IBVM

International Bitcoin Virtual Machine

A next generation Bitcoin Layer 2
scaling solution with ZK- rollup

Executive Summary

International Bitcoin Virtual Machine (IBVM) is a next-generation Layer-2 scaling solution built on Bitcoin, combining zero-knowledge rollups, UTXO parallelization, and a Bitcoin-adapted virtual machine. By anchoring to Bitcoin's immutable Proof-of-Work base layer, IBVM enables fast, low-cost smart contracts and decentralized applications on Bitcoin **without custodians or trusted intermediaries**. This whitepaper provides an overview of IBVM's technical architecture, economic and governance model, and development roadmap, demonstrating how IBVM can scale Bitcoin to **9,000+ TPS and ~1-second finality** while maintaining full verifiability on Layer 1. We also outline IBVM's ecosystem strategy – including a community DAO reserve and grant program – and how the IBVM token underpins network governance and incentives in a community-centric way.

IBVM's unique position as the first Bitcoin-native ZK-rollup with Bitcoin-EVM compatibility (allowing Ethereum-style smart contracts on Bitcoin) offers a breakthrough in functionality without requiring wrapped assets or changes to Bitcoin itself. IBVM compresses millions of Layer-2 transactions into succinct cryptographic proofs periodically anchored in Bitcoin blocks, massively increasing throughput while **preserving Bitcoin's security and decentralization.** Furthermore, IBVM introduces an innovative compression technology that also allows mining BTC on everyday devices (e.g. mobile phones) with competitive efficiency – potentially democratizing Bitcoin mining and improving energy sustainability.

In summary, **IBVM transforms Bitcoin from "digital gold" into a high-performance, eco-friendly platform for decentralized finance and Web3 innovation,** all secured by Bitcoin's unparalleled network integrity. The following sections delve into IBVM's architecture and components, compare it with other Bitcoin Layer-2 projects, and detail the token utility, tokenomics and governance model designed to align with Bitcoin's ethos and empower the community. A development roadmap through mainnet launch and beyond is provided, along with an appendix containing financial projections and token distribution details. Through this comprehensive document, you will see how IBVM aims to rewrite Bitcoin's future – unlocking its full potential as a programmable financial infrastructure for the world

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Introduction

Bitcoin's Promise and Limitations: Bitcoin is the world's most secure and decentralized blockchain, but this robustness comes with trade-offs. Bitcoin's base layer handles only ~7–10 transactions per second and supports a simple scripting system without general smart contracts. These limitations have led to Bitcoin being seen as a "boring" blockchain technologically – primarily used as a store of value – while other networks like Ethereum have raced ahead with Layer-2 scalability and rich decentralized applications. For Bitcoin to evolve into the foundation of a truly programmable financial system, innovative Layer-2 solutions are essential.

Existing Layer-2 Solutions and Gaps: Several approaches have emerged to extend Bitcoin's capabilities, each with shortcomings. The Lightning Network enables instant Bitcoin payments via off-chain channels, but it lacks general programmability and requires complex channel management. Sidechains (e.g. Liquid, RSK) introduce smart contracts on Bitcoin-pegged chains but rely on federations or new consensus mechanisms, often requiring "wrapped BTC" and trust in custodians. More recently, projects like Stacks use a separate token and novel consensus (Proof-of-Transfer) to attach a smart contract chain to Bitcoin, and concepts like BitVM (a theoretical design) and Spiderchain explore rollup or drivechain ideas. However, **no solution so far has combined high throughput, trustless Bitcoin anchoring, and Turing-complete programmability in one package** without significant compromises.

IBVM's Vision: International Bitcoin Virtual Machine (IBVM) is designed to fill this gap. IBVM is the first Bitcoin-native Layer-2 that leverages zero-knowledge (ZK) rollup technology on Bitcoin, enabling full smart contract functionality secured by the Bitcoin mainnet. Operating as a hybrid zk-Rollup and UTXO-based sidechain, IBVM compresses large batches of Layer-2 transactions into succinct proofs (validity proofs) that are periodically posted to Bitcoin's blockchain. This approach retains Bitcoin's security and finality while vastly expanding throughput and functionality. Crucially, IBVM requires no changes to Bitcoin's consensus rules and avoids centralized custodians; all funds remain as real BTC under the hood, and withdrawals settle directly on Bitcoin L1. Users gain the speed and capability of a modern smart contract platform without sacrificing Bitcoin's trust model – if anything goes wrong on L2, the Bitcoin base layer is the ultimate source of truth.

Key Highlights:

Massive Scalability: IBVM targets ~9,000 transactions per second on L2 (over a 750× improvement vs Bitcoin L1) and ~1-second block times, achieved through parallel transaction processing and rollup compression, all while anchoring to Bitcoin for security.

Bitcoin-EVM Compatibility: IBVM introduces a Bitcoin-adapted virtual machine compatible with Ethereum's EVM. Developers can write smart contracts in familiar languages (Solidity, Vyper) and deploy dApps that run on Bitcoin's security infrastructure. This bridges Bitcoin and Ethereum's developer ecosystems, attracting a broad range of Web3 applications to Bitcoin.

Trustless Two-Way Peg: Using Simplified Payment Verification (SPV) proofs and Bitcoin scripts, IBVM enables a non-custodial bridge for BTC. Users lock native BTC in a special address on L1 and receive equivalent BTC tokens on IBVM L2, and vice versa for withdrawals – all verified cryptographically. There is no need to trust federations or wrapped assets; Bitcoin itself validates the peg.

Bitcoin's Ethos, Extended: Every design choice in IBVM aligns with Bitcoin's ethos of decentralization, security, and permissionless access. IBVM enhances Bitcoin (e.g. by enabling anyone, anywhere to interact with complex contracts or even **mine BTC from a mobile phone** using IBVM's compression tech) without undermining what makes Bitcoin special. The goal is to make Bitcoin more useful and inclusive while reinforcing its role as the bedrock of trust.

In the sections that follow, we detail IBVM's technical architecture, compare it to other Bitcoin L2 initiatives, and describe the tokenomics and governance structure that put the Bitcoin community at the center of IBVM's

Market Opportunity

Market Need

According to Michael Saylor, founder and chairman of MicroStrategy, Bitcoin represents only a tiny fraction, **roughly $1 trillion or 0.1%** of the estimated global wealth of around $900 trillion, implying a vast growth potential for Bitcoin and other digital assets.

Bitcoin layer 2 Scaling solutions

Projected to surpass **$47 billion** by 2030 as Bitcoin-based DeFi and smart contracts gain adoption.

Decentralised Escrow Solutions

Estimated to grow from **$2.4 billion** in 2024 to $17.91 billion by 2033 at a CAGR of 20%.

Bitcoin based lending solutions

Projected to surpass **$47 billion** by 2030 as Bitcoin-based DeFi and smart contracts gain adoption

The increasing demand for decentralized financial applications (DeFi), and high-frequency payment services necessitates a solution that can process thousands of transactions per second (TPS) at a fraction of traditional fees. BTC Layer 2 solutions are expected to handle more than 25% of the transactions on the BTC chain, as compared to roughly 1-2% currently, implying huge potential for the layer 2 BTC solutions. IBVM CHAIN not only meets these needs but also opens new possibilities for institutional applications such as trustless escrow and decentralized lending.

IBVM Technical Architecture

IBVM's architecture is a fusion of proven Layer-2 techniques and Bitcoin-specific innovations, purpose-built to achieve high scalability and expressiveness **without sacrificing trust lessness.** The core pillars of IBVM's design are:

