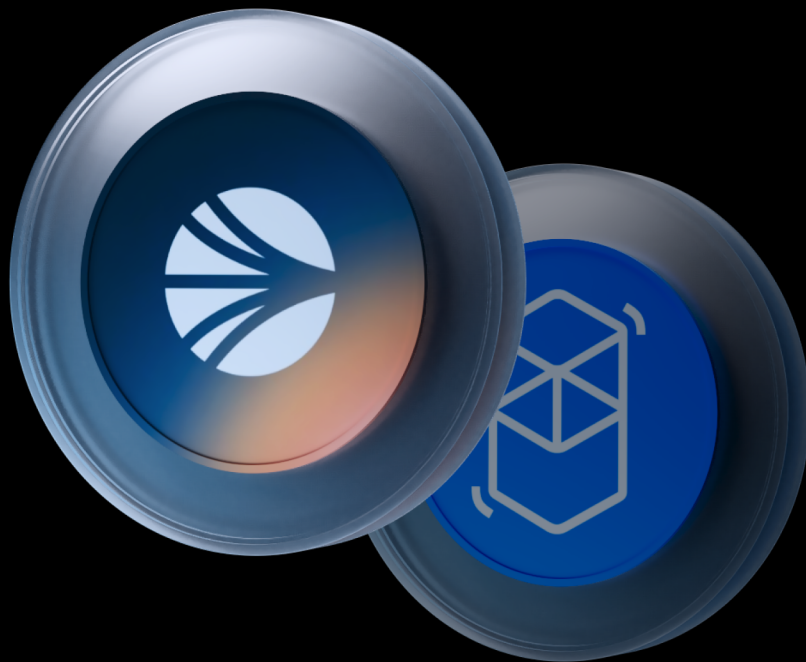


# Can Sonic Revive Fantom's Peak

Data Modeling Evaluation



# Abstract

- In March 2022, Fantom ranked among the top five public chains, with a peak Total Value Locked (TVL) of nearly \$8 billion, approximately eight times Sonic's current peak.
- Within three months of its mainnet launch, Sonic achieved nearly 40-fold exponential TVL growth, reaching close to \$1 billion. It now ranks 12th among public chains by TVL, with a market share of 1.07%.
- Sonic's transaction activity (weekly transaction volume at about 51% of Fantom's peak) and DEX trading volume (approximately 16.9% of Fantom's peak, ranking 7th among public chains) are still in early stages. User interaction frequency and trading depth on-chain remain areas for improvement.
- During its peak, Fantom's top four native protocols collectively held nearly 65% of the chain's TVL. In contrast, Sonic currently relies mainly on cross-chain protocols like Aave and Silo. Its native ecosystem is still developing, and greater investment is needed in protocol diversity and core project incubation.
- Sonic adopts a "triangular offensive" model (Lombard, Ether.fi, and Rings), with restaking and stablecoins as dual growth drivers. Within three months, the market capitalization of Sonic-based stablecoins has reached \$500 million. Since early 2025, Sonic has attracted \$1.3 billion in net capital inflows, ranking second among public chains during this period, showing strong capital absorption capacity (as of April 7, 2025).
- \$FTM once achieved a 190x price increase, whereas \$S has only seen a peak increase of about 2x recently. This significantly underperforms Fantom's previous cycle, highlighting the need to improve incentive mechanisms.
- Using the Analytic Hierarchy Process (Sonic scored 6.5 out of 10) and a logistic regression model (replication success probability of 68.2 percent), Sonic demonstrates moderate potential to recreate Fantom's peak performance under current variables.
- Monte Carlo simulations show that if capital inflows double in a bull market scenario, the probability of successful replication rises to 82 percent. In neutral scenarios, the likelihood is between 65 and 70 percent, while in a pessimistic scenario (with capital outflows), the probability drops to only 35 percent. Market trajectory will depend on sustained capital inflow and the pace of ecosystem development.

**Keywords:** Gate Research, Sonic, Fantom, Andre Cronje (AC)

# Gate Research: Evaluating Sonic's Potential to Recreate Fantom's Peak via Data Modeling

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# 1. Introduction: Sonic's Rise and Market Attention

Against the backdrop of a generally sluggish crypto market, the Sonic public chain has managed to capture significant attention with its strong growth momentum. Backed by the return of renowned developer Andre Cronje (AC), Sonic reached a key milestone on March 12, 2025, when its cross-chain bridge TVL surpassed \$1 billion. Within 24 hours, the Bridge TVL grew by 48.61 percent to \$1.028 billion, making Sonic the 13th public chain to exceed \$1 billion in bridge TVL.

Over the past month, Sonic has experienced explosive growth. Its total TVL surged from \$26 million in early January 2025 to a peak of \$730 million on February 24, marking a more than 28-fold increase. This rapid growth has made Sonic one of the fastest-growing chains by TVL in February and a rising force within the Ethereum Virtual Machine (EVM) ecosystem.

Sonic is the successor to the Fantom network, which was previously known for its high performance. In August 2024, the Fantom Foundation announced its rebranding as Sonic Labs. In December 2024, it launched a new EVM-compatible chain, Sonic, with the core goal of building a Layer 1 platform capable of sub-second settlement. On December 18, 2024, Sonic Labs officially announced the launch of the Sonic mainnet. Thanks to its sub-second transaction speeds, performance became Sonic's defining narrative. Within just three days of launch, official data showed that over 1 million blocks had been generated on-chain, demonstrating Sonic's exceptional transaction throughput.

Looking back, the Fantom team achieved significant success during the 2021–2022 bull market. As a dark horse during the DeFi Summer of 2021, Fantom attracted a large number of DeFi participants and reached a peak TVL of \$8 billion in March 2022. However, Fantom suffered major setbacks in 2022 due to Andre Cronje's departure and the Daniele Sestagalli controversy, leading to a 95 percent drop in TVL.

Fantom had built a reputation for scalability and efficiency in the blockchain space. With the transition to Sonic, the team is committed to reinforcing these strengths. Sonic is more than just a rebranding of Fantom—it is a revamped platform combining technical upgrades with enhanced capabilities, boasting features like 10,000 transactions per second (TPS). Its developer incentive program, FeeM, also aims to foster ecosystem growth, an ambition that the original Fantom chain had pursued.

From Fantom to Sonic Labs, the growth of the Sonic ecosystem reflects the team's effort to launch a "second venture." However, Sonic still faces critical challenges and uncertainties, including whether its high performance will be fully realized, whether token migration and airdrops can effectively revitalize the ecosystem, and whether Sonic can truly replicate Fantom's peak success.

This report aims to comprehensively assess the core strengths and challenges of the Sonic ecosystem, comparing it with Fantom's peak era. By analyzing competitive dynamics,

technological advances, user growth, and ecosystem development across multiple dimensions, the report explores Sonic's potential to recreate Fantom's former glory, while evaluating its strategic direction and risk mitigation approaches in today's complex market environment.

## 2. Understanding the Rise and Fall of Fantom

To evaluate whether Sonic has the potential to recreate Fantom's peak performance, it is essential to review Fantom's achievements and performance during its golden era.

### 2.1 Overview of the Fantom Project

Fantom (FTM) is a high-performance smart contract platform built on Directed Acyclic Graph (DAG) technology. Established in 2018, it aims to resolve the blockchain trilemma of scalability, security, and decentralization. Fantom's primary objective is to provide decentralized applications (dApps) with a high-throughput, low-latency, and near-zero cost transaction environment, through an innovative consensus mechanism and architectural design. It is fully compatible with the Ethereum Virtual Machine (EVM), with a strong focus on the DeFi sector, enabling developers to seamlessly migrate applications from the Ethereum ecosystem.

#### 2.1.1 Technical Architecture

Fantom's blockchain environment, called Opera, supports the development and deployment of smart contracts. Its core advantage lies in its efficient and low-cost performance enabled by DAG technology, along with compatibility with EVM and the Solidity programming language.

The Opera mainnet adopts a layered architecture designed to enhance flexibility and facilitate seamless migration and upgrade of Ethereum-based dApps, aiming to improve performance and reduce costs. Specifically, Opera consists of the following three layers:

- **Core Layer (Opera Core Layer):** Handles large-scale transaction processing and executes the consensus mechanism among nodes.
- **Middleware Layer (Opera Ware Layer):** Supports smart contract execution, token issuance, rewards, and payment functionalities.
- **Application Layer (Opera Application Layer):** Provides APIs and development tools for third-party dApps.

The Lachesis consensus mechanism is Fantom's core technological innovation. Based on an asynchronous Byzantine Fault Tolerant (aBFT) model, Lachesis allows independent blockchains to run asynchronously without slowing down the main network. This provides Fantom with a significant edge in terms of speed and cost efficiency. The Lachesis Consensus Algorithm (LCA) based on DAG features:

- **DAG Structure:** Transactions are independently validated and then bundled into blocks, eliminating the linear bottleneck of traditional blockchains.

- **Sub-Second Finality:** Transactions are confirmed in just one second, significantly faster than Bitcoin (10 to 60 minutes) or Ethereum (15 seconds to 5 minutes).
- **High Throughput:** Theoretical transaction throughput can reach thousands of transactions per second (TPS), with the mainnet stably handling hundreds in practice.
- **Attack Resistance:** Built-in security mechanisms mitigate risks such as Sybil attacks and other common threats

Fantom also adopts a modular design. Each component is constructed as a module, allowing developers to flexibly combine functions and quickly build complex applications. Each dApp operates on an independent subchain, which prevents network congestion from affecting overall system performance.

## 2.1.2 Development Timeline

Figure 1: Key Milestones in Fantom's Development



Gate Research, Data from: Cryptoprag

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Based on Figure 1, the key development timeline of Fantom can be summarized into the following three stages:

### 2018–2020: Technology Validation Phase

- **January 2018:** The Fantom project was officially launched with the release of its white paper. Founded by Korean developer Byung Ik Ahn, it was initially positioned as a smart contract platform built on DAG (Directed Acyclic Graph) technology, aiming to overcome the scalability and efficiency limitations of traditional blockchains.
- **Early 2018:** Fantom completed a token sale covering 40 percent of its total token supply, raising \$40 million through a seed round and two private rounds. Notable investors included Hyperchain Capital, Signum Capital, 8Decimal, Arrington XRP Capital, Bibox Fund, Link VC, Nirvana Capital, JRR Crypto, Block VC, JD Capital, Kosmos Capital,

Lemniscap, and Transference Blockchain Fund. An additional \$2.65 million was raised through a public sale later that year.

- **September 2018:** Andre Cronje (referred to as AC throughout the text), a well-known figure in DeFi, joined Fantom as a technical advisor.
- **December 2019:** Fantom reached a major milestone with the launch of the Opera mainnet, which was EVM-compatible. Supporting Solidity and the Ethereum Virtual Machine enabled seamless migration of Ethereum-based dApps, attracting early developers and initiating the growth of its ecosystem.
- **September 2020:** Fantom launched a new staking model called Fluid Staking. The Fantom Foundation also released the first component of Fantom Finance, called fMin, which allowed users to lock any amount of FTM and use it as collateral to mint fUSD.

### **2021 to March 2022: Ecosystem Explosion Phase**

- **Andre Cronje Effect:** In 2021, AC took on the role of DeFi Architect for Fantom. He facilitated the migration of the Yearn Finance ecosystem and also drove the deployment of several projects on Fantom, including SpookySwap (a Uniswap equivalent for Fantom), Beefy Finance, and Scream. These efforts significantly boosted Fantom's presence in the DeFi space.
- **TVL Peak:** During the DeFi bull run, Fantom's total value locked (TVL) soared to a peak of \$7.932 billion on March 3, 2022, ranking it among the top five public blockchains.
- **Token Performance:** The price of FTM skyrocketed from \$0.017 at the beginning of 2021 to a peak of \$3.29 in January 2022, marking a gain of over 190 times.
- **Capital Support:** In 2021, Alameda Research, BlockTower Capital, and early investor Hyperchain Capital further strengthened Fantom's capital base by purchasing and staking FTM tokens worth approximately \$35 million, \$20 million, and \$15 million respectively.

