

# **TIME**

Via

## **CAESIUM TOKEN**



**Whitepaper**



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# Abstract

Blockchain is an open network, which is entirely decentralized, dispersing any regulatory power from a governing body. A blockchain community is basically referred to a social group of varied sizes that share all the common characteristics or interests. In a blockchain network like that of TIME, the members of the group share the same ideas and interests about cryptocurrencies like Bitcoin, Ethereum, and several others. The KYC verification process implemented by TIME is simple where at a time, three users are verified and among them one will be a referral user and the other two will be randomly chosen types which is selected by the system. Any amount of data passing through the network gets updated to all the participants of the network in a consistent manner. This is the reason why every participant of the network receives updated information at all times. For the gaming part, when an individual is using the TIME blockchain to play a game, mining is initiated and new cryptos are generated once 10,000 users are enlisted as per POW (Proof of Work), POS (Proof of Stake), & POC (Proof of Capacity). CAESIUM tokens are basically fungible token or assets generated to fuel up CAESIUM Blockchain that allows user to exchange and trade within the CAESIUM ecosystem. It is quite similar to stock trading, crypto trading is a basic concept of trade and earn. You buy and sell coins or tokens keeping a profit margin in mind. Keeping the concept on similar ends, both stock and crypto trading yields profit when traded on right perspective.

**Keywords:** *Cryptocurrency, Bitcoin, TIME, Decentralized, Games, Blockchain, Prrof of Stake, Proof of Time, Proof of Capacity, Non Fungible Tokens, REIT, GPMS, DeFi, dApps, Fleet Management, Cryptographic Key*





## 2019

- ▶ Setting up an expert team to develop a high-quality game.

## 2020

- ◀ Development of Minimum Viable Product (MVP) of mobile game with the name "Alpha Return"
- ◀ Beta Version with Multiplayer Integration of "Alpha Return" – A Real Blockchain Game.

## 2021 Q1-Q2

- ▶ Integration of Alpha Return UI/UX development with introduction video.
- ▶ Prepare for the implementation of ITO
- ▶ Recruitment of Blockchain Experts, Programmers and Consultants.
- ▶ Launch of Whitepaper and Pre-ITO Phases.

## 2021 Q3-Q4

- ◀ Completion of ITO. Development of TIME Protocols and Integrations.
- ◀ Launch of BETA Version of TIME Protocol for selected and influential groups in Gaming Industry.
- ◀ Rolling out of Alpha Version of TIME Protocol using Hyperledger private and public blockchain for limited testing

- ▶ Sale through Pre-ITO to Angels and VCs Launching Token Contract on TRX after security audits and admin tests.
- ▶ Launch of Crowd sale Phase 1.

## 2022, Q1

- ▶ Launch of TIME Protocol BETA Version



Time is self-evident; it comprises of hours consisting minutes, days consisting hours and year consisting days. But we remotely think of the brass tacks of time.

Time is perpetually flowing without a halt. It has a phenomenon which follows an effective combination of action, process and/or conditions. With its indefinite course of existence, time is irreversible which flows through the past, present and future. Measuring varied events using the sequences, comparing duration in events, intervals, quality and quantity change in real time, defining the components of time.

Time is measured under different parameters – seconds, minutes, hours, days and years. On an average, every human being has an approximate timeline of 80 years to distinctively enjoy the mortal life. But, have you ever thought of the hours which are actually productive? Or have you ever calculated the hours which we might have utilized yielding productive outcomes?

## 1. INTRODUCING

### 1.1 TIME Blockchain

To calculate your productive hours and rewarding your efforts, here's TIME Blockchain for you. We measure your active time and mine according to your activity. Your active timeline is measured and calculated on pre-defined parameters which will be given back to you in the form of monetary rewards. Your productivity timeline will be tracked through the TIME ecosystem which will define your active hours generating rewards in CAESIUM.

