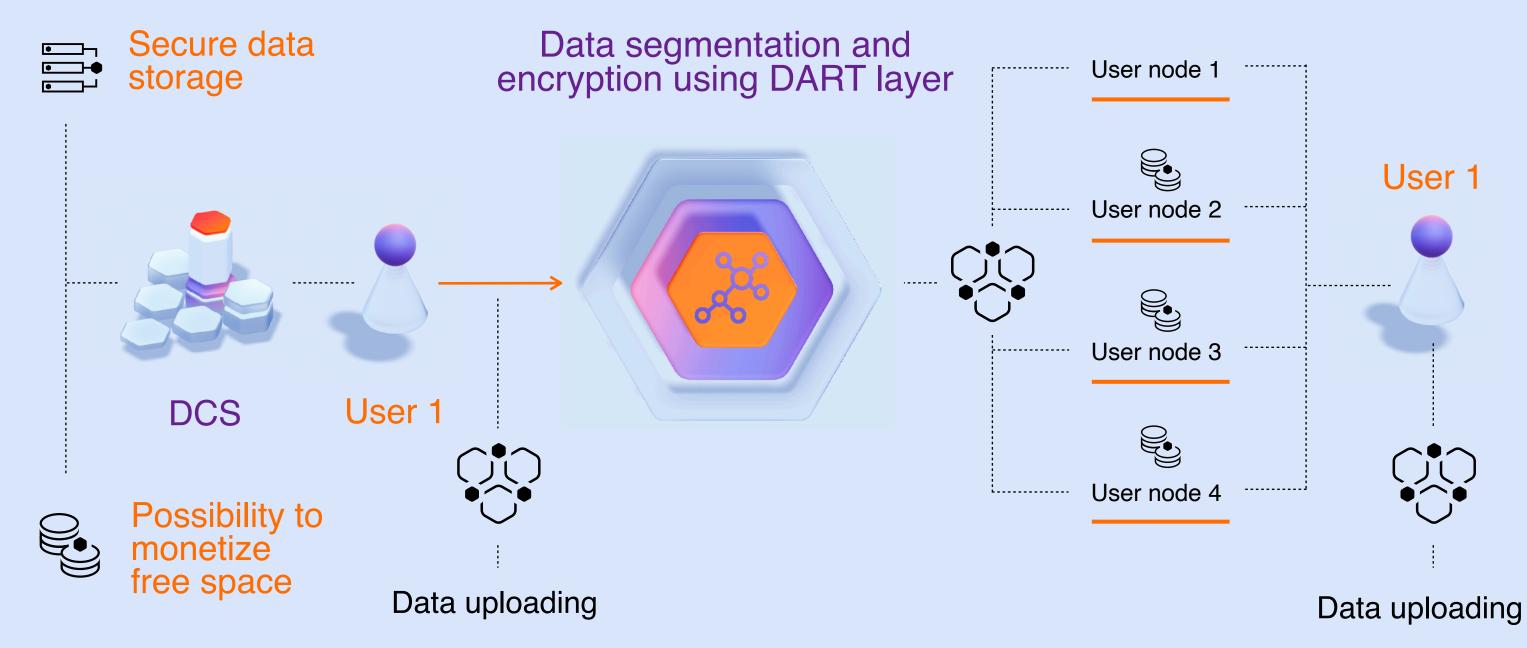
Grape will provide an autonomous infrastructure for projects requiring custom operations flow with most of the ecosystem's benefits.

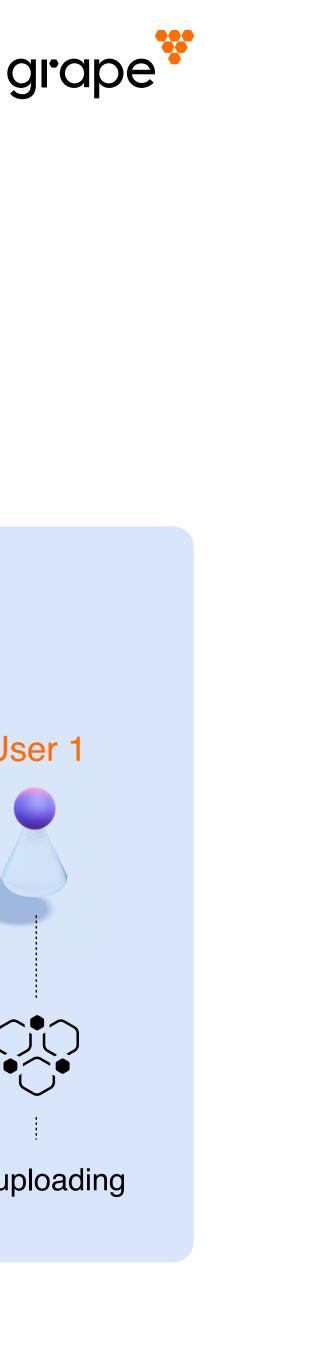




Decentralized Cloud Storage (DCS) is a crucial element of the decentralized ecosystem