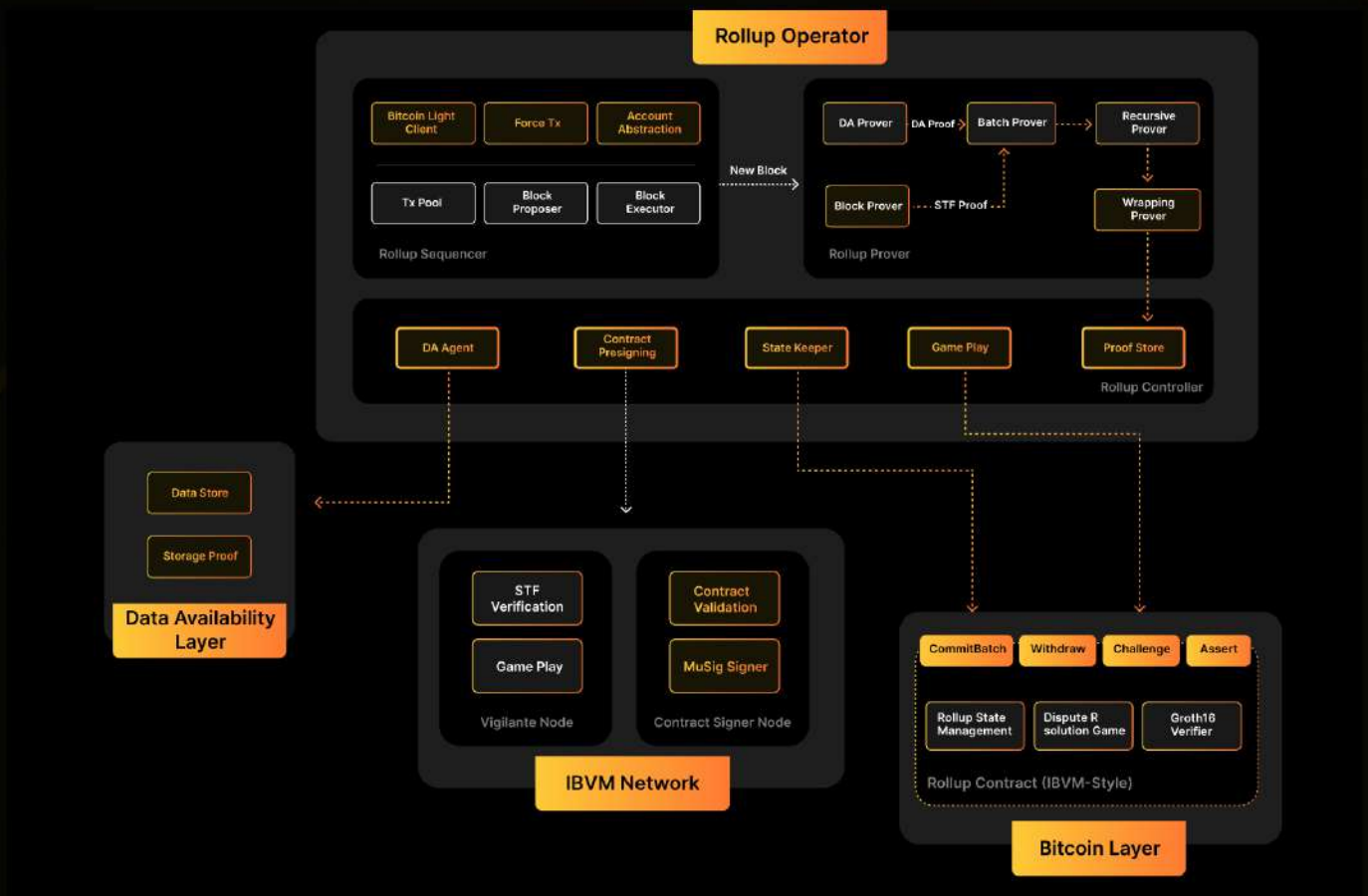
1. **Bitcoin-Native zk-Rollup :** a validity rollup using STARK/SNARK proofs anchored to Bitcoin for scalability and security.

2. **UTXO Partitioning for Parallel Processing –** a novel scheme to process transactions concurrently by sharding the UTXO space.

3. **SPV-Assisted Bridging –** Integration of Simplified Payment Verification to enable trust-minimized BTC deposits and withdrawals between L1 and L2.

4. **Bitcoin-EVM Virtual Machine –** a Bitcoin-adapted smart contract VM providing Ethereum-like capabilities on Bitcoin's foundation.

Together, these components allow IBVM to process orders of magnitude more transactions than Bitcoin per second, enable complex contracts and dApps, and still settle every outcome on Bitcoin L1 with cryptographic integrity. Below we explore each pillar in detail.



Bitcoin-Native zk-Rollup Design

At the heart of IBVM is a zero-knowledge rollup protocol built specifically for Bitcoin's UTXO model. In a zk-Rollup, batches of Layer-2 transactions are executed off-chain, and a succinct zk-proof attesting to the validity of each batch is periodically posted on-chain.

IBVM implements this by taking thousands of L2 transactions, generating a proof (using advanced zero-knowledge proving systems like STARKs or SNARKs) that all those transactions followed the protocol rules, and embedding that proof plus an updated state root into the Bitcoin blockchain (for example, via an **OP_RETURN output or inscription in a** Bitcoin transaction). Each proof serves as a verifiable checkpoint; anyone can independently verify the zk-proof against the posted state root to confirm that the new L2 state is valid **without replaying all L2 transactions.** This massive compression dramatically reduces on-chain footprint and fees – potentially millions of Layer-2 transactions can be confirmed on Bitcoin with a single proof of only a few hundred bytes.

Crucially, IBVM's rollup is built to be Bitcoin-native. Unlike Ethereum-oriented rollups that rely on Ethereum smart contracts or separate validators for finality, IBVM uses Bitcoin itself as both the data availability layer and the final settlement layer. All rollup state commitments and proofs are anchored to Bitcoin's mainnet ledger, inheriting Bitcoin's Proof-of-Work security. IBVM avoids any wrapped BTC or new custodial tokens – **value moved into IBVM remains real BTC under the hood**, and withdrawing from IBVM returns BTC back to a user's L1 address. By using Bitcoin's base layer for ultimate finality, IBVM ensures that if L2 operators were ever dishonest, users retain the recourse of Bitcoin L1 to enforce correct outcomes. This sets IBVM apart from federated sidechains where users must trust a multiset or consortium to redeem BTC. In IBVM, the integrity of the L2 is enforced by math (zk-proofs) and Bitcoin's consensus, not by trust in intermediaries.

UTXO Partitioning for Parallel Processing

Bitcoin's use of UTXOs (unspent transaction outputs) is often seen as a hurdle for smart contracts, but IBVM turns it into an advantage. IBVM introduces an innovative **UTXO partitioning** mechanism to boost throughput beyond what single-threaded block processing allows. In the UTXO model, transactions consume and create outputs, and critically, transactions touching distinct UTXOs can be processed in parallel without conflicts. IBVM leverages this by partitioning the Layer-2 UTXO set into multiple shards or groups that can be validated concurrently. In practice, different sequencer nodes (or parallel threads on a single sequencer) can handle separate subsets of transactions simultaneously, so long as those transactions reference disjoint UTXOs. This is analogous to sharding in account-model blockchains, but achieved within Bitcoin's UTXO paradigm.

By partitioning UTXOs, IBVM mitigates the traditional bottleneck of linear block assembly. Transactions dealing with different UTXO partitions can be confirmed in the same 1-second block without waiting on one another, significantly increasing aggregate TPS. Bitcoin's own rules prevent double-spending the same UTXO; IBVM extends this concept by dividing the UTXO space to minimize conflicts by design. Internal testing has demonstrated performance around 9,000 TPS for IBVM using this approach – roughly a 750× improvement over Bitcoin L1 throughput. Importantly, this scaling is achieved without altering Bitcoin's consensus or requiring gigantic blocks. All heavy transaction processing occurs off-chain in IBVM's environment, and only succinct proofs plus minimal summary data (like the state root) touch the Bitcoin blockchain. Partitioning is dynamic as well – if one partition becomes too popular or congested, the protocol can adjust partitions or reallocate UTXOs between them to balance load. In essence, IBVM turns Bitcoin's UTXO model into a feature: enabling a multi-threaded, parallel execution environment that exploits the inherently parallel nature of independent UTXOs.

Simplified Payment Verification (SPV) Integration

To seamlessly connect IBVM with the Bitcoin mainnet, the platform employs **Simplified Payment Verification** (SPV) techniques as part of its cross-chain bridge and security model. SPV, as described in Satoshi Nakamoto's original Bitcoin whitepaper, allows lightweight clients to verify that a transaction was included in the Bitcoin blockchain **without downloading the full chain** – by checking proof-of-work in block headers and Merkle proof of the transaction's inclusion in a block.

IBVM uses SPV proofs in two critical ways:

- **Trustless BTC Deposits:** When a user moves BTC from Bitcoin L1 into IBVM L2, they send BTC to a special lock address on Bitcoin (for example, a multi-signature or script-controlled address managed by the IBVM protocol). Instead of trusting a third party to acknowledge this deposit, IBVM requires an SPV proof of the deposit transaction – essentially the transaction's Merkle path in a sufficiently confirmed Bitcoin block. The user (or a relayer) submits this SPV proof to the IBVM network. IBVM nodes verify the proof against Bitcoin's block header chain to confirm the BTC was indeed locked on L1. Once verified, IBVM mints or credits an equivalent amount of BTC (as an L2 representation) to the user's account on the Layer-2. Because this verification uses Bitcoin's own consensus (proof-of-work and Merkle trees), **no centralized custodian is needed.** Any IBVM full node, or even users, can validate the SPV proof themselves to ensure the deposit is legitimate.

