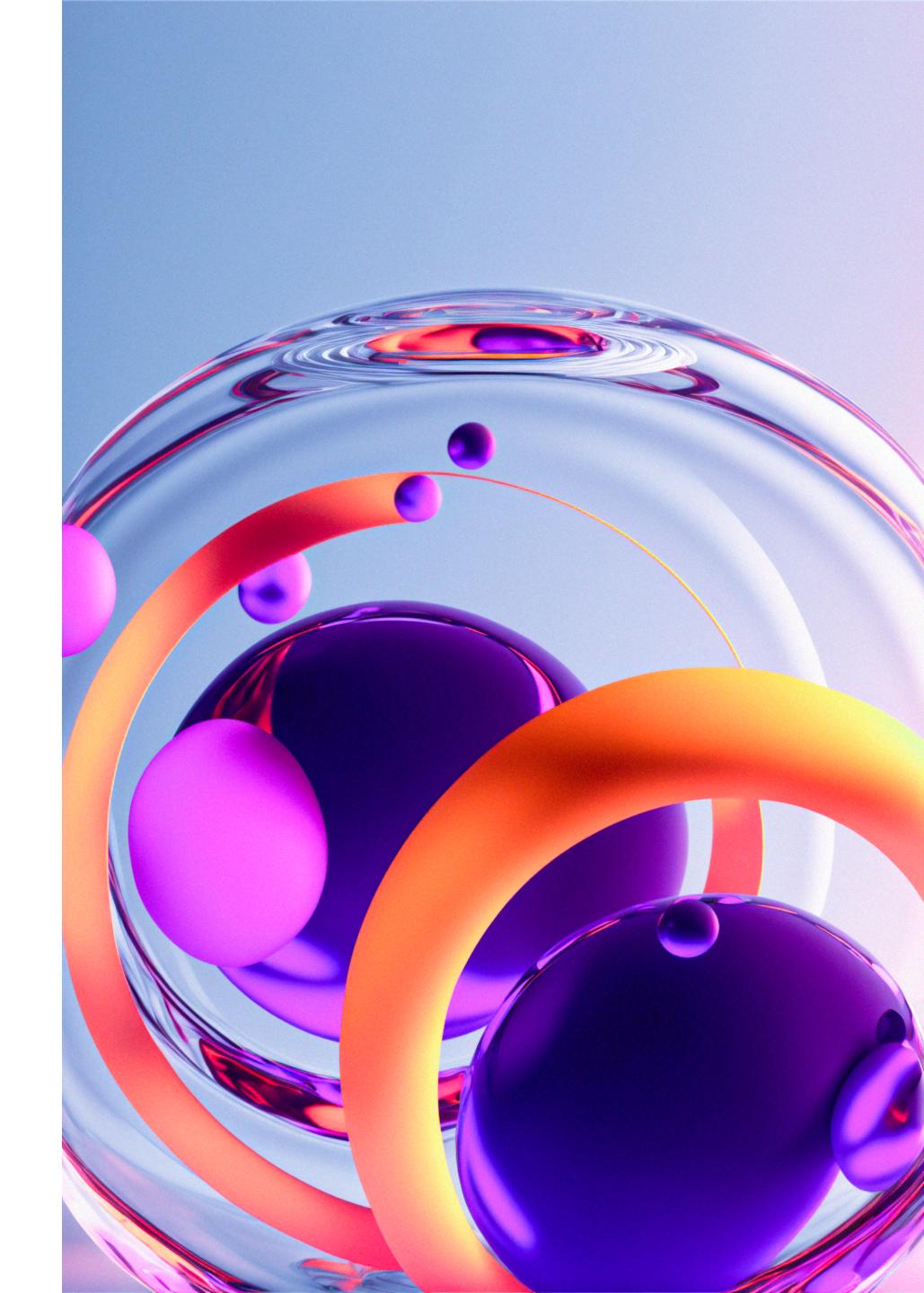
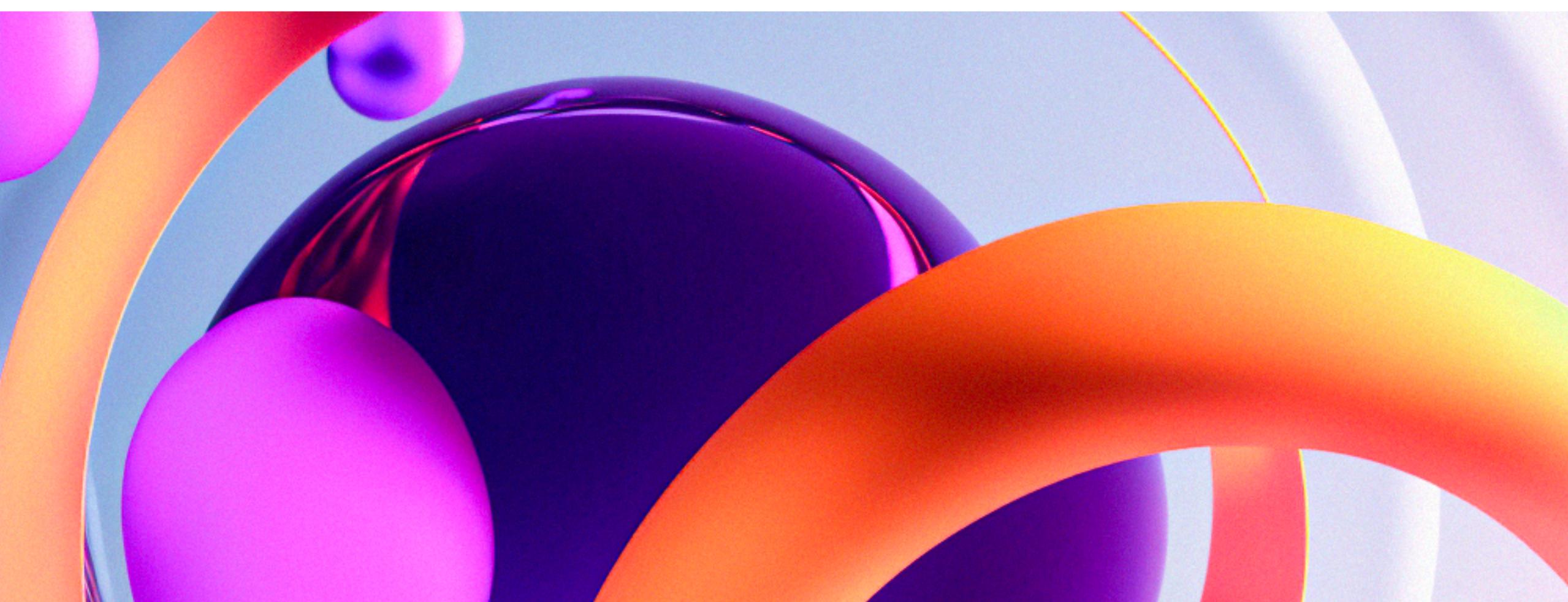


### The only web3 ecosystem for virtual worlds



### **Section 1 - 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 transactions monthly.

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

Bottlenecks of current layer 1s:



• $\overleftrightarrow$  High transaction costs

Low transaction speed





 $\bigcirc$  Limited token interoperability



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



Limited security features



Usage of centralized storages

### Web3 and virtual world requirements for the 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 most fast-growing industries

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

<b>Virtual world</b> market to surpass CAGR 43.7%	<b>\$1,525.7 bill</b>	
The <b>gaming</b> market to surpass CAGR 10.2%	\$470 billion	
<b>GameFi</b> market to surpass CAGR 23.7%	\$74.2 billion	

llion by 2030

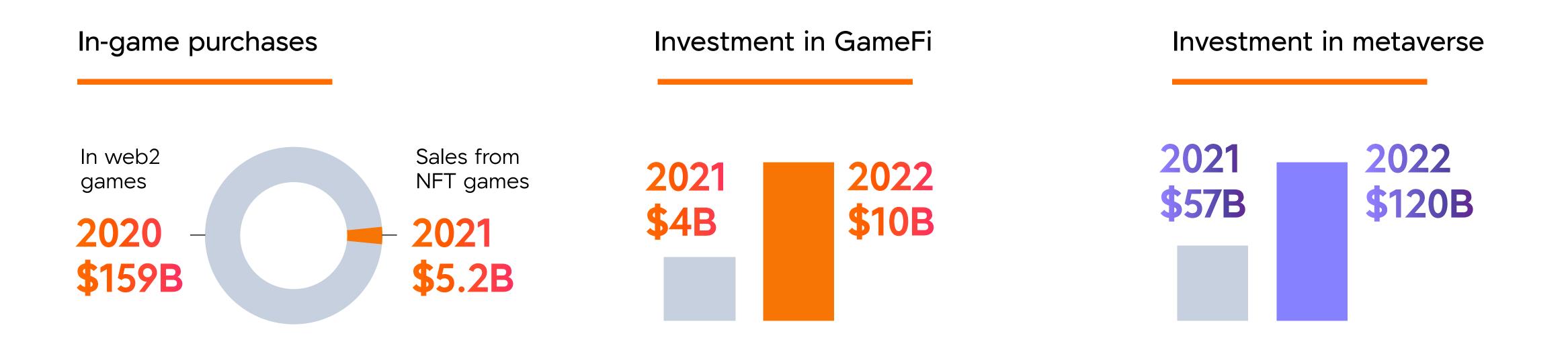
n by 2030

n by 2031





### **Despite the market drop**, virtual worlds continue to attract billions of dollars



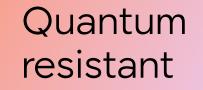
Microsoft's **\$70B** acquisition of Activision will allow the company to develop Microsoftbacked games and software within the metaverse in the coming years.



