23 May 2025

Abstract

Barin Mineral Token (BARIN) is a pioneering utility token designed to bridge the traditional mineral mining industry with the transformative power of blockchain technology. Built on the Polygon network and spearheaded by seasoned mining and logistics professionals, BARIN enables global participation in mineral production, processing, and trade through a transparent, decentralized, and inclusive ecosystem. By tokenizing real-world mineral assets, the project lowers entry barriers, promotes sustainability, and introduces innovative investment mechanisms such as staking, NFTs, and DAO-based governance, all aimed at powering green industries and reducing dependence on fossil fuels.

With a fixed supply of 1 billion tokens and no private or public sale, BARIN will launch fairly through a direct CEX listing, ensuring equal market access and minimized sell pressure. The project roadmap outlines a rapid progression from smart contract deployment and platform beta release to strategic partnerships with logistics firms, CEX/DEX liquidity provisioning, and NFT marketplace integration. Through the combination of smart contracts, DeFi tools, and ESG-aligned traceability features, BARIN reimagines how minerals are financed, verified, and traded, setting a new standard in the tokenization of real-world assets.

Overview

Barin Mineral Token (BARIN) is a Polygon-based **utility token** project that aims to revolutionize the production, processing, and trading of mineral assets through blockchain technology. By tokenizing real-world mineral commodities, BARIN opens the traditionally opaque mining industry to **global investor participation**, creating a decentralized and transparent ecosystem for financing and trading mineral resources. The project focuses on supporting sustainable industries (such as renewable energy and electric vehicles) by providing a platform where ethically sourced minerals can be traded with accountability and efficiency.

Founded by an expert in mineral exports and logistics, Saman M.Parsi brings deep industry knowledge into the blockchain realm. The BARIN platform will leverage the founder's experience to streamline mineral supply chains and ensure **logistical transparency**, while utilizing smart contracts to enforce fair practices. The overarching vision is to build an **inclusive mineral mining ecosystem** where investors of any size can participate, and where all stakeholders benefit from improved trust, sustainability, and shared prosperity.

Vision: Tokenizing Mineral Assets for a Sustainable Future

The Foundational Opportunity Behind Barin Mineral Token

While global attention is focused on breakthroughs in artificial intelligence, digital currencies, and the rise of clean technologies, a deeper truth underlies them all:

None of these transformations are possible without critical minerals.

Iron, copper, gold, silver, nickel, lithium, and rare earth elements — these are not just commodities; they are the **physical backbone of the modern global economy.**

From renewable energy infrastructure and advanced manufacturing to blockchain networks and electric mobility,
critical minerals power the global transition toward a more sustainable, digital, and connected future.
They are the real assets behind technological advancement and resilient economic systems.

At Barin, we understand that minerals in the ground are not yet wealth.

They represent **potential** — potential that must be unlocked through expertise, capital, and smart strategy.

Barin Mineral Token is built on this understanding.
We bridge the **tangible value of mineral resources** with the evolving digital economy.
We are building a new financial architecture where **real-world assets — grounded in geology and mining experience — support a tokenized economic system.**

This is not speculation.

This is **value creation — backed by nature, enabled by technology, and led by those who know how to transform raw potential into lasting economic impact.**

The tokenization of real-world assets (RWAs) like mineral commodities is increasingly recognized as a game-changer in finance. Converting physical mineral assets into digital tokens **unlocks liquidity and accessibility** on a global scale. Industry research projects that asset tokenization could reach trillions of dollars in value by 2030, underscoring the significance of BARIN's mission to bridge the gap between mineral wealth and the worldwide demand for sustainable resources. By leveraging Polygon's scalable blockchain, BARIN can provide a low-cost, high-transparency platform ideal for a new generation of commodity investors.

In the traditional mining sector, investments and ownership have been limited to large corporations or specialized funds, with high barriers to entry and often **opaque practices**. BARIN's approach **democratizes access** to the mining industry: any investor can obtain fractional ownership of mineral production streams via tokens, enabling even small stakeholders to support and benefit from ventures that fuel green technologies. This model aligns untapped mineral resources with global sustainability goals – for example, helping fund the extraction of critical battery metals for electric vehicles in an ethical, transparent manner. Most importantly, tokenization empowers mineral resource owners to raise sufficient capital to design and execute fully engineered, scientifically sound, and optimized projects. This approach reduces unnecessary spending and transforms mining ventures into highly profitable and efficient operations.

Advantages of tokenizing mineral assets through BARIN:

- **Transparency & Trust:** Every transaction and ownership record is stored on an immutable blockchain ledger, reducing fraud and enhancing trust among stakeholders. Regulators, investors, and local communities can verify the provenance of minerals and the flow of funds in real time, bringing unprecedented transparency to an industry often criticized for secrecy.
- **Liquidity & Accessibility:** Tokenized mineral assets can be freely traded on digital exchanges, providing liquidity to asset holders and flexibility to investors. This increased liquidity makes it easier for mining projects to access capital and allows investors to enter or exit positions more readily. By lowering investment minimums through fractional tokens, BARIN makes participation in the commodity market **accessible globally**, removing the historical barriers that kept retail investors out of mining ventures.

- **Efficiency via Smart Contracts:** Automated smart contracts streamline the traditionally paper-heavy processes in mining finance. Everything from royalty payments to supply-chain logistics can be handled by self-executing contracts, reducing administrative costs and human error. For example, when a shipment of minerals is delivered, a smart contract could automatically release payment to the miner and update token holders, **eliminating intermediaries** and speeding up settlements.
- **Accountability & Sustainability:** Tokenization provides a **clear, auditable record** of all mining operations tied to the token, ensuring companies adhere to environmental regulations and ethical standards. Community governance (via the BARIN DAO) and transparent data will hold mining projects accountable for sustainable practices, from reducing carbon emissions to preventing illegal sourcing. This system incentivizes compliance with ESG (Environmental, Social, Governance) criteria, aligning mineral production with the expectations of eco-conscious investors and buyers.
- **Inclusive Participation:** By enabling fractional ownership, BARIN broadens investment opportunities to a diverse range of participants, including retail investors who previously had no practical way to invest in mining assets. This democratization means local communities and smaller investors can share in the profits of mineral projects and have a voice in their governance, fostering a more inclusive model of growth. It also diversifies the investor base, bringing in fresh capital that supports responsible and sustainable mining initiatives.

In summary, BARIN's vision is to **bridge the mineral industry with decentralized finance**, creating a win–win scenario: mineral resource owners gain new funding sources and liquidity, while investors gain transparent access to commodities powering the green economy. By marrying blockchain transparency with real-world asset value, Barin aims to drive both profitable and sustainable outcomes in the mining sector.

BARIN Token Utility and Ecosystem

The BARIN token is the **lifeblood of the ecosystem**, designed to encourage active participation and reward contributors while governing the platform. Holders of BARIN will find multiple avenues of utility that integrate the token into all aspects of the mineral trading platform. Key utilities of the BARIN token include:

- **Staking and Rewards:** BARIN holders will be able to **stake** their tokens through the platform's smart contracts to earn rewards. By locking up tokens, participants help strengthen the network's liquidity and commit to its long-term vision. In return, stakers receive **staking rewards** (in BARIN or other incentives) drawn from a dedicated reward pool or a share of platform revenues. Staking not only provides a passive yield but can also confer status benefits; for example, users who stake a threshold amount might gain early access to mineral deal offerings or higher voting power in governance. This mechanism is designed to **incentivize holding** and aligns the community with the project's success.
- **Governance and DAO Participation:** BARIN token holders will collectively govern the ecosystem through a **Decentralized Autonomous Organization (DAO)** framework. Each token represents voting power, enabling holders to propose and vote on important decisions such as platform upgrades, fee structures, new project onboarding, or sustainability initiatives. Governance

proposals might include which mining partnerships to pursue or how to allocate treasury funds for community development. This democratic approach ensures that the project's direction is in the hands of its community of investors and stakeholders. By participating in the BARIN DAO, token holders become stewards of a transparent and **community-driven mineral marketplace**, shaping policies to uphold ethics and profitability in tandem.