- **Trust-Minimized Withdrawals :** Withdrawing funds from IBVM back to Bitcoin L1 is essentially the reverse process. A user burns or locks their BTC tokens on IBVM, requesting a withdrawal to a Bitcoin address. IBVM then generates a Bitcoin transaction from its on-chain lockbox of funds to the user's address, but this transaction will only be broadcast if the corresponding burn on L2 was part of a valid rollup state. Here, IBVM leverages its zk-rollup proofs in conjunction with SPV: the withdrawal transaction corresponds to a state transition in IBVM that has been proven valid by a zk-proof anchored on Bitcoin. Before releasing funds, the system can require an SPV proof that the latest rollup state (which authorized the withdrawal) is indeed recorded on Bitcoin L1. Additionally, IBVM may implement a brief fraud challenge window (inspired by optimistic rollups) where anyone can present proof of an invalid withdrawal if somehow a malicious state snuck through – though in principle, IBVM's validity proofs should catch fraudulent transactions automatically. The net effect is that **no BTC can exit IBVM unless a cryptographically valid claim to those funds is demonstrated on both L1 and L2..**

By combining zk-proofs for state validity with SPV proofs for Bitcoin inclusion, IBVM achieves a non-custodial two-way peg: BTC moves in and out based on cryptographic verification rather than approval by a federation or oracle. Competing Bitcoin layer-2 solutions often rely on a federated multisig to hold custody of BTC (for example, RSK's. federation, or the signing quorums in proposed drivechains/ spiderchains). In contrast, IBVM uses SPV so that any Bitcoin full node or SPV client can audit and enforce the peg. The security boils down to Bitcoin's own security – if the Bitcoin blockchain is secure, then the IBVM bridge is secure. This tight coupling with Bitcoin's trust model is a cornerstone of IBVM's design.

Bitcoin-EVM Virtual Machine (BitVM Compatibility)

On top of the rollup and UTXO innovations, IBVM features a **Bitcoin-adapted virtual machine** that brings full smart contract capabilities to Bitcoin. Dubbed the Bitcoin-EVM, this virtual machine is closely aligned with Ethereum's EVM (Ethereum Virtual Machine) semantics but adapted for a Bitcoin environment. Smart contracts on IBVM can be written in high-level languages like Solidity or Vyper, and they execute within IBVM much as they would on an Ethereum-compatible chain, with a familiar account model, gas fees for computation, and so on. The difference is that under the hood, these contracts' state changes and transactions are ultimately enforced via Bitcoin's UTXO and script framework (with IBVM providing the translation layer and consensus via rollup proofs).

Key attributes of the Bitcoin-EVM:

- **EVM Compatibility:** Developers can port existing Ethereum smart contracts or write new ones for IBVM with minimal changes. This lowers the barrier to entry, allowing the vast ecosystem of Ethereum tools (compilers, wallets, IDEs, etc.) to be leveraged. IBVM's VM supports accounts, contract bytecode, storage, and logs similarly to Ethereum, but state changes are rolled up and committed in Bitcoin

- **Deterministic and Secure Execution:** Each contract call on IBVM is deterministic and metered by gas (to prevent infinite loops or DoS attacks). While Ethereum uses ETH as gas, IBVM's approach (detailed in the Token Utility section) allows **Bitcoin to serve as the native gas currency,** meaning users pay transaction fees in BTC or its L2 equivalent. This ensures that executing IBVM contracts directly consumes BTC, aligning incentives with Bitcoin's value.

- **Bridging Bitcoin Scripts and EVM:** IBVM's VM can interoperate with Bitcoin scripts for custody and bridging. For example, an IBVM smart contract representing a multisig wallet could be tied to an actual Bitcoin script that holds the funds, with IBVM ensuring the contract logic and Bitcoin script remain consistent. This hybrid approach leverages Bitcoin's battle-tested scripts for simple operations (like locking/unlocking coins) and the EVM for more complex logic

- **Smart Contract Use Cases:** With a fully functional VM, IBVM can host DeFi protocols (DEXs, lending platforms, stablecoins, bridges), NFT marketplaces, gaming dApps, and more – all benefiting from Bitcoin's liquidity and security. Notably, IBVM opens the door for Bitcoin-backed tokens and assets (like BTC-collateralized stablecoins or trust-minimized Bitcoin wrapping of Ethereum assets) to interact in complex ways, expanding Bitcoin's role in the multi-chain ecosyste

In summary, the Bitcoin-EVM virtual machine makes IBVM a **general-purpose smart contract platform anchored to Bitcoin**. This capability, combined with the performance and trust guarantees of the rollup mechanism, transforms what Bitcoin can do: from simple transfers to full-fledged decentralized applications, all on a Bitcoin-secured layer

IBVM vs. Other Bitcoin Layer-2 Solutions

Several projects and proposals aim to extend Bitcoin's functionality. Here we briefly compare IBVM to some prominent Bitcoin L2 initiatives to highlight how IBVM's approach is unique:

Features	Bitcoin BTC	Ethereum ETH	Liquid LBTC	IBVM
Average confirmation time	10 min	15 sec (Ghost)	60 sec	2 sec
Security threshold (due to selfish mining or collusion)	-30%	Lower than 30%	50 %	50%
Turing complete smart-contracts	✗	✓	✗	✓
Add value to Bitcoin	-	✗	✓	✓
Integration with Bitcoin	-	✗	Sidechain	Layer2
SPV clients	✓	✓	✓	✓
Hardware wallet integration	✓	✓	✗	✓
Confidential transactions	✗	Via contract	✓	Via contact
Scalability (tps)	3 (6 with sedwit)	Unbounded Currently 15	3(6 with sedwit)	Unbounded 4000
Blockchain size	200GB	>1.5 TB	~300 MB	~11GB
Token peg security	-	-	Federation	Federation
Gas Price	~$0.01	~$0.03	-	~$0.0000001
Token	BTC	ETH	LBTC	IBVM

IBVM's distinguishing feature is that it is a true Bitcoin Layer-2 with validity proofs, combining the advantages of a rollup (security derived from mainchain, no need to trust a new consensus) with the flexibility of a sidechain (smart contracts, fast finality). Unlike sidechains or federations, IBVM doesn't compromise on trustlessness; unlike previous Bitcoin layer-2s, it achieves scale and expressiveness far beyond simple payment channels. And unlike some approaches, IBVM introduces a token model oriented toward community governance and growth rather than as a mere fee token or speculative asset. This combination – Bitcoin-level security, Ethereum-level programmability, and a community-centric token – makes IBVM a unique entrant in the Bitcoin scaling landscape.

IBVM Token Utility and Economic Model

The **IBVM token (ticker: IBVM)** is the native utility token of the IBVM Layer-2 network. However, its design follows a community-centric model inspired by successful projects like Arbitrum, with an emphasis on governance and ecosystem incentives rather than mandatory usage fees. Notably, **using IBVM does not require spending the token for gas** – instead, Bitcoin (BTC) serves as the primary currency for transaction fees on the IBVM network. This aligns the network's usage directly with Bitcoin's value and ethos, lowering friction for users (who can pay fees in BTC they already hold) and ensuring that demand for block space on IBVM drives demand for BTC itself.

In this model, the IBVM token plays a central role in **governance, security participation, and network growth incentives. K**ey utilities of the IBVM token include

- **Governance and DAO Voting:** IBVM token holders govern the IBVM ecosystem via a decentralized autonomous organization (DAO). Holding IBVM grants the right to propose and vote on protocol upgrades, parameter changes (e.g. adjusting gas limits or fee policies), treasury expenditures, grant allocations from the DAO reserve, and other strategic decisions. This ensures that the community of token holders can steer the project's direction over time. For example, how the Community Treasury or Ecosystem Fund is spent on community driven grants or which new features to prioritize can be decided by on-chain votes. Initially, governance may be bootstraped by the core team or a multisig for practicality, but the **roadmap envisions progressive decentralization** where control transitions fully to token holders as the network matures.