### **2022 April to Present: Decline and Adjustment**

- **Andre Cronje's Departure:** In March 2022, Andre Cronje (AC) announced a temporary departure from the DeFi space, triggering market panic. This was widely seen as a major blow to confidence in the Fantom ecosystem. Following the announcement, TVL dropped sharply to \$600 million. At the same time, the FTM token price fell by approximately 15 percent and continued declining to around \$0.30.
- **Technical Optimization:** Fantom continued to upgrade the Lachesis consensus algorithm and introduced experimental ZK-Rollup solutions to enhance cross-chain security.
- **Brand Repositioning:** In August 2024, the Fantom Foundation announced a rebrand to Sonic Labs, and in December of the same year, launched a new EVM-compatible chain called Sonic.

In summary, between 2021 and early 2022, driven by the rapid rise of DeFi and Andre Cronje's significant influence in the space, Fantom built a thriving DeFi ecosystem. It was known for low

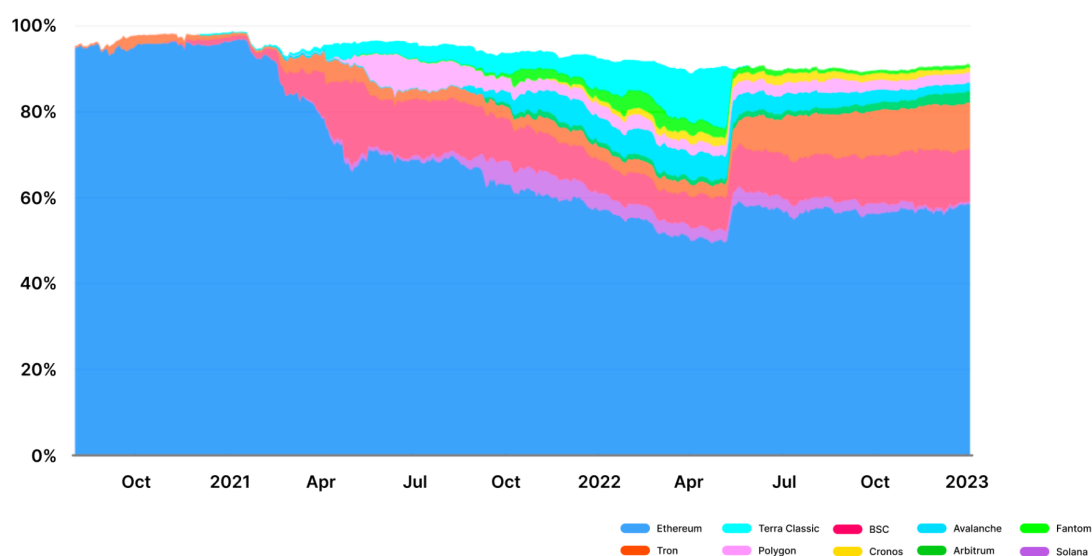
fees and fast transaction speeds, attracting a variety of innovative dApps and a vibrant community. The next section will focus on analyzing Fantom's ecosystem and data performance during its peak from 2021 to early 2022.

## 2.2 Fantom's Peak Era (2021 to March 2022)

In the first half of 2021, Fantom's DeFi ecosystem was still in its early developmental stage, with a limited number of native protocols. Multichain expansions of projects from other chains largely supported ecosystem activity. It was not until May 2021 that a wave of native projects began emerging on Fantom, with SpookySwap and SpiritSwap becoming key breakthrough applications. Both projects received direct support from the Fantom Foundation. In terms of data, Fantom's Total Value Locked (TVL) exhibited strong growth, quickly placing it among the top-ranking public blockchains.

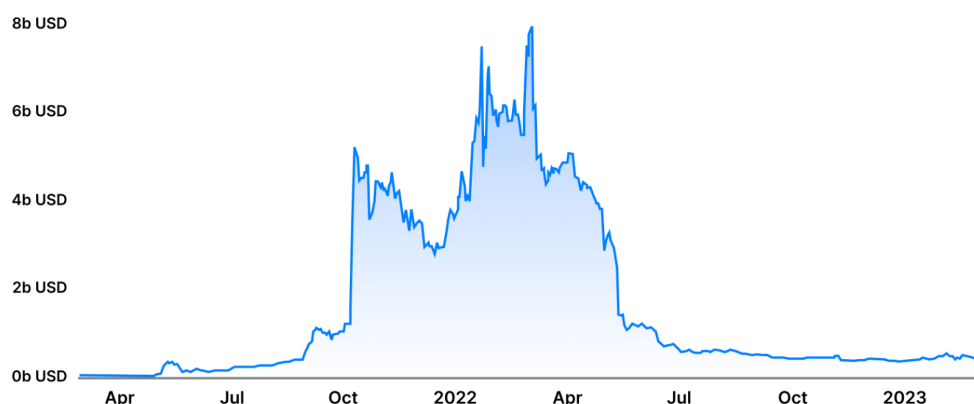
Fantom's peak TVL reached \$7.932 billion, ranking fifth among public chains. According to data from DefiLlama, the most active public chains during the 2021 to 2022 period included Ethereum, Terra Classic, Binance Smart Chain (BSC), Avalanche, Fantom, Solana, Tron, Polygon, Cronos, and Arbitrum. At the beginning of 2021, Ethereum dominated the market with over 95 percent of the total TVL. From March 2021 onwards, BSC and Tron began gaining market share. Starting in May 2021, Fantom started to gain visibility. As of March 3, 2022, Fantom held 5.52 percent of the total market TVL, ranking fifth, while the combined TVL of the top 10 public chains accounted for approximately 91.08 percent of the market total.

Figure 2: Market Share of Public Chains by TVL (2021–2022)



From a time dimension perspective, Fantom's TVL accumulation showed two major breakout periods: September 2021 and January 2022. At the beginning of 2021, Fantom's TVL remained relatively low. However, in September 2021, driven by the continuous influx of DeFi projects and capital, TVL surged rapidly, reaching its peak in March 2022. Subsequently, under the dual pressure of a market downturn and weakened key ecosystem drivers, Fantom's TVL declined sharply, dropping below \$500 million in the second half of 2022.

Figure 3: Fantom TVL from 2021 to 2022



Gate Research, Data from: Defillama

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### First Breakout (September to October 2021)

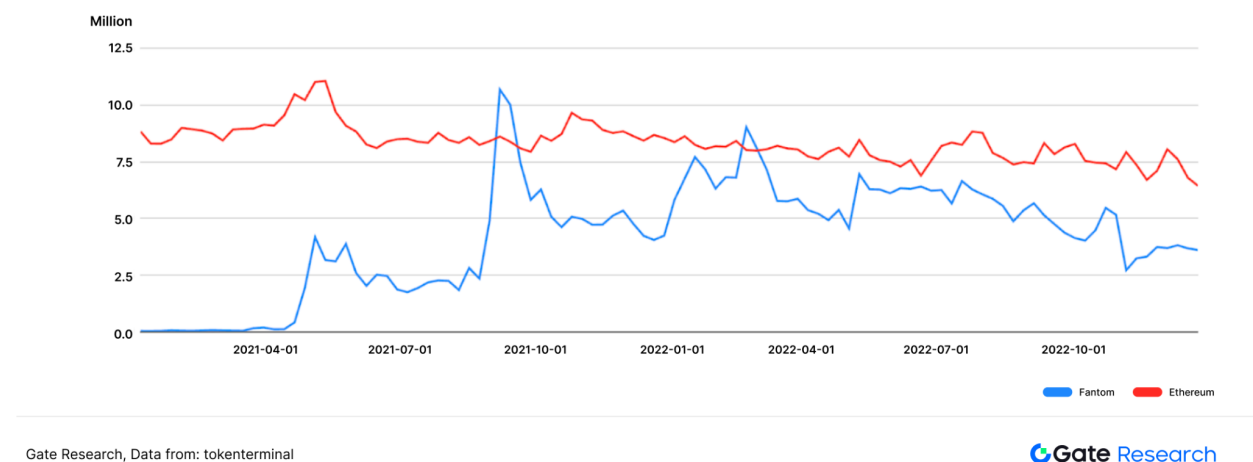
According to DefiLlama data, Fantom's TVL grew from \$619 million to \$5.2 billion by October 10, representing an almost eightfold increase. During this period, Fantom successfully surpassed Tron, Avalanche, and Polygon, securing the fifth position among public blockchains, behind Ethereum, BSC, Solana, and Terra. This wave of ecosystem expansion was primarily driven by AnySwap and Geist Finance. AnySwap benefited from the growing demand for cross-chain bridges, while Geist Finance, launched on October 7, attracted substantial capital inflows by offering extraordinarily high annual percentage yields (APYs) of 14,580 percent, accounting for over 30 percent of Fantom's TVL.

Additionally, Andre Cronje's announcement that Yearn Finance would migrate to Fantom further bolstered market confidence, injecting strong momentum into Fantom's DeFi ecosystem.

On March 3, 2021, Fantom's TVL was only \$693,000, with SushiSwap being the sole protocol within its ecosystem. However, with the launch of SpookySwap, Fantom's TVL soared to \$10.53 million within just 45 days, marking a more than fifteen fold increase. SpookySwap introduced liquidity mining incentives and multichain asset pools, becoming a core growth driver in the early stages. Later, in late August 2021, Fantom announced a liquidity mining incentive program

totaling \$370 million. By September, the number of transactions on Fantom had briefly surpassed Ethereum. Specifically, during the week of September 6, Fantom processed 10.69 million transactions, compared to Ethereum's 8.69 million.

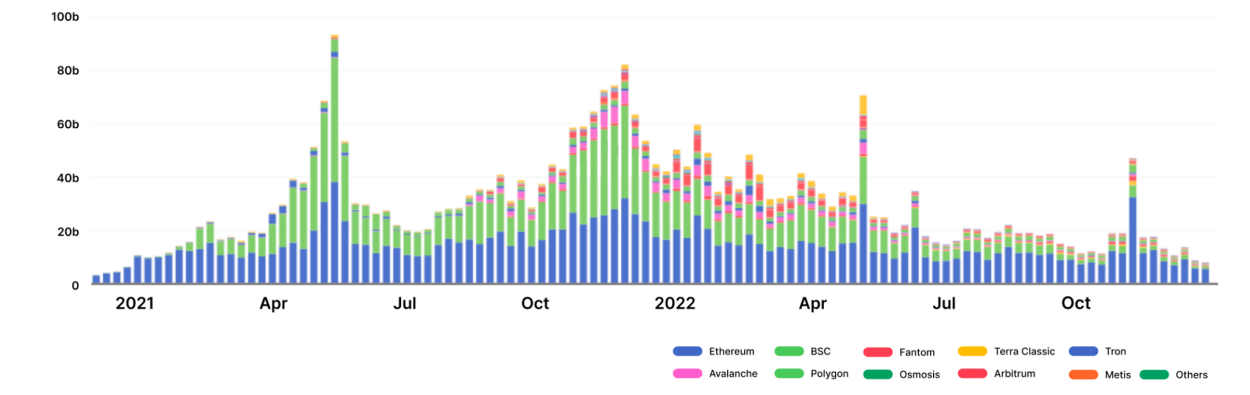
Figure 4: Number of Transactions on Fantom and Ethereum (2021–2022)



### Second Breakout (January to March 3, 2022)

According to DefiLlama, Fantom's TVL stood at \$3.766 billion on January 1, 2022. By March 3, it had surged to \$7.932 billion, representing a growth of nearly 110 percent, maintaining its fifth position among public blockchains. During the week of February 27, 2022, Fantom's decentralized exchange (DEX) trading volume reached \$5.045 billion, ranking third among public chains. The top two were Ethereum (\$14.664 billion) and BSC (\$9.166 billion). Together, the top six public blockchains (Ethereum, BSC, Fantom, Terra Classic, Tron, and Avalanche) accounted for approximately 88 percent of total DEX trading volume, totaling \$36.201 billion.