- **NFT-Based Services and Access:** The BARIN ecosystem will utilize **NFTs (non-fungible tokens)** to represent unique services and entitlements within the platform. These "service NFTs" could encompass things like logistics services, premium membership perks, or rights to a portion of a mineral shipment. For example, a mining company might issue an NFT that entitles the holder to a certain quantity of future mineral output or access to on-site inspections. Such NFTs can be purchased or earned using BARIN tokens, adding an additional layer of utility for the token. Holders of BARIN might receive exclusive or discounted access to these NFT-based services, such as priority bidding on mineral contracts or reduced fees for assay and certification services.

- **Liquidity and Trading on DEX/CEX:** As a Polygon-based token, BARIN will be readily tradable on decentralized exchanges (DEX) and, eventually, on major centralized exchanges (CEX). Ensuring ample liquidity for the token is a top priority. At launch, BARIN will be listed on leading Polygon DEXs (such as QuickSwap and Uniswap) where users can freely buy or sell the token. Liquidity is further enhanced by the staking mechanism — by locking tokens for rewards, circulating supply is managed in a way that can reduce sell pressure. The goal is to achieve a healthy balance between availability of the token for new investors and **value stability** for long-term holders. Additionally, the BARIN token will be integrated with cross-chain bridges if needed, ensuring that as the project grows, tokens can move to other networks (or Layer-2s) to tap additional liquidity and users.

Through these utilities, BARIN creates a comprehensive ecosystem where the token is not just a passive asset but a **functional key** to engaging with the platform. Whether it's earning passive income, guiding the project's future, accessing specialized services, or trading on the open market, the BARIN token is engineered to have intrinsic value derived from the platform's real-world use cases. This design will appeal to serious crypto investors by providing clear **value propositions** and multiple avenues to participate in the growth of a real-world asset economy.
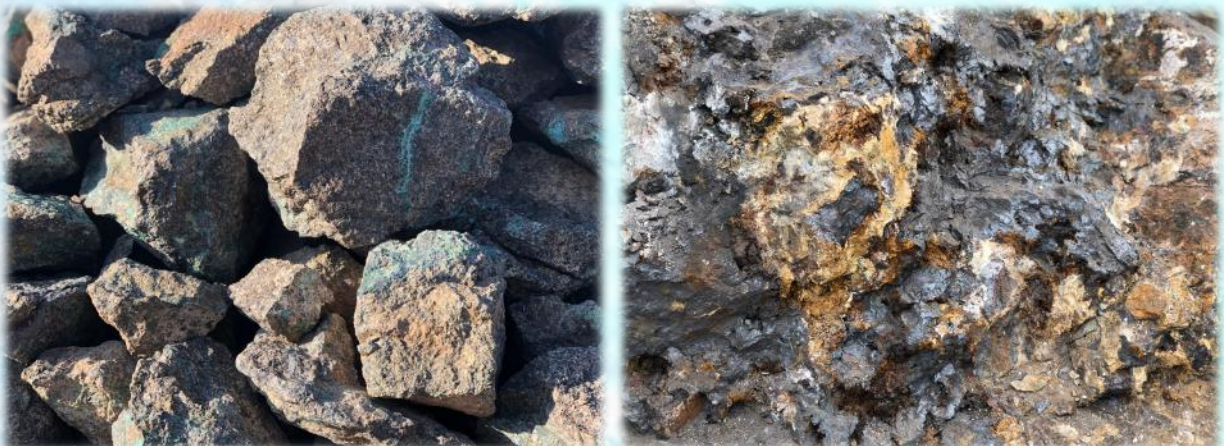
DeFi Integration and Partnership Strategy

To maximize its reach and appeal to DeFi-savvy investors, Barin Mineral Token will integrate with top decentralized finance platforms and services that align with its goals. By leveraging established DeFi infrastructure, BARIN can offer a seamless and secure user experience while benefiting from the liquidity and tools that serious crypto investors expect. The project's integration and partnership strategy includes:

- **Decentralized Exchanges (DEX) Liquidity:** BARIN will initially launch on Polygon's premier DEX platforms. **QuickSwap** (Polygon's native DEX) will host BARIN trading pairs (e.g., BARIN/BTC, BARIN/USDT) from day one, ensuring that early supporters can trade the token with minimal friction. The project will also target **Uniswap v3** deployments on Polygon for additional liquidity, given Uniswap's broad user base and efficient market-making features. By providing incentives (such as yield farming rewards in BARIN for liquidity providers), the project will encourage a deep liquidity pool that reduces volatility and slippage. This DEX-first approach aligns with the decentralized ethos of the project and builds a robust financial foundation.
- **Staking and Yield Platforms:** In addition to native staking, Barin will explore partnerships with popular Polygon yield farming and staking platforms to broaden its reach. For example, integration with **Beefy Finance** (a yield aggregator on Polygon) could allow BARIN liquidity providers to auto-compound their rewards, increasing APY and attracting more participants. The project may also collaborate with platforms like **Balancer** or other DeFi protocols to create specialized pools (e.g., a multi-asset commodity index pool including BARIN) that appeal to investors interested in real-world asset tokens. By being present on these established DeFi platforms, BARIN demonstrates its commitment to transparency and interoperability, which serious investors expect.
- **DAO Governance Infrastructure:** To implement decentralized governance effectively, Barin will utilize proven DAO tools that are secure and user-friendly. The **Aragon** framework (deployed on Polygon) will likely be used for on-chain governance contracts, enabling proposals and votes to be executed transparently on the blockchain. For off-chain voting and community polling, **Snapshot** will be integrated; this allows gasless voting using BARIN holdings, lowering the barrier for token holders to participate in frequent governance decisions. Combined with a **Gnosis Safe** multi-signature wallet for treasury management, these tools ensure that BARIN's DAO is built on **battle-tested platforms** that appeal to experienced crypto users. Leveraging Aragon on Polygon also means governance processes will be low-cost and fast, aligning with the project's need for scalability and broad participation.
- **Lending and Borrowing Protocols:** As the BARIN token matures and gains value, the project will seek integration with DeFi lending markets to further enhance utility. A key target is to list BARIN on **Aave**, one of the largest lending protocols which operates on Polygon. If successful, BARIN holders could use their tokens as collateral to borrow other assets (or vice versa), creating an additional demand driver for the token. Being accepted on a platform like Aave would signal to serious investors that BARIN has achieved a level of credibility and liquidity (since Aave's listings are governed by rigorous risk assessments). Similarly, the project might explore listing on **Compound** or other multi-chain money markets if they expand support to Polygon. These integrations allow sophisticated investors to incorporate

BARIN into portfolio strategies (like leveraging, hedging, or yield generation) – a strong value-add for those coming from a traditional finance background.

