



ONIXCOIN

A BLOCKCHAIN FOR INDIE GAME DEVELOPERS

<http://onixcoin.io>

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Purpose

Vision and Mission

Imagination, some call it the sixth sense, others would refer to it as a natural psychic ability. As Albert Einstein once said; “Imagination is more important than knowledge”. Our team and community strongly believes and has deep faith in that affirmation. Our vision was born imagining a utopian view of the world, where gaming and metaverses become part of the daily routine of all modern humans. From metaverses to battlefields, virtual spaces and games will be present in our reality more than ever before. Powered by blockchain technology, Onixcoin will allow players to claim their items through ownership of NFTs. Gamers can build, customize, and trade their own property in a completely open marketplace!

The gaming industry has demonstrated tremendous growth during the last decade. Technology and the internet has brought us closer together than ever. With blockchain, smart contracts and NFTs being applied in various industries, the gaming community celebrates the beginning of a new journey. What has been impossible to achieve in the past will now be standard in gaming. The term “Play to Earn” sparks the fire and fuels the emotions of those ready to begin a new journey in the evolving digital landscape.

Our mission is to provide the technology and necessary tools to enhance the experience of the gaming community. Through the utilization of the Ethereum Virtual Machine (EVM), Onixcoin blockchain has the capability to create smart contracts for games that require such technology. With fast and low cost transactions, game developers will finally be able to mint their own NFTs with extremely low cost.

Gaming Industry

Evolution of Gaming Worldwide

The introduction of blockchain networks paired together with smart contracts, has granted developers the ability to build decentralized apps. The implementation of non-fungible tokens (NFTs) to uniquely identify digital assets has become a growing trend. This brought a wave of new projects and ideas to the crypto space, revolutionizing the world we live in today.

The gaming industry is the most recent benefactor of the use of smart contracts and NFTs. The industry has evolved where game developers have the ability to implement play-to-earn features, allowing players to earn passive income from the time spent in-game. The smart contracts also allow for a better relationship between the developer and player. This enables new collaborative features and community voting, resulting in changes implemented to the project. Interoperability is another major benefit of blockchain games, which allows NFTs or Assets to freely move across several chains and be utilized in other games.

They're four key benefits that NFT gaming has brought to the sector: ownership, provable scarcity, interoperability and immutability. These key factors have revolutionized the way people play and interact with games, opening a new door for gaming experiences. With ownership, gamers can finally own in-game items privately, sell or transfer items to other players, or move them into other supported games. Whereas, in traditional games which allowed one-time purchases and the developers had ownership of all game assets which was very limiting for players.

Provable scarcity ensures rarity and authenticity. The scarcity of in-game NFT purchases are provable through the immutable records embedded in the NFT's underlying blockchain network. Immutability gives the security of your assets in any circumstances whether the game loses popularity or shuts down, you will be able to sell or retain ownership of the NFT(s). Support and development for the NFTs can continue in various forms.