- **Network Security and Staking:** While IBVM does not require miners or validators in the traditional sense (Bitcoin's miners secure the base layer), the token may be used to enhance security and decentralization of the Layer-2 operations. In the future, IBVM sequencer nodes or rollup validators could be required to **stake IBVM** tokens to participate in block production or proof generation. Staked tokens would align their incentives with honest behavior – a sequencer who acts maliciously could have their stake slashed. This mechanism, similar to other L2s and sidechains, would help decentralize IBVM's operation beyond a single operator. Importantly, IBVM could implement a **dual-staking model** for critical operators (if and when the sequencer set opens up) where they must stake IBVM tokens and lock a certain amount of BTC. Requiring a BTC bond in addition to the IBVM stake would further align operators with Bitcoin's success (echoing Bitcoin's ethos that participants should have "skin in the game" in BTC). This concept, inspired by projects like Mezo's "HODL proof," underscores IBVM's commitment to economic alignment with Bitcoin itself.

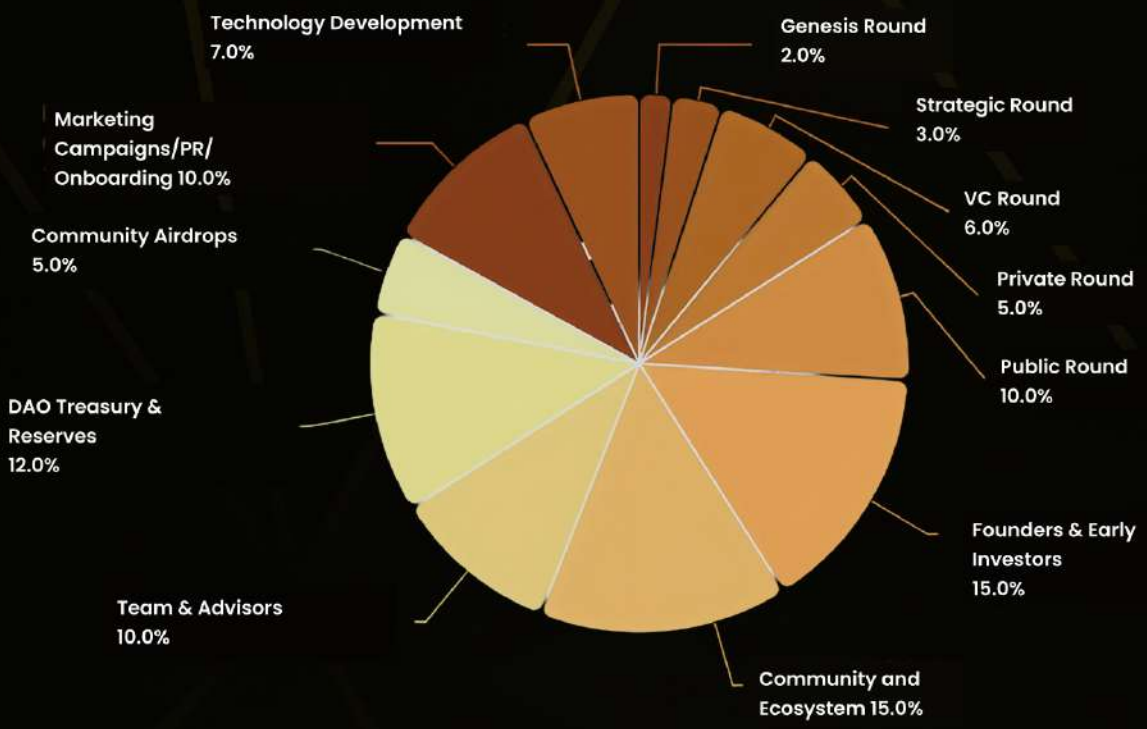
- **Community Incentives and Participation Rewards:** A primary utility of the token is to incentivize usage and growth of the IBVM network. A significant portion of the total supply (as detailed in the Tokenomics Appendix) is allocated to **ecosystem and community rewards.** This includes programs like liquidity mining (rewarding users who provide liquidity in BTC/IBVM pools on decentralized exchanges), user airdrops (distributing tokens to early adopters and active users of the network), developer incentives (grants or rewards for teams building dApps on IBVM), rewarding our users that mine BTC via their mobile devices (the mined BTC goes to the IBVM treasury and the entities that mined it are rewarded with our own native IBVM token) and potentially node rewards (if running an IBVM full node or proving transactions becomes decentralized). By widely distributing tokens to the community of users and builders, IBVM jumpstarts network effects and decentralizes ownership. Early on, for instance, users who bridge BTC into IBVM or execute transactions might earn small IBVM rewards as an adoption incentive. This not only encourages activity and liquidity on the platform but also ensures that over time a large share of tokens ends up in the hands of those actively contributing to the ecosystem.

- **Fee Revenue Sharing (Value Accrual):** Although transaction fees on IBVM are paid in BTC, there are mechanisms by which the IBVM token could capture some of the economic value generated by the network. One approach is **governance-directed fee sharing:** fees collected (in BTC) could be partially used to buy back and burn IBVM tokens, or distributed as rewards to IBVM stakers. For example, the community could vote to accumulate BTC from fees into a treasury and later use it to support the token's value (through buybacks) or pay it out as dividends to those staking IBVM in governance. Another possible mechanism is if IBVM transitions to a more PoS-like model for sequencers, new issuance or a portion of fees might be given as staking rewards. While specifics will depend on governance decisions, the principle is that token holders who commit to the network long-term should benefit from its economic success. Aligning token value accrual with network usage (without making the token a required fee medium) encourages a healthy, symbiotic relationship between Bitcoin usage on IBVM and IBVM token demand.

In summary, the IBVM token is **not simply a gas token** – it is the coordination mechanism for the IBVM community. It provides governance control, aligns incentives for those running and securing the Layer-2, and fuels the growth of the ecosystem via rewards. By separating the fee currency (BTC) from the governance token (IBVM), IBVM ensures a user-friendly experience for Bitcoin users and a powerful role for the token in guiding and growing the network.

Token Supply and Distribution

IBVM has a fixed total supply of **1,000,000,000 IBVM tokens.** This supply is allocated across various categories to balance the needs of fundraising, team incentives, and especially community distribution. The tokenomics model heavily favors community and ecosystem growth, reflecting a **"community-first" philosophy.** A summary of the allocation is as follows (detailed figures and vesting schedules are provided in **Appendix A):**



- **Community & Ecosystem Incentives – 15% of supply:** The large allocation is dedicated to community growth programs. This includes user rewards, liquidity mining incentives, bridging incentives, developer grants, and strategic ecosystem partnerships. These tokens are released over time to bootstrap network effects – for instance, rewarding early adopters and liquidity providers, funding a developer grant program, and forming a reserve for future community initiatives. By allocating such a substantial portion to the community, IBVM ensures decentralization of token ownership and incentivizes grassroots expansion.

- **Fundraising Rounds – ~26%:** A combined 26% of the token supply was allocated to investors across several rounds (Genesis, Strategic, VC, Private, and Public). These fundraising rounds provide crucial capital for development. To align investors with long-term success, tokens sold in these rounds are subject to vesting cliffs and gradual release schedules (with the exception of a portion of the public sale, which has an immediate unlock for market liquidity). The public sale price (e.g. around $0.60 per token at TGE) implies a reasonable initial fully diluted valuation ($600M), and vesting ensures that only a portion of the total supply is circulating at the Token Generation Event (TGE). This relatively low initial float helps reduce sell pressure while still providing some liquidity in the market.

- **Team and Advisors –10%:** The core founding team and project advisors are allocated 10% of the supply.. These tokens are locked for an initial period and then vest over several years to incentivize long-term commitment. The team's token share being modest and heavily vested demonstrates confidence that the token's value will derive from delivering on the roadmap. It aligns the interests of founders and contributors with the sustained growth of the network. Advisors (industry experts, academics, etc.) who counsel the project also vest their tokens over time, reflecting their ongoing contribution to IBVM's success.

- **DAO Treasury and Reserves – 12%:** A significant portion is reserved for the IBVM DAO and ecosystem treasury. This includes a DAO reserve, liquidity reserve and and a smaller R&D fund. These tokens are set aside to be deployed via governance for the long-term benefit of the project – for example, funding future development, protocol upgrades, research initiatives, or forging strategic partnerships. Notably, these treasury tokens have a long cliff and slow vesting afterwards, meaning the community will gain access to this war chest gradually. This ensures that a large pool of resources exists for the DAO to utilize down the road when the ecosystem is more mature, without flooding the market early on.

- **Community Airdrop – 5%:** To kickstart community ownership, 5% of the tokens are allocated to airdrops for early community members. This might include testnet users, active community members, or other supporters identified by the team. A portion of the airdrop will be unlocked at TGE, giving initial recipients a small immediate reward, with the remaining airdropped tokens vesting over a period of time. The airdrop both rewards those who believed in or tested IBVM early, and it turns those users into stakeholders moving forward, helping distribute governance power broadly.