- **NFT Marketplace Integration:** BARIN's service and asset NFTs will be made compatible with major NFT marketplaces on Polygon, such as **OpenSea**. This means that if a user holds an NFT representing, say, a right to 1 ton of copper or a logistics service voucher, they could trade that NFT on OpenSea or similar platforms, gaining liquidity for those rights. The Barin platform will include its own intuitive interface for minting and redeeming these NFTs, but by also allowing external marketplace trading, it ensures users have **flexibility** and wider exposure. Partnerships with niche marketplaces that focus on real-world assets or commodities might also be pursued for targeted outreach. Additionally, Barin will consider collaborating with certification bodies or sustainability NGOs to issue NFT-based certificates (for example, proof of sustainably mined materials), which could be verified on-chain – blending industry partnerships with technological innovation.

Through these integrations and partnerships, BARIN will plug into the **wider DeFi ecosystem**, standing on the shoulders of established platforms instead of building everything from scratch. This strategy accelerates development and instills confidence: investors recognize names like Uniswap, Aave, and Aragon and understand that BARIN is compatible with the larger crypto finance landscape. It also aligns with Barin's mission to be **inclusive and interoperable** – embracing other communities and protocols so that the token and the platform remain at the cutting edge of DeFi innovation.

DAO Governance

The BARIN project will begin as a centralized entity and gradually develop into a fully decentralized platform governed by its DAO members via the BARIN token. Creating a community and a functioning governance framework is a massive undertaking. Lest the whole is less than the sum of its parts, it needs to be created carefully with checks and balances.

The decentralisation of the project will be structured in 3 stages as follows:
1. **Early days** - during this period, the team is in full control of the project, and no voting is done. This is because there will be bugs and events which require immediate hotfixes, and this cannot be done really democratically.
2. **Semi-decentralisation** - during this period, the team is still in complete control of the project and can deploy hotfixes same as above, but for the non-urgent decision, it can take community input via a forum or even via off-chain voting like a snapshot

3. **Full decentralisation** - where the project will implement a process following industry best practices, as defined further below.
4. **Token-Based Voting:** Empowering token holders to vote on key platform decisions, including updates, project approvals, and ecosystem changes.
5. **Proposal Submission:** Allowing community-driven initiatives, ensuring platform enhancements are aligned with user needs.
6. **Transparency:** Maintaining open records of voting outcomes and governance actions to foster trust and accountability.

During phases 2 and 3, voting will be done via **vote escrowed (ve) tokens**[1]. VE tokens were first pioneered by Curve[2] and later adopted by multiple large protocols such as yEarn and Balancer[3] to great success.

In a nutshell, ve tokens are locked for a very long duration, granting a huge increase in voting power, to the person locking the tokens. The interesting thing about the system is that the locked tokens do not necessarily need to be the project tokens themselves. Instead they can be a derivative of the project token. For example when Balancer does ve, the tokens used are the LP tokens from the 80/20 BAL/ETH pool[4].

We will use a similar system, where derivate tokens based on the user contributions (M) described in the reward section can be used for ve.) described in the reward section can be used for ve.
- C_x from token staking
- C_x from LP staking
- Land NFTs represented as an equivalence of 500 C_x

Additionally, in order to avoid system centralisation and collusion, the voting will be done via quadratic voting[5]. This means that the final voting power that a user has grows slower and slower the more tokens they have. More formally:

$$VP = \sqrt{C_x \times M}$$

Where:
- VP is voting power
- C_x is the user contribution as defined in the rewards section, for each contribution individually
- M is a duration based multiplier is a duration based multiplier

We can then define M as follows:

$$M = 1 + 0.004 \times D^2$$

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[1] https://bowtiedisland.com/vote-escrowed-tokens-vetoken-the-good-the-bad-the-ugly/
[2] https://curve.readthedocs.io/dao-vecrv.html
[3] https://cryptobriefing.com/balancer-jumps-following-vote-escrow-system-launch/
[4] https://forum.balancer.fi/t/introducing-vebal-tokenomics/2512
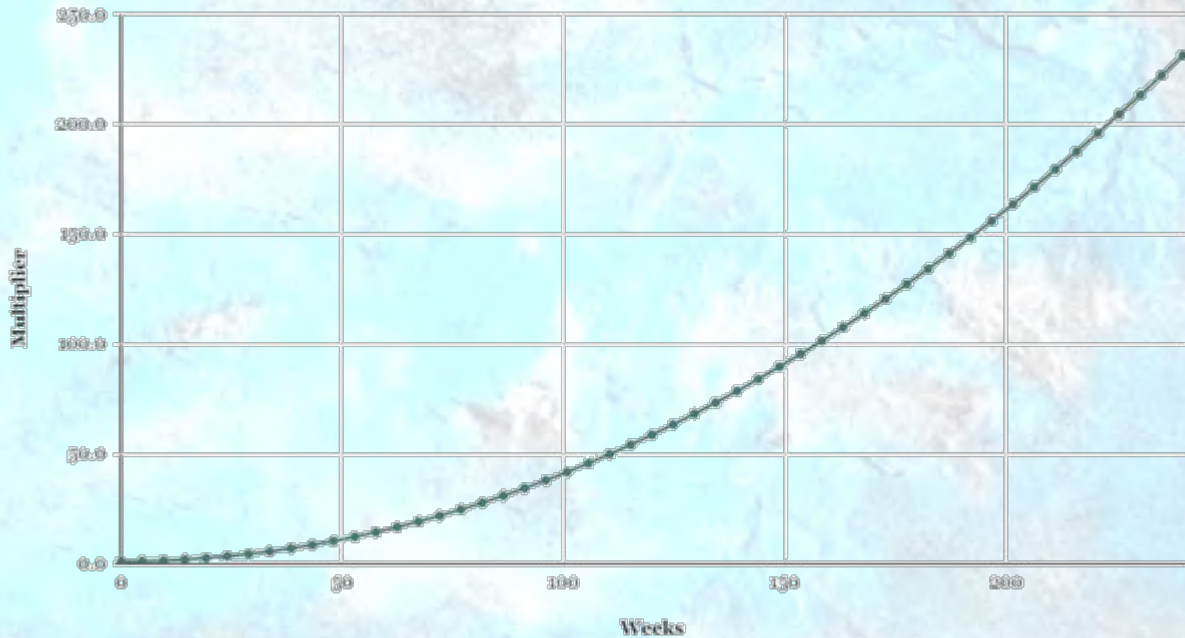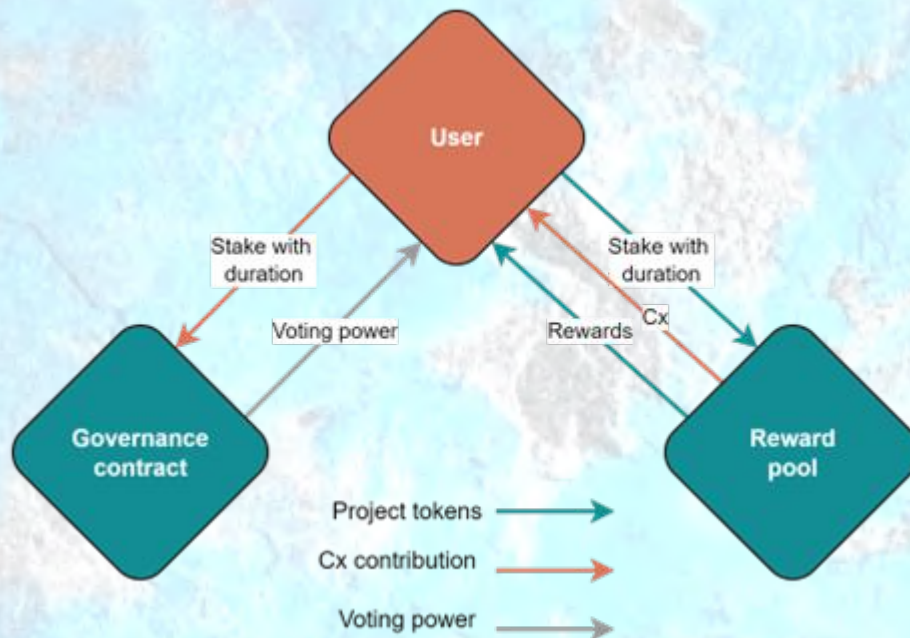[5] https://towardsdatascience.com/what-is-quadratic-voting-4f81805d5a06

Where (D) is the duration of the stake in weeks, this gives us the following multiplier curve based on duration.