Figure 5: Weekly DEX Trading Volumes Across Public Chains (2021–2022)



Gate Research, Data from: DeFiLlama

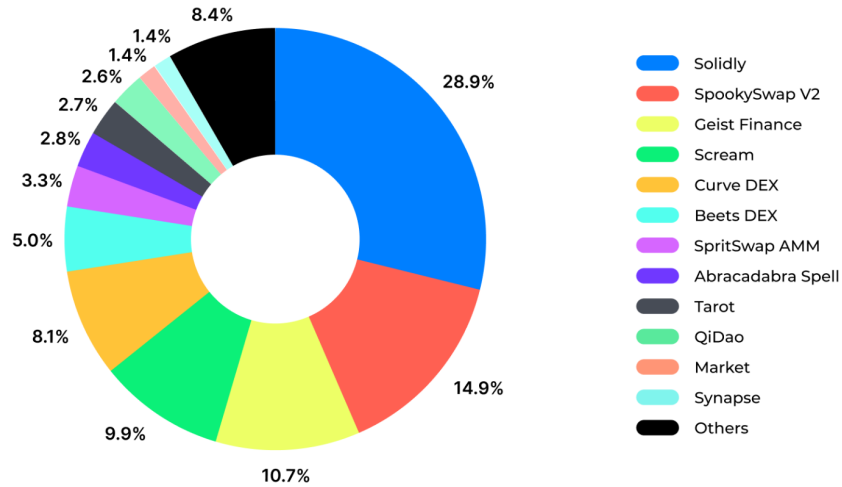
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This second breakout was mainly attributed to Andre Cronje's influence. On January 1, 2022, AC announced the upcoming launch of a new DEX project, Solidly, on Fantom. He also revealed plans to airdrop the new project's tokens to the top 20 DeFi protocols on Fantom based on TVL rankings. This announcement quickly triggered a market frenzy, as DeFi protocols actively accumulated locked TVL to qualify for the airdrop. The collective efforts of these protocols caused Fantom's TVL to soar.

Compared to early 2021, when most projects on Fantom originated from other blockchain platforms, by early 2022, Fantom's ecosystem had significantly matured. It had established a full-stack DeFi ecosystem covering multiple fields, including AMMs (SpookySwap, SpiritSwap, Beethoven X), lending platforms (Geist Finance, Scream), yield aggregators (Reaper Farm, Grim Finance, RoboVault), and AC's newly launched Solidly, strengthening Fantom's market position.

As of March 3, 2022, the TVL distribution showed Solidly dominating with a 28.9 percent share, followed by SpookySwap (14.9 percent) and Geist Finance (10.7 percent). Along with Scream (9.9 percent), these four protocols formed the “core four” pillars of the Fantom ecosystem.

Figure 6: Fantom Ecosystem TVL Distribution on March 3, 2022 (Peak)



Gate Research, Data from: Defillama

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Analysis of Fantom's active address data reveals a clear trajectory of "rapid growth, peak volatility, and gradual decline" between 2021 and 2022. At the beginning of 2021, Fantom's number of active addresses was relatively low. As more DeFi projects launched and incentive programs were introduced in the second half of the year, active addresses surged, reaching a monthly peak of nearly 450,000 by early 2022. However, due to the overall market downturn and the waning momentum of core projects, the number of active addresses gradually declined to around 100,000 or even lower. Overall, the trend of active addresses during 2021–2022 closely mirrored the boom and bust of Fantom's DeFi ecosystem, highlighting the significant impact of user enthusiasm and capital flow on the network's activity.

Figure 7: Monthly Active Addresses on Fantom (2021–2022)

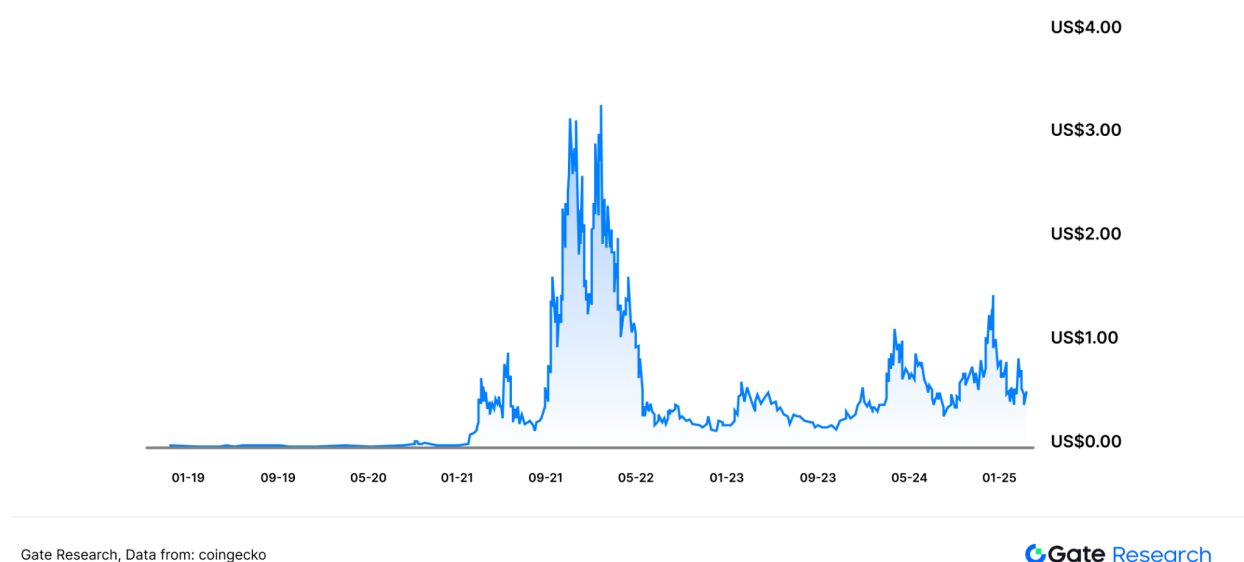


Gate Research, Data from: tokenterminal

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Fantom's strong growth was driven by the expansion of its DeFi ecosystem, which directly fueled the rapid rise of its native token, FTM. According to CoinGecko, Fantom's most active period spanned from early 2021 to March 2022. During this time, the price of FTM reached an all-time high of \$3.29 on January 17, 2022, compared to \$0.017 on January 1, 2021, marking an extraordinary cumulative increase of 193 times. However, after reaching this peak, as Fantom's ecosystem entered a period of decline and adjustment, the price of FTM gradually fell. By the end of 2022, FTM was trading at approximately \$0.19, representing a decline of about 95 percent from its peak.

Figure 8: FTM Token Price Trend (2021–2022)



## 2.3 Qualities Behind Fantom's Success and Causes of Its Decline

Fantom's strong growth in 2021 was primarily driven by two factors: the booming DeFi sector and the star power of key developers. However, on the afternoon of March 6, 2022, Anton Nell, a senior architect at the Fantom Foundation, announced via Twitter that he and Andre Cronje (AC) had jointly decided to leave the DeFi and crypto space. They also planned to shut down about 25 applications and services by April 3, including yearn.fi, keep3r.network, chainlist.org, solidly.exchange, and bribe.crv.finance.

This announcement triggered widespread market panic. Tokens associated with AC crashed sharply, and confidence in the Fantom ecosystem was severely damaged. As a result, the price of FTM plummeted. By April 2022, Fantom experienced massive capital outflows. Its TVL, which

was about \$6 billion at the time of the announcement, quickly dropped below \$4 billion, and the price of FTM fell below \$1.

Subsequently, a major hack targeting multichain bridges inflicted further damage on Fantom, causing over \$126 million in ecosystem losses. Following these events, Fantom's development trajectory turned downward. By the end of January 2025, Fantom's TVL had dropped to less than \$50 million, representing a massive decline compared to its peak.

## **2.3.1 Qualities Behind Fantom's Success**

Based on the previous analysis of Fantom's ecosystem and data during its peak period, its explosive growth can be attributed to the following core factors:

### **2.3.1.1 Ethereum's Bottleneck and Competitive Opportunity**

Since the summer of 2020, the surge in DeFi activity caused significant congestion on the Ethereum network, leading to highly volatile gas fees. Users had to bear extremely high transaction costs, and developer enthusiasm was also dampened. This bottleneck created valuable market opportunities for efficient and low-cost public chains like Fantom. In the early stages, competition among public chains was limited, with Ethereum holding a dominant position. Founded in 2018, Fantom leveraged its first-mover advantage, offering 1-second transaction finality and gas fees of less than \$0.001, successfully attracting overflow demand from the Ethereum ecosystem.

### **2.3.1.2 DeFi Cycle and Infrastructure Dividends**

Fantom's growth trajectory closely aligned with the cyclic expansion of the DeFi market. In 2021, the DeFi ecosystem experienced explosive growth, with the total value locked (TVL) increasing from \$20 billion at the beginning of the year to a peak of \$178.861 billion on November 9. During this period, Fantom's TVL grew from \$600,000 to nearly \$8 billion, achieving a growth of over ten thousand times. However, starting from May 5, 2022, the DeFi TVL dropped sharply within a week, falling from \$142.723 billion to \$78.451 billion, representing a decline of nearly 50 percent.

To promote ecosystem development, the Fantom Foundation established the Fantom Fund and announced in August 2021 the injection of 370 million FTM tokens to incentivize on-chain projects. This move leveraged the DeFi boom to drive ecosystem growth. Additionally, Fantom capitalized on the rigid demand for cross-chain bridges during the public chain competition period, using AnySwap to import external liquidity and further consolidate its competitive position.

Figure 9: Total TVL of All DeFi Protocols from 2019 to 2025



Gate Research, Data from: DeFiLlama

Gate Research

### 2.3.1.3 Celebrity Endorsement and Capital Boost

Throughout Fantom's development, Andre Cronje's (AC) influence played a critical role. Each wave of ecosystem growth was closely tied to AC's initiatives. Key DeFi projects on Fantom, such as SpookySwap, Beefy Finance, Scream, and Solidly, were developed and expanded under AC's leadership. In the DeFi sector, AC is recognized as a highly influential figure. He founded iearn.finance (later rebranded as Yearn.Finance) and rose to fame during the liquidity mining boom. The successful launch of the YFI token established AC as a legendary figure in DeFi. His statements and actions became important indicators for investors and innovators alike.

AC frequently expressed public support for Fantom on social media, actively promoting the Fantom ecosystem, and his celebrity effect provided a strong boost to Fantom's rise.

In addition to celebrity endorsement, capital injection was another key catalyst for Fantom's explosive growth. At that time, the crypto market was characterized by retail investors often following the "back the big tree" investment logic, which held that projects supported by leading venture capital (VC) firms offered lower investment risk. By early 2022, Fantom had completed five strategic financing rounds, securing over \$100 million in investments from top VC firms, including Alameda Research and BlockTower Capital.