- **Operations and Marketing -17%:** A small share of tokens (7% for operational expenses and 10% for marketing) is allocated to support the ongoing running of the network and ecosystem growth efforts. Operational tokens fund things like running infrastructure (nodes, data availability layers, support services) and covering legal or administrative costs. Marketing tokens fund outreach: hackathons, developer education, community events, and campaigns to drive adoption. These allocations are also vested over 4 years with a small unlock during TGE and used as needed; they give the project a budget to grow the user base and ecosystem in the critical early stages.

Additional tokens are allocated to the founders, early investors, KOLs, Exchange, PR, liquidity pool and strategic partnerships - for example, some incentive tokens may be used to seed exchange liquidity or to onboard key partners with token rewards

Overall, the token distribution is crafted to ensure majority of the tokens ultimately flow to the community and ecosystem, either through direct incentives or via the DAO treasury and airdrop, whereas founding members (team, investors, advisors) make up a minority share. This community-centric allocation aligns with IBVM's goal of being an open, community-governed Layer-2. It echoes the model of Arbitrum and other modern networks where more than half of the tokens are controlled by the community (either immediately or through future programs), as opposed to older models where insiders held majority stakes. The extensive vesting periods and cliffs further signal that IBVM's success will be measured in years, not months – short-term speculators are discouraged, and long-term builders and users are rewarded.

(For a complete tokenomics table with exact numbers, vesting schedules, and an illustrative token release curve, please refer to **Appendix A: Tokenomics Details.**)

Ecosystem Strategy and Use Cases

IBVM is not just a technical endeavor; it's an ecosystem aimed at bringing Bitcoin to life for a multitude of new applications and users. The project's strategy includes robust community programs, developer support, and a focus on real-world use cases, all while aligning with Bitcoin's core values and global financial inclusion goals.

Developer Grants and DAO Programs: A cornerstone of the ecosystem strategy is the **IBVM Ecosystem Fund**, overseen by the DAO. 9% of the supply is earmarked for community driven development whilst an additional 9% of the supply (this second 9% for grants is distributed by IBVM) is reserved to incentivize developers and startups to build on IBVM. This community driven program (separate to the Grant program and additional incentive tokens) will provide financial support, mentorship, and resources to projects that can drive adoption on IBVM – such as DeFi protocols, infrastructure tools, wallets, and integrations with other chains. By lowering the barrier to building on IBVM, the team and community aim to cultivate a vibrant developer community. The DAO will likely run hackathons, incubation programs, and bounty campaigns to encourage third-party development. For example, a grant might be given to a team building a decentralized exchange on IBVM, or to a developer creating an IBVM integration for an existing Bitcoin wallet. These investments grow the ecosystem and, by extension, the utility of both Bitcoin and IBVM.

Community Growth and Education: IBVM's early strategy has included distributing its wallet widely and educating users about Bitcoin layer-2 technology. An official **IBVM Wallet** (mobile app for iOS/Android) was released even before mainnet, garnering tens of thousands of downloads. This wallet provides an easy interface for users to interact with IBVM – creating accounts, managing BTC on L2, accessing dApps, etc. By putting a user-friendly tool in people's hands, IBVM accelerates adoption. The project has also engaged in community airdrop campaigns and testnet "quests" to introduce Bitcoin users to IBVM's capabilities (e.g. rewarding users for trying testnet transactions or deploying example contracts). Educational content, webinars, and active social media engagement (Twitter, Telegram, etc.) are all part of making IBVM approachable. The community **DAO reserve** can further be used for initiatives like translation of materials into multiple languages, local meetups or ambassadors, and partnerships with universities or blockchain clubs to train the next wave of Bitcoin smart contract developers.

Real-World Use Cases: IBVM unlocks a spectrum of new use cases for Bitcoin. Some examples include:

- **Decentralized Finance (DeFi) on Bitcoin:** With IBVM, developers can create Bitcoin-backed stablecoins, lending platforms where BTC holders can borrow against their assets, decentralized exchanges trading Bitcoin and tokens, and yield farming opportunities – all secured by Bitcoin's L1. This brings the liquidity and reserve status of BTC into play in DeFi without relying on wrapped tokens on Ethereum or other chains. A trader could swap BTC for an Ethereum token or a stablecoin on IBVM in seconds, or a user could lend out BTC in a smart contract to earn yield, all while final settlement remains on Bitcoin.

- **Digital Assets and NFTs:** IBVM supports tokenization standards that can represent assets like NFTs (non-fungible tokens), BRC-20-style tokens, or even fractionalized real-world assets, with Bitcoin as the settlement layer. For instance, the Ordinals protocol introduced NFTs on Bitcoin, but IBVM can take this further by providing a high-speed layer to mint, trade, and showcase such digital collectibles or certificates with low fees. Artists or content creators could issue NFTs on IBVM that benefit from Bitcoin's permanence and security, while enjoying fast transactions and richer smart contract functionality (like royalties or complex auction mechanisms).

- **Cross-Chain Bridges and Services:** IBVM can act as a hub connecting Bitcoin to other networks. Because IBVM has Ethereum-like smart contracts and Bitcoin anchoring, it's an ideal place to deploy **bridges** that move assets between Bitcoin and Ethereum or other blockchains. A user could lock Ether on Ethereum and mint an ERC-20 representation on IBVM (all mediated by smart contracts) and then swap for BTC within IBVM, effectively enabling trust-minimized BTC-ETH exchange. Services like oracle networks (bringing off-chain data to Bitcoin contracts) or cross-chain messaging protocols can also be implemented on IBVM, turning it into a bridge layer that speaks both Bitcoin and Ethereum's "languages."

- **Enterprise and Real-World Applications:** With its high throughput and low cost, IBVM is positioned to support applications beyond crypto trading – including those aimed at enterprise or public sector use. For example, micro-payments or remittances can be done on IBVM at a fraction of mainchain fees, which is crucial for financial inclusion in emerging markets. A fintech company could issue a local currency stablecoin on IBVM for a developing economy, enabling cheap and fast transfers pegged to Bitcoin. Supply chain systems might use IBVM to track and transfer ownership of goods with Bitcoin-based tokens, leveraging Bitcoin's security for authenticity. Because IBVM drastically improves Bitcoin's efficiency (transactions that would cost dollars on L1 might cost fractions of a cent on L2), it opens the door for **IoT payments, pay-as-you-go services, and other use cases** previously impractical on Bitcoin. Moreover, IBVM's **energy-efficient design** (batching many operations into one proof) and the novel **compression mining technology** align with global sustainability goals – for instance, by allowing Bitcoin mining in regions with constrained resources or repurposing data center waste heat, IBVM could help make Bitcoin a greener network

- **Mobile Bitcoin Mining & Green Compute:** One particularly revolutionary aspect of IBVM's technology is the L2 mining compression. IBVM's rollup and proof system can potentially compress the work needed for mining in such a way that **even a smartphone could participate in Bitcoin mining meaningfully.** While this feature is still being refined, the idea is to bundle and prove large mining computations in a succinct form, allowing devices with modest hardware to contribute to mining without running full SHA-256 hashes at industrial scale. If achieved, this could **democratize mining,** reduce the advantage of expensive ASIC hardware, and make the network more decentralized. In parallel, the same compression techniques can be used to optimize data center processes, reducing energy consumption by offloading certain computations to IBVM's more efficient proof system. Such developments show IBVM's broader vision of making Bitcoin not only more capable, but also more accessible and sustainable.

All these use cases share a common thread: leveraging Bitcoin's security and value while extending its utility. IBVM serves as the **platform for innovation on Bitcoin** – one where developers and users can experiment freely, without needing permission from miners or alterations to Bitcoin Core. And thanks to IBVM's architecture, **the gains do not come at the expense of trust**: the Bitcoin mainchain remains the ultimate arbiter of truth

- **Alignment with Bitcoin's Ethos:** Throughout its ecosystem strategy, IBVM remains mindful of Bitcoin's core principles. The emphasis on non-custodial design, open governance, fair token distribution, energy efficiency, and global accessibility all stem from a deep respect for the Bitcoin ethos. IBVM is built with Bitcoin, not against it – it seeks to amplify Bitcoin's positive impact. For example, by making transactions extremely cheap and fast on a Bitcoin L2, IBVM can empower communities in inflationary economies to use Bitcoin for everyday transactions. By engaging with regulators proactively (choosing crypto-friendly jurisdictions and adhering to compliance where applicable), IBVM aims to ensure that innovations on Bitcoin can flourish responsibly. In effect, IBVM positions itself as **the community's layer-2,** aligning miners, developers, users, and even institutions around a common goal: extending Bitcoin's utility to achieve broader financial inclusion and technological progress.