### 1.2 Functions

TIME's Blockchain is digital, entrenched and public ledger linked and secured by cryptography. It is a continuous process of building blocks (containing a hash pointer, links of previous blocks, timestamp and transaction data). TIME blockchain works on the basis of Distributed Ledger Technology (DLT), and is ideal for verifying, performing and storing data and record transactions. TIME's blockchain works as a trusted third-party along with diverse functionalities and serves very well to the existence of cryptocurrency in the industry.



The blockchain network of TIME is a totally decentralized system, dispersing any regulatory power from a governing body. Any amount of data passing through the network gets updated to all the participants of the network in a consistent manner. This is the reason why every participant of the network receives updated information at all times. For the gaming part, when an individual is using the TIME blockchain to play a game, mining is initiated and new cryptos are generated once 10,000 users are enlisted as per POW (Proof of Work), POS (Proof of Stake), & POC (Proof of Capacity).

## 2. Proof of Time (POT)

Based on the network consensus mechanism, Proof of Time used in TIME's blockchain is a simple way of token contribution which is dependent on the active time spent on the network. Rewards are generated on the active time of users, the longer a user remains active, the more rewards are generated. The algorithm used by TIME blockchain is coded in such a manner to randomly generate tokens and mine as per the total time spent in the blockchain network. The algorithm used for measuring POT in TIME's blockchain is a trusted code which is applicable for POW, POS, and POC.

To generate more tokens inside the TIME blockchain network, the user has multiple choices in form of the TIME ecosystem which can be accessed using unique IDs. The unique IDs are first verified in the network by the admin until the total number of users crosses the 10,000 mark which will then activate TIME blockchain and generation of new CAESIUM tokens will be initiated in an automated manner as per the algorithm, helping contribution to the TIME blockchain. Among all the ecosystems, in the gaming section there is proof of play which states the total time spent playing by an individual for any of the games and must continue playing in order to contribute to TIME blockchain.





### 3. CAESIUM Token

CAESIUM introduces its first-ever Non-Fungible Token for the TIME community.

The TIME ecosystem is a simple concept which is open-source type that is particularly built for providing wide range of use cases and demand of CSM based on our community support. These can also be called as utility credits which are community based crypto, fully transparent, and is equal to all the participants of the network.

Similar to stock trading, CAESIUM token work on the basic concept of trading and earning, and here you need to buy and sell coins or tokens, keeping a profit margin in mind. However, acknowledging the concept on similar ends, both stock and crypto trading yields profit when traded accordingly.

#### 3.1 CAESIUM Token

CAESIUM tokens are basically fungible token or assets generated to fuel up CAESIUM Blockchain that allows user to exchange and trade within the CAESIUM ecosystem. It is quite similar to stock trading, crypto trading is a basic concept of trade and earn. You buy and sell coins or tokens keeping a profit margin in mind. Keeping the concept on similar ends, both stock and crypto trading yields profit when traded on right perspective.

CAESIUM tokens are digital assets linked and secured by cryptography. The tokens are created as a continuous process of building blocks (containing a hash pointer, links of previous blocks, timestamp and transaction data). The blockchain works on the basis of Distributed Ledger Technology (DLT), and is ideal for verifying, performing and storing data and record transactions for the CAESIUM tokens being generated.





### 3.2 Concept of International Atomic Time

International Atomic Time is a very simple and interesting subject to study. The atomic time is a highly-precise, atomically coordinated time standard that is based on the notional passage of earth's time. This form of time scale is basically used for determining local times across the globe and gives us the perfect information about how the clocks should be set according to the passage of time.

Also known as astronomical time, TAI is dependent on the earth's rotation and the actual length of a day on the planet. International Atomic Time or TAI makes use of nearly 400 highly precise time keeping atomic clocks which is integrated altogether as per TAI time scale. These clocks are highly precise and deviate only 1 second in up to 100 million years. International system units (SI Units) are used to define a second as the time it takes a **Caesium-133** atom oscillating **9,192,631,770** times from ground zero.

TIME is built on the concept of International Atomic Time.

