



**AZUR TOKEN
WHITEPAPER**



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ABSTRACT

This white paper introduces the Azur project, a new decentralized ecosystem that is a multi-platform system equipped with standard protocols.

Azur project brings a complete array of different decentralized finance solutions together and integrates them into Gaming, Metaverse, Entertainment, and NFTs' domains. Its ultimate goal is to cater to the diverse interests within the crypto community by offering a comprehensive and immersive experience.

The Azur team makes progress on their persistent quest for fresh possibilities, constantly exploring and innovating through research and development to introduce novel features.

Moreover, the Azur project's plan to create a hardware wallet stands out as a remarkable attribute that sets it apart from other projects.

The Azur project, founded on the core tenets of trust, transparency, ease of use, and social impact, provides a platform for cryptocurrency enthusiasts to make impactful investments and enjoy a variety of utilities.



NATIVE TOKEN

At Azur, a remarkable token called AZUR token has been created using the ERC20 standard. This token, bearing the symbol AZUR, was carefully created with the help of OpenZeppelin. By taking advantage of their expertise, we have fortified its trustworthiness and security, ensuring its fitness for future purposes such as:

- Designing various games
- Deploying it as Native Token in Azur Network
- Designing and developing various systems and protocols related to AZUR token

The AZUR token stands out for its simplicity and adherence to the standard, as it avoids incorporating certain features found in other native tokens of other projects. These features, although they may seem beneficial, can actually lead to negative outcomes. For instance, they allow for updating the smart contracts fees for token holders or the project team members. Additionally, they utilize 32-bit codes for voting purposes. AZUR token, on the other hand, maintains a straightforward approach without these complexities. Don't worry, AZUR token is standard and isn't upgradeable.

There exists a finite number of tokens, with a fixed supply that cannot be increased through any means in the future.

Innovative services designed exclusively for AZUR tokens, like the telegram bot and Games in Azur Metaverse, will unlock a plethora of exciting offers and enhanced functionalities.

Initially, AZUR tokens will be launched on the Ethereum network. However, after a while, once the project achieves its desired objectives, they will be migrated to Azur project's independent network and become its native token.



NATIVE TOKEN

It should be noted that AZUR tokens will be deployed in several other popular blockchain networks like Avalanche, Polygon, Binance Chain (BEP20) etc. in the future in order to gain traction and boost users' interaction.

The token is developed using ERC20 standard token design and employing OpenZeppelin libraries. The token is not updatable and this unavailability of access to update the contracts provides users and token holders with peace of mind and more trust to the project.

Initially, the AZUR tokens will be launched on the Ethereum network due to its large number of users and wide range of ERC20 tokens available. This allows users to conveniently buy Azur tokens by exchanging them.

The initial number of tokens created is 200 million with 18 decimal digits. The specifics regarding how these tokens will be divided up and made available to the public shall be revealed through the announcements channels.

Furthermore, within the realm of Azur Metaverse, the issuance of NFT tokens will be contingent upon the AZUR token. Once Azur native blockchain is created and operated, the Azur coin will be officially launched, leading to the burning of these tokens. Consequently, they will be replaced by Wrapped AZUR token (WAZUR).



DECENTRALIZED EXCHANGE (DEX)

A decentralized exchange (DEX) is a cryptocurrency exchange that runs without a central authority and in a decentralized manner. The back-end of most DEXs is built on top of an existing blockchain infrastructure, where all transactions done through the exchange are tracked for transparency and security.

These exchanges rely on smart contracts and on-chain data to enable peer-to-peer transfers of digital assets from one wallet to another.

AzurSwap Decentralized exchange was developed utilizing the Uniswap v2 open source codebase.

The AzurSwap exchange has the following unique advantages over the other exchanges mentioned above:

- Being Multi-Network and incorporating the biggest number of EVM-Compatible networks.
- Charging less fee than those of other existing Swaps (a third less than Swaps like Uniswap, PancakeSwap and SushiSwap)
- The possibility of earning points while doing transactions and using them in Metaverse environments.
- Offering innovative services through Telegram bots capability.