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 only Web3 ecosystem for games and virtual worlds



Multiplatform non-custodial wallet

Web3

as a service

projects fast

to launch new

F	

(•)

**Carbon neutral** with the aim to become carbon positive by 2025

**Biometrics** 

for authentication,

support

including ECG

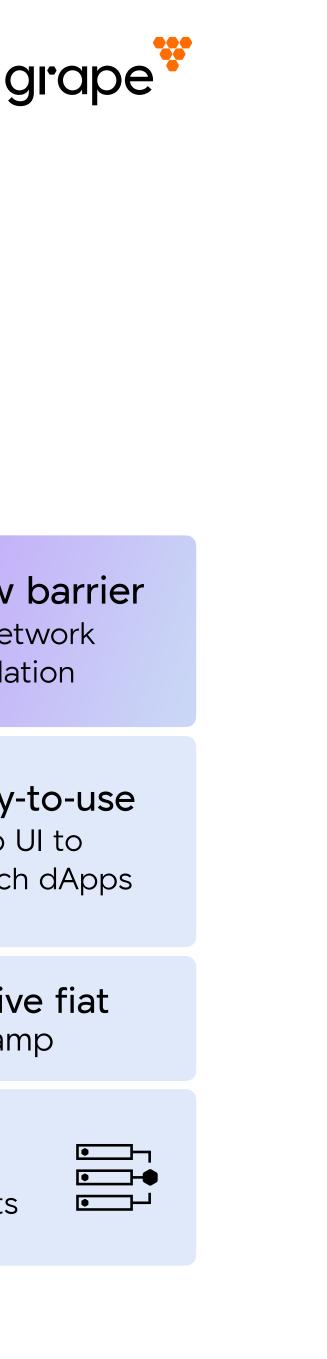
Direct Acyclic Graph for unparalleled scalability

# 700.000

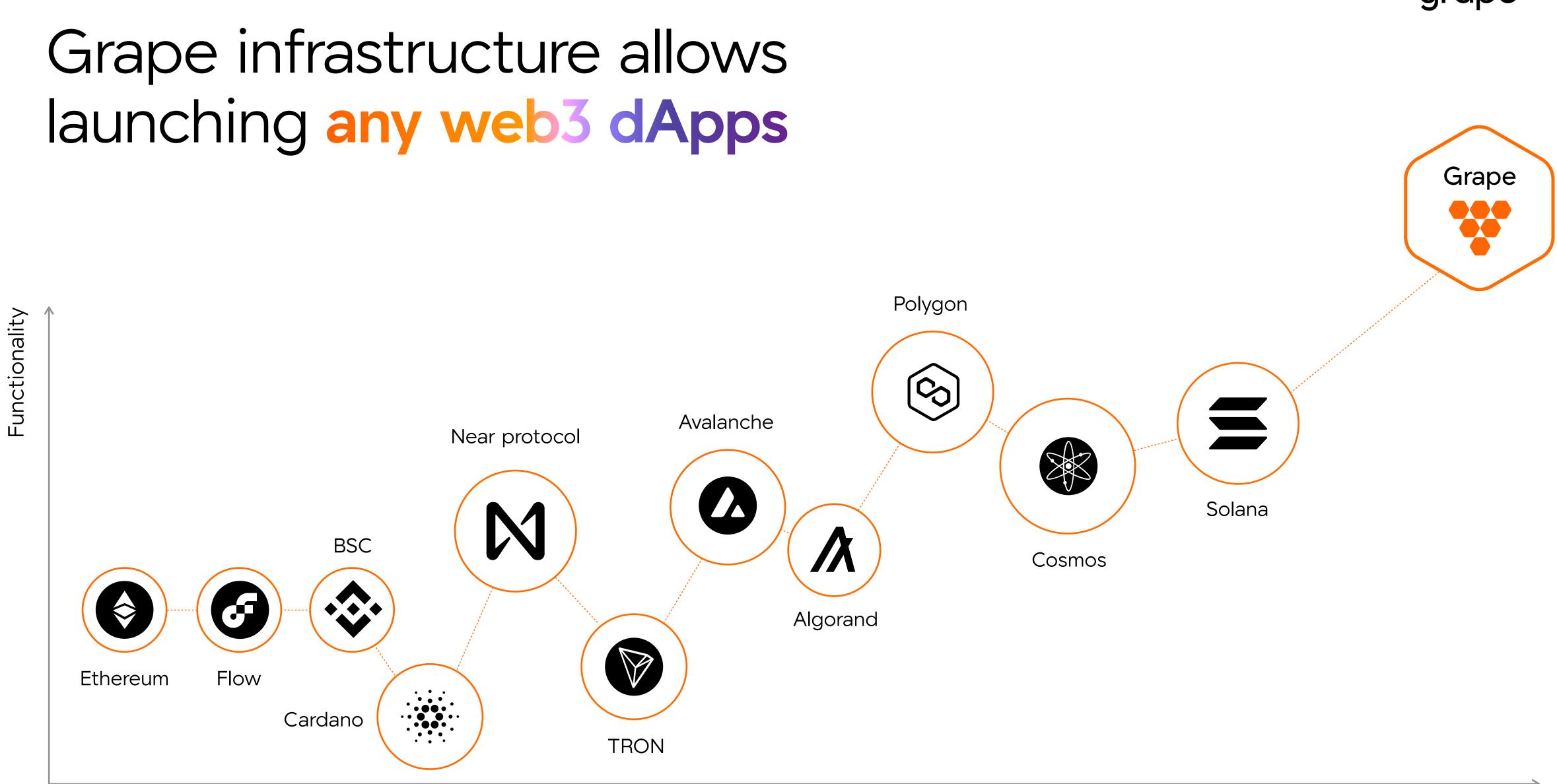
Interoperable virtual assets as an NFT standard



