



# A decentralized future for AI

SECURE AND LEAK PROOF

LAYER 1 - DAG 700K+ TPS

DECENTRALIZED DATA STORAGE

ANNE GENAI

AI RESOURCES EFFICIENCY

USER HARDWARE FUELED AI

AUTOMATED WEB3 INTEGRATION



# AI - the primary driver for computation resources demand and cybersecurity risks

The availability of computational resources is the number one constraint on the growth rate of AI and its accessibility to users

“ We’re seeing a lot of interest from startups and smaller companies in using LLMs, but the cost is often a major hurdle. We need to find ways to make these models more accessible and affordable for everyone.



Clement Delangue,  
CEO of Hugging Face

“ The development of AI is currently bottlenecked by the availability and cost of computational resources.



Andrew Ng,  
Co-founder of Coursera and deeplearning.ai

Companies and solutions that have been exposed to information leaks when using AI:

SAMSUNG



amazon

Google

In 2023, the computational cost of maintaining AI was **240 billion USD**

In 2027, the computational cost of maintaining AI is projected to be **1.1 trillion USD**. (CAGR 40%)

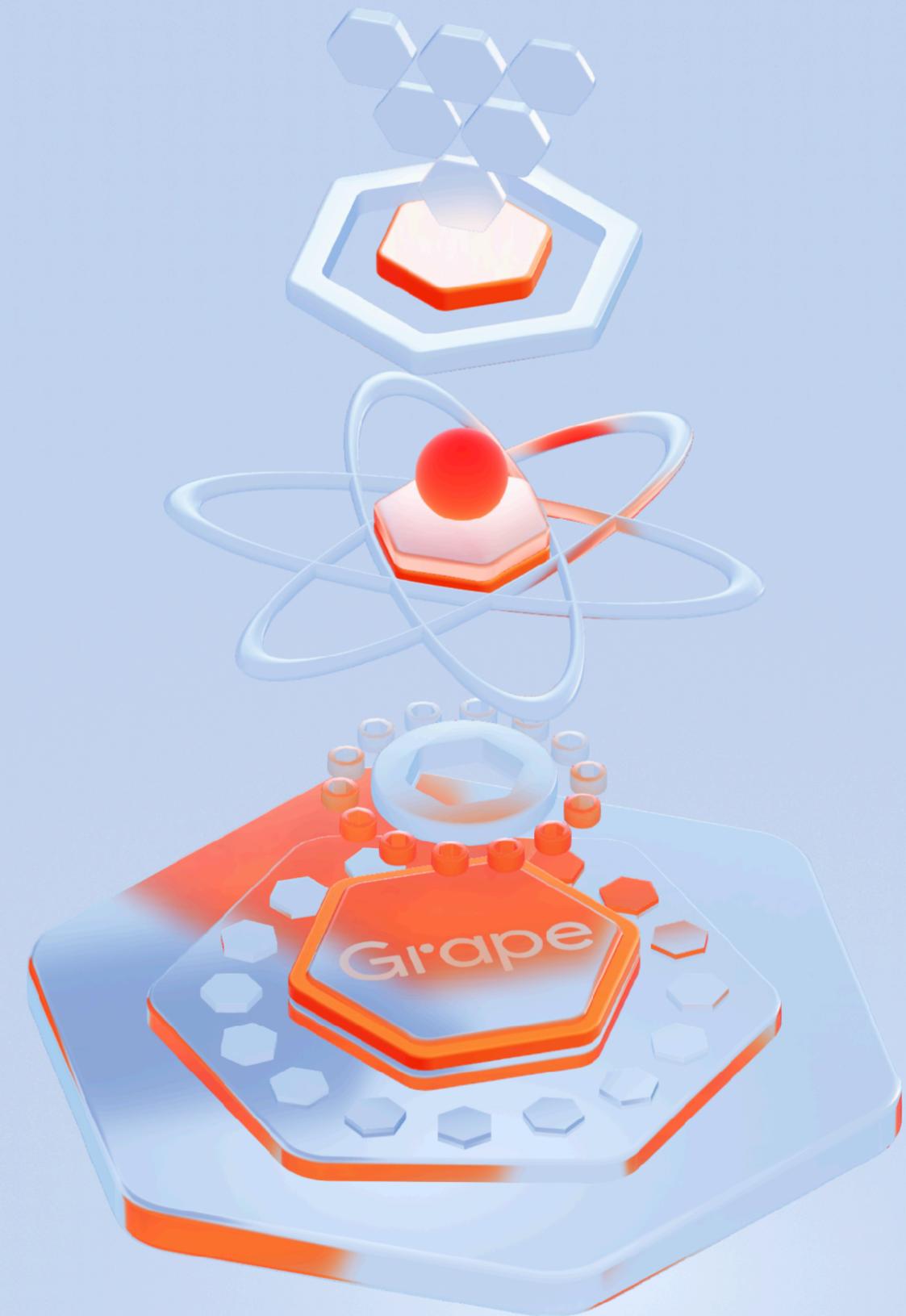
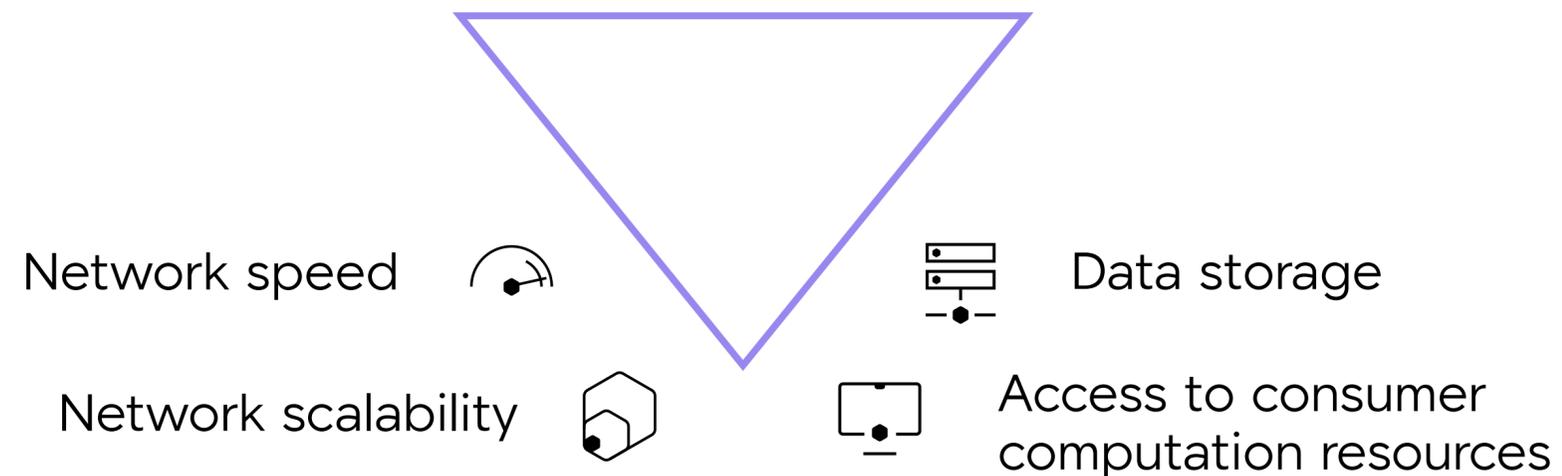
# DLT as a means to **decentralize AI**