- **Ecosystem Governance (DAO):** To manage this growing ecosystem, IBVM relies on its DAO governance structure. The IBVM DAO, composed of token holders globally, will make decisions such as which ecosystem developments to fund, how to adjust protocol parameters, when to initiate token buy-backs or burns with accumulated fees, and how to handle upgrades. Decentralized governance is crucial given IBVM's scope – it ensures that no single entity (not even the founding team) can unilaterally control the fate of the layer-2, thereby preventing central points of failure or policy decisions that go against the community's interest. In practice, governance may roll out in stages: initially a core team or foundation might guide decisions to move quickly, but with smart contract-based voting tools, control will migrate to IBVM token holders. The DAO treasury (the 9% reserve) gives the community significant resources to direct. This could mean funding critical infrastructure (like decentralized sequencer nodes, data availability layers, or oracle networks) or sponsoring community initiatives. Over time, as IBVM grows, its DAO could become one of the largest pools of Bitcoin-aligned capital, capable of influencing the broader Bitcoin ecosystem (for instance, by contributing to Bitcoin Core development, or supporting public goods that benefit Bitcoin and IBVM users).

In summary, IBVM's ecosystem strategy is both **ambitious and community-driven.** By providing financial incentives and a supportive platform to builders, by actively engaging and rewarding its user base, and by focusing on use cases that solve real problems, IBVM aims to cultivate a self-sustaining, thriving ecosystem on top of Bitcoin. Just as importantly, through decentralized governance, it ensures that this ecosystem remains in the hands of its stakeholders – the Bitcoin and IBVM community – aligning everyone's incentives for long-term success.

Roadmap and Future Milestones

A clear development roadmap underpins IBVM's journey from concept to reality, instilling confidence that the team can execute on its vision. The roadmap is divided into phases, marking technical milestones, network launches, and community growth targets. Below are the key milestones achieved and expected for IBVM:

- **Q4 2023 – Project Inception & Research:** IBVM was conceived in late 2023 amid rising interest in Bitcoin scalability. The founding team (led by Dr. John Sajadi) conducted foundational R&D: designing the UTXO partitioning scheme, evaluating zero-knowledge proof systems suitable for Bitcoin, and prototyping the Bitcoin-EVM compatibility. Early whitepaper drafts (a "Litepaper 1.0") were written during this period. This quarter was about proving feasibility and setting the technical direction.

- **Q1 2024 – Seed Funding & Development Kickoff:** : Coming out of stealth, IBVM expanded by hiring blockchain engineers and cryptography experts. Development accelerated on the first versions of the zk-rollup engine and the IBVM virtual machine. The architecture for SPV bridging was laid out. The team also began reaching out to advisors and forming industry connections in preparation for the next phase of development, growth, fundraising and partnerships.

- **Q2 2024 – Testnet Alpha & Private Sale –** By mid-2024, IBVM achieved an **alpha version of its testnet** in a controlled environment. Basic transactions on IBVM (e.g. simple BTC transfers in the L2) were executed and verified via proofs on Bitcoin's testnet/regtest chains, validating the core concepts. Focus in this phase was on integrating the rollup with Bitcoin testnet, implementing SPV proof verification off-chain, and building out the IBVM Wallet and DApp Store in prototype form. The groundwork was also laid for third-party security audits (with audit firms engaged early to review the novel circuits and contracts).

- **Q3 2024 – Public Reveal and Community Building:** In the second half of 2024, IBVM emerged publicly. The team published the initial Liitepaper and launched the official website (ibvm.io), detailing their vision. They also started growing an online community, with social media announcements, developer outreach, and possibly closed demos or an invite-only testnet. Partnerships were explored with other Bitcoin

projects (like wallets, Lightning providers, or developers of layer1 proposals such as Ark or drivechains) to create a collaborative ecosystem. On the technical side, efforts went into **optimizing throughput** – by Q3 the team was hitting the ~9,000 TPS target in lab conditions – and improving proof performance (shortening the time to generate zk-proofs for each batch). Work on the EVM compatibility continued, ensuring that by now smart contracts could be deployed and run on the IBVM test environment.

- **Q4 2024 –** Testnet Beta & Ecosystem Outreach: By the end of 2024, IBVM opened up a **public beta testnet.** This meant developers and curious users could access IBVM on a test network using test BTC and test IBVM tokens. The beta testnet phase was critical for rigorous testing and feedback. Concurrently, business development ramped up: IBVM aligned several **ecosystem partners** (e.g. a DeFi protocol to deploy on IBVM at mainnet, a cross-chain bridge service, or a well-known Bitcoin company interested in L2). Planning for token launch also began, including engaging with industry leaders for eventual listings and ensuring legal compliance for the upcoming token generation. Community engagement was in full swing.

- **Q1 2025 – Final Testing and Strategic Investment:** The first half of 2025 was about polishing the network for production. A more stable version was deployed incorporating fixes and improvements from the beta phase. During this time, a major boost came in: **Rollman Management, a blockchain-focused fund, made a $20M strategic investment in IBVM (announced May 2025),** valuing the project at over $100M. This investment not only provided capital but also validation from prominent investors. Around the same time, IBVM hit other key milestones: the **IBVM Mobile Wallet** launched on the Apple App Store and Google Play, allowing a broad audience to experiment with IBVM's testnet through a user-friendly app reaching over 50,000 downloads in the first few months. The **IBVM DApp creator** (a platform for creating dApps running on IBVM) was introduced, giving developers a channel to build on IBVM. Also in this period, the foundation of the **Participation Rewards** program was laid – community events like testnet "mining" competitions and airdrop campaigns were run (indeed, in May 2025 a public testnet airdrop event was held, drawing many new users to try IBVM and earn future token rewards). By now, IBVM's community had grown substantially, with thousands of followers and active testers, indicating strong interest leading into mainnet.

- **Q2-4 2025 – Token Generation Event (TGE) & Mainnet Launch:** By Q2/3 2025, all eyes will be on the mainnet launch and the **Token Generation Event (TGE)** is scheduled for December 2025. Tier 1 CEXs qre targeted for the initial listing, followed by DEX listings making available decentralized trading pools – giving the market its first chance to price IBVM and for early contributors to realize some liquidity under the vesting terms. Mainnet launch steps include opening the **BTC-IBVM bridge** (so users can deposit real BTC into the L2), deploying core dApps and infrastructure (the first DEX, perhaps a lending protocol, a governance portal, etc.), and activating the incentive programs on mainnet (so users and developers immediately begin earning rewards for activity). The network will start with conservative parameters such as a fixed transaction fee of $0.01USD regardless of the size of the transaction to prioritize community and developer engagement.

- **2026 and Beyond – Post-Launch Expansion:** After mainnet, the focus shifts to **iterating and decentralizing**. The roadmap beyond 2025 includes:

  - Enabling more community-run sequencers or provers to decentralize block production (potentially introducing a staking requirement for them as discussed in token utility, and possibly rotating or adding new sequencer nodes via DAO approval).

  - Further throughput and feature upgrades: IBVM can integrate ongoing advances in ZK-proofs to speed up proof generation, adopt improvements from Ethereum's layer-2 research (like new compression techniques or EVM enhancements), and support new Bitcoin upgrades (if any relevant ones like covenants or signature schemes are introduced on Bitcoin L1 that IBVM can leverage).

  - Ecosystem growth: We expect numerous dApps to launch on IBVM through 2026–2027, from decentralized finance platforms to games and NFT marketplaces, expanding user adoption. The DAO and grant programs will play key roles here, continuously seeding new projects and possibly attracting existing Ethereum dApps to deploy versions on IBVM.

  - Cross-chain interoperability: By 2027, IBVM could become a hub for bridging assets between Bitcoin and other major chains, collaborating with protocols like Cosmos/IBC or Polkadot for broader connectivity, all under DAO oversight to ensure security and community engagement.

- Institutional integration: Given IBVM's positioning (e.g. being more environmentally friendly and high-throughput), outreach to enterprises and institutions is on the roadmap. For instance, partnerships with payment providers, or pilots with banks to use IBVM for settlement, or governments exploring blockchain solutions for public infrastructure. The presence of IBVM's corporate base in a fintech-friendly environment (USA, Switzerland) aids in these efforts.

- **Governance milestones:** The DAO will gradually take on full control. A milestone might be a successful on-chain vote to upgrade a core contract or to elect community representatives to a multi-sig that controls certain parameters. Achieving a fully functional, decentralized governance where token holders directly influence the protocol is a key goal by 2027.