Hardware monetization through lending storage to DCS



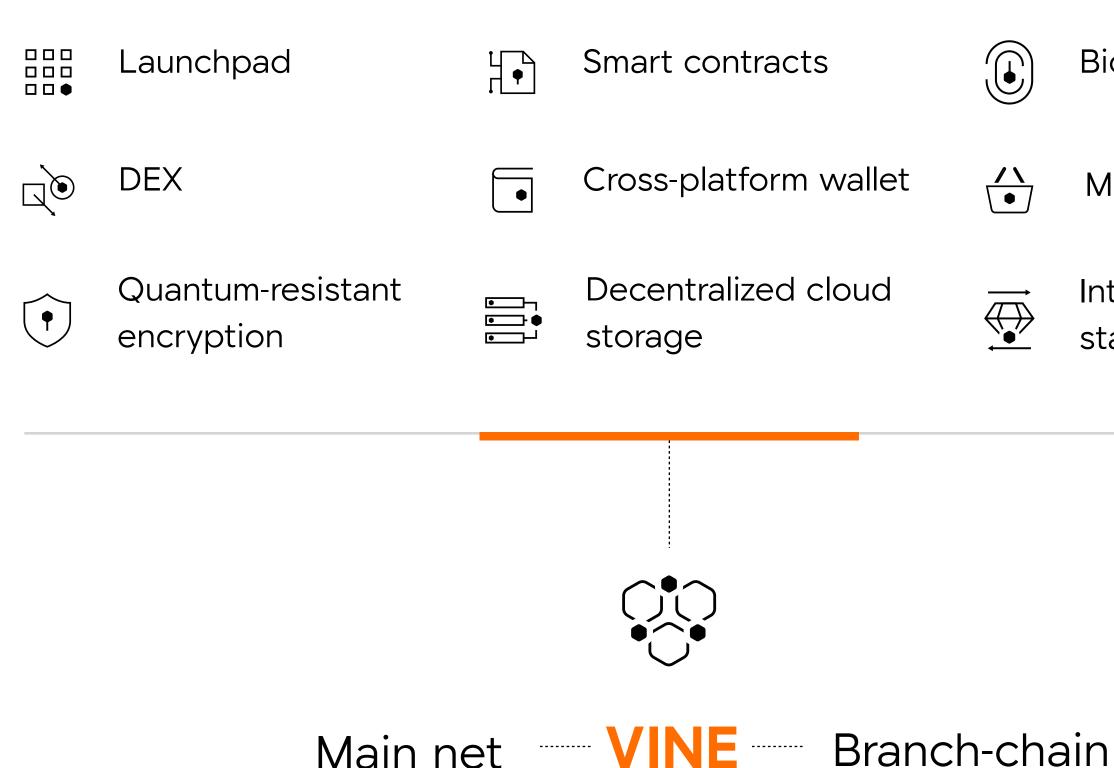






Transactions per second

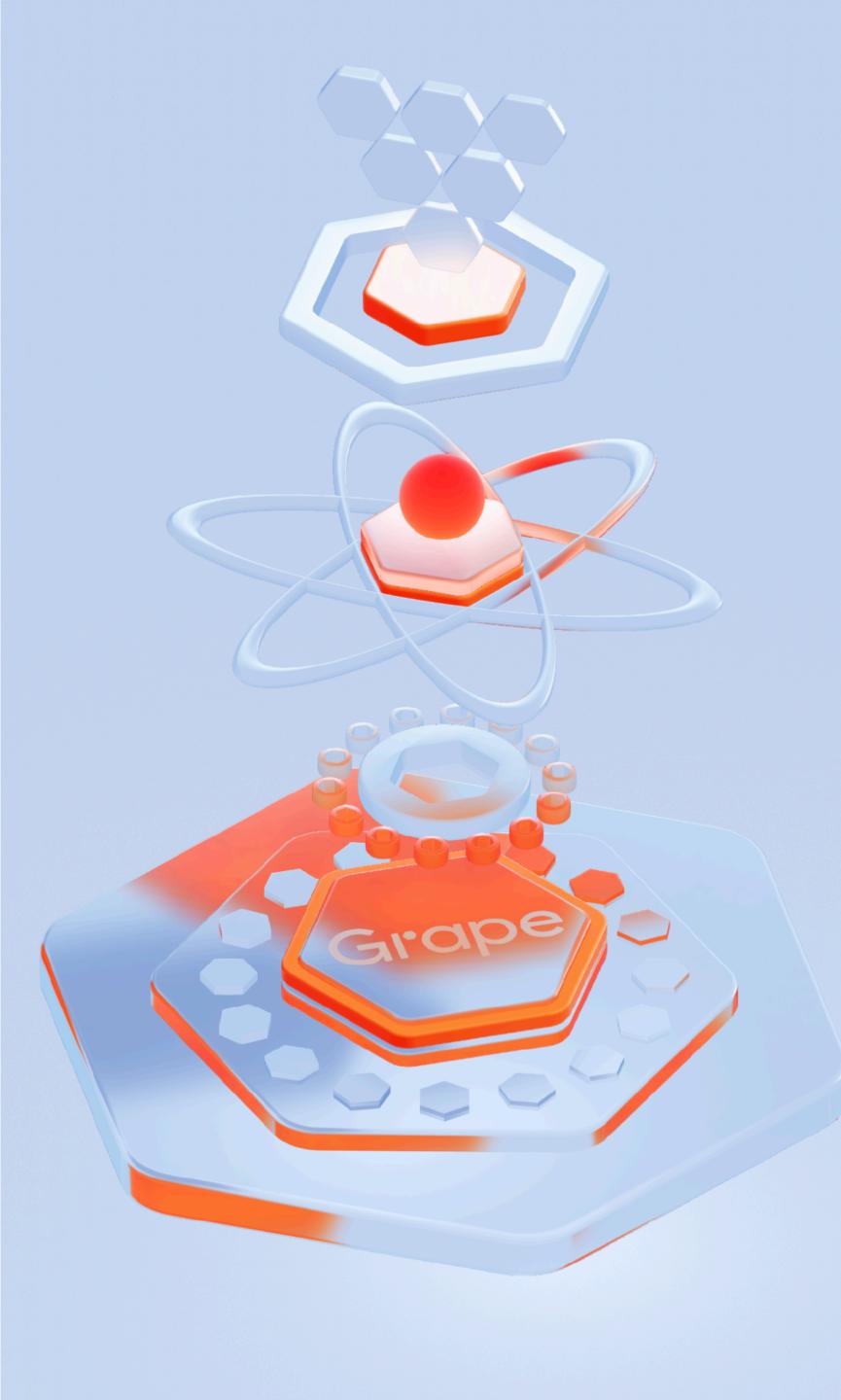
### Grape created VINE a proprietary DAG basis with multi-layer functionality