and gain access to growing computation resources available to consumers as a response to AI driving demand

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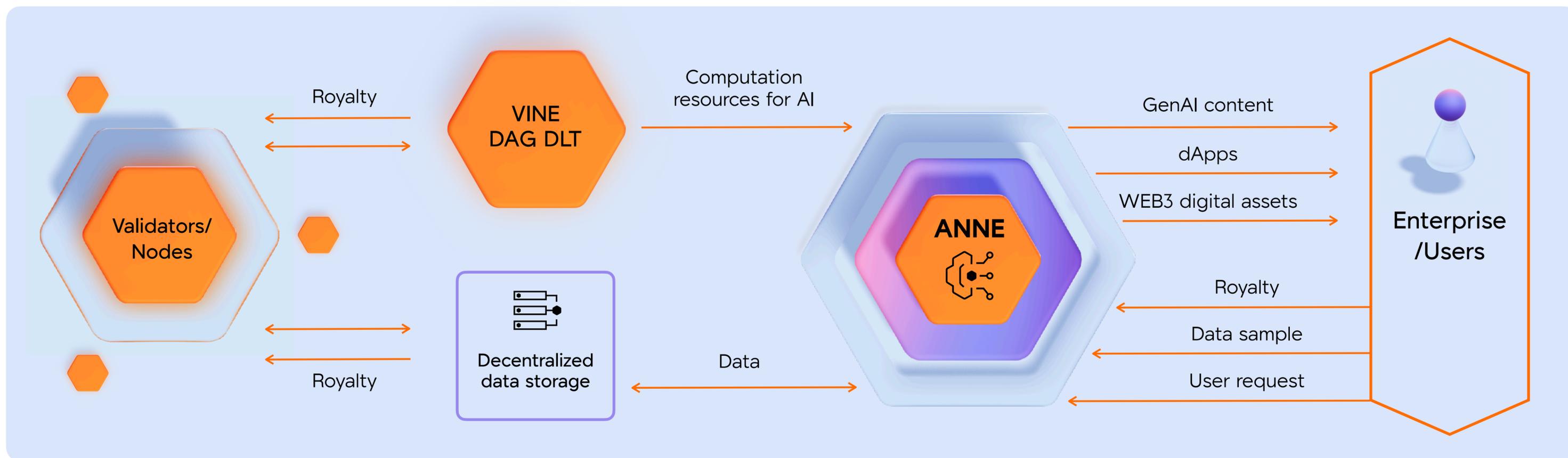
DLT has the necessary properties and potential to meet the key needs of AI infrastructure.