### 4. CAESIUM TOKEN SUPPLY

Total Supply = **9,192,631,770**

Pre-Sale Supply = **16 Million**

1 Million coin to be given through air drop = **50 coin/email**

Value of the next 5 Million Coin = **\$0.10 - \$0.30**

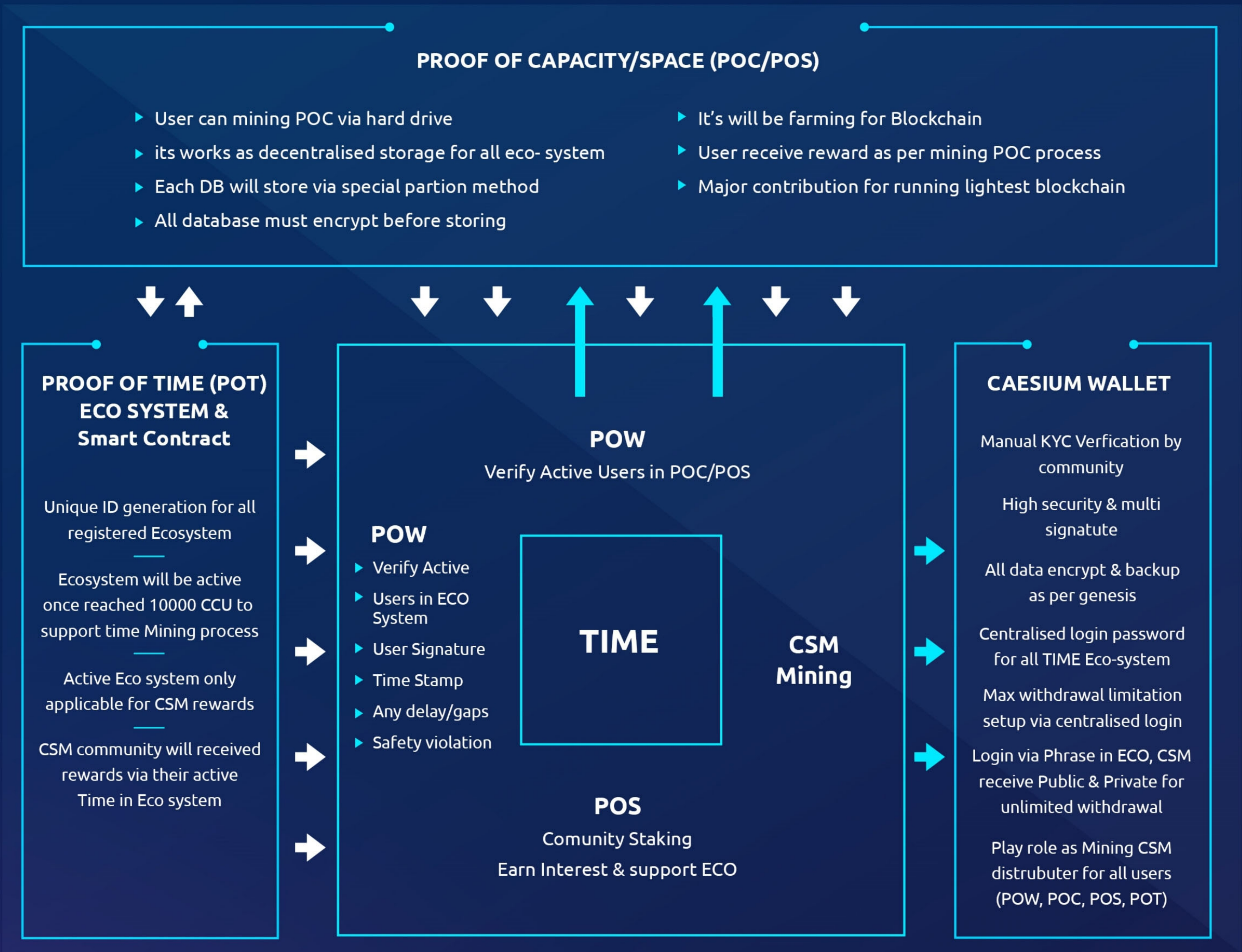
Value of the next 10 Million Coin = **\$1.00 - \$5.00**



Time Blockchain



## 4.1 Technical Architecture Of Time Blockchain



This Diagram shows a precise architecture of the Time blockchain. The middle section is the actual time block chain surrounded by POW, POS & CSM mining. This blockchain is a hybrid solution of all these consensus algorithms.