Biometric user access

Marketplace

Interoperable NFTs standard transfer



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

### Grape's main pillars to ensure ecosystem operation:



VINE - scalable DAG technology for fast and cheap transactions



Decentralized cloud storage for securely storing NFTs and other game data

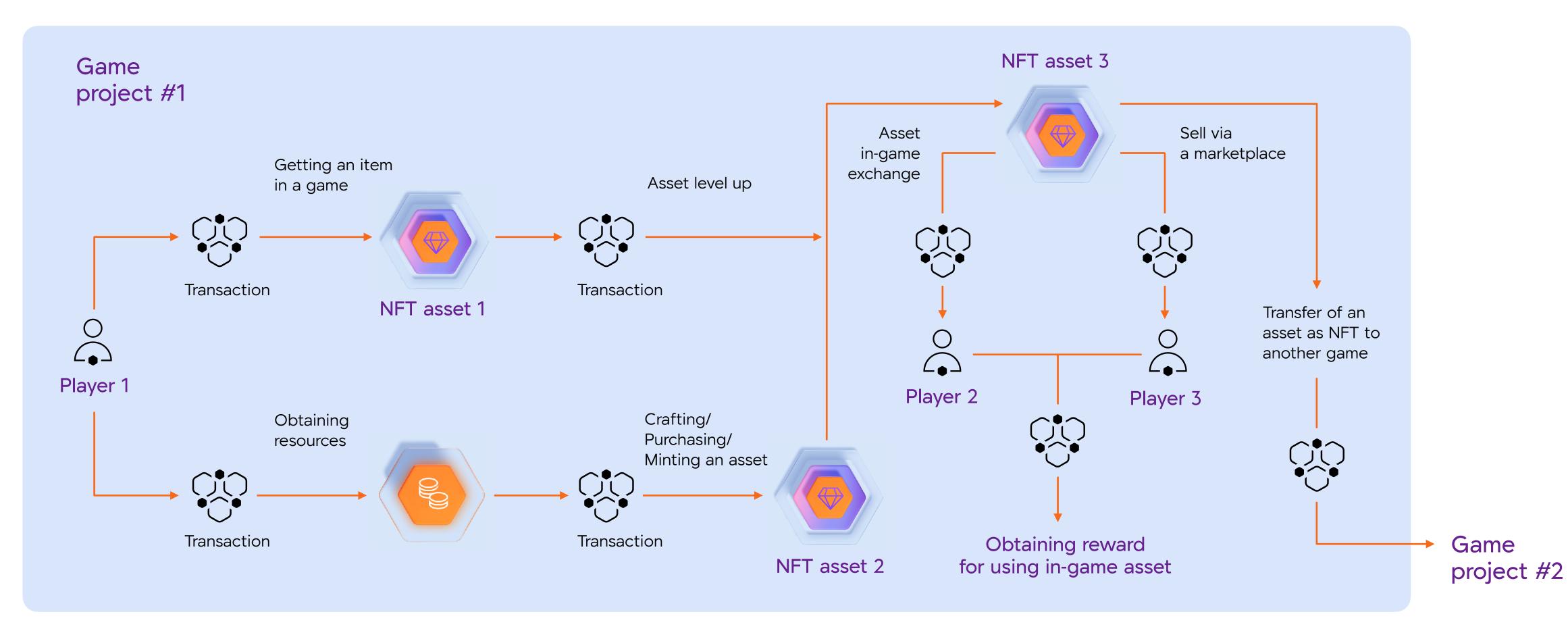


Templates and standards for interoperable NFTs





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





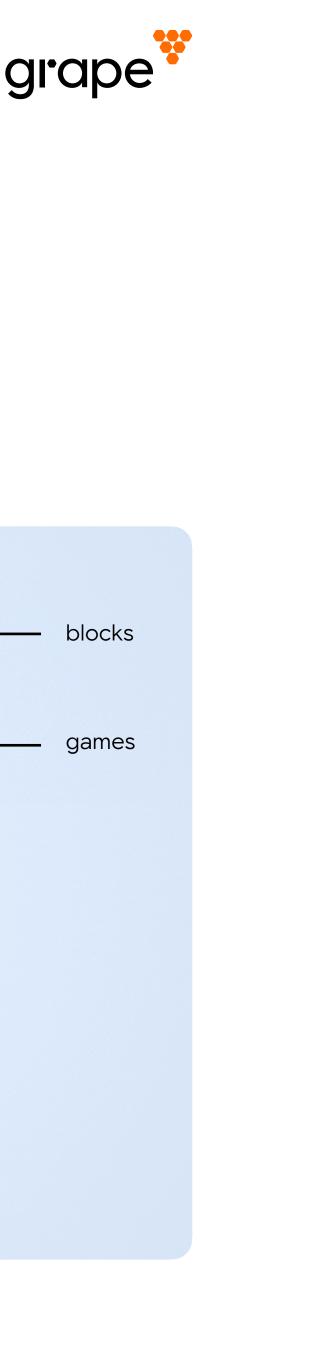


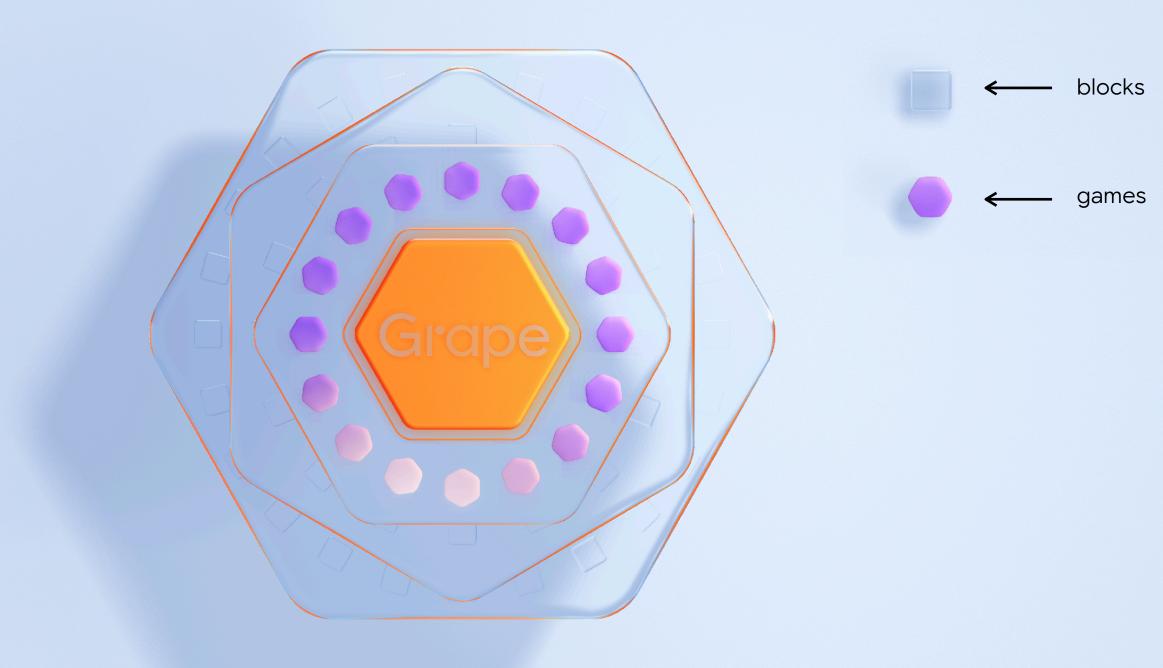


### Grape is a robust web3 infrastructure with unparalleled scalability that can withhold extreme loads of games and virtual worlds

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

One of the most technologically advanced blockchains, Solana, had an 18-hour downtime due to transaction overload.

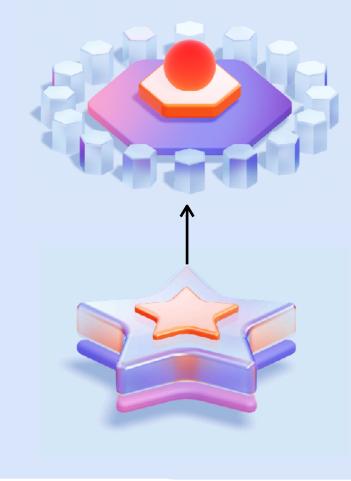


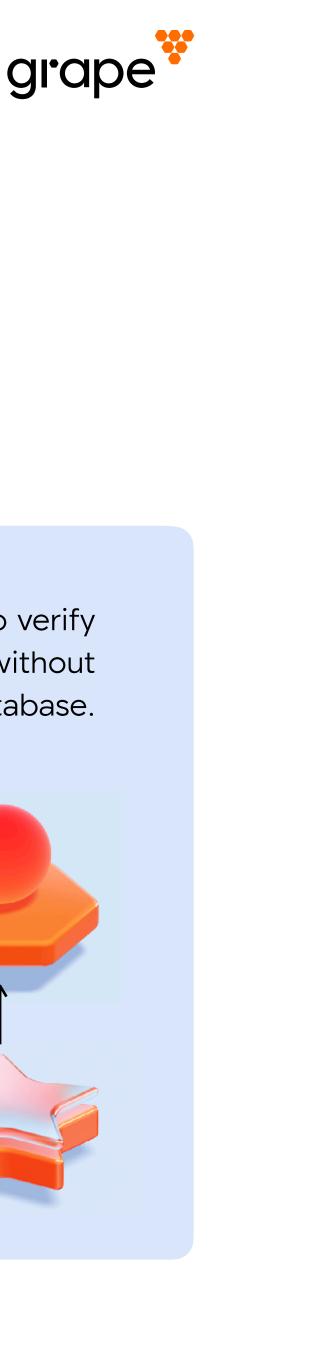


### The primary goal of Grape is to create a fully decentralized infrastructure

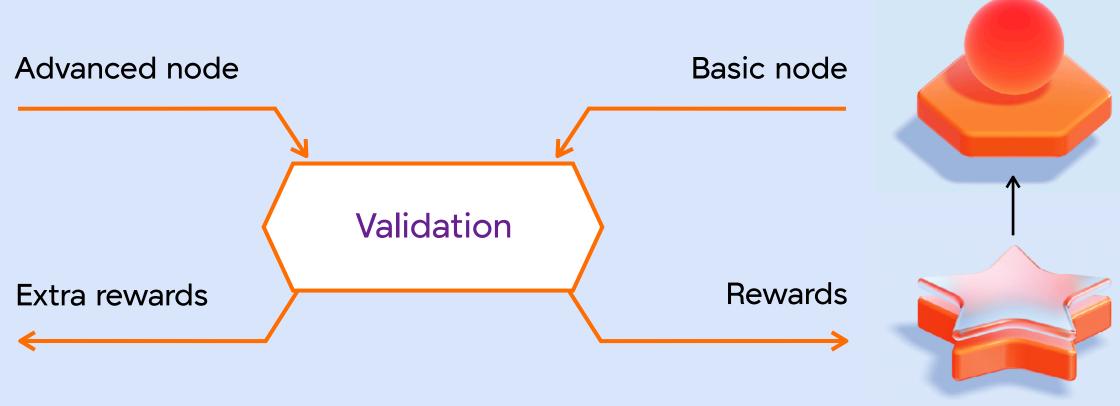
Due to unique design, Grape network performance will grow with each new advanced node connected to it.

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





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

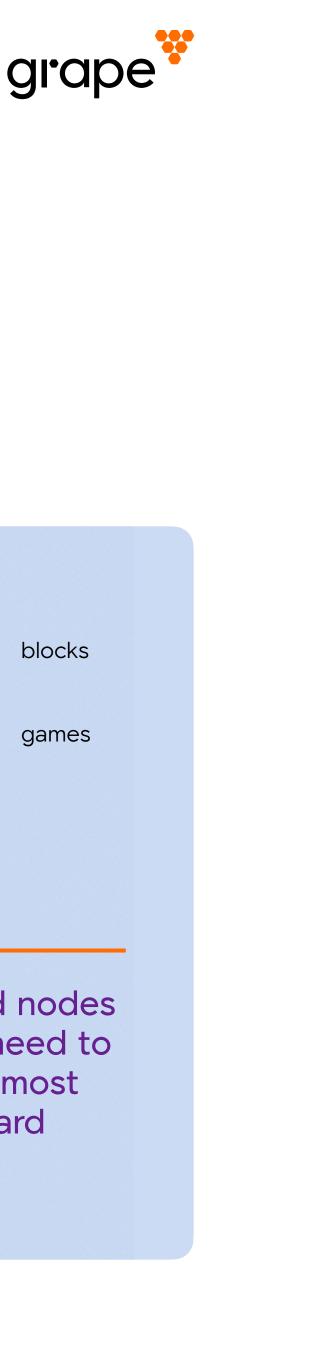


### To make advanced nodes even more accessible and achieve higher performance for Grape, we'll launch sharding to split the database

In comparison, to participate in block validation in Ethereum, a user needs 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