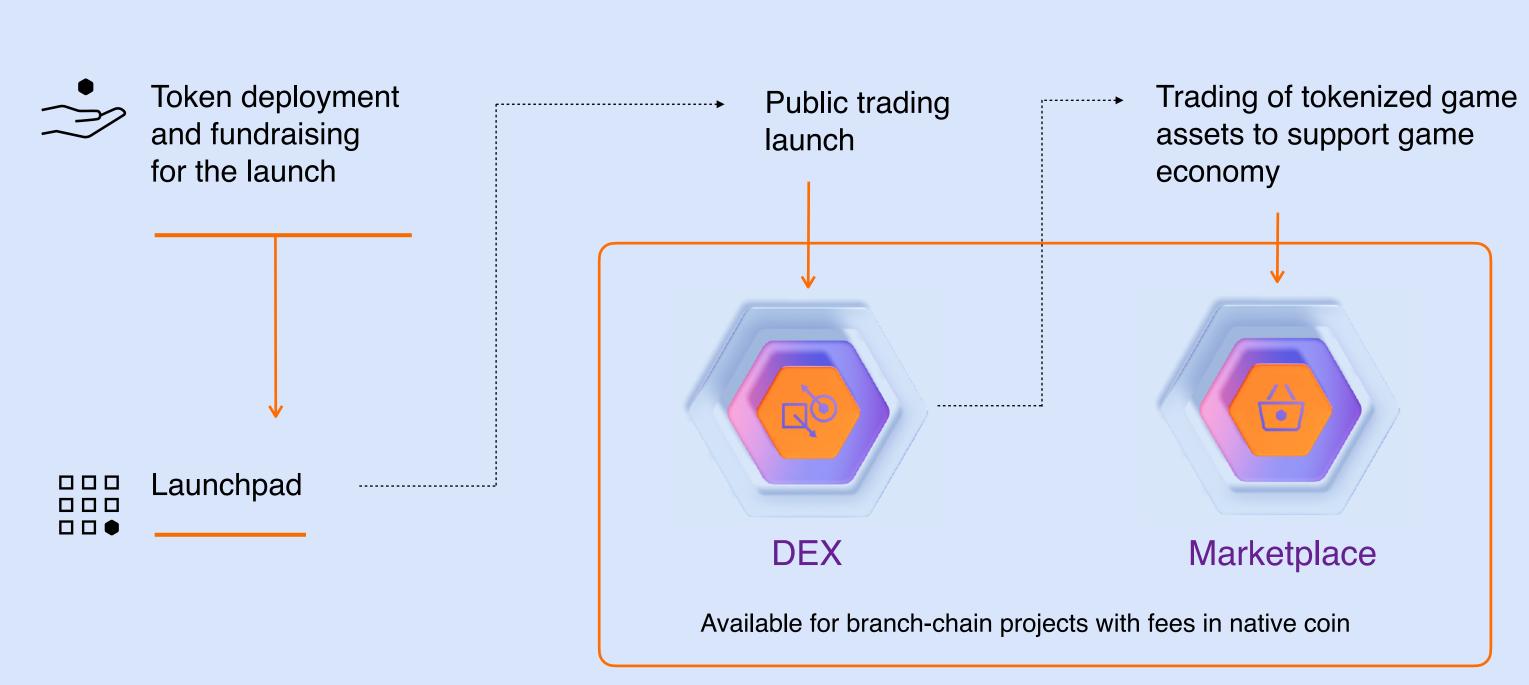
Grape will allow **anyone** to become a **node operator** and provide disk space for distributed data storage in exchange for a reward.

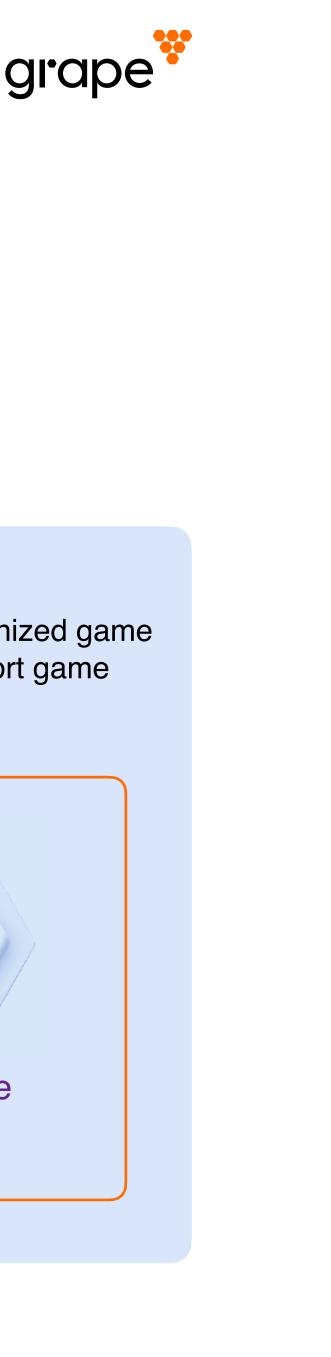




Grape allows anyone to launch and maintain projects within a single ecosystem

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

7 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	40.0%	4,000,000
Staking and Community rewards	10%	1,000,000
Grape DAO	10%	1,000,000
Grape Labs	40.0%	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 listing