Furthermore, the Fantom Foundation's 370 million FTM liquidity mining incentive program directly contributed to Fantom's transaction volume surpassing Ethereum in September 2021, serving as a critical catalyst for its ecosystem explosion.

Fantom's growth was driven by multiple factors, including Ethereum's bottleneck, the DeFi cycle dividend, celebrity endorsements, and capital support. However, its overreliance on celebrity influence and unsustainable high-yield models, such as Geist Finance's 14,580 percent APY, ultimately planted the seeds for the subsequent collapse in TVL.

## **2.3.2 Causes of Decline**

### **2.3.2.1 Overreliance on Celebrity Endorsement**

Andre Cronje's (AC) reputation and technical innovation capabilities brought tremendous celebrity influence to Fantom. He publicly praised Fantom multiple times on Twitter, calling it “the most promising public chain,” and was deeply involved in the development and optimization of its ecosystem protocols. This close association allowed Fantom to rise quickly in the DeFi sector, attracting substantial capital and developer resources. However, when AC announced his exit from DeFi in March 2022, it dealt a severe blow to the Fantom ecosystem. TVL plunged from nearly \$8 billion to \$600 million by the end of June 2022, a drop of over 90 percent, exposing the ecosystem's heavy dependence on a single key figure. While AC's technical expertise and industry influence fueled Fantom's explosive growth, his departure also revealed the ecosystem's fragility.

### **2.3.2.2 Unsustainable High-Yield Models**

During the early development of DeFi, major protocols like Aave and dYdX focused on product innovation and user experience optimization, delivering genuinely decentralized and convenient financial services without issuing their own tokens. A technology-driven development model characterized this stage. However, with Compound's introduction of liquidity mining and the issuance of the COMP token, a new trend emerged. By offering high annual percentage rates (APRs) to liquidity providers, Compound quickly expanded its market share and reshaped the DeFi landscape.

High APYs typically come with higher risks and imply higher potential returns. Within the Fantom ecosystem, high-APY liquidity mining projects such as Geist Finance, SpookySwap, and Tomb.finance attracted a large influx of DeFi users seeking high returns, with peak APYs sometimes reaching up to 250,000 percent. Geist Finance (a fork of AAVE) created a powerful wealth effect in a short period, attracting 34 percent of Fantom's TVL at its peak by offering APYs as high as 14,580 percent. However, such models, which heavily relied on token inflation, were inherently fragile. As the price of FTM fell, Geist Finance's TVL rapidly shrank, ultimately leading to the collapse of its economic model.

### **2.3.2.3 Limited Capacity for New Ecosystem Growth**

Despite Fantom's strong performance data and relatively complete ecosystem, it was observed that the number of new projects on Fantom remained limited. Many projects were initiated and

driven primarily by Andre Cronje. This does not imply that existing projects did not contribute to Fantom's TVL, but rather that there was a lack of competitive dynamism among projects.

In addition, compared to other top-tier public chains, Fantom showed weaknesses in decentralization. In 2022, among mature public chains, Solana had about 1,000 validator nodes, Terra had around 100, while Fantom only had about 50. The relatively low number of validators potentially weakened Fantom's global presence, leaderlessness, and trustlessness, affecting its decentralization. This not only impacted Fantom's security and stability but also made it less attractive to DeFi protocols, thereby hindering further TVL growth.

The sustainable development of any ecosystem requires continuous infusion of fresh projects and innovations. Therefore, Fantom needed to further optimize its network architecture, increase the number of validator nodes, and attract more DeFi protocols to strengthen its competitiveness and long-term development potential.

In summary, Fantom quickly attracted developers and users during the DeFi boom thanks to market cycles, AC's celebrity influence, and capital support, becoming a dark horse in the public chain competition. However, overreliance on celebrity influence, unsustainable high-yield models, and a lack of innovation led to its ecosystem collapsing rapidly after AC's departure in 2022. The rise and fall of Fantom offer critical lessons for public chain development: while technical advantages and market opportunities are important, the long-term health of an ecosystem relies more on decentralized governance, sustainable economic models, and continuous innovation. Overreliance on a single figure or short-term incentive mechanisms can heighten ecosystem fragility, reducing resilience to market fluctuations and external shocks, ultimately undermining long-term competitiveness.

## **3. Current Status of the Sonic Ecosystem: Data and Core Strengths**

### **3.1 Introduction to the Sonic Project**

Sonic (S) is a high-performance, EVM-compatible Layer 1 blockchain platform evolved from the original Fantom (FTM). Designed for speed, scalability, and cross-chain interoperability, Sonic marks a significant upgrade over Fantom. In August 2024, Fantom announced its transition to Sonic. On December 18, 2024, Sonic Labs officially launched the Sonic mainnet. With its exceptional performance, Sonic has become one of the fastest blockchain solutions currently available.

**Core features of Sonic include:**

- **Extreme Performance:** Capable of processing over 400,000 transactions per second (TPS) with sub-second finality, making it suitable for high-load scenarios such as gaming, DeFi, and financial applications.
- **Interoperability:** Full EVM compatibility allows developers to seamlessly migrate dApps. Sonic also emphasizes seamless connectivity with other blockchains to support ecosystem expansion.
- **Developer Incentives:** Sonic Labs has launched a developer incentive program to attract innovative projects and enrich the ecosystem.

The Sonic upgrade for Fantom focuses on a comprehensive enhancement of the blockchain network's processing capacity and operational efficiency. The upgrade primarily includes: Upgrades to the Fantom Virtual Machine (FVM), Improvements to data storage solutions, Optimization of the Lachesis consensus mechanism, Restructuring of the token economic model (transitioning from FTM to S), Evolution , toward a hybrid Layer 1/Layer 2 network structure.

Figure 10: Key Differences Between Sonic and Fantom Opera Mainnet

| General                             | sonic<br>(Carmen Schema 3) | Opera<br>(1.1.2-rc.6) | Validators                                       | sonic<br>(Carmen Schema 3)                                                            | Opera<br>(1.1.2-rc.6)                                                                 |
|-------------------------------------|----------------------------|-----------------------|--------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Minimum Consensus Quorum            | 15                         | 14                    | Live Pruning Support                             |  |  |
| Validators' Stake Share             | Equal                      | Naturally distributed | Minimum Offline Pruning Downtime w/ Standby Node | None                                                                                  | 30 min                                                                                |
| Peak Gas per Day (Billion)          | 34,560                     | 283.96                | Full Offline Pruning Downtime                    | None                                                                                  | 3-8 hours                                                                             |
| Peak Gas per Second (Million)       | 405                        | 3.28                  | Validator Hardware Cost                          | Low                                                                                   | Higher                                                                                |
| Peak Transactions per Second        | 2,100                      | 21                    | Validator Operating Cost                         | Low                                                                                   | Higher                                                                                |
| Archive Node DB Size (GB/100M Tx)   | 180                        | 2,106                 | Validator Operating Risk                         | Low                                                                                   | Higher                                                                                |
| Archive Node DB at 518M Tx (GB)     | 1,000                      | 10,893                | Average Offline Pruning Period (Day)             | None                                                                                  | 166                                                                                   |
| Live Pruned DB Size at 518M Tx (GB) | 351                        | 1,904                 | DB Size Growth Rate (GB/Day)                     | 0.74                                                                                  | 17.78                                                                                 |
| Offline Pruned DB Size (GB)         | N/A                        | 1,904                 | Time to Full Sync                                | <= 2days                                                                              | <= 4 weeks                                                                            |

Gate Research, Data from: Sonic Labs (formerly Fantom Foundation)

 Gate Research

## 1. Fantom Virtual Machine (FVM) – More Efficient Smart Contract Execution

The Fantom Virtual Machine (FVM) is a core highlight of the Sonic upgrade, achieving a major performance leap while maintaining full compatibility with the Ethereum Virtual Machine (EVM). It not only enables seamless migration of existing EVM smart contracts but also significantly improves smart contract execution speed, reduces transaction latency, and enhances resource

utilization through optimized engine architecture. According to the latest official data, FVM can theoretically reach a peak throughput of 400,000 transactions per second (TPS).

Additionally, FVM offers advanced debugging tools that simplify development and testing processes. It expands support for multiple programming languages, incorporates built-in optimization strategies for precise contract execution control, enhances performance and security, and features automated security checks and sandbox environments to safeguard smart contract execution and network stability.

## **2. Carmen Data Storage Solution – Reducing Node Load**

Carmen is another key innovation introduced in the Fantom Sonic upgrade, aimed at overcoming traditional blockchain storage bottlenecks. By adopting an innovative data storage structure, Carmen significantly improves storage efficiency and dramatically reduces storage requirements. Specifically, validator node storage needs are reduced from 2,000GB to 300GB, and archive nodes from over 11TB to under 1TB.

Carmen also supports dynamic data management, allowing flexible adjustment of data storage and deletion policies according to network demands. In terms of data access and processing, Carmen introduces intelligent storage strategies based on data importance and access frequency, optimizing retrieval speed, particularly for high-frequency use cases such as DeFi. Furthermore, Carmen enables parallel data request processing, ensuring rapid response even under heavy network loads.

## **3. Lachesis Consensus Mechanism Optimization – Faster and More Secure**

Although the Sonic upgrade includes multiple innovations, optimization of the Lachesis consensus mechanism remains a fundamental improvement. Based on leaderless Byzantine Fault Tolerant (BFT) models and Directed Acyclic Graph (DAG) technology, Lachesis is designed to enhance concurrent processing and fault tolerance, improving network security and reliability. By reducing information redundancy and improving decision-making efficiency, Lachesis accelerates transaction finality, increases network throughput, and improves overall performance. These optimizations allow Sonic to process more transactions while maintaining high levels of security and low transaction latency.

## **4. Token Economic Model Upgrade (FTM to S)**

With the launch of the Sonic network, Fantom introduced a new native token, \$S, replacing the original \$FTM and establishing a revamped token economic system. The initial total supply of \$S is 3.175 billion, identical to that of \$FTM, and users can convert their tokens at a 1:1 ratio.

Six months after the mainnet launch, an additional 6 percent of tokens will be issued to incentivize developers and users participating in ecosystem growth. The new token model sets an annual issuance rate of 15 percent to support network expansion and operations, with any unused portions being burned to control inflation. The target annualized yield (APR) is set at 3.5 percent. The \$S token serves multiple functions, including payment of network transaction fees,

participation in validator staking (requiring a minimum of 50,000 tokens), supporting liquidity mining, incentivizing dApp development, rewarding community engagement, and acting as a critical asset within the consensus mechanism.

## **5. Hybrid Architecture and Cross-Chain Compatibility**

The Sonic network structure is no longer limited to a Layer 1 design. It incorporates features typical of Layer 2 scaling solutions. By providing secure Ethereum bridging capabilities, Sonic enables seamless asset transfers between its own network and Ethereum, effectively allowing it to function as an Ethereum Layer 2 expansion solution.

This hybrid architecture not only ensures faster and lower-cost transactions but also maintains strong compatibility with mainstream blockchains, significantly enhancing interoperability and scalability.

In summary, the launch of Sonic marks the beginning of a new development stage for Fantom. This upgrade significantly improves transaction processing speed and data management efficiency, while strengthening interoperability with leading blockchains like Ethereum. It establishes a strong foundation for the robust development of the Sonic ecosystem.