Users are charged a fee of 0.2% for every buy or sell transaction in AzurSwap of which 75% will go to liquidity providers and the remaining 25% will go to FeeToAddress.

The FeeToAddress address belongs to the Azur's team of development and advertising.



DECENTRALIZED EXCHANGE (DEX)

AzurSwap's lower fees which is a third less than that of Uniswap with 0.3% fee along with offering a comprehensive crypto ecosystem will attract users instantly to Azur platform.

DEXs work by operating liquidity pools which are essentially smart contracts equipped with Automated Market Makers. Each smart contract, or pair, manages a liquidity pool made up of reserves of two EVM-Compatible tokens. The pairs act as automated market makers, they are ready to exchange one token for the other provided that the constant product formula is maintained. This formula, represented as $x * y = k$, ensures that trades do not alter the product (k) of a pair's reserve balances (x and y). Since k remains unaltered during a trade, it is commonly referred to as the invariant. Thanks to the formula, the more substantial trades (compared to reserves) will be executed at exponentially deteriorating rates than the smaller ones.

When a user wants to add his A tokens and B tokens into a liquidity pool in AzurSwap, he puts equivalent amounts of each of the tokens into the pool and receives Azur liquidity pool (LP) tokens in return. Each LP token is equal to one of both tokens in the pool, that is: $1 \text{ LP} = 1 \text{ A token} + 1 \text{ B token}$.



DECENTRALIZED EXCHANGE (DEX)

Whenever a trade occurs at a liquidity pool in AzurSwap, a 0.2% fee is charged to the transaction sender. 75% of the fee belongs to Liquidity Providers of the pool and the remaining 25% goes to Azur's team of development and advertising. The Liquidity providers' share of the fee is added to the pools. In order to reclaim the underlying assets in a liquidity pool, along with any accumulated fees, liquidity providers are required to return their liquidity tokens (LPs) to the factory via the smart contract of the swap. As a result, they will receive their proportionate share of the underlying assets present in the liquidity pool, in addition to 75% of the fees.

As liquidity tokens are themselves tradable assets, liquidity providers may sell, transfer, or otherwise use their liquidity tokens at their own discretion.