Proof of time is being managed by the ecosystem (Game for this version) & smart contract where unique ID every user will have unique ID for all registered eco system. Eco system will be active once reached 10000 CCU to support time mining process. After activating the eco system users will be eligible for CSM rewards. They will receive reward via their active hours in eco system. As a second layer POW will verify the users in Ecosystem, user signature, time stamp, delay gaps & also safety violation & then allow this to connect with time blockchain.



On the other hand Proof of capacity also plays an important contribution connecting with Proof of work altogether. With this site Users can mine POC via hard drive. It will work as a decentralized for all ecosystem. Each DB will be store via special partition method. All data must encrypt before storing. User will do mining & receive rewards as per mining POC process. As a second layer POW will verify active users in POC & then connect that to Time blockchain.

After successful verification of 10000 active users based on different parameters the time blockchain will get activated and CSM mining process will get started which will connect the users with Caesiumlab wallets. With Ceasiumlab Wallet user have to do manual KYC, the date will be fully encrypted, there will be a centralized login & password for all ecosystem connected with Caesiumlab wallet.

## 4.2 Users Journey

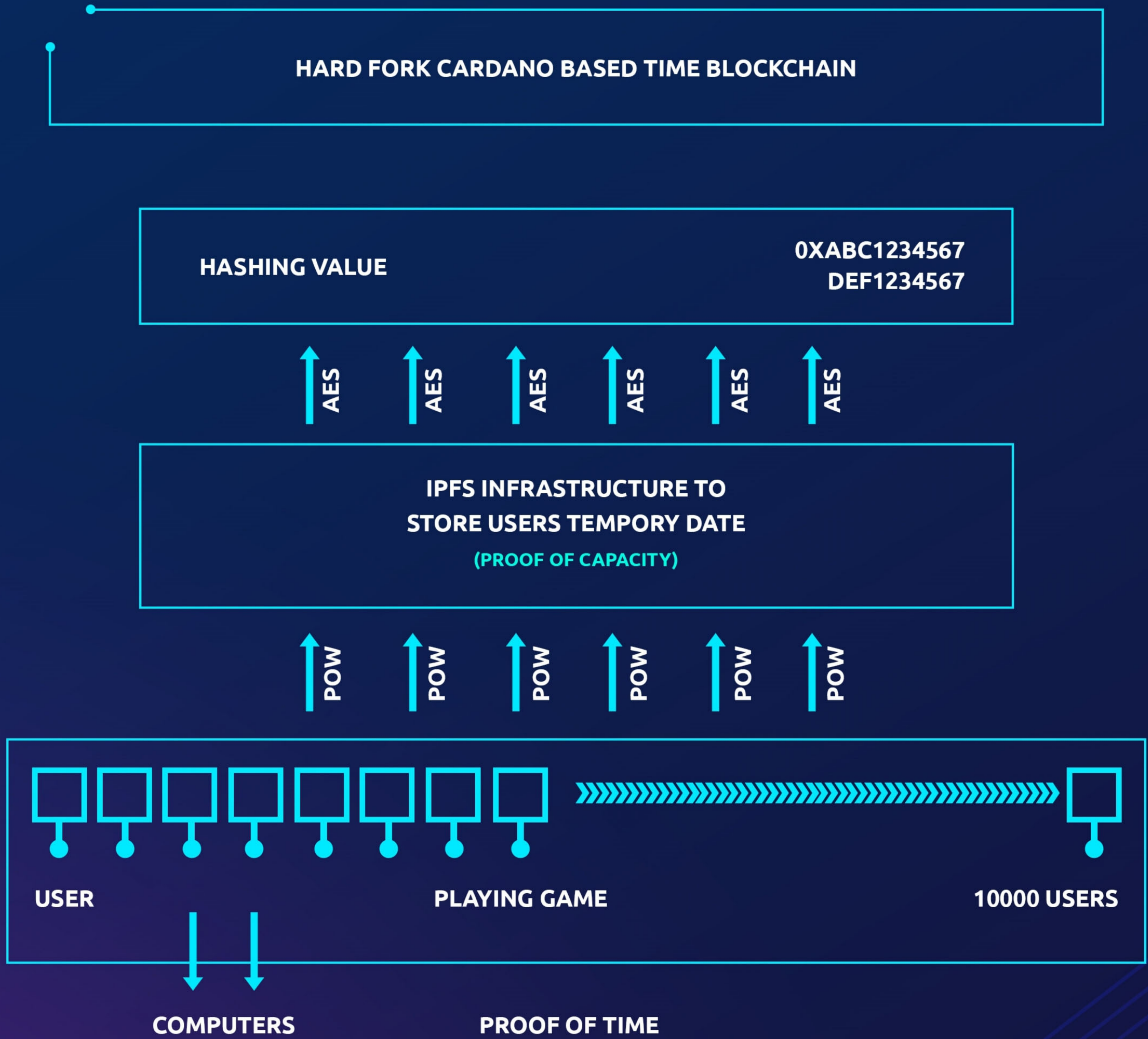


User as a game player will start playing game on Alpha Return platform ([www.alphareturns.tech](http://www.alphareturns.tech)). They can log in with their globally registered unique ID Caesium wallet & start gathering assets from marketplace. They can buy different weapons, grounds, Infrastructures from this marketplace platform with the help of CSM token which they can get from Caesium wallet.

Then they can create their Avatars & start playing different phases of game & try to be more & more active with ecosystem so that at least 10000 CCU will get connected into a network & time Blockchain get activated. Once the time blockchain will get activated they can mint their avatars as a NFT & do the mining process with the help of CSM token & generate rewards in form of CSM token.