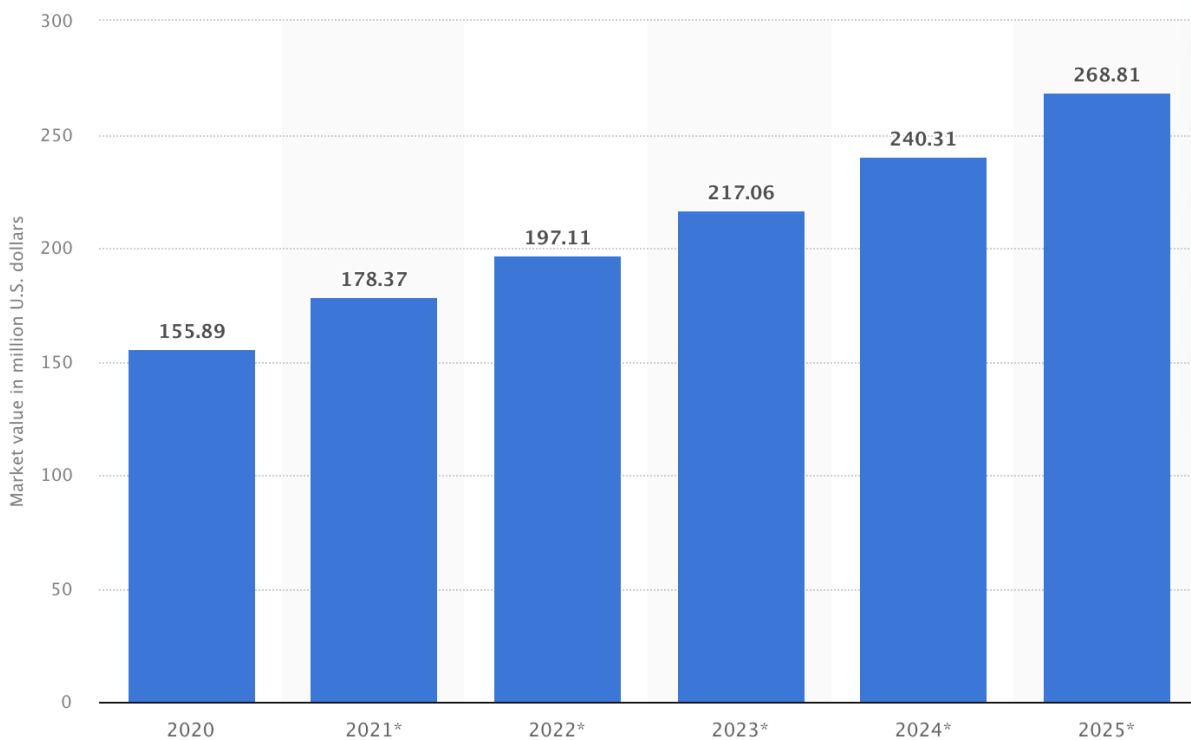
The Blockchain For NFT Gaming

The Future of Blockchain Gaming

Taking a look at the data released in the past few years pertaining to the growth of the gaming industry, recent figures in 2020 show that the gaming market was valued at USD 155.89 billion. Several reports have been conducted along with a series of data analytics which showed the yearly growth projections from 2020 to 2025 are estimated to be around 14.48%.

Global video game market value from 2020 to 2025

(in billion U.S. dollars)



Source: [Video game market value worldwide 2015 | Statista](#)

Considering the data, current projections and the impact of current world events, it's pointing to the need for more alternative realities. The cryptocurrency and gaming industry might flourish while traditional industries could be affected by a destabilized economy.

Since the start of the COVID-19 pandemic, many people have been forced to alter their lifestyles, including children who were told to take online school. This ultimately caused most people across the globe to find comfort in other activities, mostly limited to indoors. As a result, this led to a tremendous increase in internet users. The gaming industry was one of the few sectors which saw tremendous growth throughout this period. Recently, online gaming trends experienced a massive surge in players and revenue. By making strategic analysis, understanding the historical data and current research on trends, it's clear we have an exciting future ahead for the gaming industry.

Built For Independent Game Developers

The Onixcoin Project is one of the leading blockchain gaming platforms being developed specifically for independent game developers. Its blockchain infrastructure provides a unique network, combining bitcoin's core characteristics and security features, as well as utilizing the Ethereum Virtual Machine (EVM) to implement smart contracts. Onixcoin provides the perfect set of tools to integrate NFT games to the blockchain network. Minting NFTs on the Onixcoin blockchain is simple and extremely affordable, enabling a low entry barrier for devs to access a wider range of players across the globe. Onixcoin network also supports fast transaction speeds, providing a smooth and efficient gaming experience. Furthermore, the network allows developers to create game tokens, extending to the option of implementing staking features.

Help and support will be provided to developers in need of assistance when integrating a new/existing game onto the chain, along with guidance on the tokenomics implemented in the game. Having the ability to create/access smart contracts, developers will be able to customize game mechanics and data structures, suiting the game in the best way possible.

The number of challenges that have been placed on indie game development has limited the amount of games in this niche market for a number of years.