Here is depiction of the whole process:

The above setup has several very desirable properties:
- Voting becomes an extension of the regular staking, which means that stakers and voters are both awarded from the same pool.
- Voting does not provide any additional rewards compared to just staking, thus making sure that only people who are interested in governing the system would participate, since it requires a much longer token lockup.

- Voting tokens become "double locked", once via staking and then a second time for voting, making sure they are taken out of circulation long term.
- It allows us to have significantly more aggressive multipliers for voting, since they are not impacting the rewards received.
- Loyal users (those who both lock their staking and their voting long term) benefit significantly from both multipliers.

During Phase 3, suggesting and implementing a proposal will closely follow UniSwap's[6] governance process, with tweaked parameters.

Community Building:
- **Educational Outreach:** Hosting frequent webinars, tutorials, and workshops to educate investors and project creators on decentralized fundraising.
- **Engagement Strategies:** Active presence on Discord, Twitter/X, and LinkedIn, supplemented with AMAs and community engagement programs.
- **Incentive Programs:** Offering referral bonuses, staking rewards, and participation-based community bounties.
- **Strategic Partnerships:** Collaborating with DeFi projects, NFT marketplaces, and blockchain ecosystems to enhance platform utility and adoption.

Scope

The DAO will be responsible for the project's development roadmap and monetary policies. The technical improvements to the protocol will be reimbursed via the Treasury. The DAO is entitled to issue grants and spend the funds of The Treasury as was decided via an unbiased governance vote for any community-building initiatives, competitions, technical improvements, etc. The fee rates, development of public and plots, event organisations, game development roadmap will be proposed and voted by the DAO.

Roles and responsibilities

The DAO comprises general community members, Stewards, and Council members - each of them fulfilling a unique role to drive the protocol forward and provide safeguards in the governance system.

Stewards/Delegates - Stewards are elected reputable members of the DAO, responsible for facilitating proposal creation and voting. Any proposals without proper format or links of origin should be removed by the Stewards if not amended. Members can delegate their voting power to Stewards to vote in their name. Stewards can be implicated by members in improper behavior and penalized by slashing their staked tokens. Systematic rule-breaking can lead to a Steward being voted out of their role permanently. Report cards are recommended for the role, showing their voting activity, total Voting Power, and created proposals.[7] Stewards are responsible for ratifying off-chain votes by recording the decision on-chain and alerting the Council Members to execute the decision after a timelock duration.

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[6] https://gov.uniswap.org/t/community-governance-process/7732
[7] https://www.daostewards.xyz/

Council Members - Council members will initially be 5 developers/members of the project, tasked with auditing proposals and their code changes to ensure they do not pose a security risk to the platform. Council members have the prerogative to pause or cancel proposals they find detrimental to the project's functionality and users. In order to cancel a voted decision, (5-1) Council Members will have to sign a multisign contract to take action. In the majority of cases, the expectation is that proposals will not be malicious and will not contain critical vulnerabilities. The Council Members will implement all voted proposals after they successfully pass the audit.

Governance Process

The processes of proposal creation and voting will be facilitated by tools in addition to the special roles already described earlier in this document. Every proposal will be conceptualized and discussed initially in the community Discord and forum. While off-chain voting of proposals will happen in a customized ready solution - Snapshot, on-chain governance can be custom-made or leverage Aragon in integration with Snapshot.

Phase 1: Signaling Proposal

1. A user starts a thread in the community of Barin Mineral Token. If they are eligible, they draft a signaling proposal on Snapshot with an adequate title containing [Signal] at the start or end of the title. The proposal should adhere to a comprehensive draft standard, which illustrates the proposal, its benefits, technical feasibility (if applicable), and potential downsides. The poll post should also contain a link to the forum discussion and any other applicable resources. Signaling proposals require a minimum of 0.01% of delegated VP to be created. If the author of the thread does not meet the requirements to create signaling polls, another community member with enough VP can do it for them or delegate their tokens to the author. Stewards can also assist authors in this, but it is not a mandatory part of their role.
2. The user is responsible for promoting the proposal and facilitating productive discussion. Concerns are addressed and improvement suggestions are gathered. A signaling post should be linked in the forum discussion by their author.
3. The community votes on the signaling proposal and if an option other than "No/Make no change" has a plurality (highest number of votes), it can move on to the next stage. Voting lasts for up to 3 days. The proposal will need to gather quorum in order to be considered valid. A quorum for a signaling proposal is 1% of voting power available on Snapshot. If that threshold is not reached, the proposal is considered rejected regardless of votes cast among options. This type of voting is suitable for Yes/No votes[8] as well as multiple options[9].

Phase 2: Change Proposal

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[8]https://signal.curve.fi/#/proposal/0x15fae2fb5f07ef6b94db2496a5a26ba8cd331a0460365b15a648eac2726c1d11

[9]https://snapshot.org/#/sushigov.eth/proposal/0xed9b41b36631a1694db83deebb126d2cb8151aa09ad93d4bd5dd9a0d46892f47

1. After a successful signaling proposal, the creator of the proposal takes the most popular feedback left on it to enhance the final version of the proposal.
2. A change proposal is posted for community vote with a [#TAG] of the type of proposal - [#GRANT], [#UX], [#TOKENOMICS]. The categories can change as the community evolves - more categories can be created and others removed. The proposal should explain the value it will bring, in brief, the technical feasibility, all resources needed for the implementation (e.g. developers, days, budget), any potential downsides, and links to the forum discussion and signaling post. Any change proposals, which do not contain all mandatory elements will be flagged by Stewards and removed within 24hrs, if not corrected.
3. The change proposal needs to pass a quorum requirement of 5% of delegated VP cast in total, so it can be considered valid. A proposal is considered "passed" if it garners the support of 50%+1 of the cast VP for trivial changes and 67% of cast VP for major changes. A major change is any item that critically impacts the project's monetary policy and security measures, e.g. new in-game reward structure for players, public land development initiatives, etc..
4. Voting lasts for 5 days. Proposals that are improperly indicated will be removed by the space admins. If a proposal passes, depending on the change it presents, it will be actioned by the senior community members or the respective group hired to do the change, in case of development or other changes which cannot be executed fully by the community.