### 4.3 Flow Diagram:





## 4.4 Calculation:

Halving	Total Max Minutes	Hours	Days	Years	Block	Max user in 10 mins	CSM Generation	Target Halving Reached
1st	10				1	610,352	1,000,000	First 2 year
2nd	100	1.67			10	1,220,703	1,800,000	
3rd	1000	16.67	0.69		100	2,441,406	3,240,000	
4th	10000	166.67	6.94		1000	4,882,813	5,832,000	
5th	100000	1666.67	69.94		10000	9,765,625	10,487,600	
6th	1000000	16666.67	694.44	1.90	100000	19,531,250	18,895,680	The Next 3years
7th	10000000	166666.67	6944.44	19.03	1000000	39,062,500	34,012,224	
8th	100000000	1666666.67	69444.44	190.26	10000000	78,125,000	61,222,003	
9th	1000000000	16666666.67	694444.44	1902.59	100000000	156,250,000	110,199,606	The Next 8years
10th	10000000000	166666666.67	6944444.44	19.025.88	1000000000	312,500,000	198,359,290	
11th	100000000000	1666666666.67	69444444.44	190258.75	10000000000	625,000,000	357,046,723	
12th	1000000000000	16666666666.67	694444444.44	1902587.52	100000000000	1,250,000,000	642,684,101	
13th	10000000000000	166666666666.67	6944444444.40	19025875.19	1000000000000	2,500,000,000	1,156,831,381	
14th	100000000000000	1666666666666.67	69444444444.44	190258751.90	10000000000000	5,000,000,000	2,082,296,487	-
15th	1000000000000000	16666666666666.70	694444444444.44	1902587519.03	100000000000000	10,000,000,000	3,748,133,676	

As per the latest rules and regulations implemented, to use TIME's blockchain the user has to create unique IDs after undergoing KYC verification, then only the user will be able to make a valid contribution in TIME's blockchain. To do so the user has to remain active with all the ecosystems and must have a minimum of 10,000 valid users for gaming ecosystem as offered by TIME. Once the maximum mark of 10,000 users have reached for ecosystem, it will consequently activate TIME's blockchain network automatically. To make contributions in CTIME's blockchain the users have to stay active using the unique IDs and then only the blockchain will remain active.