CONS OF INDIE GAME DEVELOPMENT



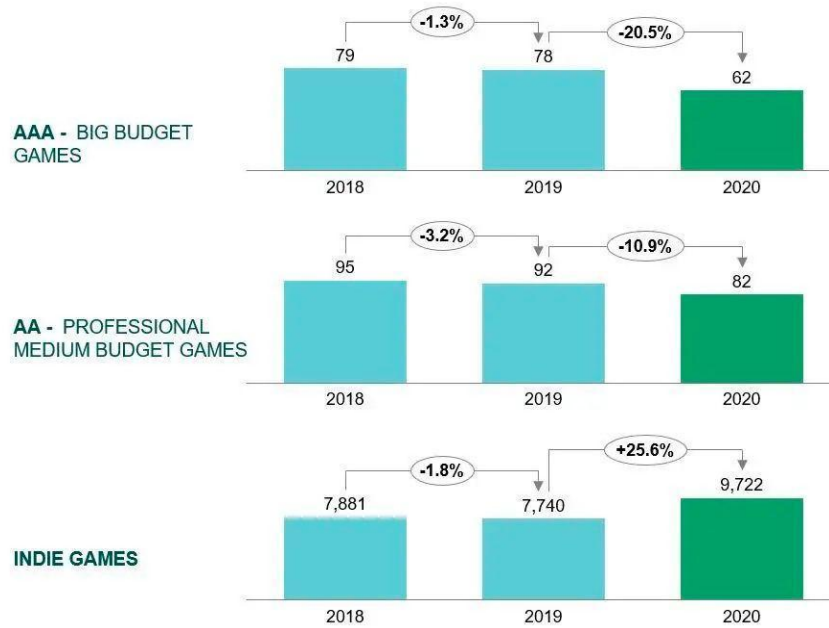
- **Lack of Experience** - Most young and upcoming indie game developers suffer from a lack of experience while joining the gaming market. Even if they have a high quality game, the lack of knowledge on how to get exposure to the project will remain an issue. With Onixcoin blockchain network, devs will receive guidance and resources, exposing the game to all users of the chain. For developers that are new to the blockchain space, Onixcoin will also provide all the tools and resources to quickly assist with a smooth transition onto the blockchain network.
- **Limited Resources** - One of the major factors that prevent a game from reaching its maximum potential is lack of resources. This could stem from not having enough team members to execute operations, development, accounting or little to no access to funding. Onixcoin blockchain platform can provide solutions to all those problems. With open access to the decentralized ledger provided by Onixcoin, devs and users will have detailed reports and analysis of game activities and token circulating supply. This greatly limits the number of staff required to monitor the project and the in-game transactions. The Onixcoin team also has a financial incentive program for developers who implement their games onto the chain. Games that meet the minimum requirements will receive an investment of 30,000 ONIX from our Team to continue development of the project and expand their community.

- **Oversaturated Market** - At the post-production stage of development, the next challenge most indie developers face is a market filled with many other game titles. This can lead to games being overshadowed, spending many months not being noticed in the market it has been deployed to. The traditional gaming markets are set up for games to compete against each other, whereas with blockchain technology this concept comes to a change. Blockchain games utilize the decentralized capabilities to have an interoperable network. This allows the games to complement each other and promotes cooperation. Onixcoin blockchain can open doors to these possibilities, providing a different environment where the game has an extremely better chance of success, while being in our interoperable platform.
- **Poor Marketing** - Not having the team or the resources to successfully promote games developed by indie devs can be very discouraging, and in many cases, causing the project to fail. All the hard work that went into the production stages has to be followed with a solid post-production phase, integrated with a good marketing strategy. This ensures that the game has the highest chance of success. Having the approach of cooperation instead of competition, projects under Onixcoin blockchain will often be featured in press releases or marketing materials. The interoperability of the blockchain will also create opportunities for projects to collaborate and unite forces, creating more exposure and gaining more territory into the marketplace.
- **Management Problems** - Finding the right team to manage any project can be a bit challenging and in most cases expensive. With the use of smart contracts on the Onixcoin blockchain, you can utilize the programmable automation of several traditional operations. This can greatly reduce the management cost of a game project, freeing up resources to allocate in other aspects of the project.