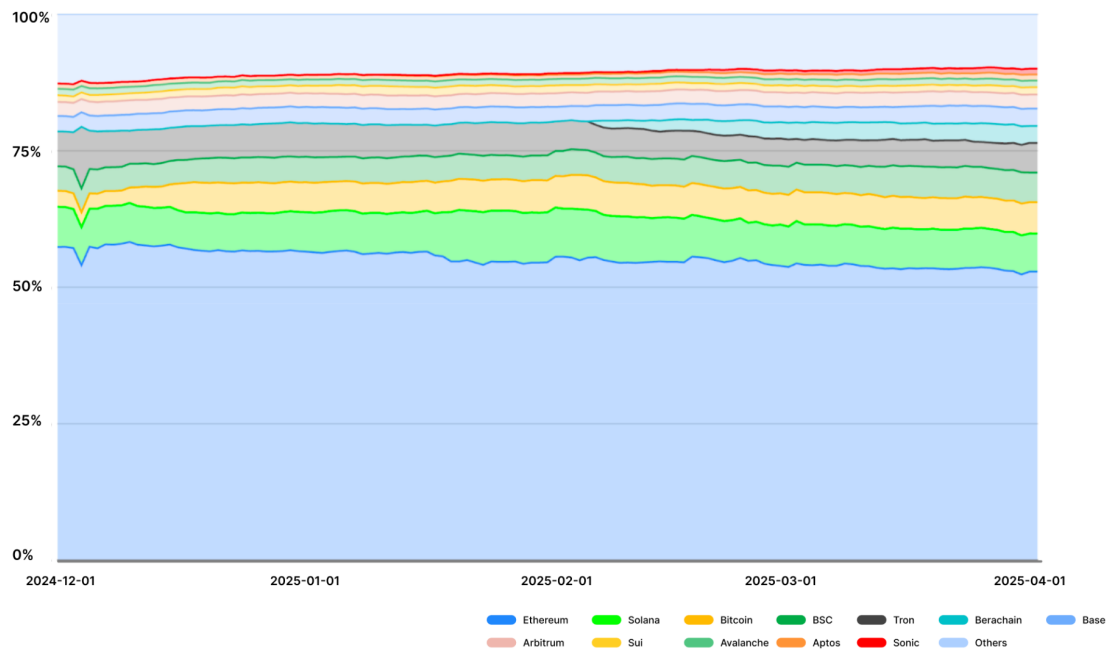
Next, we will delve into an in-depth analysis of Sonic's ecosystem data development and compare its progress against the peak performance of Fantom.

## **3.2 Core Data Analysis of the Sonic Ecosystem**

According to DefiLlama data, the top ten active public chains in 2025 include Ethereum, Solana, Bitcoin, Binance Smart Chain (BSC), Tron, Berachain, Base, Arbitrum, Sui, and Avalanche. Ethereum still dominates the market with a TVL market share of 53.53 percent. Although this represents a significant decline from its 95 percent share in 2021, it highlights the increasing diversification within the public chain ecosystem as other blockchains gradually capture Ethereum's former market share.

It is noteworthy that Sonic, despite being newly launched, quickly caught up. As of April 1, 2025, Sonic ranked 12th among public blockchains by TVL, capturing 1.07 percent of the market. Meanwhile, the combined TVL of the top ten public chains accounted for approximately 87.77 percent of the total market TVL. Although concentration has declined, it remains relatively high.

Figure 11: Public Chain TVL Market Share in 2025



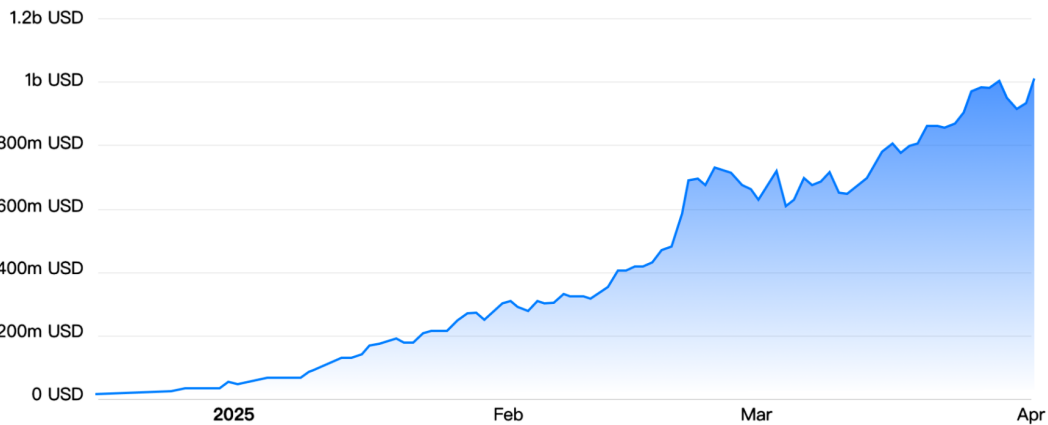
Gate Research, Data from: Defillama, as of April 1, 2025

Gate Research

Following the Sonic mainnet launch in mid-December 2024, it exhibited strong performance. Within three months, Sonic's total value locked (TVL) grew exponentially, soaring from \$25.41 million on January 1, 2025, to \$983 million by April 1, a growth of nearly 40 times. On April 2, Sonic's TVL successfully surpassed the \$1 billion mark.

This significant growth was largely driven by a series of incentives launched by Sonic Labs to stimulate the DeFi ecosystem. For instance, the Fee Monetization (FeeM) mechanism returns up to 90 percent of network gas fees based on actual usage, offering continuous on-chain revenue. Additionally, approximately \$200 million worth of airdrop rewards have been distributed to boost user participation and engagement.

Figure 12: Sonic TVL Growth Trend



Gate Research, Data from: Defillama

Gate Research

Through these incentive programs, Sonic effectively attracted a wide range of protocols to deploy, building a comprehensive DeFi ecosystem. This ecosystem includes lending platforms like Aave, Silo, and Euler, trading protocols such as SwapX and Ichi, yield aggregators like Shadow Exchange and Origin, as well as bond protocols like Solv.

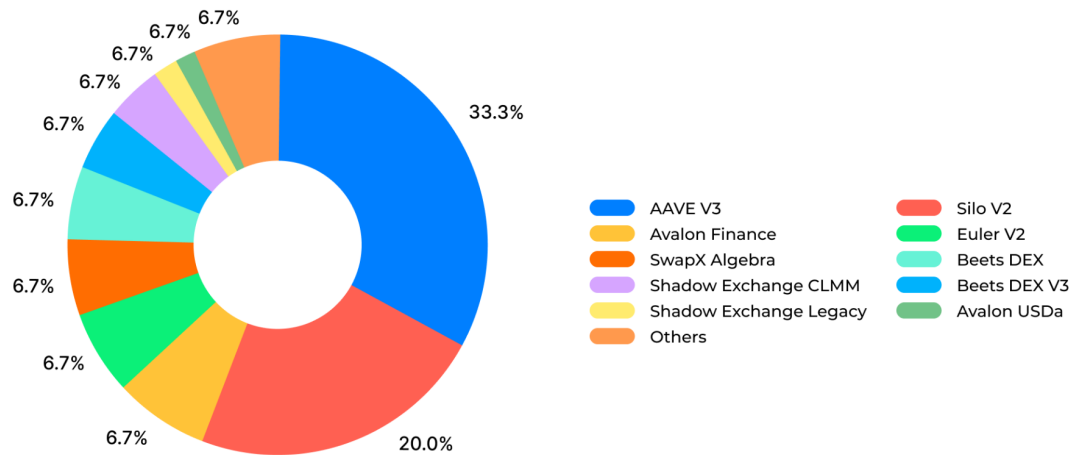
Among these, the lending protocol Aave has been particularly notable, contributing the highest TVL within the Sonic network. Aave's deployment on Sonic supports assets like \$USDC, \$WETH, and \$wS, and jointly launched an incentive plan offering \$15.8 million in rewards (\$800,000 and \$15 million respectively), pushing the market to reach its supply cap on the first day.

The native protocol Shadow Exchange, utilizing a (3,3) bonding model, also contributed significantly to TVL growth by offering high APY returns.

As of April 1, 2025, the leading protocols by TVL within the Sonic ecosystem were:

- AAVE V3 with \$341 million
- Silo with \$234 million
- Avalon Labs with \$71.92 million
- SwapX (DEX) with \$60.04 million
- Euler V2 (lending) with \$64.98 million
- Shadow Exchange with \$48.89 million

Figure 13: Sonic Ecosystem TVL Distribution as of April 1, 2025



Gate Research, Data from: Defillama

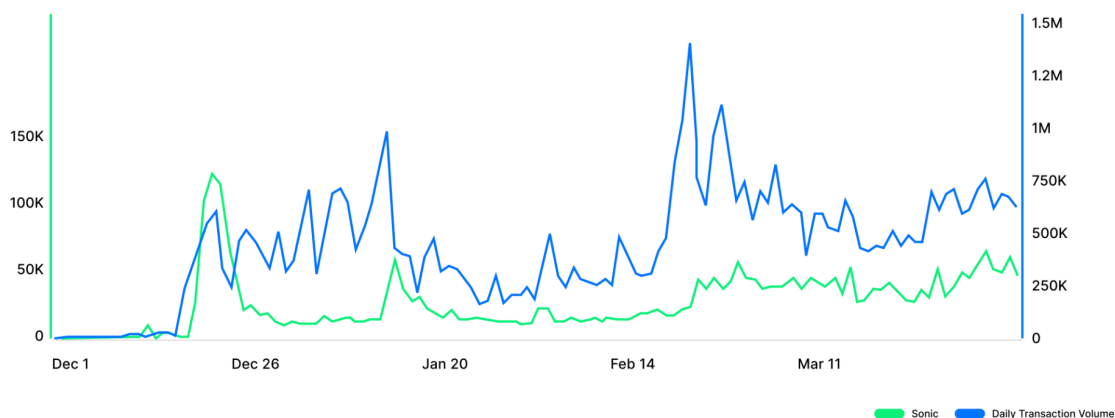
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With more protocols integrating into Sonic, on-chain transaction activity has continued to grow. As of April 1, 2025, Sonic had processed over 48 million cumulative transactions. The highest weekly transaction volume occurred during the week of February 17, reaching approximately 5.5 million transactions. Over the past month, daily transaction volumes have stabilized at around 500,000 transactions, with the single-day peak on February 21, reaching 1.4 million transactions.

Notably, the native DEX Shadow Exchange accounts for about 30 percent of the network's transaction activity. Holders of xSHADOW can earn rewards through active participation and voting, with liquidity pool annual yields (APR) reaching as high as 114,730 percent, which has attracted significant user participation.

Moreover, the number of unique addresses (referring to addresses interacting with smart contracts) has shown substantial growth. In the first month after launch, Sonic attracted nearly 600,000 unique addresses. Recently, the number of active unique addresses has remained around 450,000, with monthly active addresses at approximately 270,000.