Once it solves key industry bottlenecks



# ANNE – DLT fueled AI

**Proof of Augmentation Intelligence (PoAI)** is the foundation of our consensus algorithm, designed to create a decentralized network of computing power contributed by Grape users. This innovative approach uses a unique reward, computational and data resources distribution mechanism to meet the exponential growth demands of AI infrastructure.



# Grape is a solution to **decentralize AI**

**Grape** – is a DLT DAG based ecosystem built to create **highly efficient AI infrastructure** that includes:

**ANNE** – generative AI supported by decentralized computation resources

READINESS - 40%

SMM CONTENT GENERATION

IMAGE, VIDEO, VOICE GENERATION

DIGITAL AND GAMING ASSETS GENERATION

AUTOMATED WEB3 INTEGRATION

AUTOMATED/CODELESS DAPP CREATION

AUTOMATED WEB3 INTEGRATION

**Vine** – the most scalable and high throughput Layer 1 DLT on the market

READINESS - 70%

700K + TPS BY END 2025

SCALABILITY WITH NO DIMINISHING RETURNS

CURRENT DIGITAL ASSETS CAP - \$40 MLN

5 PATENTS PENDING

Decentralized data storage

READINESS - COMPLETE

DIGITAL ASSET STORAGE

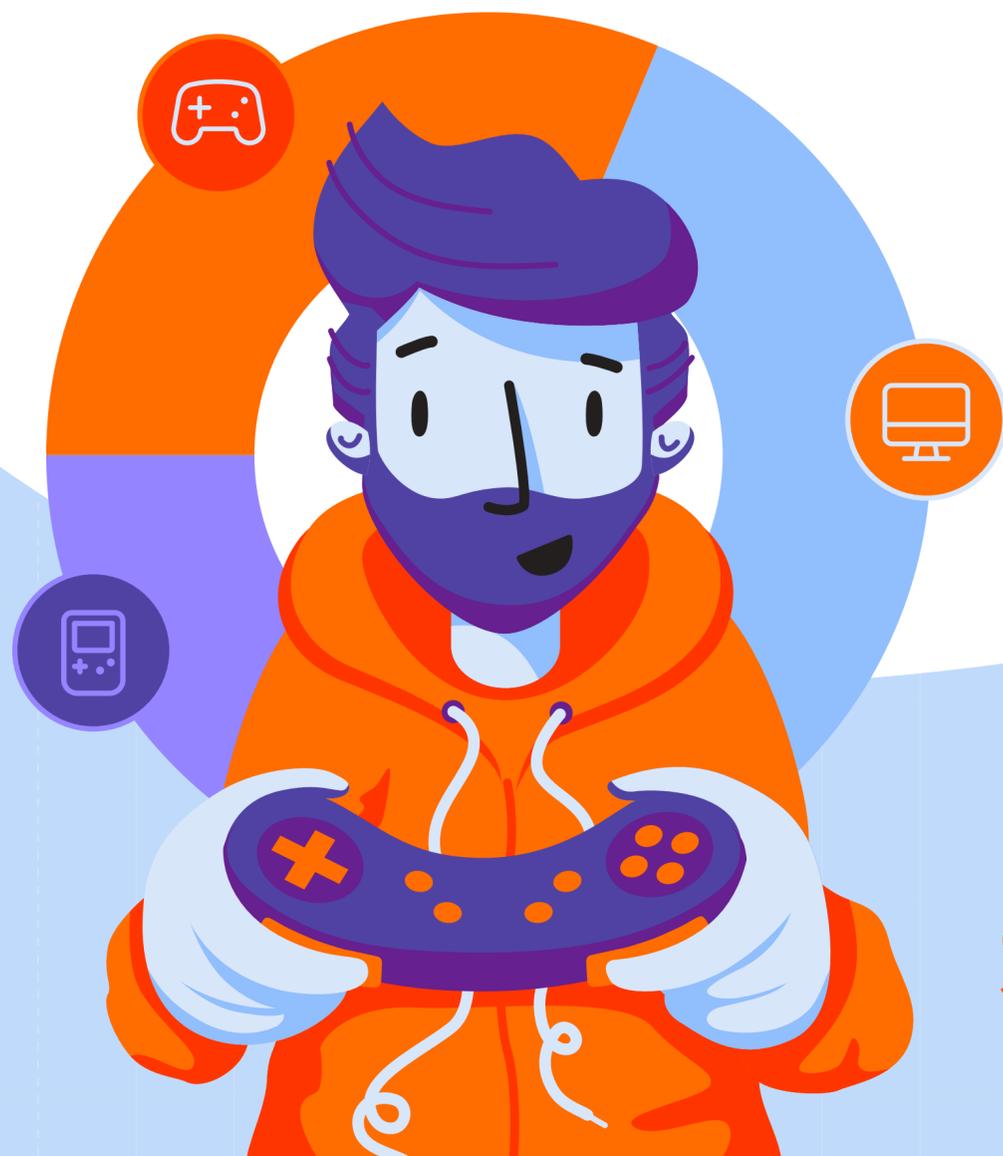
SECURE STORAGE OF PRIVATE AND SENSITIVE DATA

ROYALTY AND DATA DISTRIBUTION SYSTEM

STORAGE OF USER-GENERATED AI MODELS

STORAGE OF USER GENERATED AGENTS AND CONTENT

# A Booming Industry: Global Gaming Market Set to Triple in 6 Years



**\$665.77 billion** <sup>2030</sup>

Between 2023 and 2032, the worldwide market for **Generative AI in the gaming industry** is anticipated to grow by 23.3% and be worth \$7.105 billion by 2032.