The Onixcoin team looked at a series of data which points to the steady growth of indie game releases since 2019. This growth is correlated with the pandemic and global lockdowns, causing the increase of internet users and the amount of hours spent online. Onixcoin took the challenge to provide all the necessary tools and support to cater this niche sector. The future of indie game development is set to take off with the introduction of blockchain technology and smart contracts. The Onixcoin team is happy to be a part of this illustrious journey as we aim to contribute to the growing gaming trend.



Steam Games Released by Type of Game, 2018-20 (# of Games)



Source: [Steam game trends in 2020 – Covid and the rise of indie games](#)

Research data from steam has shown the excellent performance of the indie game sector, outperforming the traditional AAA and AA developer studios combined. The ability for indie developers to capitalize on the earning opportunities presented by blockchain technology can be massive.

Incentive For Game Developers

Included in the Onixcoin's tokenomics, the project has a designated amount of coins that are reserved for independent developers that choose to join the network. These coins are considered as an incentive for early adopters and believers.

The total amount that will be given as incentive to developers is 1,000,000 ONIX, being divided into 33 equal parts of 30,303 onixcoin each.

Applicants who submit their project to receive the incentive must meet certain requirements as listed below:

- All NFTs need to be linked and traded utilizing ONIX cryptocurrency within the Onixcoin marketplace;
- The game's tokenomics need to be reviewed and approved by the Onixcoin team;
- The game must be fully completed in order to claim the incentive;
- The game NFTs need to have a certain amount of complete transactions in the Onixcoin marketplace.

Game devs that join the Onixcoin blockchain network will have full access to our development system, along with full support services for integrating the game onto the blockchain. Utilizing the infrastructure provided by Onixcoin, devs will have access to affordable services, allowing more people to take part in the NFT gaming revolution.

Game Integration With Onixcoin Blockchain

By utilizing Onixcoin's tools such as APIs, SDKs and support services, developers can have seamless integration of their games with the underlying technology. The team will provide all the necessary support needed to devs to easily go through the integrating process. Smart contracts that might be necessary to successfully create the integration of the game with the blockchain will also be provided by the Onixcoin team.

One of the main goals of Onixcoin is to assist indie devs by creating an accessible, affordable and easy path for integration with the technology.

Game Interoperability

Interoperability in blockchain gaming refers to the ability to use individual game assets from one game into multiple other games. Onixcoin works with this concept, and by accessing our infrastructure, developers and players will have the power to freely move game assets on the Onixcoin's network seamlessly. This opens doors to new possibilities of collaborations with other existing games, while being able to access other gaming communities to promote your project.

The Onixcoin team plans to steadily work towards making bridges to other popular chains in the near future to increase the scope of the interoperability to wider networks. With developers across the globe constantly working on ways to allow NFTs to have use cases in each chain it's imported to, the future of gaming is looking extremely exciting and Onixcoin is happy to help pave the way.

Technical

Blockchain

Name: Onixcoin

Ticker Symbol: ONIX

Inception: 2021 Blockchain

Class: Bitcoin Core (Hybrid EVM)

Blockchain Fork Variant: Quantum (QTUM)

Genesis Block: 20th Sep, 2021

Maximum Supply: 127,571,100 ONIX

GRWI Swap Ratio: 1:75

Consensus Mechanism: Proof of Stake (POS)

Hashing Algorithm: Scalable Consensus Algorithm

POS Block Reward: 4.0 ONIX

POS Block Time: 1 min

Smart Contracts: Yes

It is necessary that our blockchain matches the needs of all our users. It also needs to be easily adaptable to future technology. We've spent many months researching the perfect blockchain for our use-case. In a group of blockchain choices and technologies competing for consideration, it was the Quantum (QTUM) blockchain that stood out as the clear champion. It is the obvious choice for ONIX.