Figure 14: Daily Transaction Volume and Unique Addresses on Sonic



Gate Research, Data from: tokenterminal & Artemis

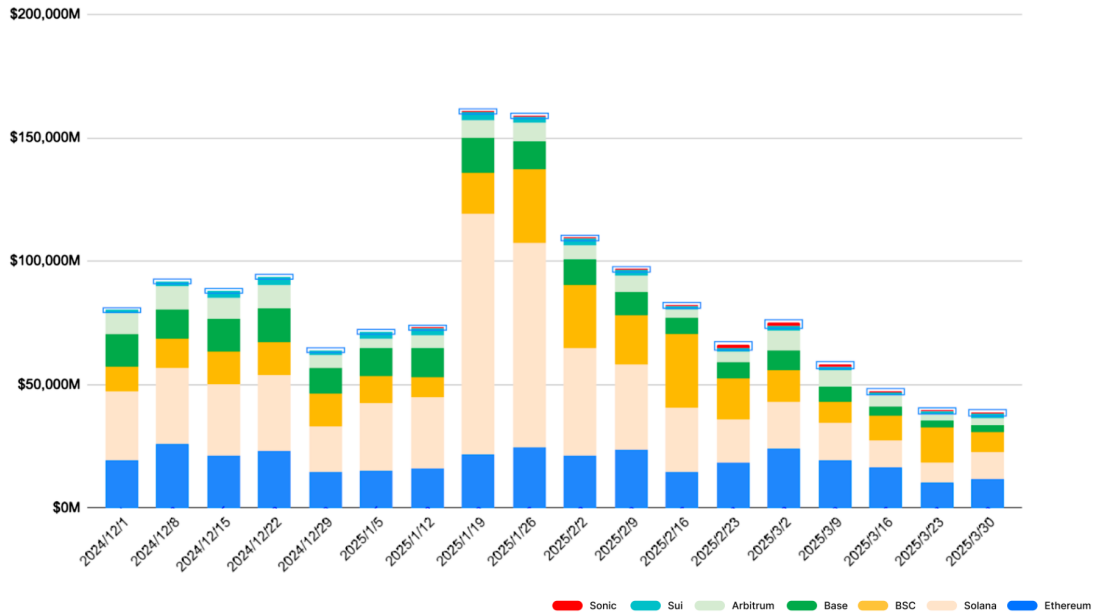
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Meanwhile, DEX trading volume on Sonic has remained at a consistently high level. According to data as of April 1, 2025, Sonic's DEX trading volume reached \$853 million during the week of March 30, ranking seventh among public blockchains. The top six blockchains by DEX trading volume were Ethereum, Solana, BSC, Base, Arbitrum, and Sui. These six chains combined accounted for \$40.69 billion in trading volume that week, representing approximately 84.08 percent of the total.

From a cumulative perspective, Sonic has facilitated over \$8 billion in total DEX trading volume since its launch, with monthly trading volumes exceeding the \$3 billion threshold. This performance establishes Sonic as an emerging force within the EVM ecosystem.

As of April 1, 2025, the native DEX Shadow Exchange holds a dominant position with a 57.56 percent market share and cumulative trading volume exceeding \$3.1 billion. SwapX follows with an 18.1 percent share and a cumulative volume of \$1.666 billion. Other active DEX projects include WAGMI (6.67 percent), XPress Protocol (3.51 percent), and Metropolis Exchange (2.46 percent).

Figure 15: Weekly DEX Trading Volumes Across Public Chains in 2025



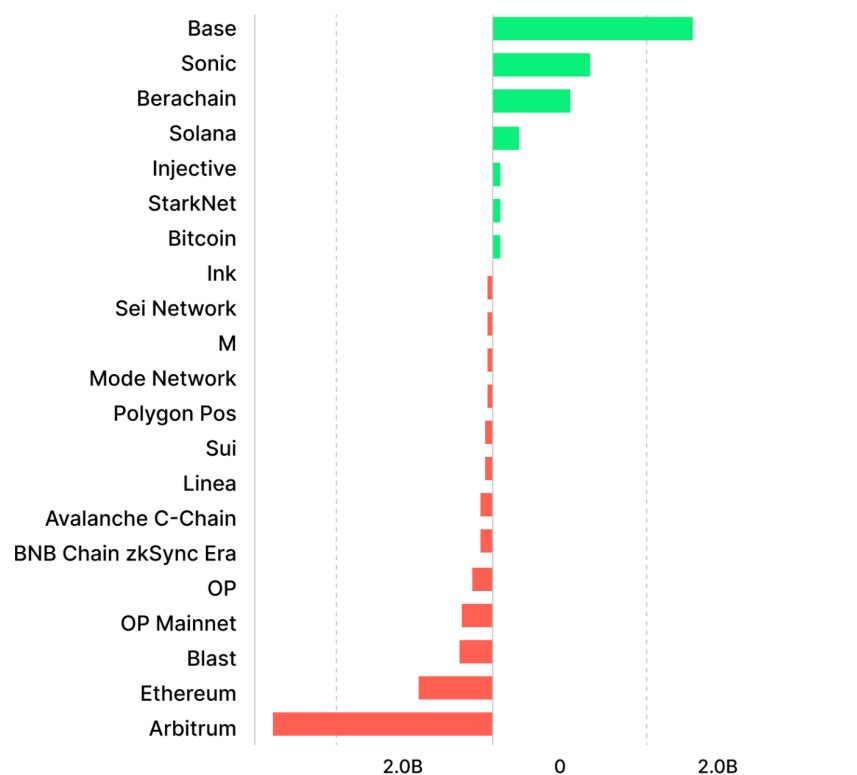
Gate Research, Data from: Defillama

Gate Research

Sonic's rapid ecosystem expansion has continued to attract large-scale capital inflows. As of April 7, 2025, over the past three months, Sonic recorded a total inflow of \$2.6 billion, with net inflows reaching \$1.3 billion. This places Sonic second among all public chains in terms of capital inflows, surpassing Solana, as well as rising stars such as Berachain and Sui, and ranking just behind Base.

In terms of overall inflows, Ethereum remains dominant with 94.3 percent market share and \$2.5 billion in inflows, followed by Solana and Base, which brought in \$63.3 million and \$38.8 million respectively. As an EVM-compatible public chain, Sonic has successfully attracted capital from the Ethereum ecosystem, driven by its strong developer incentives and robust infrastructure.

Figure 16: Public Chain Net Capital Inflows Over the Past Three Months (as of April 7, 2025)



Gate Research, Data from: Artemis

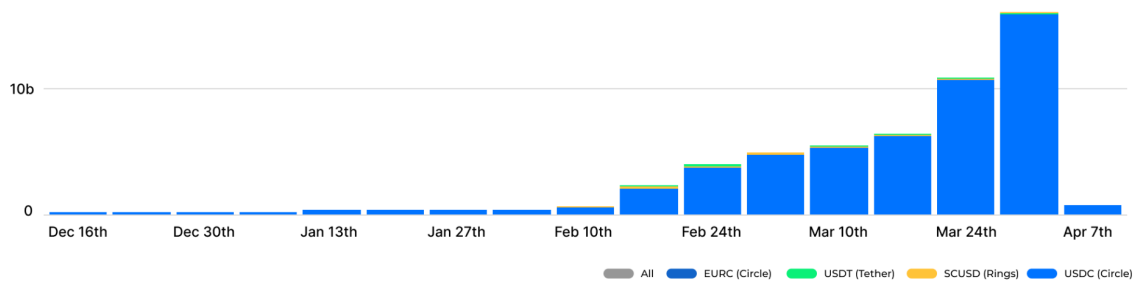
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Sonic's rapid development was not only fueled by the previously mentioned Fee Monetization (FeeM) mechanism, fee subsidies, and airdrop campaigns but also by its successful establishment of stablecoin liquidity, which is crucial for any DeFi-focused public chain.

According to DefiLlama, by April 1, 2025, Sonic's stablecoin market had expanded significantly, reaching a total value of nearly \$500 million. Weekly stablecoin volumes showed significant growth, increasing from \$159 million during the week of January 6 to \$16.5 billion during the week of March 31, representing a more than 100-fold increase.

This market is primarily composed of USDC.e, scUSD, USDT.e, and EURC.e. As of the week of March 31, USDC.e dominated with 99 percent market share, followed by scUSD (0.81 percent) and USDT.e (0.09 percent). USDC.e and USDT.e are bridged through Sonic's secure bridge, Sonic Gateway, while scUSD is a native stablecoin created by the cross-chain yield protocol Rings Protocol.

Figure 17: Weekly Stablecoin Volumes on Sonic



Gate Research, Data from: DUNE, @obchakevich\_research

Gate Research

In addition, for liquidity building, Sonic has innovatively adopted a "Triangular Offensive" strategy. Through the synergistic integration of three protocols—Bitcoin restaking platform Lombard Finance, liquid staking platform Ether.fi, and stablecoin protocol Rings Protocol—a highly efficient liquidity guidance mechanism was built. Here's how it works:

- Users first obtain LBTC, the liquid staking version of Bitcoin, through Lombard Finance.
- Ether.fi then converts LBTC into eBTC, which has restaking capabilities.
- Rings Protocol finally mints yield-bearing "sc" series assets such as scBTC and scUSD using eBTC and other assets as collateral.

This structure not only opens up liquidity pathways for BTC and similar assets but also significantly improves capital efficiency through multiple reward mechanisms, including staking rewards, restaking yields, and protocol incentives. Currently, users holding or using these derivative assets can earn weekly returns, promoting a virtuous cycle of on-chain liquidity.

## 3.3 Sonic Tokenomics

Naturally, the development of the ecosystem and the market performance of its token are closely intertwined. Through comprehensive breakthroughs in its technical architecture, tokenomics, incentive mechanisms, and ecosystem expansion strategy, Sonic has become one of the few focal points of capital attention amid the broader downturn in the crypto market.

Sonic (S) retains the original total supply of Fantom (FTM) but redesigns its token distribution and circulation mechanisms. Its overall issuance structure revolves around three core pillars: airdrop incentives, ecosystem funding, and block rewards, while introducing multiple burn mechanisms to control the total supply cap.

### 3.3.1 Token Supply and Distribution Mechanism

**Initial Supply and Circulation:**

Sonic's initial total supply stands at 3.175 billion S tokens, with approximately 2.88 billion tokens in circulation. Holders of FTM can upgrade their tokens to S on a 1:1 basis. Before 2031, the total supply expansion of S is capped at 15 percent (excluding block rewards), and several burn mechanisms will be employed to effectively suppress inflation.

**Airdrop Incentive Mechanism:**

Six months after the mainnet launch (estimated to be June 18, 2025), Sonic will mint 6 percent of the initial supply (around 190.5 million S tokens) for airdrop incentives targeting users and developers. This airdrop pool will be subject to a nine-month linear burn mechanism, aiming to simultaneously encourage engagement while controlling circulating supply.

**Ecosystem Funding and Growth Mechanism:**

Starting six months after token issuance, Sonic plans to mint 1.5 percent of the initial supply annually (around 47.625 million tokens) for a six-year period to fund ecosystem projects and network development. Any unused tokens will be burned to maintain funding efficiency and suppress inflation.

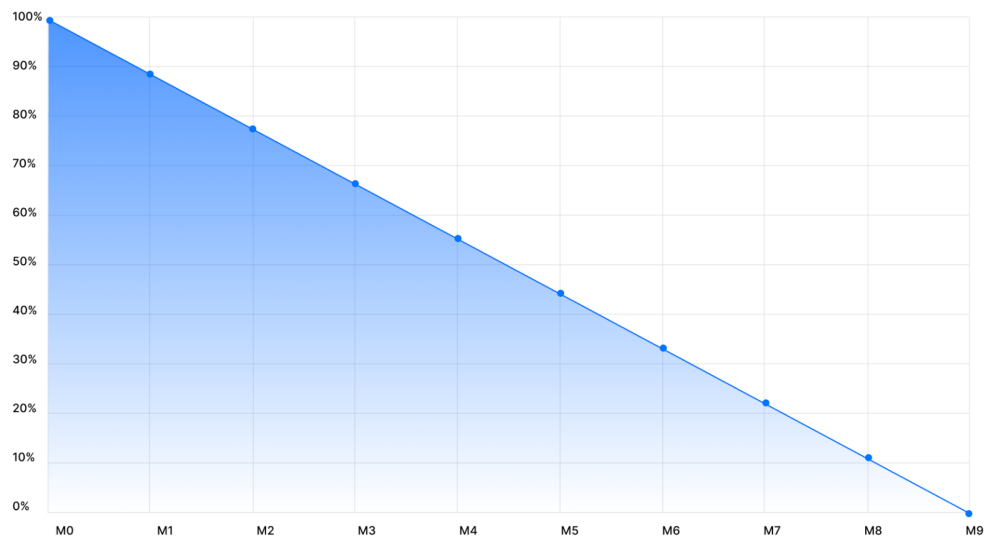
**Validator Incentive Mechanism:**

Four years after token issuance, an additional 1.75 percent of tokens will be minted annually to reward network validators, ensuring network security and stability.