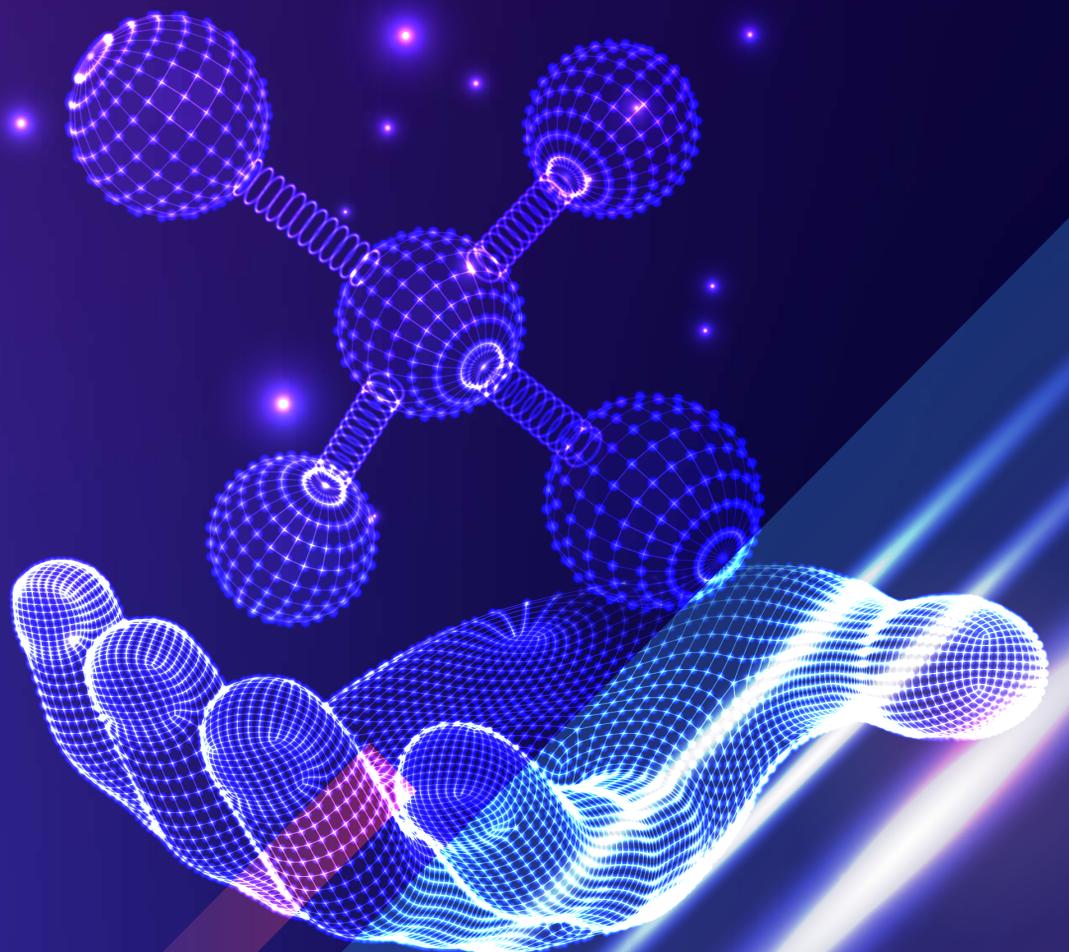
DECENTRALIZED EXCHANGE (DEX)

Is the process the same for all networks?

Yes, the entire swapping fee process will follow the algorithm described earlier, and all networks connected to the swap will be identical in this respect because they are all supporting EVM. The only difference will be the network fees, which vary depending on the specific network and are not related to the smart contract itself.

Which networks will AzurSwap support?

Fortunately, AzurSwap supports EVM-Compatible networks and currently it has extended its support to impressive count of 22 EVM networks. One of the standout features of AzurSwap is its provision for test networks, enabling developers and enthusiasts to evaluate their smart contracts, including tokens, DeFi projects, and peer-to-peer games on AzurSwap without incurring any fees. The other purpose behind having these test networks on the Azur platform is to educate beginners. These test networks give them the opportunity to train and allow themselves to freely make mistakes in working with different solutions without incurring any fees.



DECENTRALIZED EXCHANGE (DEX)

AzurSwap has successfully established connections with the following networks up until now.

ETHEREUM MAINNET

1

2

ROPSTEN (ETH TESTNET)

3

RINKEBY (ETH TESTNET)

4

GOERIL (ETH TESTNET)

5

KOVAN (ETH TESTNET)

6

ARBITRUM RINKEBY

7

ARBITRUMA

8

AVALANCHE FUJI
TESTNET (AVAX TESTNET)

9

AVALANCHE MAINNET
(AVAX MAINNET)

10

FANTOM TESTNET

11

FANTOM



DECENTRALIZED EXCHANGE (DEX)

BNB TESTNET
(BEP20 TESTNET)

12

13

BNB (BEP20 MAINNET)

OPTIMISM KOVAN
(OPTIMISM TESTNET)

14

15

OPTIMISM (OPTIMISM
MAINNET) POLYGON

POLYGON MUMBAI
(POLYGON TESTNET)

16

17

HARMONY

HARMONY TESTNET
(HARMONY TESTNET)

18

19

HECO

HECO TESTNET

20

21

ETHCLASSIC (ETHEREUM
CLASSIC)



DECENTRALIZED EXCHANGE (DEX)

In order to determine the price of A token in relation to B token using an oracle, you can utilize the reserves within the view functions of the contract and obtain the price information.