**\$189.3 billion** <sup>2024</sup>

# ANNE – user flow

Effortlessly Familiar: UI/UX Aligned with GameDev's. Layer/Scenario Workflow

**Data input**

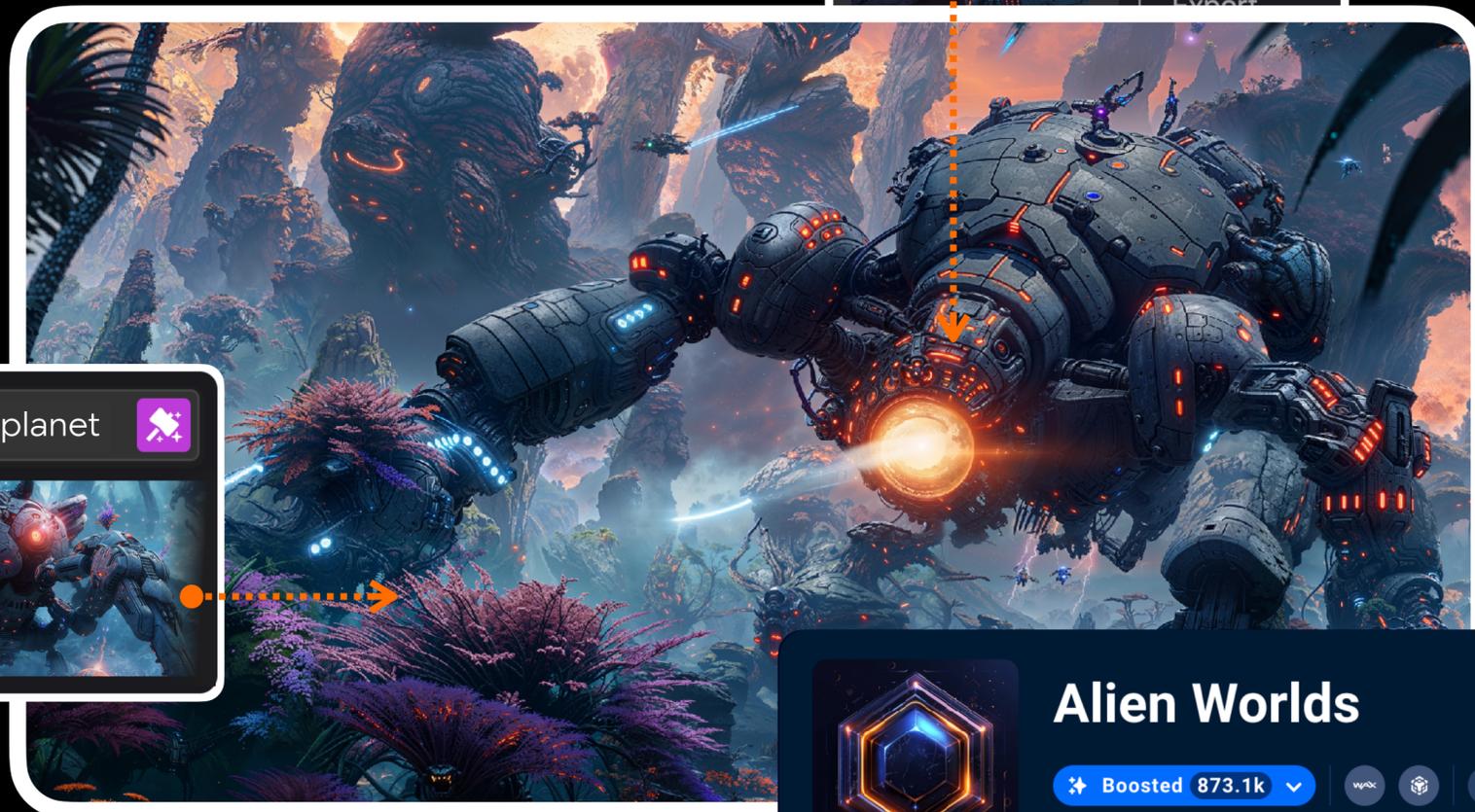
I want a marketplace for gaming assets with Web3 integration and platforms like OpenSea

**Data sample**  
The user provides key references in both visuals and text

robotic enemy, alien planet

**Providing test variants**  
ANNE provides initial test results to gather feedback from the user in order to refine the final output

Variations  
Re-forge  
Upscale  
Export



**Collecting additional deal flow details and requirements**  
Gathering key information necessary for setting up Web3 infrastructure, details for smart contracts, etc.

**Data output**

Complete and integrated dApp with all content and **digital & gaming assets** delivered to the user on web or mobile platforms.