The rules and regulations of using TIME's blockchain is simple, the only thing required here is to create a valid unique ID after going through the KYC process as implemented by TIME. The basic idea behind TIME's ecosystem is DLT (distributed ledger technology) based and comes with different business logics and policies. Activation of TIME's ecosystem and being attached to the blockchain is a simple concept to understand. Once 10000 unique users are registered for in an ecosystem Gaming. The concerned ecosystem gets attached and activated in the TIME Blockchain. In order to attach with TIME's blockchain the user has to go through the KYC process helping create a unique UI to be accessed with a public and private key or even seed phrases as well. After the completion of verification and approval of the user IDs, TIME's ecosystems will be activated and every ecosystem initially must hold 10,000 valid users with verified KYC which will initiate the activation of TIME's blockchain network.



## 4.5 Generation of Asset ROI

Asset ROI or Return on Investment is basically counted as the return on assets invested is primarily a measurement of profit from the potential return against investment in TIME blockchain. There are many ways of determining asset ROI, however, the common method used for calculating ROI is by dividing the net profit into total number of assets. Using TIME blockchain, users have the option of increasing ROI and asset quantities simply by staking on the network or even when actively playing the game. The items acquired in a game like coins, power boosts, game levels, or any other items acquired in the game. Users even get the option to sell or buy the items in TIME Auction Platforms.

## 4.6 Consensus & Unique Selling Point

The consensus involved in TIME's blockchain network is a fraud-proof mechanism, used in the computers to comply, according to the electronic agreement on the distributed network. TIME's blockchain is decentralized and is operated using self-regulating systems working on a huge scale. This involves the contribution of the 10,000 network users or participants for every ecosystem who have been successfully verified and authenticated using unique user IDs. Improved efficiency and speed are firstly and foremostly considered for any blockchain network, and TIME's blockchain network eradicates any man-made errors by taking the advantage of automation.

The unique selling point of TIME's blockchain network is calculated by the total time spent and cryptos mined on the network which will provide the rewards afterwards. When the user joins the network by completing the KYC verification process, then a unique ID is created for every user which is applicable for all the ecosystems, but the user will also have a separate user ID as well. Once the 10,000-user mark per ecosystem is achieved the ecosystem gets activated and is now ready to join TIME blockchain. In terms of reward generation, as specified earlier, it is dependent on the active time of users. Rewards will be generated according to the active time spent in every ecosystem, but in that case, the ecosystem should be connected to TIME's blockchain first.



## 4.7 Mechanism of Decentralization

The basic concept of decentralization in a blockchain network is the transfer of authority or decision-making power from a centralized entity to a distributed network like TIME's blockchain network. The information of an individual using TIME's blockchain is not stored in a centralized location or server. Instead, the information is stored in blocks or nodes which is then copied and spread across the network computers. When a new node is created in TIME's blockchain network, the information is instantly updated in the network and notified to its participants.

Driven by DLT or Distributed Ledger Technology, the blockchain network of TIME is decentralized with trusted ledgers recording all the transactions happening on the P2P or peer-to-peer network. The entire mechanism of decentralization basically works according to hashing but is dependent on TIME's blockchain, POS (Proof of Work), POS (Proof of Stake), and POC (Proof of Capacity). TIME's blockchain is entirely decentralized and the transactions are recorded across different computers in the digital ledgers also known as blocks.

## 4.8 Unique ID Generation

To access TIME's blockchain comprising of all the ecosystems, the user has to create unique user ID in order to access all the ecosystems - Gaming, Fleet management, GPMS, Finance/E-commerce, Stack, Trading, REIT, Education, EHS, and IoT security systems using both private and public keys. In terms of creating unique user IDs, the user also has the option of creating IDs using phrases or sentences written in English which will serve as password to access the ecosystems. Seed phrases can be used for unique ID generation and to encrypt the private key as well. These phrases can be written in English along with characters in a readable format.