The equation to calculate the price without considering any swap fees is as follows:

$$p_t = \frac{r_t^A}{r_t^B}$$

In this equation, t represents time, r^A represents the number of reserves for A token and r^B represents the number of reserves for B token. It is important to note that the time (t) must be consistent, and comparing prices at different times will not yield the same result.

Please note that the total value of A tokens (number of A tokens multiplied by the price of each A token) multiplied by the total value of B tokens (number of B tokens multiplied by the price of each B token) remains constant and equals the quantity of LP tokens generated by the user.

Can tokens be transferred between networks?

No, it is not possible to execute a contract in a different network. Therefore, sending a token to another network is not feasible. For instance, it's not possible to directly transfer tokens from the BNB network to the ETH network.

However, you can utilize wormhole technology and the Wrapped version of tokens to be able to access tokens from different networks as the bridge feature is no longer available in AzurSwap for security reasons.



DECENTRALIZED EXCHANGE (DEX)

Is it possible for the bridge to exist in the future?

The AzurSwap development team is currently probing this feature and will announce its release through existing social media channels once it becomes operational.

AzurSwap also offers the potential for a Meta Transaction, where one can use another wallet's signature in his current transaction. This process involves transferring and receiving payments from another wallet through executing the `transfer()` and `transferfrom()` operations. The tokens used in this swap are of the standard ERC20 type and can be directly used, bought, and sold through factory and router links. The maximum amount of tokens that can be liquidated is approximately one quadrillion.

Security and Accuracy

Certik is a leading platform that focuses on security and accuracy. It analyzes and monitors blockchain protocols and DeFi projects. After receiving smart contracts from various platforms supporting the Azur ecosystem, Certik will publish a report that confirms the reliability and security of these contracts.

Additionally, parts of the code used on the swap site are available on GitHub for users to freely access. The development team is active on Medium website sharing information and providing further explanations to users through publishing specific articles.



LOTTERY

AzurSwap Lottery is a unique and cost-effective project. Unlike other lotteries such as PancakeSwap, we have addressed the issues faced by other projects, such as high gas fees and errors in setting the random generator.

Our smart contract has been designed with its own logic, eliminating the need for dependency on chain-link VRF. Instead, we have developed a new algorithm to calculate random numbers, reducing the cost of participation.

What sets our lottery apart is the use of multi-part prizes and a diverse pool of holders. This innovative approach distinguishes us from existing lotteries.

To participate in our lottery, users simply need to hold AZUR tokens and engage in direct communication with the Azur token mechanism.



TELEGRAM BOT

Azur Bot is an advanced tool created by the Azur team for providing analyses and announcements. It provides users with real-time updates on token changes, making it a valuable marketing tool for project owners. Unlike other services, this bot operates entirely within the network without relying on interface APIs. This design ensures that it delivers information at the highest speed possible.

By sourcing information from the decentralized world, Azur Bot minimizes the risk of manipulation, fraud, and errors in price feed services. It offers a range of features divided into two categories: free and special. To access the special features, users need to possess AZUR tokens.

The bot is currently being developed to provide analysis and announcements of the news. Telegram bot utilizes swaps' liquidity pools which are controlled to obtain accurate prices. Additionally, the use of bots in AzurSwap has a superior discount, and the user can use the special features of the bot for free in the long term.



TELEGRAM BOT

In terms of compatibility, the Telegram bot will support various decentralized exchange networks mentioned in the DEX section. Additional features and instructions of the bot will be provided to users separately.

Please note that the Telegram bot is limited for use in test networks and requires purchasing special plans. Among other goals of Azur team in developing the Telegram bot, we also have NFT markets report feature. This feature monitors NFT markets and provides users with offers to buy NFTs with high growth potential.