A noteworthy feature is that the entire incentive model is based on a linear decay mechanism embedded with token burn processes. Specifically:

Airdrop recipients will immediately receive 25 percent of their S tokens upon claiming. The remaining 75 percent will be locked as interchangeable NFTs under the ERC-1155 standard and linearly unlocked over nine months. If users choose to withdraw the locked portion early, a proportional amount will be burned depending on the time remaining until full vesting. The earlier the withdrawal, the higher the burn rate.

Figure 18: Burn Loss for Early Claim of Vested Tokens Over Nine Months



Gate Research, Data from: Sonic labs

Gate Research

This dual airdrop and burn mechanism is designed to both incentivize active users and effectively compress token supply, creating potential price support through supply and demand dynamics.

### 3.3.2 Token Performance

Following Fantom's rebranding announcement to Sonic, original FTM holders were able to convert their tokens to \$S on a 1:1 basis. According to Gate.io data, the Sonic mainnet officially launched on December 18, 2024. On the first day of trading, the closing price for \$S was \$1.1131, followed by a slight pullback. As of April 1, 2025, the closing price of \$S stood at \$0.5059, still higher than its yearly low.

Notably, after hitting a bottom of \$0.3156 in early February, the \$S token staged a strong rebound, reaching a local high of \$0.99 on February 21. This represents a monthly gain of over 2x, making \$S one of the best-performing assets among Layer 1 chains during that period.

Meanwhile, several DeFi projects and meme tokens within the Sonic ecosystem also experienced explosive growth. For example, the token for Shadow Exchange surged more than 25 times since its launch in late January. Other tokens such as \$SHADOW, \$METRO, \$THC, \$GOGLZ, and \$INDI also recorded multiple-fold increases. This wave of growth in the ecosystem to some extent validates the market's strong expectations and enthusiasm for Sonic.

Figure 19: Price Trend of Sonic Token \$\$



Gate Research, Data from: Gate.io

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Although Sonic's TVL has shown stable growth with more assets locked into its on-chain protocols, ecosystem stickiness and asset retention continue to strengthen. However, the price volatility of its token remains relatively high in the short term, being influenced more by market sentiment, macroeconomic conditions, and ecosystem hotspots.

It is noteworthy that the growth in TVL has not synchronized with a continuous rise in token prices. This discrepancy could suggest several points:

- The market valuation of Sonic may be lagging behind its actual ecosystem growth.
- The TVL increase may be primarily driven by new capital inflows or the retention of existing assets rather than direct demand for the token itself.
- Secondary market price performance remains heavily influenced by overall market trends and liquidity levels.

Thus, analyzing Sonic's long-term potential requires a dynamic approach that combines TVL growth momentum with token price performance, while closely monitoring trends in user growth, protocol activity, and capital inflows.

Figure 20: Price Volatility of \$\$ vs TVL Growth



Gate Research, Data from: Defillama

Gate Research

### 3.4 Summary: Core Drivers and Challenges Behind Sonic's Rapid Rise

In summary, Sonic's rapid development in a short period can be attributed to several core factors:

- 1. Comprehensive Technical Upgrades**  
 Including the high-performance Fantom Virtual Machine (FVM), the efficient Carmen data storage solution, the optimized Lachesis consensus mechanism, and a hybrid Layer 1/Layer 2 architecture, giving Sonic significant advantages in transaction speed, scalability, and interoperability.
- 2. Attractive Incentive Mechanisms**  
 The Fee Monetization (FeeM) model, which returns a large portion of gas fees to developers, and a \$200 million airdrop plan, successfully attracted users and protocols to join the ecosystem.
- 3. Proactive DeFi Ecosystem Construction**  
 Through funding incentives, Sonic successfully attracted top-tier DeFi protocols such as Aave, Silo, and SwapX, while creatively adopting a "Triangular Offensive" strategy (Lombard Finance + Ether.fi + Rings Protocol). This system, built around BTC restaking derivatives, guided liquidity through multiple yield mechanisms.
- 4. Strong Market Optimism**  
 The appreciation of the Sonic token and the explosive performance of DeFi and meme

tokens within its ecosystem reflected strong market confidence and high participation expectations for Sonic's development prospects.

However, alongside its rapid rise, Sonic also faces notable challenges:

- **Intense Market Competition**  
With many high-performance public chains like Layer2 solutions, Solana, Aptos, and Sui, high TPS alone is no longer a unique competitive edge.
- **Lack of “Flagship Applications”**  
Without the emergence of one or two leading "killer apps," Sonic may struggle to differentiate itself in a crowded market.

That said, Sonic does have certain advantages, such as backing from leading projects like Aave and Uniswap and inheriting existing staking protocol infrastructure from Fantom. Going forward, Sonic's ability to sustain growth in a competitive landscape will depend critically on whether it can successfully incubate innovative and attractive applications and further expand its ecosystem influence.

## 4. Probability Assessment: Can Sonic Recreate Fantom's Peak?

### 4.1 Comparative Analysis: Core Differences Between Sonic and Fantom

To evaluate whether Sonic has the potential to recreate Fantom's past success, we summarize the key indicator analyses of both projects and compare them directly, thereby quantifying their relative gaps and advantages.

#### 1. Performance Metrics Comparison

Figure 21: Performance Metrics – Fantom vs Sonic

| Dimension     | Fantom<br>(Peak Period 2021–2022)   | Sonic<br>(Current Status in 2025) | Gap/Advantage                                    |
|---------------|-------------------------------------|-----------------------------------|--------------------------------------------------|
| TPS           | Hundreds<br>(theoretical thousands) | 400,000+ (measured 2,000+)        | Advantage: 50–200x performance improvement       |
| Finality Time | 1–2 seconds                         | <1 second                         | Sonic's multithreading is faster                 |
| Gas Cost      | Extremely low                       | Extremely low                     | Both far lower than mainstream EVMs              |
| L2 Capacity   | No clear design                     | Built-in Rollup                   | Sonic leans towards "L1 foundation + L2 scaling" |

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## 2. Ecosystem Metrics Comparison

Figure 22: Ecosystem Metrics – Fantom vs Sonic

| Dimension                      | Fantom<br>(Peak Period 2021–2022)                                   | Sonic (Current Status as<br>of April 1, 2025)                                                                           | Gap/Advantage                                                                              |
|--------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| TVL Peak                       | \$7.932 billion                                                     | \$983 million (after 3 months online)                                                                                   | Gap: TVL is only 12.39% of Fantom's peak; capital attraction needs improvement             |
| TVL Market Share               | 5.52%, ranked 5th; Top 10 chains account for 91.08%                 | 1.07%, ranked 12th; Top 10 chains account for 87.77%                                                                    | Gap: Needs to catch up by 4.45% in market share; ranking lower by 7 positions              |
| Weekly Transaction Peak        | 10.69 million                                                       | 5.5 million                                                                                                             | Gap: Transaction activity is about half                                                    |
| DEX Weekly Trading Volume Peak | \$5.045 billion                                                     | \$853 million                                                                                                           | Gap: DEX trading volume is only 16.9% of Fantom's peak; trading activity needs improvement |
| DEX Market Landscape           | Ranked 3rd; Top 6 chains account for 88%                            | Ranked 7th; Top 6 chains account for 84.08%                                                                             | Gap: Ranking lower by 4 positions                                                          |
| Monthly Active Addresses       | Close to 450,000                                                    | 270,000                                                                                                                 | Gap: Active addresses are about half                                                       |
| Token Cumulative Gain          | 190x (\$FTM)                                                        | 2x (\$S, at local peak)                                                                                                 | Gap: Insufficient wealth effect                                                            |
| Ecosystem Protocols            | Multiple native protocols, with top protocols heavily reliant on AC | Leading protocols such as Aave and Silo originated from other chains; few native protocols                              | Ecosystem self-sufficiency needs strengthening                                             |
| Capital Attraction Strategy    | Liquidity mining, attracting users with high APYs                   | Fee monetization, fee subsidies, airdrops, high APYs; multi-reward mechanisms to facilitate cross-chain asset liquidity | Advantage: More comprehensive capital pathways                                             |

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Through the detailed comparison of performance and ecosystem parameters, it is evident that Sonic holds significant technological advantages, particularly in TPS, finality time, and Layer 2 integration capabilities, representing a generational leap.

However, in terms of ecosystem metrics — such as TVL, active user count, DEX activity, and wealth effect — Sonic currently stands at only about 10 percent to 50 percent of Fantom's peak levels. This highlights the need for time and effort to enhance user stickiness and overall attractiveness.

Importantly, Sonic's diversified capital pathways and incentive mechanisms provide strong "ecosystem self-sustaining" potential, laying a foundation for future catch-up.

## **4.2 Probability Assessment: Key Variables and Model Analysis**

### **4.2.1 Key Variable Analysis and Weight Allocation**

To systematically assess the critical factors influencing Sonic's success, the Analytic Hierarchy Process (AHP) method is used to assign weights to core variables.

#### **1. Logic Behind Variable Selection**

The selection of variables is based on industry consensus regarding key success factors for public blockchains, as well as the specific characteristics observed in the Fantom and Sonic cases. It covers Technology, Economics, Market Environment, Ecosystem Development four core dimensions:

##### **Technical Performance (25%, Technology):**

The underlying technical capabilities of a public chain (e.g., TPS, consensus mechanism, cross-chain capabilities, gas fees) form the fundamental infrastructure for ecosystem development. Fantom's rise was partly due to Ethereum's high gas fees and performance bottlenecks at the time. Sonic, upgraded with the FVM, theoretically offers higher TPS and lower gas costs, while the Carmen data storage solution significantly reduces node resource requirements. However, Sonic now faces fierce competition from Layer2 solutions and other high-performance L1s, and whether its technical edge can translate into ecosystem growth remains to be seen.

##### **Ecosystem Incentive Strength (20%, Ecosystem):**

Short-term TVL growth heavily depends on incentive mechanisms. Fantom once surpassed Ethereum in transaction volume through a \$370 million FTM liquidity mining incentive. Sonic follows a similar path with a \$200 million airdrop, the FeeM model, and on-chain transaction subsidies. The key question is whether these incentives are sustainable and whether they can lead to long-term retention of active protocols and users.

##### **Market Environment (15%, Market):**

A bull market cycle is a major catalyst for ecosystem booms. Fantom's peak coincided with the

2021–2022 DeFi bull run. In contrast, the current market is at the tail end of a bear market, lacking a clear DeFi boom cycle, with overall risk appetite still relatively low.

**Celebrity Effect (15%, Market):**

Andre Cronje (AC) had a significant impact on Fantom's growth, with approximately 60% of its TVL increase linked to his influence (data: DefiLlama). Sonic currently lacks a similarly charismatic figure. Although AC has announced his return, his influence has diminished following previous controversies and project exits.

**Capital Liquidity (10%, Ecosystem):**

At launch, Sonic's stablecoin market (dominated by USDC.e) expanded rapidly, providing a strong liquidity foundation for DeFi applications. This is similar to Fantom's earlier strategy of introducing stablecoins through cross-chain protocols like AnySwap.