The Quantum (QTUM) blockchain design is extremely robust and fits our business model perfectly. Quantum technology allows us to keep our fees low while encrypting information for our users quickly and easily. Onixcoin will merge the smart contract elements of Ethereum with the blockchain characteristics and security of Bitcoin. We can achieve this by using the EVM (Ethereum Virtual Machine). This could only be made possible with the Quantum blockchain. Their team has done an outstanding job and the technical breakthroughs they've achieved with QTUM are truly historical.

This will bring Onixcoin to the bleeding edge of current blockchain technology. Our development team is well versed in both Bitcoin Core and Ethereum Solidity. They will harness this new technology for the Onixcoin backend system.

Account Abstraction Layer

The following technical information referenced here in “Account Abstraction Layer” and “x86 Virtual Machine” was derived from the Qtum whitepaper.

To achieve interoperability by combining the UTXO, the smart contract account model as well as decoupling the value transfer from the contract execution layer; Onixcoin uses the Account Abstraction Layer (AAL). Developed for optimizing the interface and conversion between smart contract operations and UTXO operations, four new opcodes have been implemented:

OP_CREATE: Create a smart contract.

OP_CALL: Call smart contract (send ONIX to the contract).

OP_SPEND: Spend ONIX through a smart contract.

OP_SENDER: Allow addresses other than contract call senders to pay for Gas.

When the Onixcoin blockchain generates new blocks, in addition to making regular checks on transaction scripts, it also needs to check whether transactions contain the above-mentioned opcodes. OP_CREATE is used to pass the contract bytecode to the virtual machine. OP_CALL sends data, gasPrice, gasLimit, VMversion and other key parameters required to run smart contracts through transaction scripts, finally passing them to the virtual machine. Relying on this design, the Onixcoin x86 virtual machine can run on the blockchain in parallel with the EVM (Ethereum Virtual Machine), without the need to significantly modify the underlying protocol, retaining good functional scalability. In the future, any virtual machine based on the account model can be adapted to run on the Onixcoin blockchain.

In addition to a large number of adaptations and improvements in functionality, Onixcoin also borrowed the concept of Gas from Ethereum. Onixcoin uses the Gas model in the contract operation, and optimizes the Gas model of the EVM. Usage of the Gas model can prevent endless loops caused by errors and malicious attacks, can allow miners to get rewards for performing calculations based on actual workload, and encourage contract designers to make reasonable use of on-chain resources. Normally the address of the contract call sender pays the Gas, but the OP_SENDER opcode allows a third-party address, such as a distributed application service provider to pay the Gas. Similar to EVM, there is also a state rollback for “Out of Gas” and a refund of remaining Gas after successful execution. In response to these situations and some rare boundary use cases, Onixcoin has the appropriate processing to ensure normal and efficient operation of smart contracts.