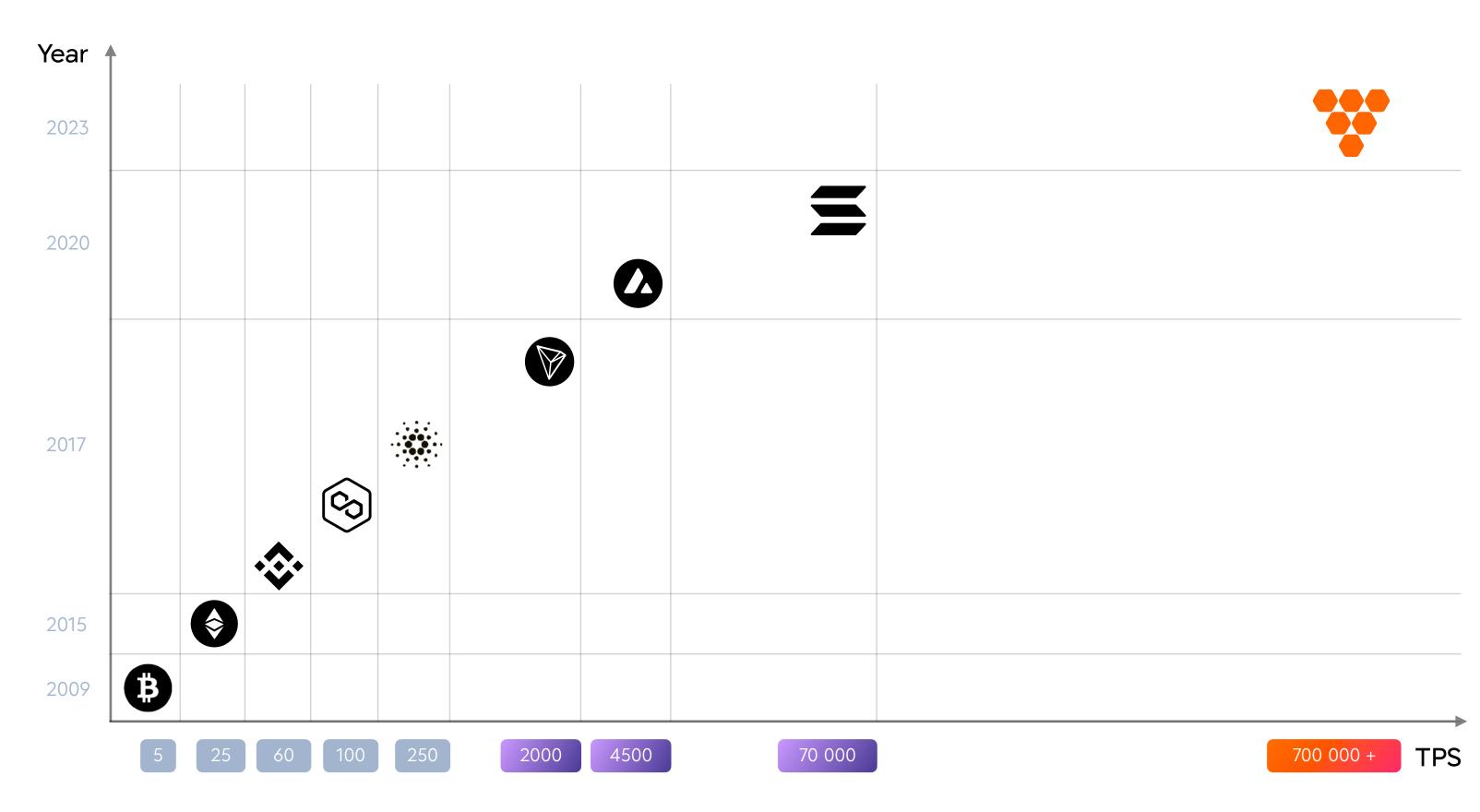
Shard 3





## **VINE** is an evolutionary mechanism for scalability

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



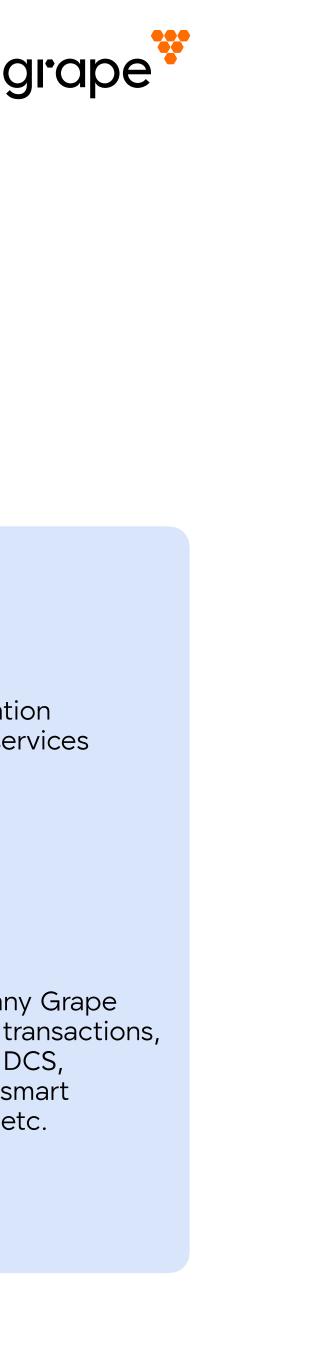


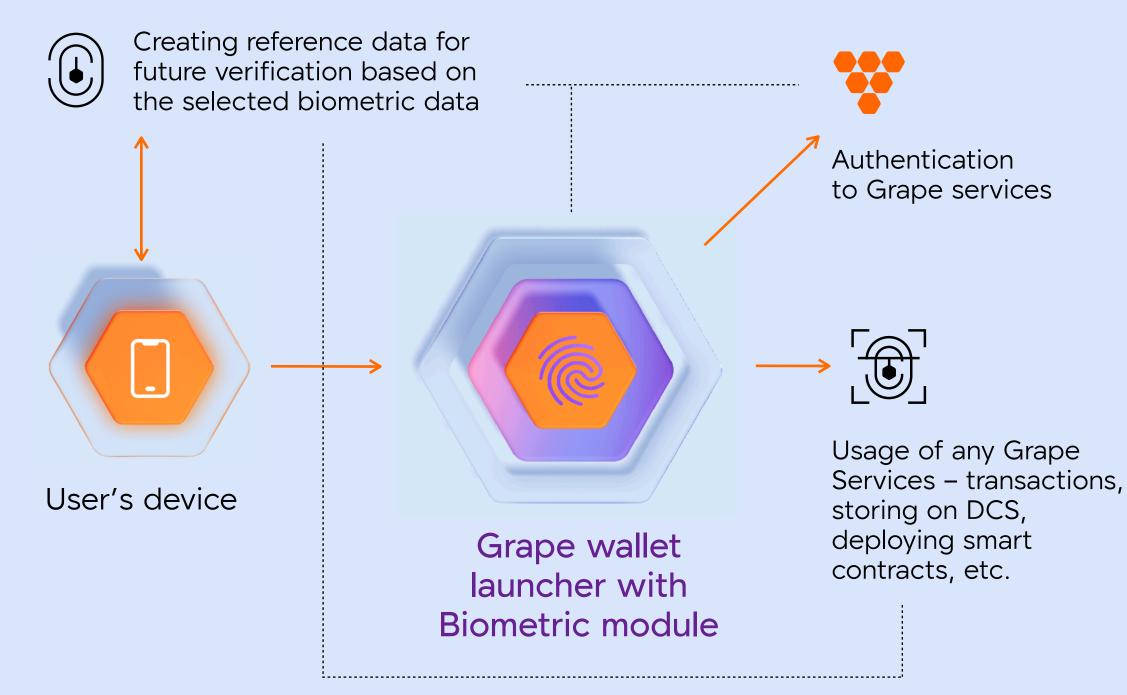
### **Grape will allow multiple biometric options** for authentication and verification options including ECG

Maintaining web3 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.