- **Long-Term Vision:** In the long run (2027 and beyond), IBVM aims to solidify its role as the premier smart contract layer for Bitcoin. The measure of success will be if major Bitcoin holders and users can do everything they want (payments, trading, earning yield, running businesses, etc.) on IBVM without needing to leave the Bitcoin ecosystem for other blockchains. Technically, this could involve implementing privacy features (ZK-rollups allow for potential private transactions or shielded contracts), further scaling (perhaps beyond 10k TPS if needed, through recursive proofs or additional parallelization), and keeping fees ultra-low. The roadmap remains adaptive – the IBVM team and DAO will continuously evaluate new technologies and market trends to keep Bitcoin's L2 capabilities on the cutting edge.

The roadmap above is ambitious but grounded in concrete milestones and reality. Hitting these targets on schedule is vital for IBVM to establish and maintain a lead in the emerging Bitcoin L2 landscape. Each milestone not only delivers functionality but also builds credibility: from the early R&D wins to the secured strategic funding, from testnet achievements to the successful mainnet and beyond. As of this writing (mid-2025), IBVM has met its major launch milestones, and the next challenges lie in expanding and decentralizing the network while fostering a flourishing ecosystem. The community-centric approach – with transparency about progress and roadblocks and with token holders empowered via governance – will be key in navigating the journey ahead.

Team and Contributors

The strength of IBVM lies in its team's blend of technical expertise, business acumen, and commitment to Bitcoin's ethos. The project is led by seasoned professionals in blockchain R&D and is supported by a global development team and knowledgeable advisors

- **Dr. John Sajadi (Co-Founder & CEO):** Dr. Sajadi is the visionary behind IBVM's concept and architecture. With a Ph.D. background in computer science and blockchain (and experience as a Web3/DeFi thought leader), he serves as IBVM's global blockchain architect and chief executive. Dr. Sajadi has been a keynote speaker on decentralized technology and brings deep knowledge of distributed systems and tokenomics. At IBVM, he guides the overall strategy – from protocol design to business development – ensuring the project remains at the forefront of innovation and aligned with Bitcoin's principles. His leadership in articulating IBVM's mission (for example, highlighting the goal of making Bitcoin greener and more inclusive) has been instrumental in securing partnerships and a $20M strategic investment.

Albert Dadon AM – Chairman
Chevalier De l'Ordre
National
Du Merite, Order of Australia

A distinguished entrepreneur, investor, and cultural leader. As Chairman of IBVM, he brings decades of experience in governance, strategic growth, and global diplomacy.

- **Romil Jain (Co-Founder & COO):** Romil drives the operational backbone of IBVM, translating the high-level vision into robust code and protocols. As a co-founder and COO, he brings in deep technical expertise in blockchain architecture, smart contracts, and EVM systems, he ensures the seamless functioning of IBVM's "Bitcoin-EVM" hybrid —anchoring scale, security, and cross-chain interoperability. Leads the design and optimization of modular systems that support ZK Rollups, transaction finality, and decentralized deployment across Bitcoin and EVM environments. He also a director at Quest Global Technologies, a top-ranked blockchain development firm he co-founded, where he has overseen multiple blockchain projects through Quest, giving him insight into best practices and pitfalls to avoid. His role in IBVM is to make sure the "Bitcoin-EVM" functions smoothly and that the overall system architecture scales and remains secure.

- **Alok Agrawal (Co-Founder & CTO):** Alok is the technical driving force of IBVM's implementation. As co-founder and CTO, he oversees the engineering team building the IBVM protocol, L2 network, and associated applications. Alok is also a Director at Quest Global Technologies, a top-ranked blockchain development firm he co-founded. He brings significant hands-on experience from delivering enterprise blockchain solutions worldwide. At IBVM, Alok leverages Quest's resources and talent: under his coordination, a team of skilled blockchain developers, smart contract engineers, and QA testers from Quest have contributed to coding IBVM's core, the mobile wallet, and the DApp store. His ability to manage a large development pipeline and hit milestones on schedule such as testnet and mainnet launches- has been key to IBVM's execution.

- Anthony Jaoui, EX-EY / early builder of the EY blockchain practice in Switzerland and serial entrepreneur, Anthony brings a wealth of institutional rigor and entrepreneurial experience. He is advising IBVM on enterprise strategy, financial structuring and high level networking in the fintech space. His guidance helps bridge the gap between the crypto project and institutional opportunities.

- Alexander Rees-Evans, Advisory board member of the UNDP's blockchain initiative, author of "How to launch a token", co-owner of Fundraisebot and Norm assisting Web3 companies in public listings and ETFs. Alexander helps with Web3 partnerships and GTM strategy.

Other Key Members

Gary Szoka
CFO

Steve Dew
Director HR

David Evans
Marketing

Nikesh Lalchandani
Advisor

Wouter Raasveldt
Advisor

The **team's collective strength** comes from combining academic rigor, real-world blockchain delivery experience, and strategic business thinking. Dr. Sajadi's research background ensures the protocol's design is cutting-edge yet economically sound. Agrawal and Jain's Quest-powered engineering team ensures IBVM's ideas are realized in production-grade code. The advisors provide external perspective and open doors to partnerships. And the operations and community staff make sure the world knows about IBVM and that the project navigates the complex regulatory and market landscape effectively.

IBVM and that the project navigates the complex regulatory and market landscape effectively. It's also worth noting that IBVM's team has a clear passion for Bitcoin's mission. The founders frequently reiterate that IBVM is about enhancing Bitcoin, not competing with it. This philosophy influences the team's development culture – with an emphasis on security (recognizing that any flaw could have serious implications when dealing with BTC), decentralization (actively planning to fully include the community), and openness. As of mid-2025, the core team is dedicated to IBVM's mission, and expected to grow as the network launches and requires ongoing maintenance, customer support, and new feature development.

Notable Early Achievements: The team's competence is demonstrated by what IBVM achieved prior to TGE:

- Building a functional ZK-rollup testnet hitting thousands of TPS and 1-second block times, an achievement few projects worldwide can claim.
- Delivering user-friendly products (mobile wallet & app store) before mainnet – showing a commitment to usability.
- Securing a $20M investment and partnerships, indicating strong external confidence in the team's plan.
- Garnering 100,000+ downloads and active testnet participation, proving the team's marketing and community efforts successfully generated buzz and involvement.

Overall, IBVM's team is its greatest asset. They combine innovation with execution, and ideology with practicality. With the project now transitioning to DAO governance and broader community control, the founding team positions itself more as stewards and core contributors among many, rather than controllers – a stance that again aligns with the decentralized ethos they espouse.

Quest GLT

Pegasus Ventures

Rollman

Smat.io

0xlabs

Ubertas Properties

Legal and Risk Considerations

This section provides a general legal disclaimer and highlights certain risks associated with the IBVM project. It is for informational purposes only and does not constitute legal or investment advice.

- **Not an Offer or Solicitation:** This whitepaper is **not an offering document.** It does not constitute an offer to sell, or the solicitation of an offer to buy, any securities, tokens, or other financial instruments. The IBVM token is intended as a functional utility token for the IBVM network and not as an investment. Nothing in this document is intended to be a recommendation to purchase tokens, and any references to the token's value or potential uses are for illustrative purposes regarding the network's design.

- **Regulatory Uncertainty:** Blockchain projects operate in a complex and evolving regulatory environment. Regulations differ by jurisdiction and may change over time. It is possible that **laws and regulatory scrutiny** (such as securities law, commodities law, tax law, etc.) could impact IBVM's operations or the legal status of the IBVM token. The project team will endeavor to comply with all relevant regulations (including KYC/AML requirements for any token sales or exchange listings), and the IBVM DAO as it participates in governance will also need to be mindful of legal constraints. However, there is a risk that regulatory actions or new laws could restrict certain aspects of IBVM (for example, how the token can be transacted or how the bridge operates) or impose additional obligations on token holders or network participants.

- **Forward-Looking Statements:** The development plans, roadmap milestones, and future features described in this whitepaper are **forward-looking statements.** They are based on current expectations and plans, but are subject to change due to technical challenges, market conditions, funding, community decisions via governance, or other factors. There is no guarantee that all objectives will be realized within the projected timeframe, or at all. Delays or changes are possible. Prospective participants should understand that the project's future performance is not guaranteed to match the ambitious targets outlined here.