x86 Virtual Machine

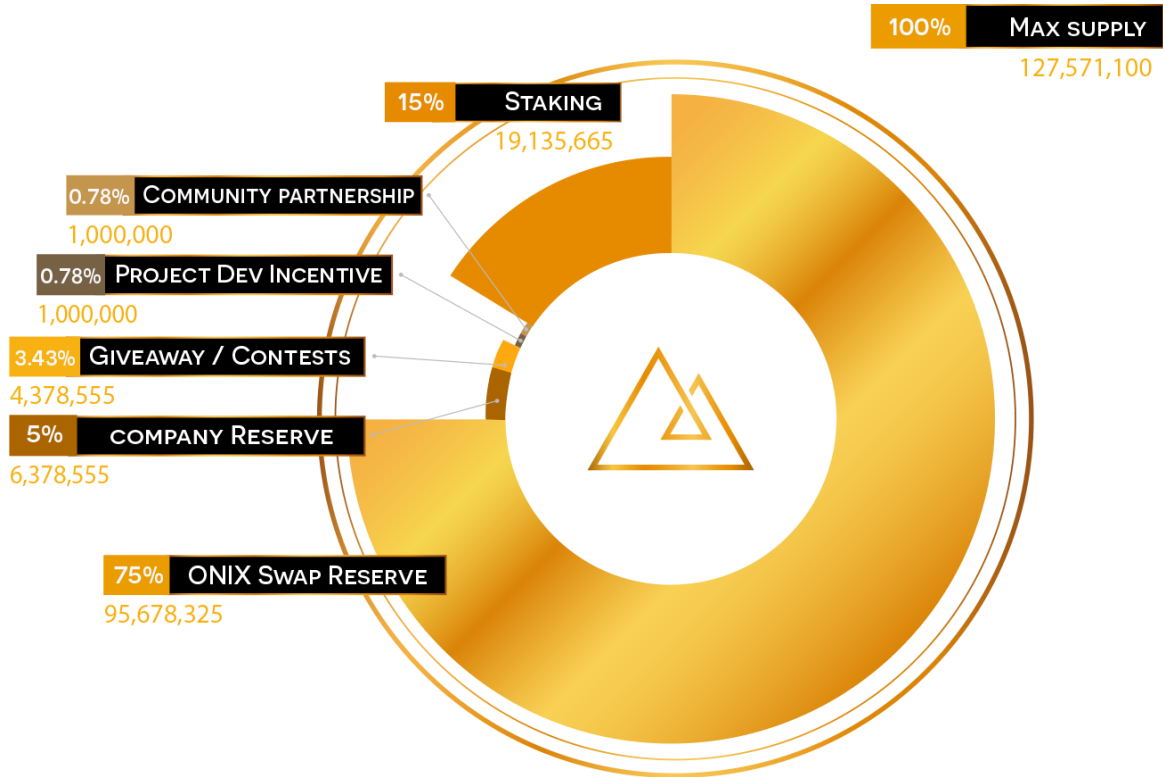
Based on the strong scalability of the AAL, the Onixcoin blockchain can implement multiple virtual machines running in parallel without changing the underlying architecture. The x86 virtual machine uses Von Neumann computer architecture, which means that the code is data, which conforms to the mainstream contemporary programming model. The basic principles of the x86 virtual machine ensure that it is possible to write smart contracts that run on the Onixcoin blockchain by making simple modifications and using many existing compilers and programming languages. Almost all compilers currently support the x86 architecture instruction set, so the actual bytecode and architecture support is very complete.

Onixcoin's x86 virtual machine will support the i686 instruction set and will initially support the Rust language. Therefore the x86 virtual machine will automatically inherit the support of this upper-level language and development tools so that Onixcoin can get rid of the limitations of EVM computing and Solidity language issues. We can implement features more efficiently, such as variable-length key values, linear memory, and bring real-time on-chain data analysis. The use of x86 virtual machines can also provide developers with more standard libraries. These standard libraries will exist like pre-compiled contracts, and their fees and prices can be managed through Data Generating Process (DGP), which will greatly reduce the difficulty of developing smart contracts and development operating costs. In addition to the kernel of the virtual machine, the Onixcoin x86 virtual machine includes the design of a storage lease model and a new state storage model to solve the problem of excessive growth for the blockchain.

Tokenomics

The Onixcoin Tokenomic system is strategically designed to aggregate advantages to gamers and users. The team is happy and proud to present the full distribution of ONIX, a hybrid coin that utilizes the securities of Bitcoin Core with the smart contract functionalities of Ethereum through an EVM (Ethereum Virtual Machine).

With a max amount of 127,571,100 ONIX powering the network, Onixcoin establishes its distribution into 6 main pools.



POOL #1 - Onixcoin Swap Reserve

The first pool is referred to as the Onixcoin Swap Reserve. Coins in this pool will be generated from the ONIX supported swap of GRWI. A total amount of 95,678,325 coins is reserved for holders to swap GRWI to ONIX.

The Swap Support Window will allow holders to exchange GRWI to ONIX and will remain open for no longer than 5 years. However, the closing of the Swap Support Window can occur earlier if Cryptopia Exchange (Grant Thornton International Ltd) enables withdrawal of GRWI to users. In which case we will leave the Swap Support Window open for no longer than 1 year after the Cryptopia held coins are released. We have chosen to support the existing GRWI community due to complications with their original blockchain technology, difficulties with wider adoption, and the uncertainty behind the Cryptopia hack. Due to our past relationship with the original development team, GRWI was the most relevant choice to make the transition to ONIX.