**Alien Worlds**

Boosted 873.1k #8 in Games

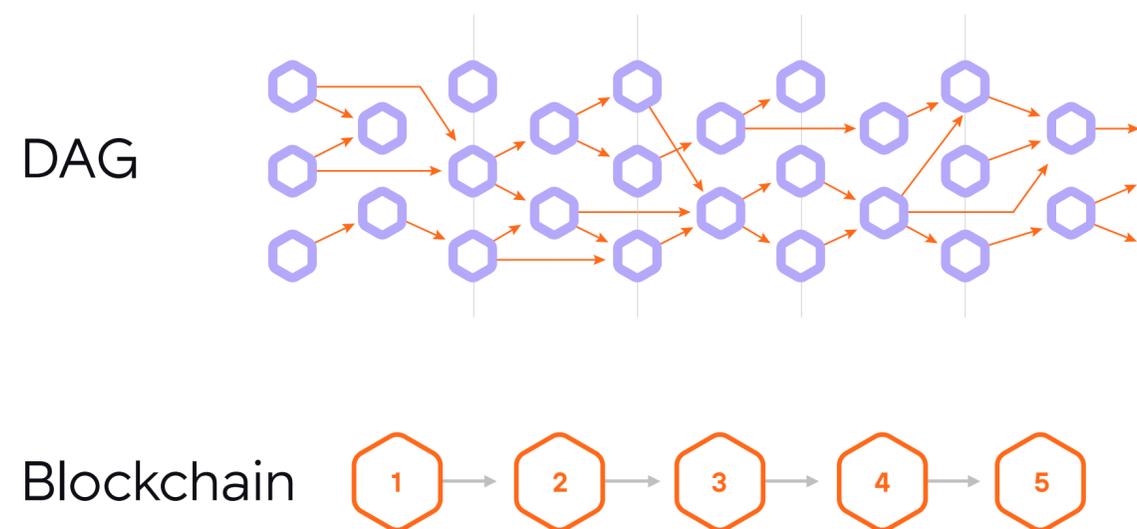
Innovative Metaverse where everything is tokenized [Read more](#)

[OPEN DAPP](#)

# Is Grape's VINE a Blockchain?

Grape's VINE network delivers Distributed Ledger Technology (DLT) based on Directed Acyclic Graph (DAG) technology, which differs from Blockchain in its record structure and asynchrony.

DAG functions as a network of interconnected branches that expands in multiple directions. Transactions can be confirmed much faster while remaining decentralized since each node only confirms the previous one.



## Core Benefits of VINE

### Scalability

User growth does not create bottlenecks, but rather more nodes create greater scalability resulting in more TPS.

### Asynchronous

Transactions are not queued or formed into blocks, a crucial factor for real-time focused applications used for banking, gaming, etc.

### Flexibility

Microtransactions are handled much more effectively due to the lack of technical requirements affecting fees.