Planned First Exchange Listing: September 1st. To launch close to mainnet, subject to change.

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

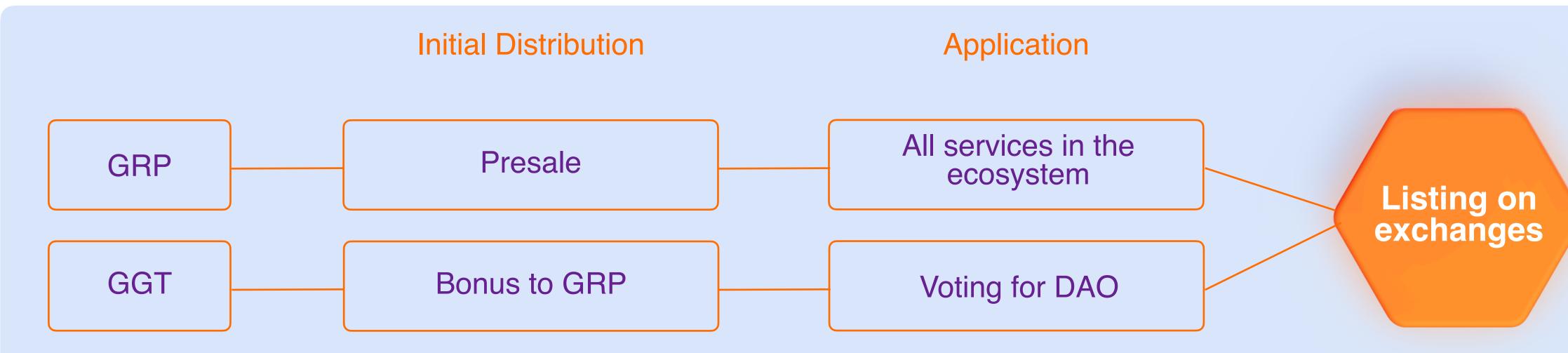
Planned First Exchange: Uniswap (in order to uphold price protection during the post-launch phase) then most major centralized exchanges.

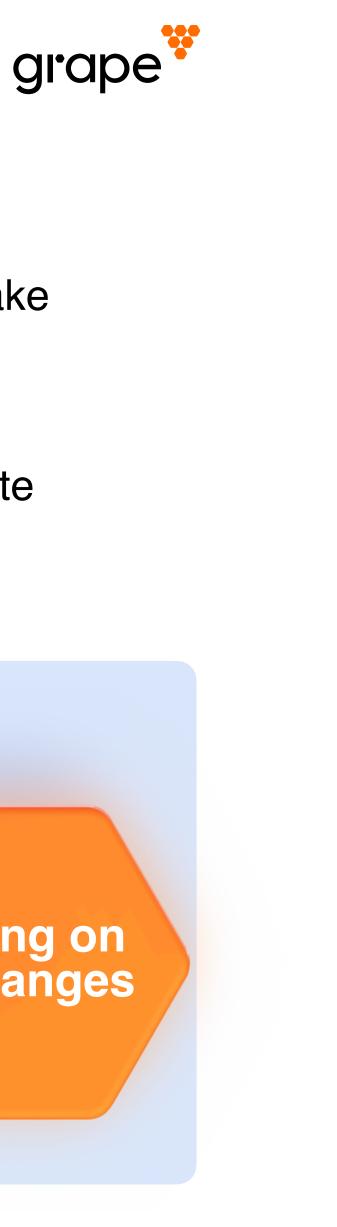
Distribution: \$GRP & \$GGT

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 coin 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 fe Receiver Basic node Advanced node Grape DAO

Grape Labs

Total



ee dis	stribution	Launchpad commission to platform			
	Share	2.5% in raised funds	90% goes to Grape Labs		
	30%	2.5% in token	10% goes to Grape DAO		
de	60%	DCS cost structure			
	5%	2.5\$ for node operators pe	2.5\$ for node operators per 1 TB of data		
	5%	25\$ for node operators for	25\$ for node operators for 1TB of egress bandwidth		
		3.5\$ for users per 1 TB of	data		
	100%	6.5\$ for user per 1 TB bandwidth			



Roadmap