If remaining GRWI aren't swapped during the designated period, the equivalent amount of ONIX will be burned from the network entirely or another decision may be put to community vote at that time.

POOL #2 - Company Reserve

The second pool is referred to as the Company Reserve. There are a total of 6,378,555 coins in this pool. The allocation of ONIX that are placed in this pool are designed to help in overall growth of the project itself. These coins are locked for at least 3 years, not coming in circulation before then. A voting procedure will also be executed to decide how the coins will be used for the project.

POOL #3 - Giveaway/Contest

This pool is dedicated for giveaways and contests to help promote the platform. The main purpose is to increase the size of the community by executing a fair distribution of ONIX. This pool has 4,378,555 ONIX allocated for this purpose which is 3.43% of the entire supply.

POOL #4 - Project Development Incentives

A total of 1,000,000 ONIX has been allocated to this pool to provide an incentive for potential partnerships with game developers. The total amount of ONIX will be divided into 33 equal parts of 30,000 onixcoin each.

Game devs that wish to apply for incentives must submit their project to the Onixcoin team. After being revised by the team, a community vote would be taken to approve or reject the project into the network.

POOL #5 - Community Partnership

This next pool is dedicated to finding partnerships and sponsorship deals with social media influencers and bloggers to help promote the project. This pool is also used to make payments to the Onixcoin community moderators to assist the team on social platforms. A total of 1,000,000 ONIX has also been allocated to this pool.

POOL #6 - Staking

The final pool is referred to as the Staking Reward. The total amount of 19,135,665 coins are designated to this pool. These coins begin to enter in circulation from block 1001 as the Proof of Stake (POS) consensus mechanism activates.

As the community holds ONIX, they have the ability to stake their holdings in either one of the available validators (online staking) or within their own personal wallet. The depletion of the total amount of Staking Reward coins should end by the year of 2031 or when block 5,260,492 is created. This is an approximation based on blockchain usage.

The block reward offered by the network is equivalent to 4.0 ONIX and a new block is created every 1 min. No halving will occur during Staking Reward depletion.

STAKING REWARD DEPLETION						
BLOCK	YEAR ENDING	HALVING	BLOCK REWARD	NEW ONIX	TOTAL ONIX	
1	1000	2021	n/a	107,160	108,435,435	108,435,435
1001	526,949	2022	n/a	4.00	2,103,797	110,539,232
526,950	1,052,898	2023	n/a	4.00	2,103,797	112,643,029
1,052,899	1,578,848	2024	n/a	4.00	2,103,797	114,746,825
1,578,849	2,104,797	2025	n/a	4.00	2,103,797	116,850,622
2,104,798	2,630,746	2026	n/a	4.00	2,103,797	118,954,419
2,630,747	3,156,695	2027	n/a	4.00	2,103,797	121,058,216
3,156,696	3,682,644	2028	n/a	4.00	2,103,797	123,162,013
3,682,645	4,208,594	2029	n/a	4.00	2,103,797	125,265,809
4,208,595	4,734,543	2030	n/a	4.00	2,103,797	127,369,606
4,734,544	5,260,492	2031	n/a	4.00	201,494	127,571,100
					19,135,665	

Onixcoin Network

Community

The force behind the engine that moves a project is the community it is built around. As our community grows and expands, qualified members are ready to give the necessary support to those that join our journey as the project unfolds.

Being in a community is not just about geographical location or online (social) presence. It's about feeling connected and responsible to what happens as a whole. In the Onixcoin community, every individual plays a crucial role and is equally important. Just as fire needs oxygen to remain lit, our vision needs the community to maintain and carry the message. The bigger the community gets, the stronger our collective vision becomes.

Every law, act, constitution or regulatory decision is based upon what people are experiencing in their own community over time. Sociopolitical systems are based upon the sum knowledge and action from our history to the present moment. Taking this into account, Onixcoin approaches all decisions with the utmost of importance. We consider all these affairs in order to move the project forward. This aggregates advantages to Onixcoin as a whole, retracting and expanding results to the community and users.