**Wealth Effect (10%, Economy):**

A strong wealth effect is crucial for attracting new users and capital, providing early investment returns to fuel ecosystem expansion. Fantom's token surged by 190x at its peak; Sonic, while only achieving a 2x increase so far, remains attractive considering the bear market context, showing latent momentum.

**Community Engagement (5%, Ecosystem):**

Community is the foundation of long-term ecosystem development. Fantom had a highly active community centered around AC, fostering self-promotion and project incubation. In comparison, Sonic's current community engagement relies more on airdrop incentives, with organic user stickiness and contribution capacity still needing improvement.

## **2. Weight Allocation Basis**

The weight settings are determined through a combination of Delphi method (expert surveys) and regression analysis of historical case studies:

- **Technical Performance (25%):** According to Messari's public chain research, technical architecture contributes approximately 30%–40% to ecosystem success. Given Sonic's relatively mature technical system, the weight is moderately reduced to 25% to reflect diminishing marginal effects.
- **Market Environment (15%):** Based on Top 20 public chain development data from 2017–2024, bull markets contributed a 12%–18% marginal effect on TVL growth. A mid-range value of 15% is selected.
- **Celebrity Effect (15%):** Given that AC's departure caused a TVL collapse of over 90% for Fantom, this variable's importance is quantitatively set at 15%.
- **Other Variables:** Weights for capital liquidity, wealth effect, and community engagement were determined using the entropy weighting method, then adjusted and finalized based on expert scoring.

### 3. AHP-Based Scoring

Based on the above variables and weights, Fantom and Sonic's performance are scored on a scale of 1–10.

Figure 23: AHP Scores – Fantom vs Sonic

| Variable                     | Weight | Fantom Score | Sonic Score | Explanation                                                                                                                               |
|------------------------------|--------|--------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Technical Performance        | 25%    | 7            | 9           | Fantom has high TPS, but still lags slightly behind other high-performance chains. Sonic's upgraded architecture offers a technical edge. |
| Ecosystem Incentive Strength | 20%    | 8            | 9           | Sonic's incentive model is relatively more sustainable.                                                                                   |
| Market Environment           | 15%    | 10           | 6           | Fantom significantly benefited from DeFi cycle tailwinds.                                                                                 |
| Celebrity Influence          | 15%    | 10           | 3           | Fantom received a boost from Andre Cronje. Sonic lacks a core KOL; although Cronje has returned, his influence has waned.                 |
| Capital Liquidity            | 10%    | 8            | 4           | Fantom ranks 5th in TVL, while Sonic's TVL is only 12.39% of Fantom's.                                                                    |
| Token Performance            | 10%    | 9            | 4           | Fantom achieved a 190x token gain. Sonic, despite the bear market, still managed a 2x increase, which remains attractive.                 |
| Community Engagement         | 5%     | 8            | 6           | Fantom has stronger community cohesion.                                                                                                   |
| Overall Score                | 100%   | 8.45         | 6.5         | Sonic slightly lags behind, but its technical strengths or innovative mechanisms may allow it to catch up.                                |

#### 4.2.2 Success Probability Model Calculation

Using a logistic regression model, we predict Sonic's probability of success based on historical public chain case studies. Variables include technology, incentives, market cycle, and overall competitiveness.

##### Variable Definitions:

- Technical Advantage ( $X_1$ ): 9 (based on AHP score)
- Incentive Strength ( $X_2$ ): 9 (based on AHP score)
- Market Environment ( $X_3$ ): 0.6 (quantified by CoinMarketCap market sentiment index; 0.95 in 2021, 0.6 in 2025 reflecting bear market conditions)
- Overall Competitiveness ( $X_4$ ): 0.65 (standardized from Sonic's AHP composite score: 6.5/10)

## Model Formula:

Model Parameters (based on regression analysis of 2018–2024 top 12 public chains):

- $\beta_0 = -2.5$  (baseline adjustment, reflecting that public chains have an inherent >90% failure probability without major advantages)
- $\beta_1 = 0.3$  (technical performance has the highest marginal effect; each point increase raises success probability by approximately 7%)
- $\beta_2 = 0.25$  (incentives are critical but can risk liquidity bubbles and inflation)
- $\beta_3 = 0.2$  (market cycle has moderate influence; top chains can grow even during bear markets, e.g., Solana in 2023)
- $\beta_4 = 0.15$  (overall competitiveness as a compound indicator has a weaker direct impact)

## Model Result:

Using Sonic's current variable inputs ( $X_1 = 9$ ,  $X_2 = 9$ ,  $X_3 = 0.6$ ,  $X_4 = 0.65$ ), calculated probability of success:  $P = 68.2\%$ .

## 4.3 Assessment Conclusion

A comprehensive evaluation shows that Sonic currently has a 68.2% probability of replicating Fantom's peak performance. Although the overall market environment is less favorable than during the 2021 bull run, Sonic has offset the disadvantages of the current cycle through significant technological advancements and a more sustainable incentive model.

To achieve a breakthrough, Sonic must, in the short term (within 1 year), incubate 1–2 killer applications (such as Shadow Exchange) with a TVL exceeding \$500 million, and ensure that quarterly net capital inflows on-chain remain above \$2 billion to build market confidence and strengthen on-chain stickiness.

In the medium to long term (3 years), Sonic needs to leverage its hybrid architecture and modular features to successfully establish itself as a core Layer 2 on Ethereum, aiming to capture over 10% of the market share within the EVM ecosystem.

However, potential risks should not be overlooked. If the token's annual inflation rate exceeds 15%, it could trigger liquidity panic and massive sell-offs. Furthermore, failure to attract more leading protocols by Q3 2025 would significantly weaken the platform's capital absorption capacity, and the probability of success could fall below 50%.

Through 10,000 Monte Carlo simulations, the distribution of Sonic's success probability under different scenarios is as follows:

- In the best-case scenario (capital inflow doubles and the bull market returns), the probability rises to 82%;

- Under the neutral scenario (current growth rate maintained), it stabilizes between 65%-70%;
- In the pessimistic scenario (capital outflows and core protocols leaving), it drops to 35%.

Therefore, Sonic's future trajectory remains highly dependent on the pace of ecosystem development and the sustainability of capital momentum.

*Note: Monte Carlo simulation is a numerical computation method based on probability and statistics. It relies on random sampling (e.g., input variables following a specific probability distribution) to simulate uncertainties in complex systems and, through tens of thousands of repeated calculations, derives the distribution patterns of output results. In this article, the Monte Carlo simulation is applied using a previously constructed Logistic model, with Python used to generate variables and calculate probabilities for different scenarios.*

Figure 24: Logic for Calculating Sonic's Success Probability Across Scenarios (Python Example)

```
# Define scenario thresholds
conditions = [
    (X4 > 0.7) & (X3 > 0.8), # Optimistic scenario: High capital inflow + bull market
    (X4 < 0.3) | (X3 < 0.4), # Pessimistic scenario: Insufficient capital or bear market
    True                     # Neutral scenario (default)
]

choices = ["optimistic", "pessimistic", "neutral"]
scenarios = np.select(conditions, choices)

# Calculate statistics by scenario
for scenario in ["optimistic", "neutral", "pessimistic"]:
    mask = scenarios == scenario
    print(f"{scenario} scenario probability: {P[mask].mean():.1%} (±{P[mask].std():.2f})")
```

The conclusion indicates that Sonic has a relatively high probability (approximately 68.2%) of replicating Fantom's peak TVL and market position. However, whether it can truly achieve this goal hinges on whether it can effectively convert its technological advantages into ecological barriers, and avoid repeating Fantom's mistake of over-relying on single figures such as AC.

In the future, close attention must be paid to the growth rate of leading ecosystem protocols and the actual enforcement of the token deflation mechanism, as these factors will also critically impact Sonic's probability of success.

## 5. Conclusion

The rise and fall of Fantom demonstrate that public chain projects often experience dramatic shifts across bull and bear market cycles. Their evolution is not only influenced by market sentiment but also reflects the key driving forces under the competitive dynamics of the blockchain landscape.

Sonic, through technological innovation and ecosystem reboot, has broken the traditional model. Leveraging sub-second transaction speeds, EVM-compatible architecture, and the return of Andre Cronje (AC), Sonic has emerged as a rare counter-cyclical breakout project during a broader market downturn, initially displaying strong growth potential.

Unlike Fantom, which relied heavily on DeFi high yields and flagship projects to drive short-term explosive growth, Sonic faces the challenge of building a sustainable dual-engine growth model powered by performance and ecosystem development.

In-depth analysis of Sonic's current ecosystem status and a multidimensional comparison with Fantom's 2021–2022 peak indicate that Sonic currently has an approximately 68.2 percent probability of replicating Fantom's former success in terms of TVL and market positioning.

However, to truly replicate the full scale of Fantom's peak ecosystem, Sonic must achieve breakthroughs in the following critical areas beyond maintaining its current technical edge:

- Ecosystem Self-Sufficiency: Incubate two to three native flagship protocols within 6–12 months to drive organic growth momentum.
- Economic Model Transformation: Shift from subsidy-driven growth to genuine revenue-driven growth, fostering a virtuous cycle between APR returns and TVL accumulation.
- Differentiated Positioning: Fully leverage its hybrid architecture to establish itself as a high-performance settlement layer for Ethereum, or deeply explore vertical niches such as BTC/ETH derivatives.
- Security and Compliance Assurance: Obtain certifications from reputable auditing institutions and effectively address potential regulatory risks related to stablecoins.

If Sonic can successfully navigate market cycles and complete its ecosystem transition, it stands a strong chance of joining the Top 5 public chains in the future.

Conversely, missteps in strategic direction or ecosystem building could lead Sonic to repeat Fantom's trajectory of “fast rise, slow decline.”

## 6. References

1. <https://medium.com/coinmonks/fantom-the-rise-and-fall-then-rise-again-88952f135199>
2. [https://docs.google.com/document/d/1XbD7d7XqFLuHVPdec1OJUxKpiU32v7jsq\\_kkGH\\_Rdnc0/edit?tab=t.0](https://docs.google.com/document/d/1XbD7d7XqFLuHVPdec1OJUxKpiU32v7jsq_kkGH_Rdnc0/edit?tab=t.0)
3. <https://defillama.com/chains>
4. <https://defillama.com/chain/Fantom?tv=true&volume=false&chainTokenPrice=false&appRevenue=false>
5. <https://www.nansen.ai/research/fantom-solving-the-blockchain-trilemma>
6. <https://coin98.net/fantom-2021-year-in-review>
7. <https://blog.fantom.foundation/fantom-2021-recap/>
8. <https://www.odaily.news/post/5176162>
9. <https://tokenterminal.com/explorer/projects/fantom/ecosystem/active-addresses-monthly>
10. <https://www.coingecko.com/en/coins/fantom>
11. <https://blog.fantom.foundation/fantom-foundation-launches-testnet-for-fantom-sonic/>
12. <https://defillama.com/chain/Sonic>
13. <https://tokenterminal.com/explorer/projects/sonic>
14. <https://app.artemis.xyz/project/sonic?from=projects&tab=metrics>
15. <https://defillama.com/dexs/chains>
16. <https://app.artemis.xyz/flows>
17. <https://dune.com/queries/4952825/8195230>
18. <https://www.theblockbeats.info/news/56943>
19. [https://www.gate.io/trade/S\\_USDT](https://www.gate.io/trade/S_USDT)
20. [https://www.techflowpost.com/article/detail\\_24200.html](https://www.techflowpost.com/article/detail_24200.html)
21. <https://blog.soniclabs.com/designing-a-deflationary-airdrop/>

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