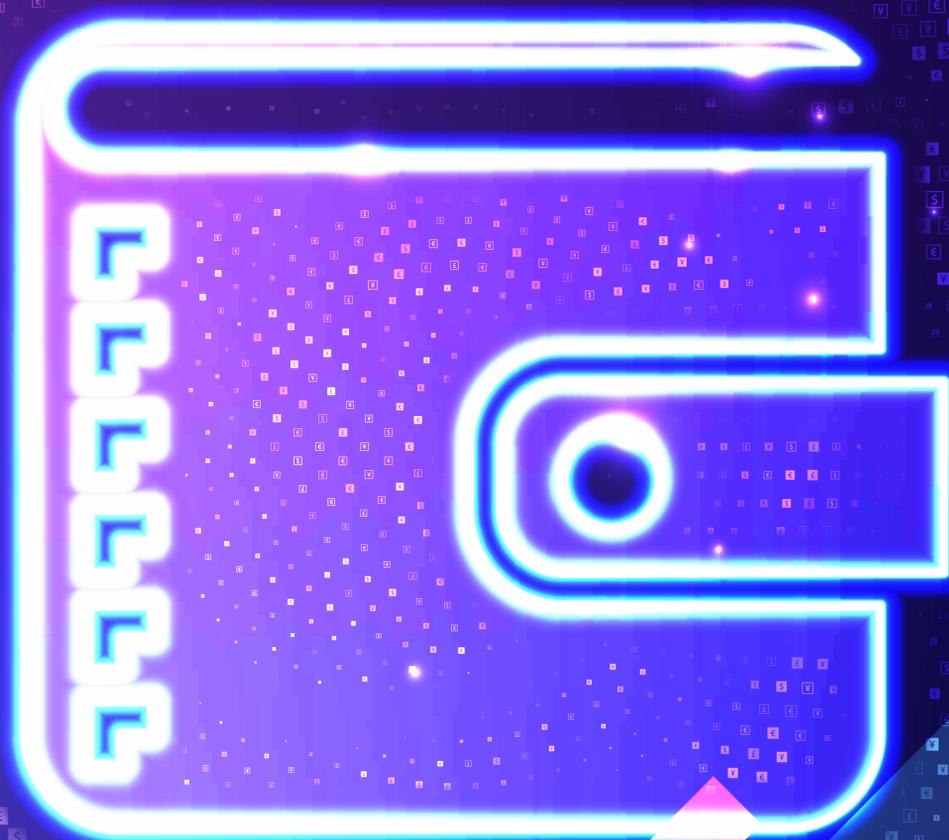


HARDWARE WALLET

One of the most important goals of the Azur team along the way is designing, building, and developing a hardware wallet that operates in multiple chains.

This wallet undergoes rigorous testing using the c++ programming language and powerful ARM chips. Notable features of this wallet include exceptional security measures, separate software for android and iOS operating systems, compatibility with various networks, and the ability to update using centralized data. Additionally, this hardware wallet is designed to support the upcoming Azur network and is particularly appropriate for Metaverse games developed by the Azur team compared to web3 wallets like MetaMask.

The protocols integrated into this hardware wallet enable users to update the wallet software, as well as add or remove new networks. Furthermore, it offers support for all EVM protocols.



HARDWARE WALLET

We are currently exploring and working on the feature of staking and pledging within the hardware wallet. In a separate white paper, we will provide a detailed description and the design of this wallet. We are also preparing the hardware wallet to support over 50 networks, with the following being the main ones:



HARDWARE WALLET

Additionally, we are reviewing and developing hardware wallet extensions for Chrome and Safari. These extensions are being developed using web3 standards and will support all standard functions.

The innovative software linked to AzurSwap is currently being developed with all the amazing features. It is being meticulously built on various platforms, following the most optimal development methods. Once it reaches its final stage and undergoes thorough testing, it will be introduced to the world.