Phase 3: Execution

1. Stewards pick up the winning option and ratify the vote by recording it on-chain in the governance contract. It enters a timelock of 2 days, allowing Council Members time to review it.
2. After the security review is passed, Council Members implement the decision voted on by the DAO.
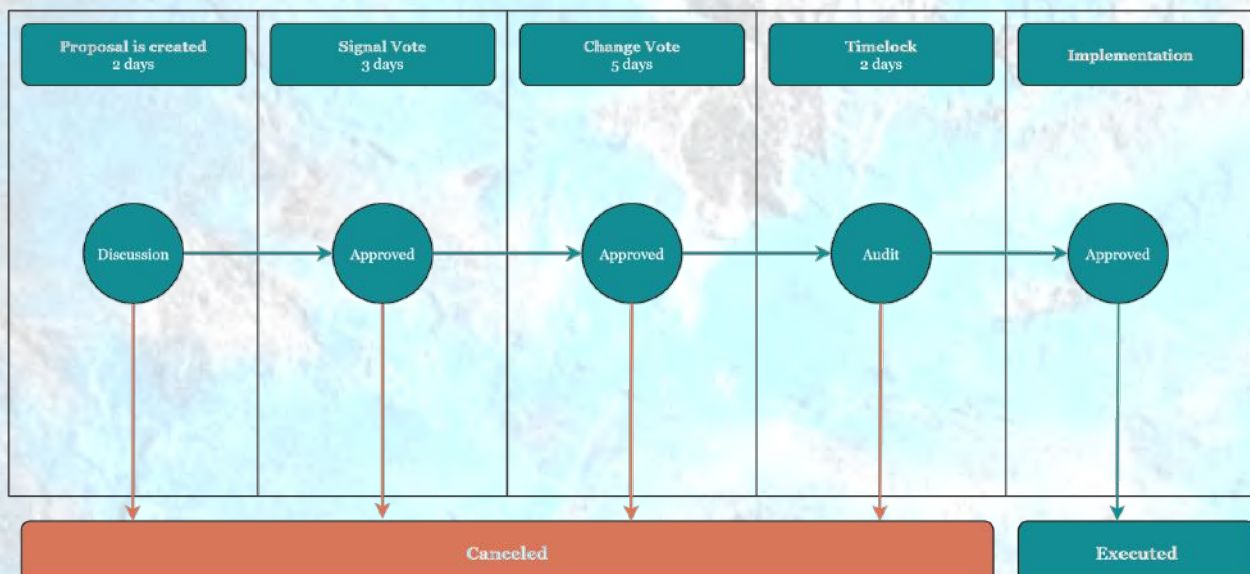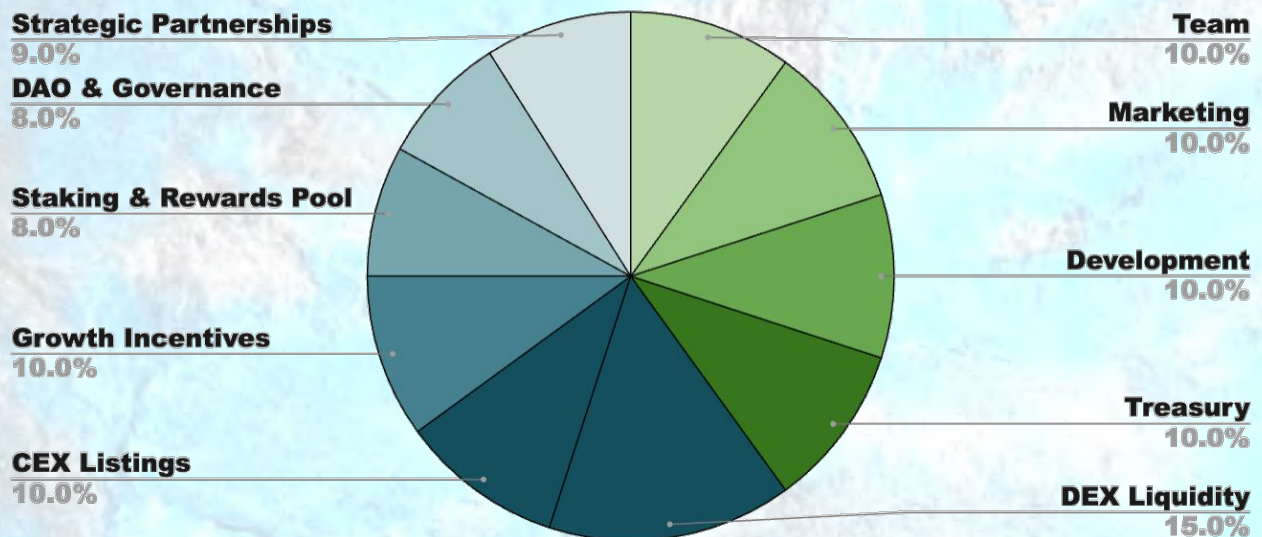
Sale Financials & token generation event

Barin Mineral Token (BARIN) will have a fixed supply of **1,000,000,000 tokens** with a carefully structured distribution and vesting model to promote long-term sustainability. Only a portion of the supply will be unlocked at the **Token Generation Event (TGE)**, with the rest released gradually over time according to a transparent vesting schedule. BARIN will be listed on both **decentralized and centralized exchanges** post-TGE, ensuring **early liquidity, price discovery, and access** for the global crypto community while safeguarding against short-term volatility.

Basics	
Ticker:	BARIN
Sale Denomination currency:	USD
Jurisdiction:	Canada
Eligibility:	Subject to KYC and AML
Sale stages:	1
Sale start date:	16th June 2025
Accepted currencies:	USDT

Tokenomics model

Token Allocation

- Strategic Partnerships 9.0%
- DAO & Governance 8.0%
- Staking & Rewards Pool 8.0%
- Growth Incentives 10.0%
- CEX Listings 10.0%
- Team 10.0%
- Marketing 10.0%
- Development 10.0%
- Treasury 10.0%
- DEX Liquidity 15.0%

The token allocation is designed to support long-term growth, incentivize adoption, and align community, team, and strategic stakeholders. Below is the revised token allocation:

Token allocation					
Category	Alloca-tion	Listing Release	Cliff (Mths)	Vesting (Mths)	Details
Team	10%	0%	12	24 (linear)	Allocated to the founding and core team for their contributions and long-term vision.
Marketing	10%	15%	1	12 (linear)	Used for global campaigns, user acquisition, PR, and brand building decided via DAO.
Development	10%	20%	3	24 (linear)	Funding continued platform development, technical infrastructure, and upgrades.
Treasury	10%	0%	6	18 (linear)	Reserved for unforeseen needs, partnerships, and long-term protocol sustainability decided via DAO.
DEX Liquidity	15%	50%	0	12 (linear)	Allocated for liquidity provisioning on decentralized exchanges.
CEX Listings	10%	35%	0	12 (linear)	Reserved for Coinstore and future centralized exchange listings and liquidity.
Growth Incentives	10%	10%	0	9 (linear)	Community rewards, user engagement, airdrops, and adoption-driving programs decided via DAO.
Staking & Rewards Pool	8%	10%	0	36 (non-linear)	Distributed via staking rewards and ecosystem incentives. Non-linear algorithmic release.
DAO & Governance	8%	0%	1	24 (linear)	Controlled by the community for funding proposals, grants, and DAO-driven initiatives.
Strategic Partnerships	9%	10%	6	12 (linear)	Incentives for onboarding mining firms, logistics providers, and green industry buyers. Performance-based documented through MOUs & formal Agreements.
Totals	**100.0%**				

Total Supply: 1,000,000,000 BARIN tokens (100%)
TGE Unlock: 17.7% of tokens will be unlocked and in circulation at the time of the Token Generation Event.