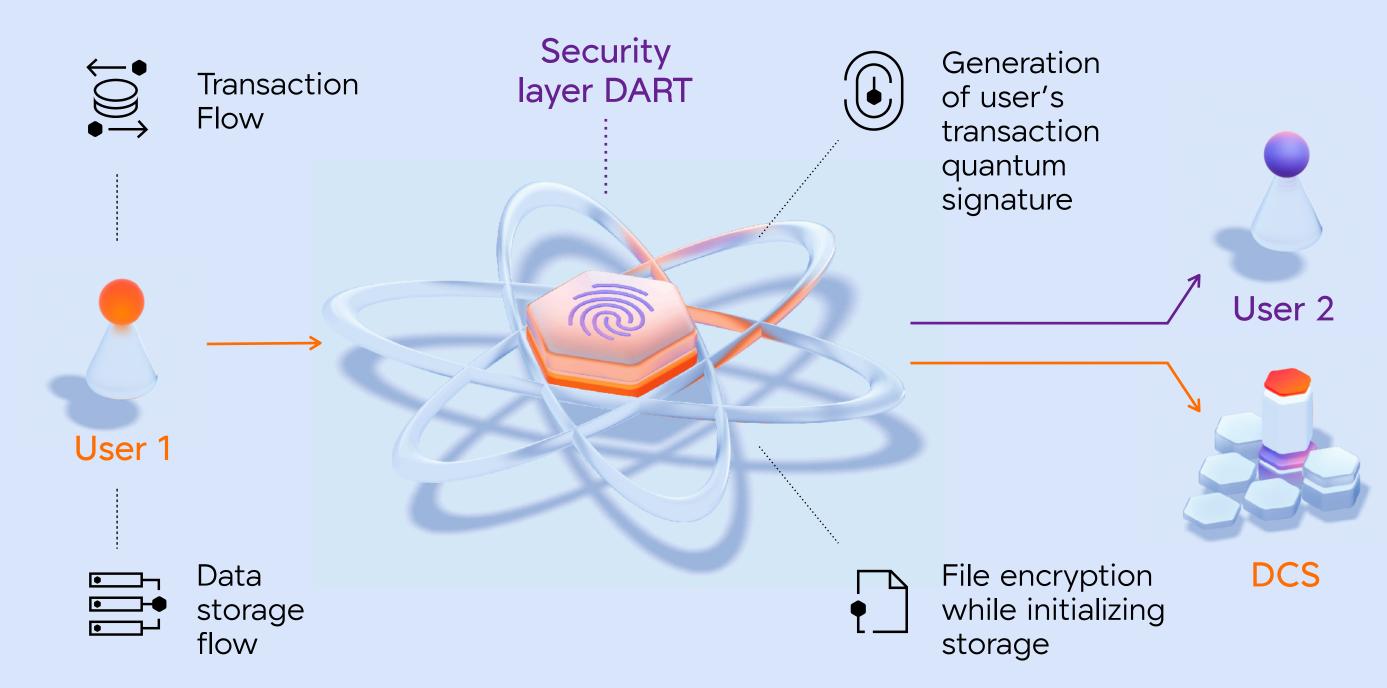


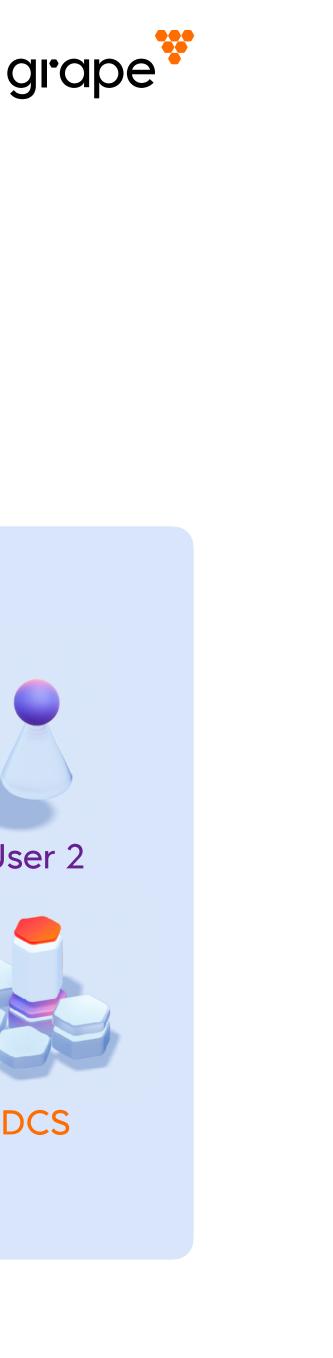


## **Grape quantum resistance** - a fundamental requirement in the post-quantum world

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

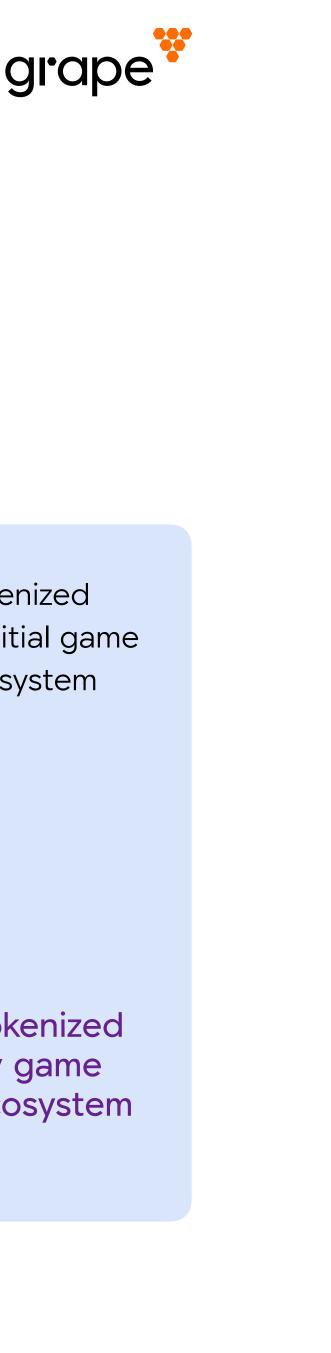
Opinion-based estimates of the cumulative probability of a digital quantum computer able to break RSA-2048 within 24 hours.