- **Technical and Security Risks:** IBVM's technology is complex, involving novel cryptographic proofs, smart contract code, and cross-chain interactions with Bitcoin. **Security breaches or bugs** could occur. While the team is taking rigorous steps (audits, formal verification where possible, bounty programs) to secure the system, no software is infallible. Potential risks include: vulnerabilities in the smart contracts or rollup circuits that could be exploited (leading to loss of funds on L2), bugs in the bridge mechanism that lock or misallocate funds, attacks on the cryptographic assumptions (though zk-STARKs/SNARKs are based on well-studied math), or unanticipated interactions between the IBVM VM and Bitcoin's UTXO layer. Moreover, if the IBVM sequencer is initially centralized, there is some risk of censorship or downtime; the project mitigates this by plans to decentralize the sequencer and by the fact that Bitcoin L1 can always halt an invalid state. Users must recognize that using a new Layer-2 carries inherent risk compared to using Bitcoin L1 directly. Only risk funds that you can afford to lose, especially in early network stages.

- **Market and Economic Risks:** The IBVM token's value and the usage of the network will be subject to market forces. Cryptocurrencies are **highly volatile**, and even with a strong utility, the IBVM token could experience large swings in price. There is no guarantee of any return or profit from holding IBVM tokens. Additionally, the success of IBVM depends on network effects – it needs a critical mass of users, developers, and liquidity to thrive. It's possible the project may not achieve sufficient adoption, or competitors could emerge and limit IBVM's traction. Early token investors and participants should be aware that the token could depreciate in value, and liquidity might be limited (especially before broad exchange support). The economic models (like fee structures or token incentive issuance) might be adjusted by governance if initial parameters are suboptimal, which could also affect token dynamics.

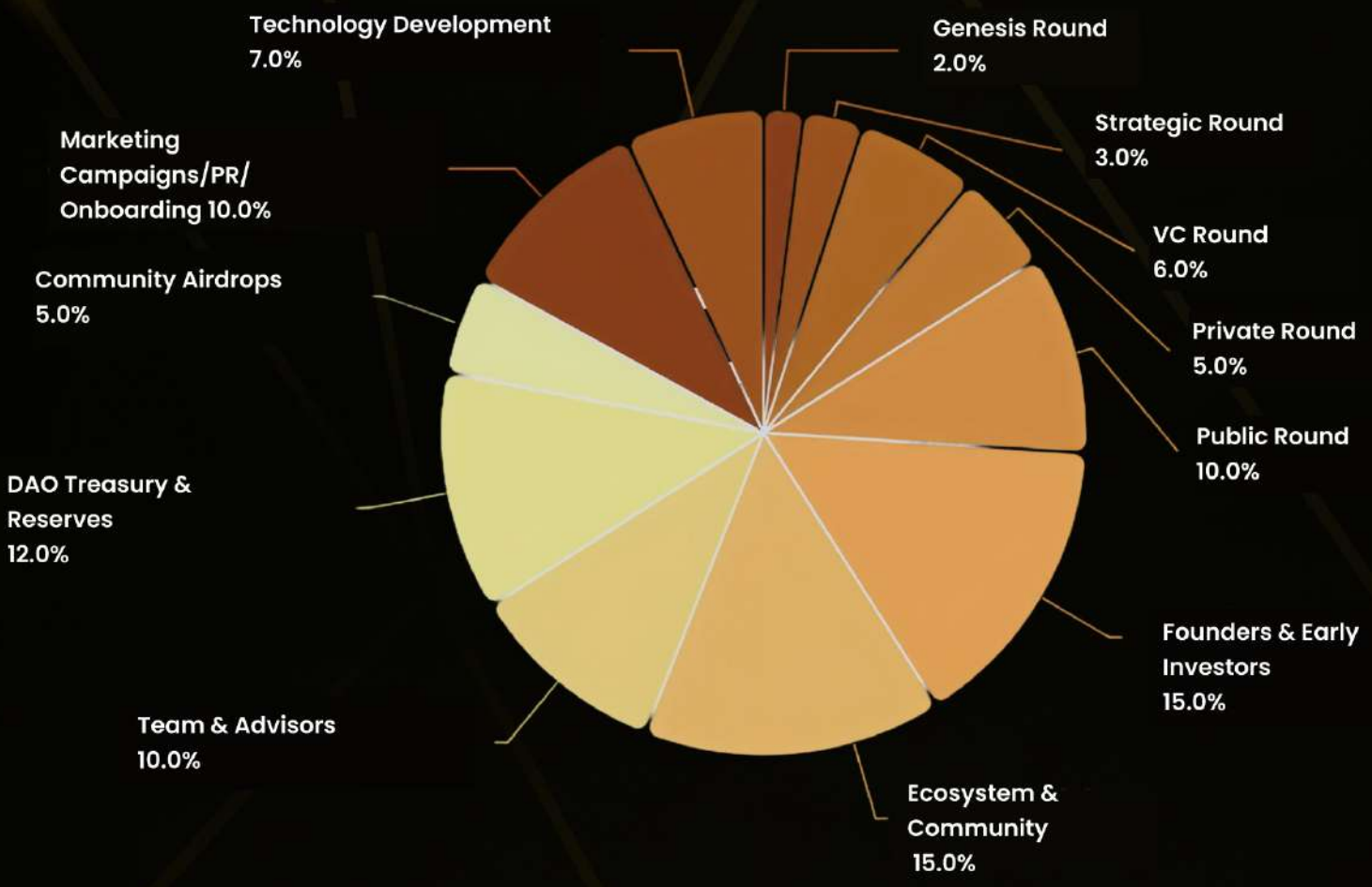
- **Personal Responsibility:** Users of IBVM (for example, those bridging BTC into L2, or interacting with IBVM smart contracts) must exercise due caution. Keep your private keys secure – using IBVM involves managing your own keys in many cases (through the IBVM wallet or equivalent), and loss of keys means loss of funds. The IBVM team and community will provide documentation and support, but ultimately **users are responsible for their own assets.** Be vigilant against phishing, smart contract scams on the platform, or other fraudulent activities that can arise in any open ecosystem. The DAO will strive to mitigate scams (perhaps via security partners or optional contract audits for dApps), but it cannot eliminate them entirely

- **No Guarantees:** Finally, participating in the IBVM network or holding IBVM tokens **carries no guarantees** of financial gain or even continued utility. The project could be affected by extreme events: e.g., critical bugs, loss of key personnel, lack of funding, or even macro events like a prolonged crypto-market downturn or a major issue in Bitcoin itself (if Bitcoin L1 were to experience unforeseen problems, it would impact IBVM profoundly). All participants should approach IBVM with a long-term perspective and an understanding of the risks involved in cutting-edge blockchain projects.

By reading this document and choosing to engage with IBVM, you acknowledge these risks and uncertainties. The IBVM team and community will make best efforts to deliver a secure, compliant, and valuable network, but cannot guarantee outcomes. Participants should do their own research, consider their risk tolerance, and consult with advisors if needed before making decisions related to IBVM

Appendix A: Tokenomics Details

The table below provides an overview of IBVM's token distribution and vesting. All figures are based on the fixed total supply of **1,000,000,000** tokens:



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Category	% Of supply	Tokens (Millions)	Price	FDV	Notes
First Round – Genesis Round, Community first, Early Adopters, Wallet Holders and Smart Contract partners (Almost sold out)	2.0%	20.0	$0.14	$140,000,000	3m Cliff, 6m Vesting
Second Round – Strategic Partners & Angel investors	3.0%	30.0	$0.20	$200,000,000	4m Cliff, 12m Vesting
Third Round – VC's & Institutional Investors	6.0%	60.0	$0.30	$300,000,000	6m Cliff, 18m Vesting
Fourth Round – Private Round OTC Deals & Large Ticket Private Allocations, VIPs @ Token2049	5.0%	50.0	$0.45	$450,000,000	5m Cliff, 12m Vesting
Fifth Round – Public Round, Listing on top tier Exchanges	10.0%	100.0	$0.60	$600,000,000	-
Founders And Early Investors	15.0%	150.0	-	-	3m Cliff, 48m Vesting
Team & Advisors	10.0%	100.0	-	-	24m Cliff, 48m Vesting
Ecosystem & Community	15.0%	150.0	-	-	6m Cliff, 12m Vesting
DAO Treasury & Reserves	12.0%	120.0	-	-	3m Cliff, 12m Vesting
Community Airdrop	5.0%	50.0	-	-	6m Cliff, 12m Vesting
Marketing(Campaigns/PR/ Onboarding)	10.0%	100.0	-	-	3m Cliff, 24m Vesting
Technology Development	7.0%	70.0	-	-	3m Cliff, 24m Vesting
Total	**100.0%**	**1,000.0**	**Target Amount to be Raised $109,300,000**	-	-

IBVM

Thankyou

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