Token Vesting Schedule

Circulating Market Cap Growth
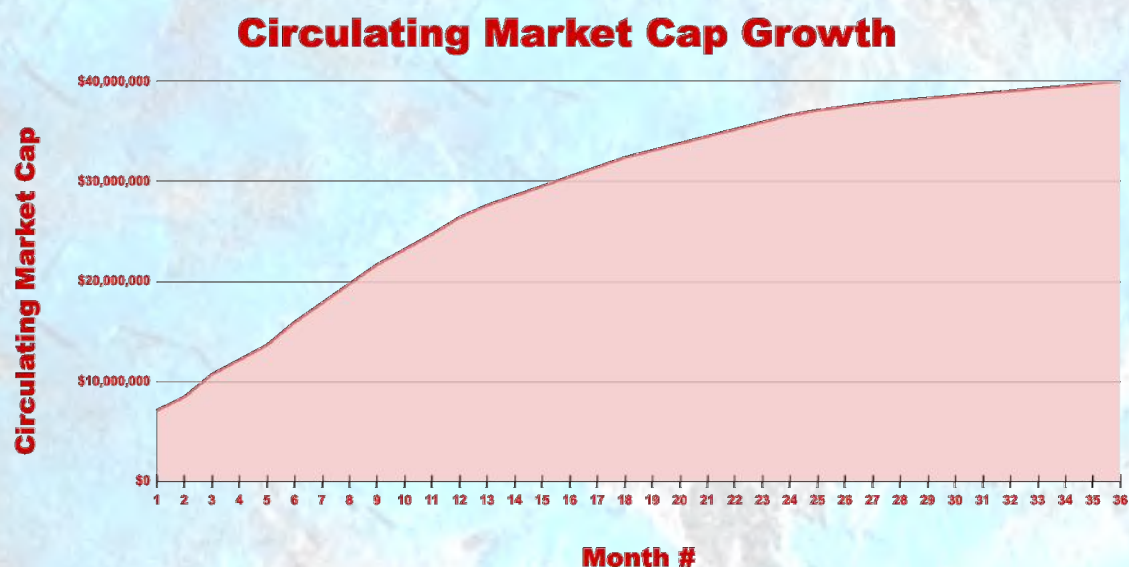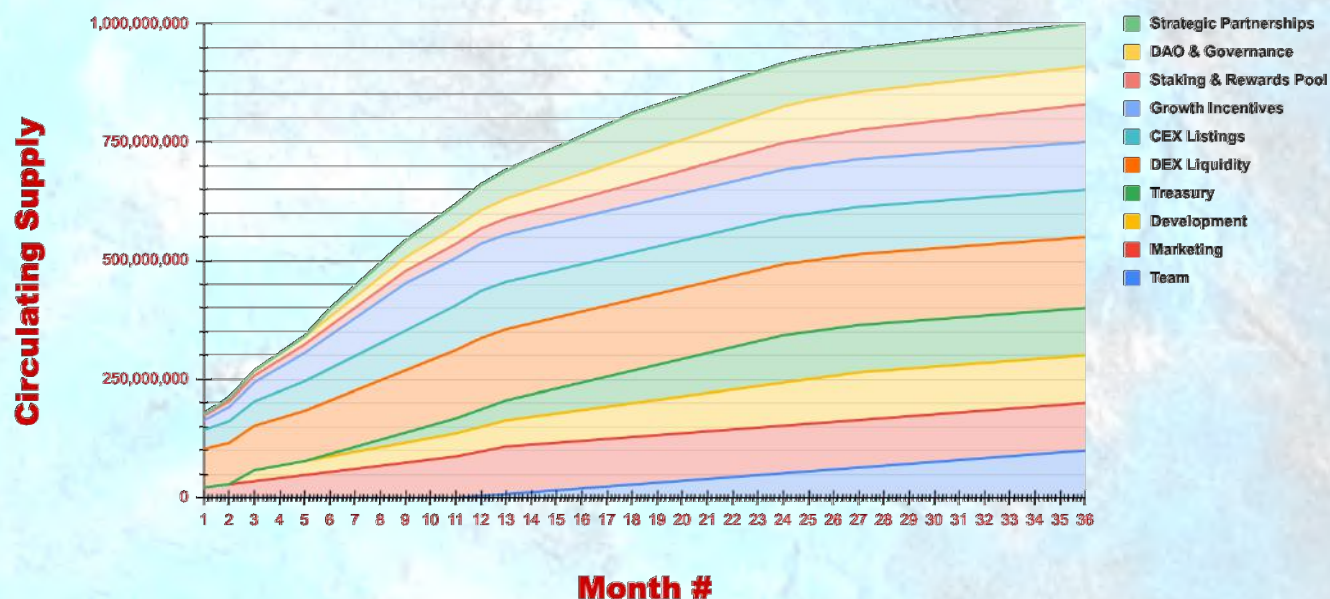
Key Considerations:

- Fully unlocked supply ensures transparency and equal market opportunity from day one.
- Designed for robust circulation, utility use, staking, liquidity, and community involvement.
- Reduces sell pressure as tokens are fairly distributed and no early investors hold large discounted allocations.
- Encourages genuine long-term holders and ecosystem participants rather than speculative dumping.
- Aligns with decentralized principles by avoiding tiered investor advantages and promoting equitable launch.

ROADMAP

Q2 2025
- BARIN token development
- Website & whitepaper launch
- Token Generation Event (TGE)
- DEX & CEX listings
- Staking portal launch

Q3 2025
- Platform beta launch
- DAO formation
- Pilot service NFT issuance

Q4 2025
- Expand exchange access
- Onboard green industry buyers
- Enhanced traceability

Q1-2 2026
- DAO treasury activation
- NFT marketplace launch
- Logistics partnerships

2027 and beyond
- Scaling & decentralization
- Regulatory compliance
- Continuous innovation

The roadmap for BARIN is carefully crafted to guide the project from conception through full platform maturity, with clear milestones that will appeal to investors focused on real-world asset tokenization. Each phase of development emphasizes technical progress, community building, and partnerships, particularly with sustainable industry stakeholders. Below is an overview of the anticipated timeline and key milestones:

Timeline	Milestones
Q2 2025	- Finalize BARIN token smart contract development and **security audit** completion. - Launch official website, publish whitepaper, and begin community building (social channels, developer outreach). - Early partnership discussions with mining companies and logistics providers to onboard pilot projects. - **Token Generation Event (TGE)**: Mint and distribute BARIN tokens; commence

Timeline	Milestones

public sale/IDO for broader investor participation.
- List BARIN on Polygon DEXs (QuickSwap/Uniswap) with initial liquidity pools; kick off liquidity mining rewards for early liquidity providers.
- List BARIN on Coinstore CEX leveraging Coinstore's global user base of 10,000,000+ for instant market exposure
- Launch the BARIN **Staking Portal** for early adopters to stake tokens and earn inaugural rewards.

Q3 2025
- **Beta launch** of the Barin platform, including a dashboard for tracking tokenized mineral assets and pilot implementation of supply chain tracking (e.g., QR-code or IoT integration for mineral shipments).
- Formation of the **BARIN DAO** governance structure: introduce governance forums, and hold the first community proposal vote (for example, on which sustainable mining project to tokenize first).
- Pilot issuance of the first service NFTs – e.g., an NFT representing a portion of output from a partnered mine or a logistics service token – to demonstrate the NFT functionality within the ecosystem.