People who work together in a strong community with a shared goal and purpose can make the impossible possible. That is why the Onixcoin core and its community will always work together toward a single goal. Many important decisions will be brought to the community which may require voting from the team and top community leaders. Voting decisions may include; a new feature or tool for the project, marketing campaigns, fundraisers, etc

We strive to empower our community in everything we represent. Onixcoin is completely dedicated to each person. We are all part of a bigger collective: the believers, the consumers and the clients.

Smart Contract

Smart contracts are virtual agreements encoded as computer protocols. They cannot be changed by any party, including the two agreement holders. For amendments to be made, the entire network must be altered.

The self-executing nature of smart contracts makes them powerful tools for a variety of applications across multiple business areas. In the Onixcoin network, we use this feature to create NFTs (Non-fungible tokens) to be utilized in games, as well as providing a built-in platform for users who wish to deploy their own smart contract of any kind.

With the use of Onixcoin's smart contract capabilities, users can implement features more efficiently, such as variable-length key values, linear memory, and bring real-time on-chain data analysis. The use of x86 virtual machines can also provide developers with more standard libraries. These standard libraries will exist like pre-compiled contracts, and their fees and prices can be managed through data generation process, which will greatly reduce the difficulty of developing smart contracts and development operating costs.

ONIX Delegation

In the standard Onix PoS system, the nodes participating in staking must stay online, and online stakers improve the security and operations of the network. This design, however, has limitations for ordinary holders. The offline staking mechanism that Onixcoin utilizes solves the above problems. Ordinary users can delegate the rights of staking to any superstaker available in the network, creating no need to keep their nodes online. Delegators always have control of their coins, which can be safely held offline and spent at any time. The process that results in such features is only possible through the execution of a smart contract.

The ONIX Shrine

The ONIX Shrine is a script created by the core team that is able to execute a proportional reward system to holders with a limited amount of coins. This superstaker is ideal for delegating a small amount of ONIX, starting from 10 all the way up to 20,000 ONIX.

Solo staking wallet addresses with small amounts of ONIX is not advised, as users wouldn't be able to hit a block in weeks. Delegating small amounts of ONIX to any of the SuperStaker pools may not be very effective. This is due to the weight of the address not being enough to hit blocks at a constant rate.

With the ONIX Shrine pool, even delegating a small amount of ONIX to this pool makes you eligible to receive rewards, as your individual delegation weight raises the weight of the entire pool. The heavier the pool, the faster it hits blocks.

The Blockchain Explorer

The Onixcoin's insight block explorer provides a simple and easy user interface, market data and detailed charts of the blockchain's performance. This enhances the transparency of the project and all real-time transactions can be verified by any user on the internet. Live updates on the top coin holders, number of transactions, number of wallets, circulating supply and much more can easily be found by using the wallet address or TXID.

The explorer can also be used to broadcast raw transactions over the Onixcoin network. Detailed information about each block mined on the network can easily be found by looking up the block height or block hash in the search bar. The Onixcoin team also developed an API to seamlessly share live blockchain data with other networks and crypto exchanges.

Marketplace

The Onixcoin network will have the full utility of an online peer to peer marketplace. Users will be able to buy or sell NFTs created in our blockchain, interacting together through direct communication and trading with little to no oversight. We are very excited about the potential of our NFT marketplace, currently under development. As the user list expands, our marketplace becomes a major part of our project.

Collectables game items will finally be minted with a fast and cheap fee, welcoming more developers that want to be part of the Onixcoin Blockchain ecosystem.

Marketing Strategy

The Onixcoin team has plans to continue to increase the scale of the project and form strategic partnerships with game development teams and other major players in the gaming industry. We plan to achieve this by attending several meetups, exhibitions, and participating in a number of interviews and AMAs. As part of the strategy, we offer a wide variety of promotions to attract talented young developers from across the world by hosting a number of hackathons in a number of educational facilities. The plan is to target independent game developers who are looking for an affordable platform to integrate their game onto the blockchain, along with a stream of upcoming young developers who are eager to participate in the revolutionary industry.