During this phase, diverse platforms like android, iOS, Windows, MacOS, and Linux are being crafted utilizing various tools that are interconnected. Subsequently, each platform will be presented and assessed along with its distinctive attributes.



METaverse

In the vibrant realm of Azur Metaverse, games and systems are intricately connected to various components within the Azur ecosystem. By engaging in the AzurSwap platform, players can earn points that hold significance in the immersive Azur Metaverse universe.

This seamless integration endeavors to bridge the gap between the captivating crypto world and our tangible reality.

Every day, Azur Metaverse empowers its users with the ability to engage in buying and selling activities, as well as exploring a multitude of features and software developments.

The team at Azur is diligently constructing an extraordinary virtual realm, where individuals can not only have fun playing games but also earn real money through the utilization of the AZUR token. This governance token serves as the fundamental instrument within the Azurverse platform, enabling users to fully immerse themselves in a unique and rewarding experience.

In the realm of Azur, those who possess AZUR tokens have the power to shape and influence the platform. Through a decentralized autonomous organization (DAO), token holders can actively engage in governing and guiding the Azurverse ecosystem. They hold the key to voting on crucial matters that impact the platform's future.

Furthermore, as a player, you have the opportunity to enhance your gaming experience by purchasing digital assets known as non-fungible tokens (NFTs). These unique items can be obtained from the Azurverse store, allowing you to personalize and enrich your journey within the game.



METaverse

In the realm of Azurverse, a remarkable programming language empowers users and developers to craft personalized applications with an extensive array of functionalities. This includes the ability to bring objects to life, seamlessly load textures, efficiently manage physics, tailor user interactions according to specific requirements, create immersive ambient and individual in-game sounds, and dynamically distribute tokens as real-time rewards to victorious players.

In the enchanting world of Azurverse, you'll find captivating games that revolve around buying and selling properties, accompanied by immersive three-dimensional communication scenes where you can interact with fellow players.

Dive into the world of cinema halls, theaters, meeting halls, and even online concerts that are seamlessly integrated within this virtual universe. These delightful features are designed to provide endless hours of entertainment and serve as a much-needed escape from the burdens of everyday life.

Moreover, Azurverse goes beyond mere amusement by offering educational experiences, conducting research and development in 3D design, and even providing virtual tourism services.

Users can also communicate with each other and create online academic forums, public chat groups, and various gatherings. Users and gamers are the true and permanent owners of their digital items. Even if they leave the game, using the developing tools, each game item and digital asset can be converted into tokens and sold.



METAVEVERSE

Immutability

In the wonderful world of Azurverse, a realm filled with digital wonders, you can find a plethora of digital game items and assets, such as estates and NFTs. The best part is that these treasures can be effortlessly exchanged in the secondary markets, where blockchain technology works its magic to ensure smooth transactions.

In the realm of blockchain gaming, users are bestowed with unparalleled authority, and the Azurverse platform adheres to this principle by granting players the ability to command and customize their avatars. Avatars, which serve as virtual embodiments of players within the game, can be tailored and assembled according to specific specifications and formats. Additionally, they come with a default set of animations such as walking, running, jumping, and even attributes like height, weight, and clothing preferences (which can vary for each individual piece). To acquire all digital assets within Azurverse, one must acquire the sovereign token known as "AZUR token".

We have a solid roadmap and an exceptional group of game developers to bring to life a powerful vision, creating an unparalleled product that amplifies the influence of blockchain as a cutting-edge technology in the realm of gaming and entertainment.



METaverse

In Azurverse, there are no boundaries to what we can create. We offer a platform where you can unleash your creativity and bring forth the finest virtual game items, both in the digital world and beyond. With our innovative tools, you have the power to craft your own unique environment, complete with captivating 3D objects and structures tailored to your preferences in terms of colors and sizes. Not only that, but you can also breathe life into these creations by animating them. And the best part? You can showcase and sell your masterpieces on our global market, which operates as an NFT marketplace.