Q4 2025
- Expand exchange access with a **centralized exchange (CEX) listing** for BARIN (targeting at least one reputable global exchange to increase market reach).
- Onboard the first **green industry buyers** onto the platform – for instance, electric vehicle battery manufacturers or renewable energy firms commit to trial purchases of tokenized minerals via BARIN, reinforcing the ecosystem's focus on sustainable supply chains.
- Implement enhanced **traceability features**: every batch of minerals tokenized on the platform is now linked with on-chain certificates (potentially as NFTs) verifying its ethical sourcing and environmental compliance.

Q1-2 2026
- **DAO Treasury activation**: Allocate a portion of tokens and/or fees to a community-managed treasury; initiate a grant program for funding sustainability improvements in mining.
- Roll out the full **NFT marketplace integration** on the Barin platform, allowing users to create, trade, and redeem NFTs that represent mineral contracts or service vouchers. This includes a user-friendly interface and partnership with major NFT marketplaces for visibility.
- Establish formal **partnerships with logistics and refining companies** who agree to accept BARIN tokens (or NFTs) for their services. For example, a shipping partner might accept a BARIN service NFT for transporting a certain quantity of ore, adding real utility to the tokens/NFTs.

Q3 2026
- Pursue integration with a major **DeFi lending platform** (e.g., submit a proposal to Aave governance to list BARIN as a collateral asset, highlighting BARIN's stability and asset-backed nature to the community).
- **Global expansion of mineral offerings**: Tokenize additional types of mineral assets (such as rare earth metals or industrial minerals) beyond the initial pilot commodity, expanding the platform's market. New mining partners from different regions (Africa, Asia, etc.) are onboarded, increasing diversification.
- Host the first **annual governance summit** (virtual or in-person) for BARIN

Timeline	Milestones
	stakeholders, reviewing the platform's progress and discussing proposals. This reinforces transparency and community engagement with key partners, and advisors.
Q4 2026	- Achieve **full platform launch**: the Barin platform exits beta with a production-ready system. All core features (token trading, DAO governance, NFT marketplace, traceability dashboards) are live and refined based on user feedback. - **Major partnerships & recognition**: Secure MOUs or contracts with large-scale industry players (for example, a major electronics manufacturer agreeing to source certain raw materials via BARIN's platform). - Implement a **token buyback or burn mechanism** using a percentage of platform fees if approved by DAO – this will mark a transition into a more **self-sustaining economic model** that continually drives value to token holders.
2027 and beyond	- **Scaling and Decentralization**: Transition more governance control entirely to the community, with the founding team gradually decentralizing decision-making as the ecosystem proves stable. Continue to onboard mines and buyers across continents, increasing the volume of tokenized mineral trades. - **Regulatory compliance & leadership**: Work proactively with regulators to ensure BARIN's model remains compliant (utility token not a security) and potentially set industry standards for tokenized commodity trading. The project aspires to be a thought leader in the real-world asset tokenization space, publishing transparency reports and best practices for ESG in mining. - **Continuous innovation**: Explore technical upgrades (such as moving to Polygon's next-gen solutions or Layer-2 rollups for greater throughput) and new features like insurance pools for mine projects, or integration of **commodity price oracles** for real-time market data. The platform will evolve with technology and market demands, ensuring that BARIN remains at the forefront of the sustainable mining finance revolution.

Note: The above roadmap is subject to adjustment as the project progresses. Timing of exchange listings and partnerships depends on external approvals and market conditions, but the focus remains on steady development and delivering tangible value at each phase.

Monetary and Fiscal policies

Revenue Model and Token Value Flow

A miner watches a blast hole drill bore into a boulder at the Kibali Gold Mine in Haut-Uele Province, Democratic Republic of Congo, on October 7, 2021.

BARIN's revenue model is designed around the real-world activities of mineral production and the digital platform services, creating multiple streams of income that both sustain the project and drive value to the BARIN token. The focus is on **platform-generated revenue** and mechanisms to channel that value back into the ecosystem, benefiting token holders and supporting token demand. Key components of the revenue model include:

- **Transaction Fees on the Platform:** All trades and exchanges of tokenized mineral assets on the Barin platform will incur a small **transaction fee**. For example, a 0.5% fee might be charged on every successful trade of a mineral-backed token or on the exchange of service NFTs. These fees can be paid in BARIN (or another designated token), but there will be incentives (such as a discount) for paying fees in BARIN, creating direct demand for the token. A portion of these fees will go towards the platform's operational revenue, and a portion can be funnelled into the DAO treasury or used to **buy back BARIN tokens** from the market (subject to governance decisions). By having a built-in fee mechanism, the platform ensures a steady revenue stream as trading volume grows, effectively monetizing the liquidity and activity on the network.

- **Mineral Sales Commissions:** When actual minerals or commodity contracts are sold through the platform (for instance, a mining company selling a portion of its future output to a buyer via a tokenized contract), Barin will earn a **commission** on the transaction. This could be structured as a small percentage (e.g., 1–3%) of the notional value of the deal. Such commissions reflect the value-add of the platform in connecting sellers and buyers with transparency and lower friction. Commissions might be collected in fiat or stablecoins from industry buyers, but the platform will periodically convert a share of these earnings into BARIN (for example, to distribute as staking rewards or to fund buy-backs). This way, real-world business activity (mineral sales) translates into value accrual for the token economy. As Barin forges partnerships with **green industry buyers** (who purchase

minerals for EVs, solar panels, etc.), the volume of these sales is expected to grow, directly boosting platform revenue.

- **NFT Sales and Service Fees:** The issuance of NFTs for services or asset certificates provides another revenue avenue. Whenever a **service NFT** is minted (say a mining company issues 100 NFTs each representing the right to 1% of a mine's output, or a logistics provider issues an NFT for a discounted bulk shipping service), the platform can charge a **minting fee** or listing fee. Additionally, if these NFTs are traded on the platform's integrated marketplace, a **royalty fee** (for example, 2% on secondary sales) can be collected. These fees not only encourage a vibrant marketplace (by rewarding the platform for facilitating trades) but also can be configured to reward original issuers (e.g., miners) with a cut, aligning incentives. Importantly, many of these NFT-related fees can be denominated in BARIN to reinforce token utility. For instance, participating in certain exclusive NFT sales might require paying in BARIN or holding a certain amount of BARIN, thereby driving token usage. The **NFT benefits** extend to users as well: holders of certain premium NFTs (like a "Verified Green Miner" badge NFT) might get *reduced platform fees* or higher staking yields, which encourages users to acquire these NFTs and, by extension, use BARIN tokens to do so.

- **Token Demand Drivers:** Beyond direct fees, BARIN's model creates *indirect* value capture for the token through utility and necessity. For example, **membership stakes** – industrial participants (like mining firms or buyers) might be required to hold a certain amount of BARIN tokens to unlock full platform functionality or favorable fees (similar to how some exchanges require holding their token for benefits). This **lock-up demand** means that as more real-world entities join the ecosystem, a greater number of tokens are taken off the market for strategic holding. Additionally, governance participation by institutional players (such as a large commodity trading firm that wants a say in platform rules) could drive them to accumulate BARIN to increase their voting influence. These drivers ensure that as the platform's **user base and transaction volume grow**, the **demand for BARIN tokens increases**, reflecting the platform's success in the token's valuation. The project may also implement **token burn programs** where a percentage of revenues (from fees or commissions) is periodically used to buy back BARIN from the open market and *burn* (destroy) it, reducing supply. Such a mechanism, if adopted via DAO governance, would directly tie platform financial performance to token scarcity, benefiting all holders in the long term.