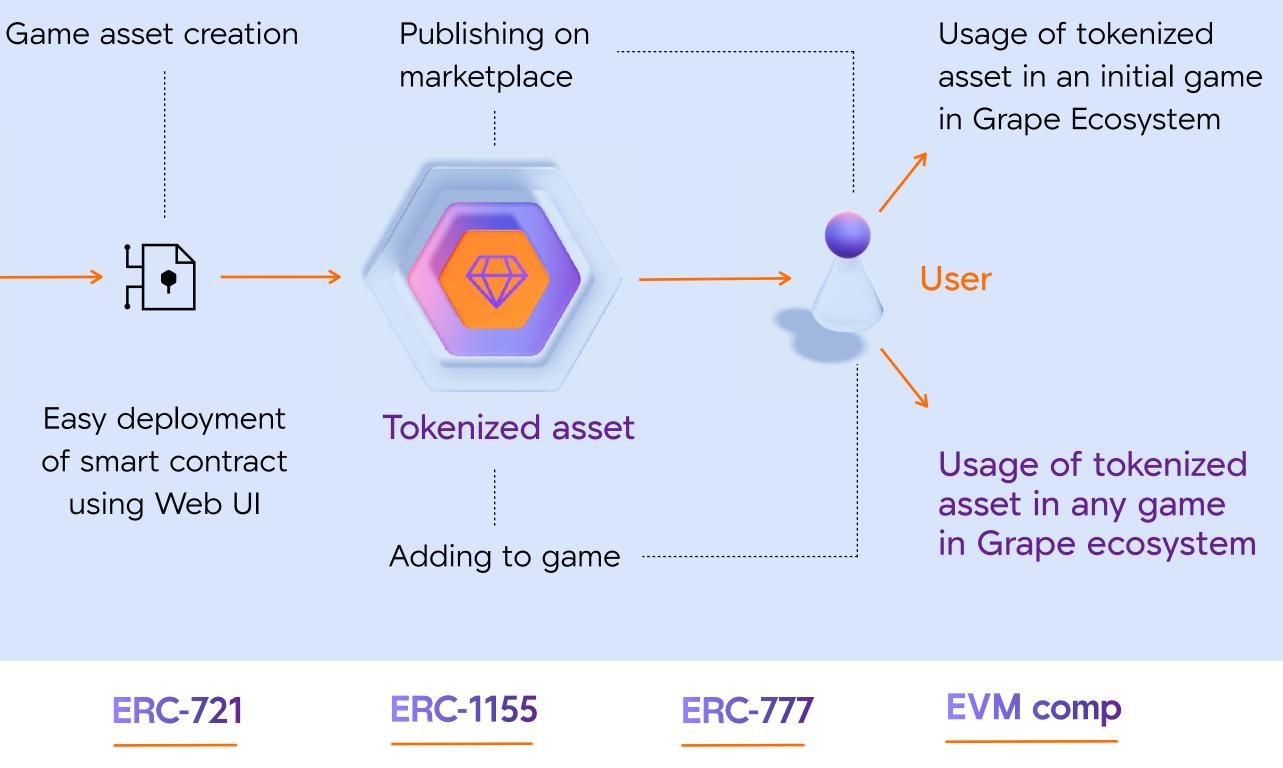




### Grape's unique smart contract engine removes boundaries between virtual worlds by introducing interoperable NFTs

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



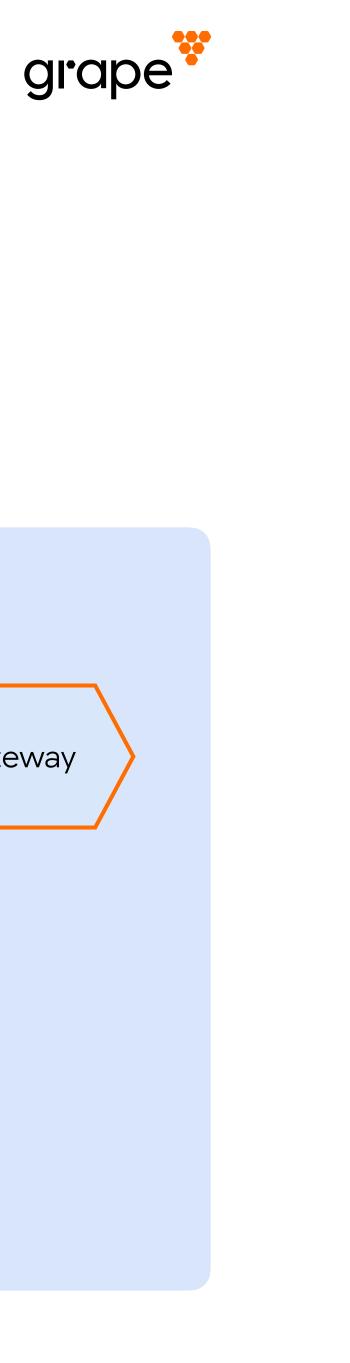


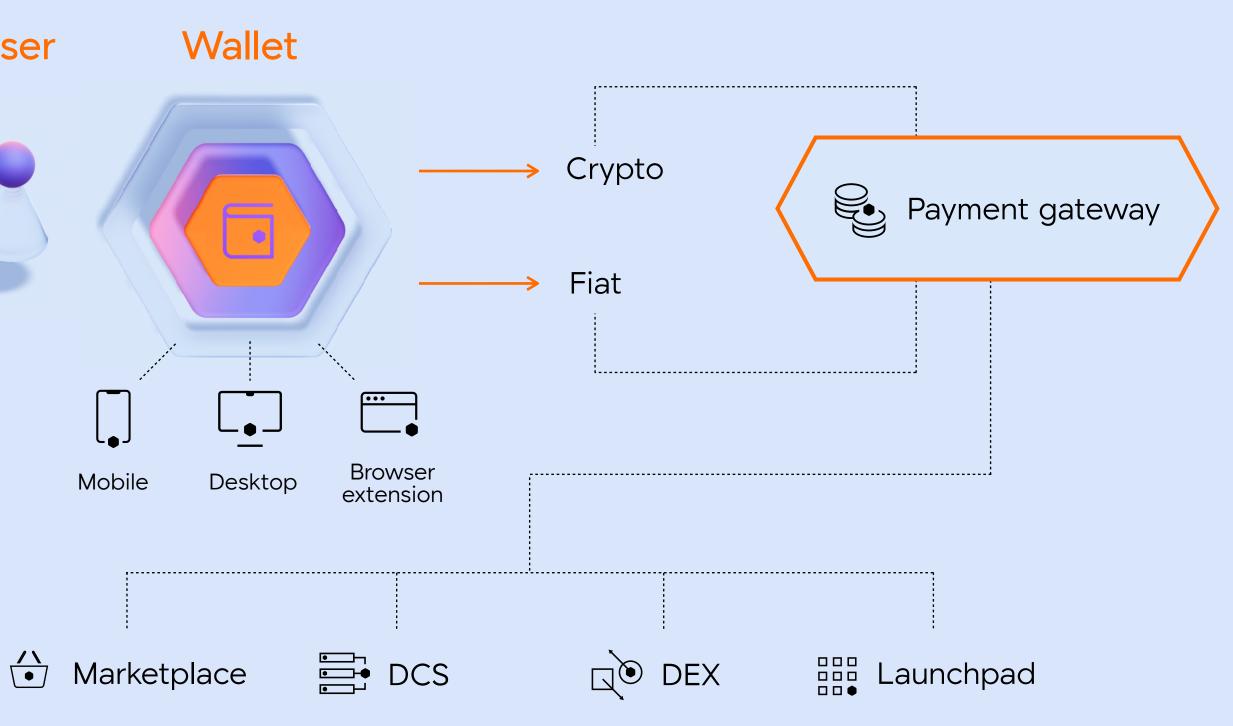
### Grape will support both fiat and crypto in its multi-platform wallet

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

User

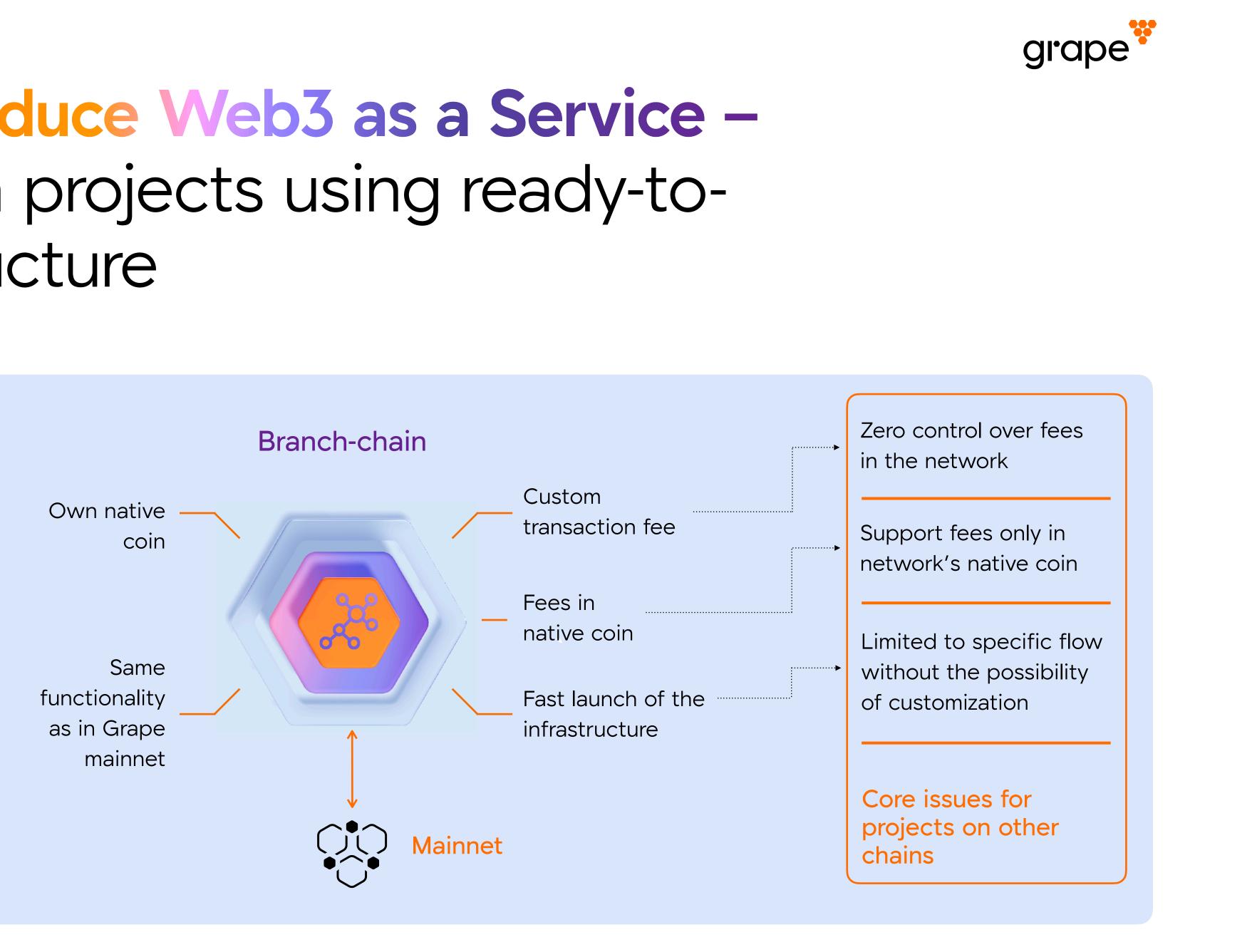
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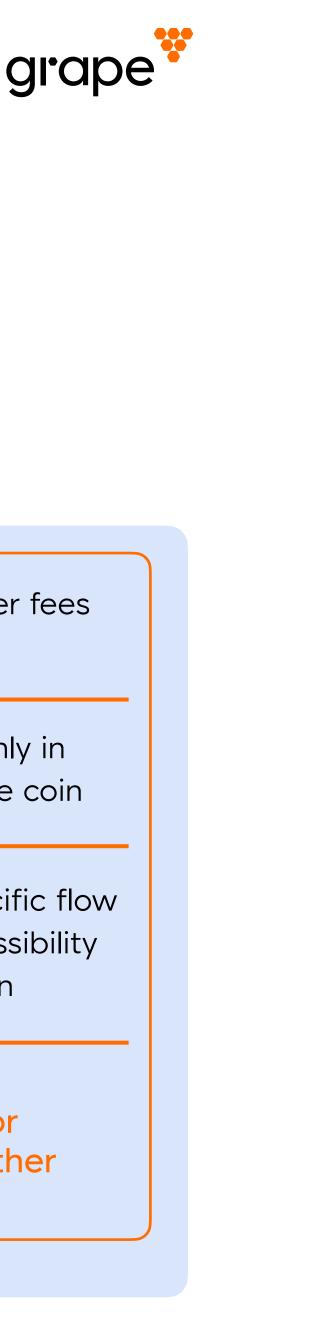




### Grape will introduce Web3 as a Service – a tool to launch projects using ready-todeploy infrastructure

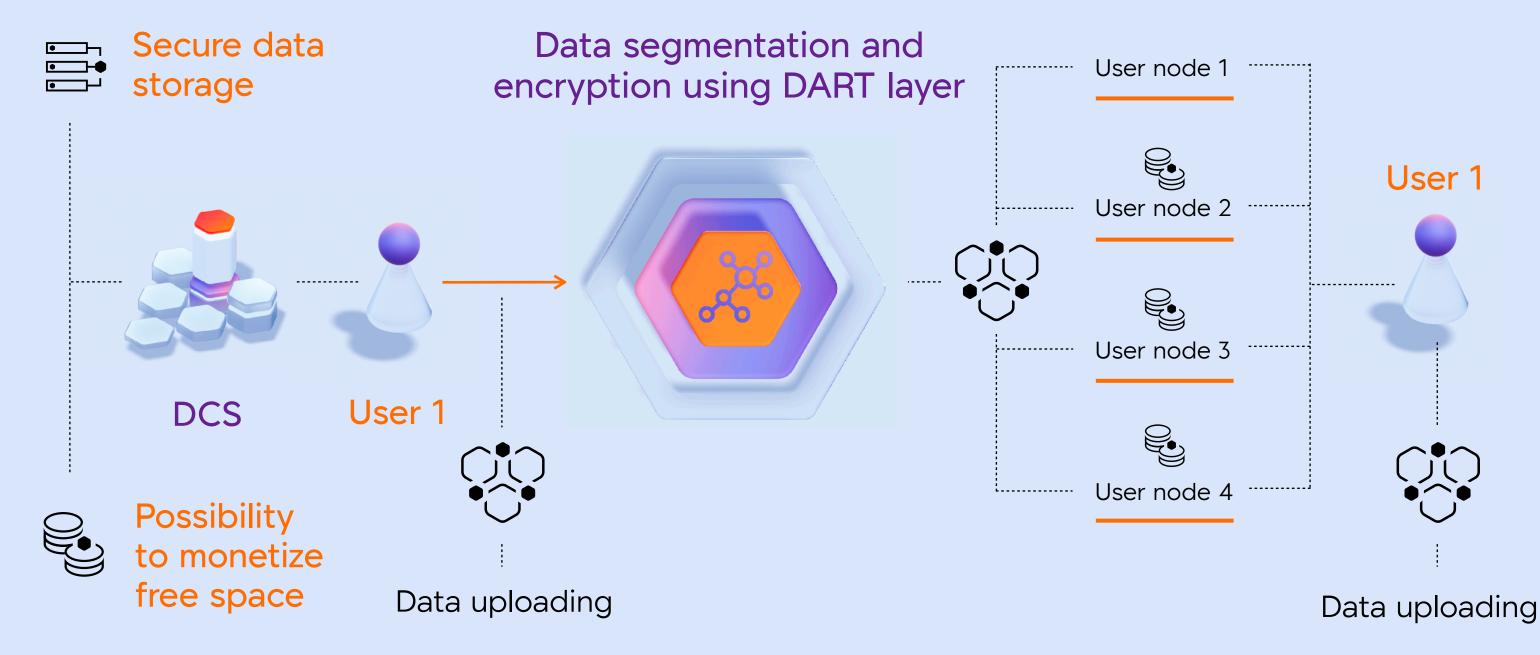
Grape will provide an autonomous infrastructure for projects requiring custom operations flow with most of the ecosystem's benefits.