By registering any asset created as an NFT. The creators can take actual ownership of it. Everything you create in Azurverse is copyrighted. You can sell and trade your creations while enjoying all the advantages of selling your work. As crafted action lands cannot be duplicated and are limited in quantity, Azurverse strives to enhance the value of these unique items.

The project's main challenge lies in gaining acceptance from the artistic community, gamers, entertainment enthusiasts, and individuals involved in digital currencies. Only by achieving this acceptance can we establish an environment where people can earn daily income while being entertained.

Therefore, our main objective is to create a strong and versatile product that can be easily expanded across various platforms. We aim to achieve this by offering a range of tools specifically designed to address the challenges and requirements of our community. Consequently, we are currently in the process of developing this innovative solution.



METAVEVERSE

In the realm of Azurverse, the game market presents a promising opportunity to transform your power and earning potential across various devices like PCs, laptops, and mobile platforms.

Our ultimate ambition is to establish ourselves as one of the key leading players in the virtual world.

Through our blockchain technology rooted in Azurverse, we aim to attract a staggering two million active users within the next five years. To achieve this goal, we will relentlessly strive for improvement and progress. We will actively engage with both artists and players, incorporating new elements and catering to the evolving needs of society. Our objective is to make advanced models accessible to all by introducing exciting features that highlight the long-term significance of these activities.

Collaboration and engagement with the Azurverse platform enable creators to collaborate seamlessly and deliver cutting-edge games and metaverse experiences to the community.

Our dedicated team of experts will revolutionize virtual gaming, offering an exceptional opportunity to earn substantial rewards while enjoying daily entertainment.

Stay tuned for the release of our whitepaper version 2, where we will unveil exciting details about Azurverse that will leave you pleasantly surprised.



NFT MARKETPLACE

Another service in Azur ecosystem is providing a unique opportunity for artistic creators to produce and put their tokens up for sale using the ERC-721 standard, commonly known as NFT.

This innovative feature empowers artists to showcase and sell their original designs with the assistance of Azur metaverse.

Moreover, NFTs can be conveniently purchased on the same platform.

Recognizing the potential of cryptocurrencies in the gaming industry, the Azur development team has also been exploring the integration of tokens based on the ERC-1155 standard.

This advancement aims to cater to the specific needs of major gaming companies by facilitating seamless buying and selling functionalities.



DISCLAIMER

The Azur team issued this white paper on September 29, 2022.

The current white paper took a look at Azur's business objectives and presented an overview of Azur's distinctive features which might not include all of them and may still be subject to further development or refinement.

By reading or accessing this white paper in any way you acknowledge automatically that you have read, understood, and accepted the website terms of service and conditions.

This white paper, along with any proposals offered throughout it, is exclusively designed for individuals who wish to participate in Azur ecosystem.

This document acknowledges that it may not encompass all the necessary details for every potential participant. Those who are interested should independently explore and evaluate the Azur project and the information provided within this white paper.

Azur has made diligent efforts to ensure that the information presented in this white paper is as precise and reliable as possible to the best of its knowledge.

This white paper is provided for educational and informational purposes only. It is subject to change or update, and should not be construed as a commitment or promise.



DISCLAIMER

This white paper is not a prospectus or a document offering financial services.

Any information provided here throughout the white paper or on our behalf via other communication channels is not a recommendation to buy, sell or hold tokens or other assets.

Check out our news and updates via our official website and social media channels. Azur will notify users of new updates via its website and social media channels.

Blockchain and cryptocurrencies, along with their tokens, are innovative and ever-evolving technologies. Apart from the risks mentioned here, there are unforeseen risks associated with your decisions to purchase, hold and using these tokens.

Irrespective of our technical team's efforts, Azur may incur investment losses depending on market conditions. Despite our team's efforts, there is the possibility of market instability or risk of market collapse.



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