# Grape's VINE is an evolutionary mechanism for scalability

**700K+ TPS** Grape

**10x** faster than Solana

**150x** faster than Avalanche

**350x** faster than Tron

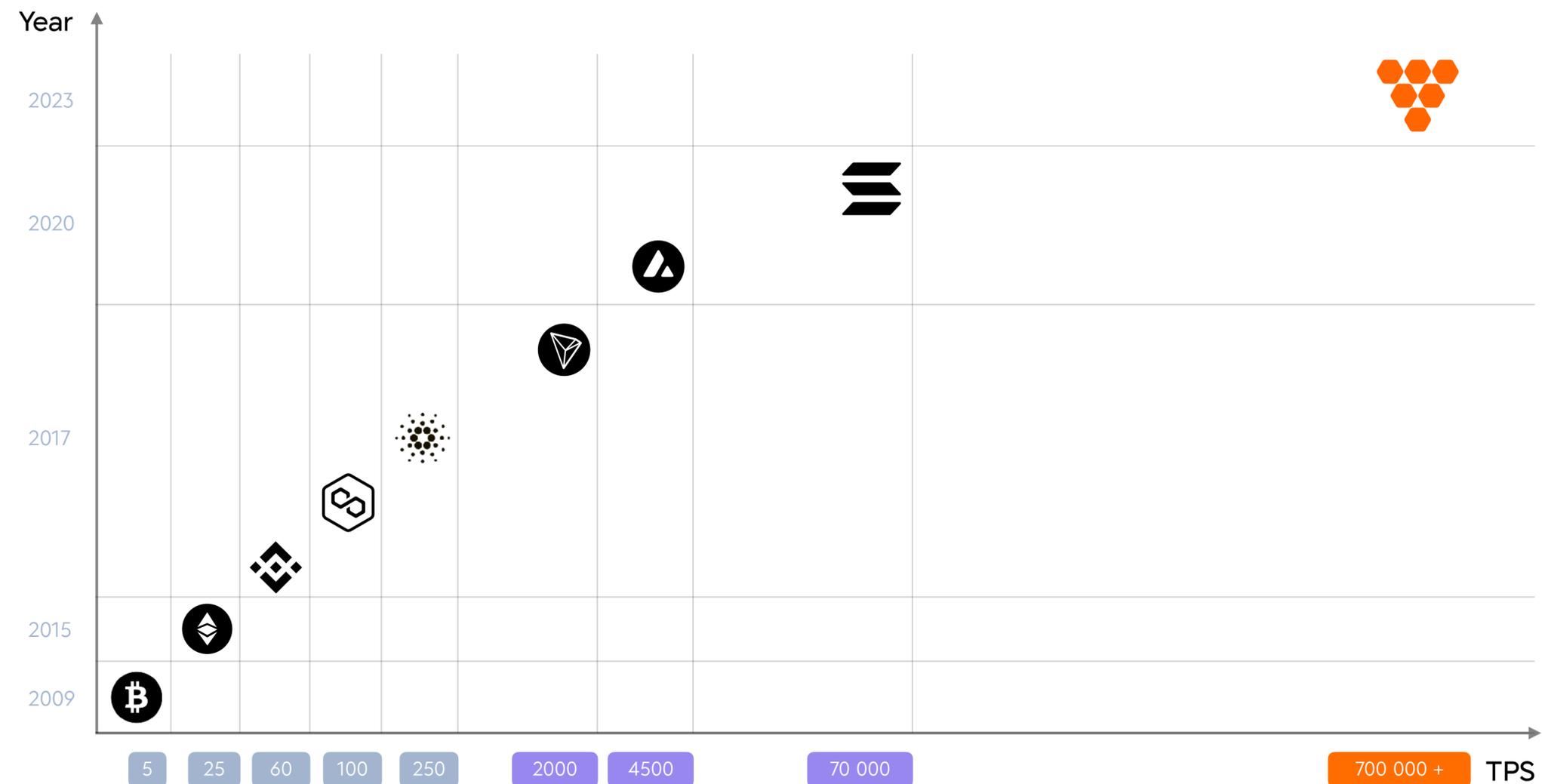
**2Kx** faster than Cardano

**5Kx** faster than Polygon

**7Kx** faster than BSC

**17Kx** faster than ETH

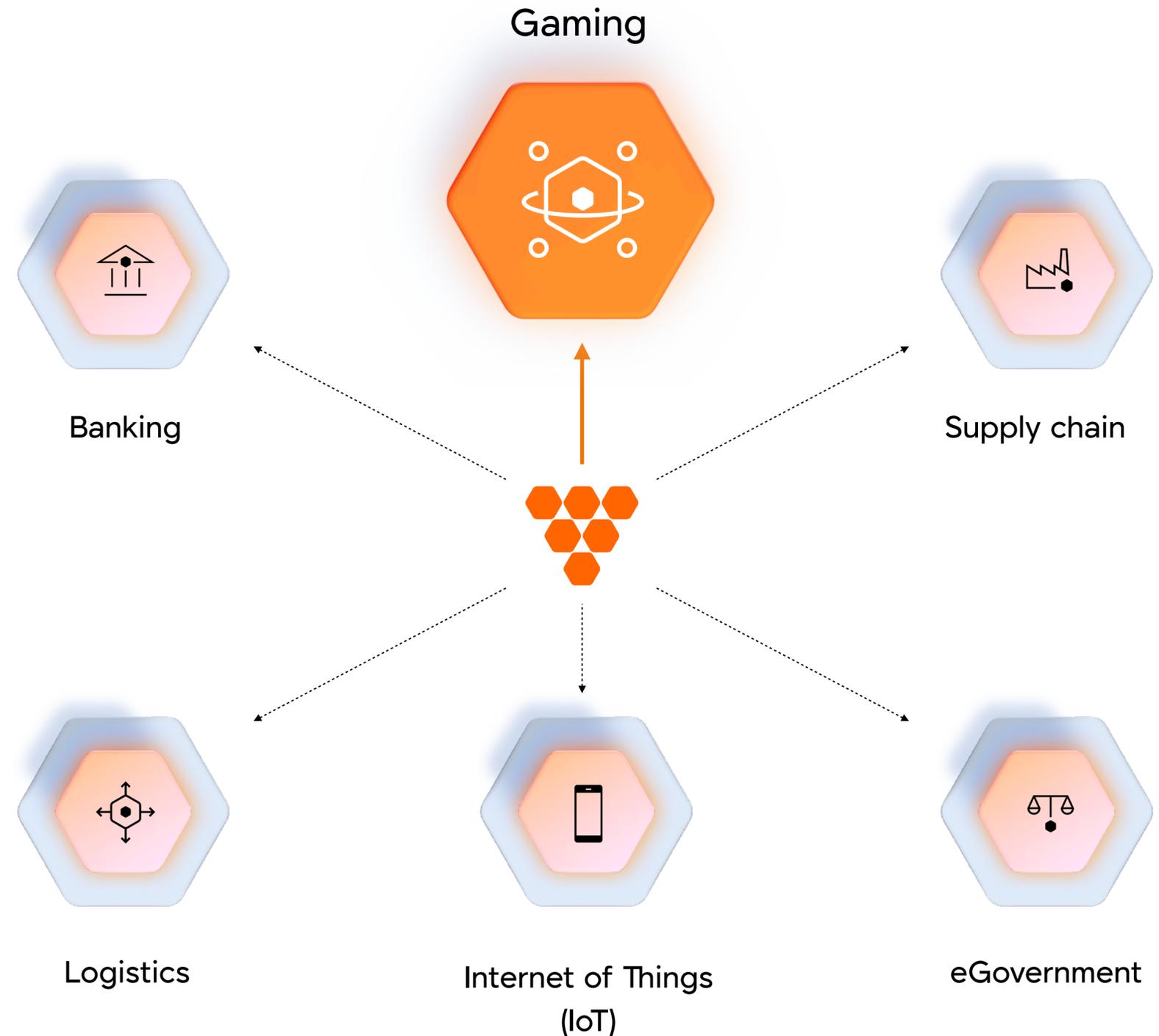