- **Value Distribution (Staking Rewards & Treasury):** The revenue model also considers how value flows back to the community. A portion of the platform's revenues (fees, commissions, etc.) will be allocated to sustain the **staking rewards pool** beyond the initially allocated tokens. This means that as the platform makes money, it can continue

rewarding those who stake BARIN, effectively sharing success with loyal participants. Moreover, funds in the **DAO treasury** (accumulated from fees or a reserve allocation) can be utilized for token buy-backs, community grants, or funding initiatives that improve the ecosystem (subject to DAO votes). For example, the DAO could vote to use some treasury funds to subsidize transaction fees for a period (to boost adoption), or conversely, to invest in a new technology that enhances the platform. In all cases, the transparent nature of blockchain will allow token holders to see how revenue is being used or distributed, ensuring accountability. Over time, this model aims to create a **self-reinforcing economy**: increased platform usage generates revenue, which is then used to improve the platform and reward token holders, thereby attracting more users and further usage.

- **The Green Transition: Powering the Future with Our Own Resources:** Following the successful investment into our mineral mining operations, our long-term vision is to evolve into a vertically integrated green energy ecosystem. The next strategic phase involves reinvesting capital into the development of renewable energy infrastructure, specifically **solar power plants**, to provide a **sustainable and cost-efficient source of electricity**. This not only enhances the operational efficiency of our mining activities but also lays the groundwork for energy independence. In parallel, we aim to establish battery manufacturing capabilities, focusing on **electric vehicle (EV) batteries** and other emerging technologies aligned with global clean energy trends. By integrating mineral extraction, renewable energy generation, and battery production within a unified ecosystem, we create strong cross-sector synergies, unlock new revenue streams, and significantly boost our ESG profile. This vision ensures long-term sustainability and positions our project at the forefront of the global transition to a low-carbon economy, a compelling narrative for long-term investors and strategic partners.
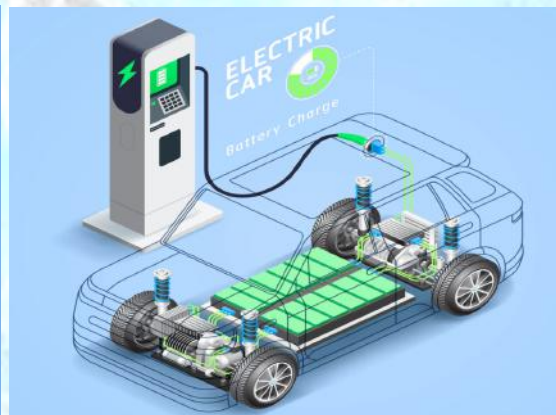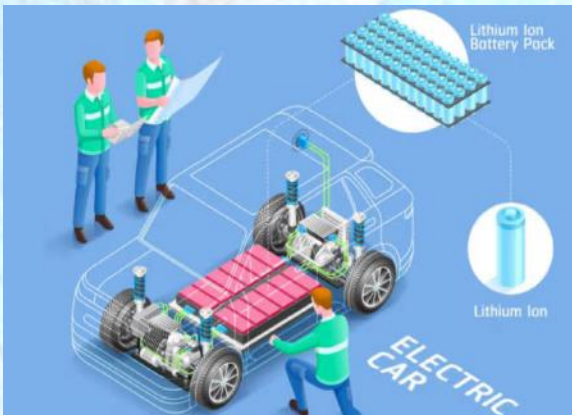
In summary, BARIN's revenue model combines **transaction-based revenue** (scaling with usage) and **token-centric value strategies** to ensure that the platform is financially sustainable while the token retains strong intrinsic value. By tying platform success to token demand (through required usage and buy-back mechanisms) and by recycling revenue into community incentives, BARIN aligns the interests of the business (platform profitability) with those of the token holders. This alignment will be critical in attracting investment from crypto investors, RWA (real-world asset) tokenization funds, and environmentally conscious DeFi communities that seek both financial return and positive impact. Barin's model ensures that growth in **sustainable mineral trading** directly benefits its community of token holders, creating a virtuous cycle supporting both the token price and the platform's mission.

Legal & Disclaimer

This section outlines important legal considerations and disclaimers regarding the BARIN token and the information presented in this whitepaper:

- **Utility Token (Not a Security):** BARIN is intended to be a **utility token** that provides access to the Barin platform's features (such as staking, governance, and service NFTs). It **does not represent equity, ownership, or shares** in any company, mine, or asset. Holding BARIN does not entitle one to a share of profits or revenues in a guaranteed way, and the token is not designed to provide passive income solely from the efforts of others. The project has been structured so that BARIN does **not require securities licensing**, based on current regulations and guidance in relevant jurisdictions. However, regulatory interpretations can evolve, and the project will adapt as needed to remain compliant.

- **No Investment Advice or Guarantee:** This whitepaper is for **informational purposes only** to describe the project's vision, plans, and token mechanics. It is **not an offering document** and does not constitute investment advice, an offer to sell, or a solicitation of an offer to buy any securities or financial instruments. Participants and readers should conduct their own due diligence. There is **no guarantee of financial return** or token price appreciation. The value of BARIN, like any digital asset, can be volatile and is determined by market forces and platform usage, not by any promise from the team.

- **Forward-Looking Statements:** The plans, forecasts, roadmap milestones, and strategies described (such as partnerships, exchange listings, or future features) are **forward-looking statements** that are subject to change. Various factors outside the project's control – including technological hurdles, regulatory changes, market conditions, or business negotiations – could affect the outcome. The project team will make best efforts to achieve the stated goals but makes no assurance that all objectives will be realized as initially described. Investors and partners are cautioned not to place undue reliance on forward-looking statements and to understand that actual results may vary.

- **Regulatory Compliance:** The Barin project will comply with all applicable laws and regulations in the jurisdictions where it operates. Measures are in place (such as KYC/AML checks for token sales if required, and geo-restrictions) to ensure that BARIN tokens are **not distributed in prohibited regions** or to persons disallowed by law. The utility nature of the token is emphasized to avoid classification as a security; for example, token holders do not automatically receive dividends or profits. If any regulatory body were to determine that BARIN is a regulated financial instrument, the team would **pause distribution and work with legal advisors** to address the issue, which could include seeking exemptions or approvals or modifying token functionality.

- **No Public Offering in Restricted Jurisdictions:** BARIN tokens have not been and will not be registered under any country's securities laws, including the U.S. Securities Act of 1933. They will not be offered or sold in any country or jurisdiction where such offering is contrary to local law or requires registration as a security. Participants in the token sale must **confirm their eligibility** and compliance with local laws. The team reserves the right to exclude participants from certain jurisdictions to uphold this principle.

- **Risks Acknowledgment:** Engaging with the BARIN token and platform involves certain risks. These include but are not limited to: market risk (price volatility), technological risk (smart contract bugs or security breaches), regulatory risk (changes in law could impact the project), and execution risk (the possibility that certain partnerships or platform features may not materialize). By participating in the token sale or platform, users acknowledge and accept that they understand these risks. The project, its founders, and affiliated entities shall not be liable for any losses or damages incurred by participants due to these inherent risks.

- **No Warranty on Information:** All information provided in this document is presented "**as is**" and without any warranty of any kind. While the team has made every effort to ensure accuracy and completeness, the whitepaper may contain errors or omissions, and plans may be updated in the future. Readers are encouraged to refer to the project's official communications (website, announcements, legal terms of service) for the most current information. The Barin team disclaims any liability for any direct or indirect loss or damage of any kind arising from reliance on any information contained in this document or any information discussed in the related ecosystem.