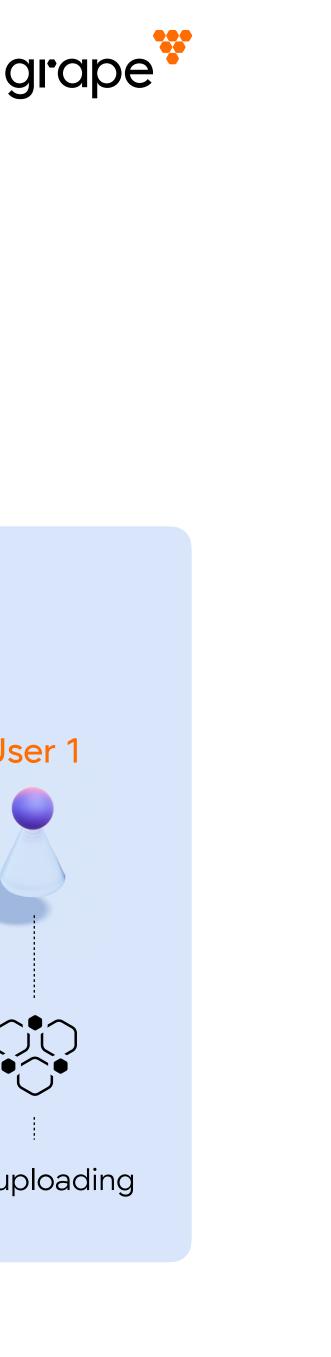




# **Decentralized data storage (DCS)** is the crucial element of the decentralized ecosystem

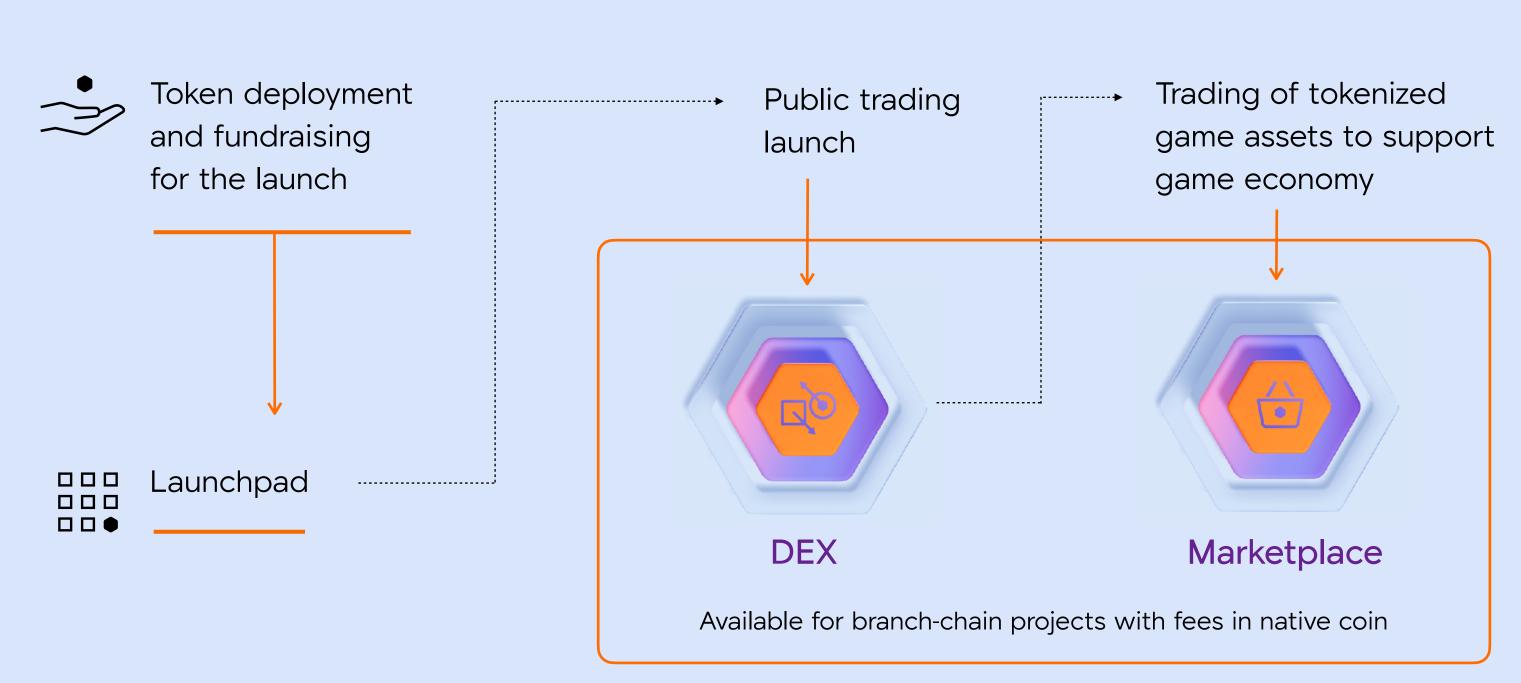
Grape will allow anyone to become a node operator and provide disk space for distributed data storage in exchange for a reward.

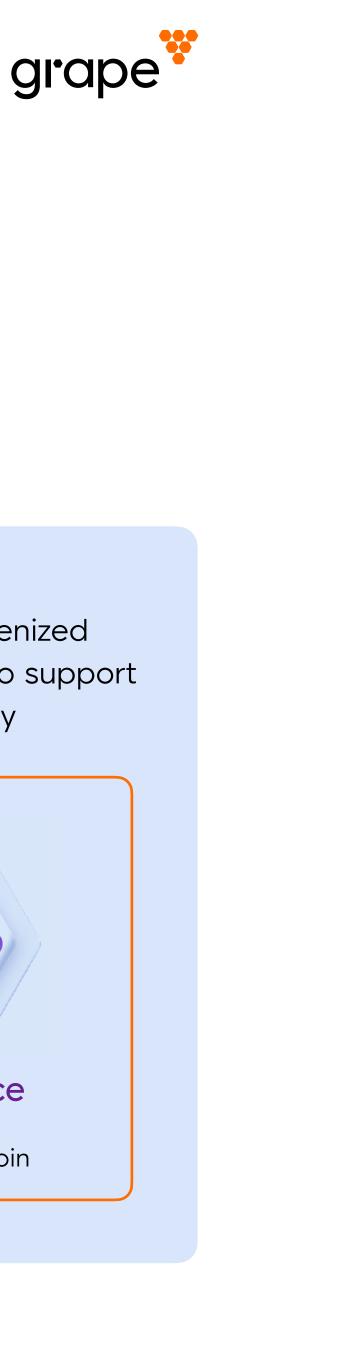




## Through Grape, launch and maintain projects within a single ecosystem

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





### **Section 3 - Tokenomics**





### Tokenomics

All tokens will be used for ecosystem-related actions, such as investments, marketing, rewards, and other community growth incentives.

Pre-Distribution
Staking and Community rewards
Grape DAO
Grape Labs
Total



Total supply %	Total supply
40.0 <b>%</b>	4,000,000
10 <b>%</b>	1,000,000
10 <b>%</b>	1,000,000
40.0 <b>%</b>	4,000,000
100%	10,000,000

### Distribution

- 120-day staking lock on [GRP] with 20% APY, starting on the day of token delivery into an ERC20 wallet
- 30% fee if Users sell [GRP] the month following the lock end
- 20% fee if sold the second month after the lock end
- 10% fee if sold the third month after the lock end

### 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	
Reciever	
Basic node	
Advanced node	
Grape DAO	
Grape Labs	

Total



e distribution		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 <b>%</b>	2.5\$ for node operators per 1 TB of data	
	5 <b>%</b>	25\$ for node operators for 1 TB of egress bandw	
		3.5\$ for users per 1 TB of data	
	100%	6.5\$ for user per 1 TB bandwidth	



### Roadmap