**84Kx** faster than BTC



# Which industries can benefit from Grape?

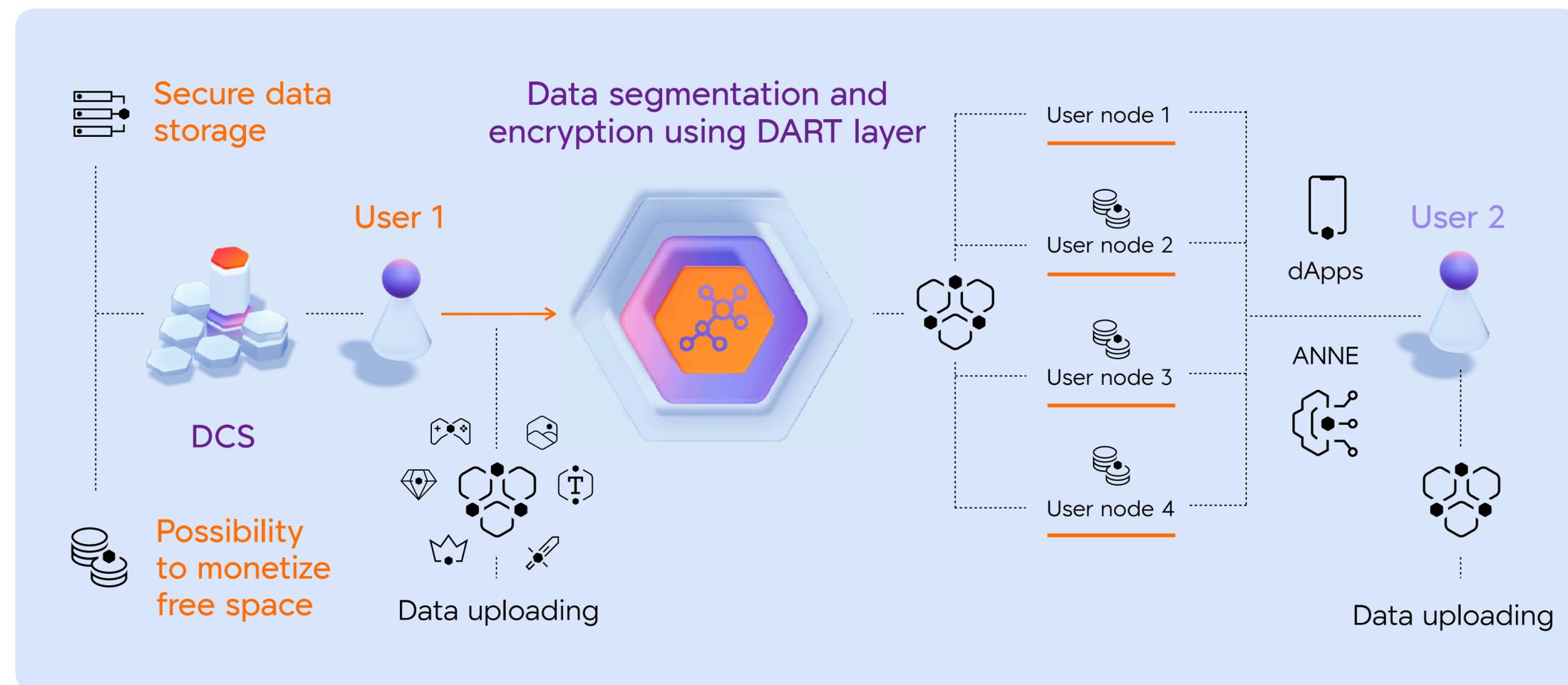
Grape is a comprehensive decentralized infrastructure that is designed to **withstand huge loads**. It has all the necessary functionality to support the needs of DApps for various industries.

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



# 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.



# Patents Pending for Grape

## Invention Name

## Description

- 
- 1 Vertex selection system**

The purpose of the invention is **to protect against attacks when choosing vertices** in a distributed ledger based on DAG. The Vertex selection system includes forming a DAG and protecting against lazy (placed close to the genesis block) vertex nodes of the graph.
  - 2 Data consistency and synchronization**

The main purpose of the invention is **to ensure consistency and synchronization of data in DLT based on DAG**. Due to the asynchronous nature of DAG, there is a need to have protection against the uncontrolled creation of parallel chains. A special structure of vertex confirmation achieves this.
  - 3 System for resolving transaction order inversion and method for rapid ledger verification**

The invention is intended for resolving the inversion of transaction order in a DLT and checking the consistency of the ledger and balance calculation, **providing enhanced security, reliability, scalability, and performance of DLT based on a DAG**. It is achieved by establishing global consistency in transaction order without using timestamps and other parameters vulnerable to manipulation.
  - 4 System for ensuring irreversibility and consistency of data when processing smart contracts**

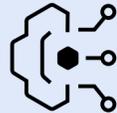
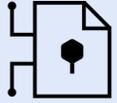
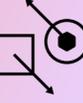
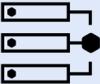
The invention focuses on enhancing **stability, security, and reliability** using commit transactions when operating smart contracts in the DAG-based DLT.
  - 5 Sharding - special use**

Grape have found a way **to use sharding in a unique way** to work within the Grape VINE network.

# VINE vs. other DAG-based systems

Technology	Release Date	Consensus	Transaction Speed (TPS)	Scalability	Security	Governance	Transaction Approval time	Fee
<b>IOTA</b>	June 2016	Coordinator-based consensus	1,000 (with Coordinator)	Limited by Coordinator, it's slower without it	Cryptographically secured	Decentralized foundation	1-3 minutes	zero
<b>DAGCoin</b>	July 2018	DAG-based consensus	8,000	Limited by hardware resources	Cryptographically secured	Centralized	30 seconds	0.0005 DAGCoin
<b>ByteBall</b>	December 2016	DAG-based consensus	100	Limited by hardware resources	Cryptographically secured	Centralized	Few minutes	1 Mb storage fee \$0,033
<b>Nano</b>	November 2017	Open representative voting consensus	Up to 7,000	Limited by hardware resources	Cryptographically secured	Decentralized	Limited only by transaction transfer delays	zero
<b>XDag</b>	December 2017	DAG-based consensus	200-300	Limited by hardware resources	Cryptographically secured	Decentralized	30 seconds	min of 0.01 XDAG
<b>Fantom</b>	February 2018	Lachesis-based consensus	300,000 (Up to 10,000 in real test)	Horizontally scalable	Cryptographically secured	Decentralized	Few seconds	very low
<b>Grape</b>	2023	VINE proprietary synchronization and confirmation algorithms complex	Higher than 700,000	Increased with every connected node (linear effect)	Post-quantum cryptographically secured	Decentralized	Sub-second limited by front-end	very low or zero

# Grape is the most advanced DAG-based Layer 1 infrastructure for a decentralized internet

<p>Quantum resistant </p>	<p><b>ANNE</b> gen AI </p>	<p>Direct Acyclic Graph for unparalleled scalability </p>	<p>Launchpad for fundraising </p>	<p>Low barrier to network validation</p>
<p>Multiplatform non-custodial wallet </p>	<p><b>ANNE</b> smart contract builder </p>	<p>700,000+ TPS </p>	<p>NFT marketplace </p>	<p>Easy-to-use Web UI to launch dApps</p>
<p><b>Web3</b> codeless integration</p>	<p>Interoperable virtual assets as an NFT standard </p>		<p>AI Neural Network Engine for simple access to decentralized infrastructure </p>	<p>Native DEX for token trading </p>
<p>Interoperable virtual assets as an NFT standard </p>		<p>AI Neural Network Engine for simple access to decentralized infrastructure </p>	<p>Decentralized Storage for personal data and digital assets </p>	

# Current raise

The total amount sought in investment is **\$25 million USD**

The current amount of debt obligations is **\$0**

**\$40 million** is the current valuation of Grape's crypto assets

## Expectations

	According to Bloomberg data, the projected revenue will be:	Our projected share of the GenAI market:	ANNE services royalty: 5% EBITDA:	Valuation:
2025	<b>\$217 billion</b>	<b>1% – \$2.17 billion</b>	<b>\$100 million</b>	<b>&gt;\$1 billion</b>
2026	<b>\$304 billion</b>	<b>5% – \$15 billion</b>	<b>\$750 million</b>	<b>&gt;\$10 billion</b>
2027	<b>\$399 billion</b>	<b>10% – \$39.9 billion</b>	<b>\$1.99 billion</b>	<b>&gt;\$20 billion</b>

# grape



## Q4 2025

- Mainnet Phase 1
- Smart Contracts
- AI Announcement
- Game Partner Announcement
- Free Zone Phase 1
- GRP Listings
- GGT Listings

## Q1 2026

- Mainnet Phase 2
- Freezone Phase 2
- AI Apps Phase 1

## Q2

- Mainnet Phase 3
- AI Games Phase 1
- AI Apps Phase 2
- Decentralized Web Browser

## Q3

- Mainnet Phase 4
- AI Games Phase 2

## Q4

- AI Games Phase 3