Unique IDs generated on TIME's blockchain will have both the private and public keys which work using the cryptographic system, and the public key is used for identification purpose, whereas, the private keys are not disclosed and are only used for authentication and encryption process. The generation of unique IDs in TIME's blockchain starts with the generation of a private key and the corresponding public key is generated using the algorithm used in the computer. After creation of the unique IDs, the user can access TIME's blockchain network and the ecosystems. When the user joins the network by completing the KYC verification process, then a unique ID is created for every user which is applicable for all the ecosystems, but the user will also have a separate user ID as well.



## Unique ID generation for all ecosystem

In general, identity of an individual is the collection of information or personal details to be registered in any database. For any individual it might consist of the first and last name, nationality, date of birth, and any other personal information which can be shared with a decentralized or any other platform. TIME has developed several ecosystems for a varied segment of users and the ecosystems are; Gaming, Fleet management, GPMS, Finance/E-commerce, Stack, Trading, REIT, Global Education System, EHS, and IoT security systems. These ecosystems can be accessed by the users of TIME blockchain only after successfully completing the KYC and verification eventually.

TIME blockchain will be activated once all the ecosystems have reached a minimum of 10,000 active users holding a unique user ID. Once registered using the unique IDs, the ecosystems can be successfully added to TIME's blockchain and apart from the unique user IDs applicable for all ecosystems, they will also have a separate user ID as well. In other words, the entire process is very simple, all the ecosystems of TIME can be accessed using the unique IDs and earn rewards in return from the blockchain network

### 4.9 Rules & Regulations

As per the latest rules and regulations implemented, to use TIME's blockchain the user has to create unique IDs after undergoing KYC verification, then only the user will be able to make a valid contribution in TIME's blockchain. To do so, the user has to remain active with all the ecosystems and must have a minimum of 10,000 valid users for each and every ecosystem as offered by TIME. Once the maximum mark of 10,000 users has been achieved for every ecosystem, it will consequently activate TIME's blockchain network automatically. To make contributions in TIME's blockchain, the users have to stay active using the unique IDs and then only the blockchain will remain active. The rules and regulations of using TIME's blockchain is simple, the only thing required here is to create a valid unique ID after going through the KYC process as implemented by TIME.



## 4.10 KYC Approval & Community Support

KYC or Know Your Customer is a basic process which determines the exactness of the details provided by every user of the blockchain network. TIME has designed a unique KYC process, using DLT (Distributed Ledger Technology) to verify every user wanting to access every ecosystem and to be a part of TIME blockchain. Blockchain is an evolving technology and relies on cryptography helping define the identities of the network participants. For instance, to become a part of TIME's blockchain, the user must have a unique ID which will undergo stringent verification process and this ID will act as a digital watermark assigned to every user. The KYC process has its own significance as it allows the organizations to check the identities of every virtual transaction in real-time.

A blockchain community is basically referred to a social group of varied sizes that share all the common characteristics or interests. In a blockchain network like that of TIME, the members of the group share the same ideas and interests about cryptocurrencies like Bitcoin, Ethereum, and several others. The KYC verification process implemented by TIME is simple where at a time, three users are verified and among them one will be a referral user and the other two will be randomly chosen types which is selected by the system. The KYC process is applicable for all the ecosystems offered by TIME and everything is done in an entire decentralized manner without the intervention of any financial body, and the KYC is completed and approved by the admin only.

## 4.11 Activation of Ecosystem

### Activation of ecosystem once attached with blockchain

The basic idea behind TIME's ecosystem is DLT (Distributed Ledger Technology) based on and comes with different business logics and policies. Activation of TIME's ecosystem and being attached to the blockchain is a simple concept to understand. Once 10,000 unique users are registered in an ecosystem (Gaming, Fleet management, GPMS, Finance/E-commerce, Stack, Trading, REIT, Global Education System, EHS, and IoT security systems) the concerned ecosystem get attached and activated in the TIME Blockchain

In order to get attached with TIME's blockchain, the user has to go through the KYC process helping create a unique ID to be accessed with a public and a private key or even seed phrases as well. After the completion of verification and approval of the user IDs, TIME's ecosystems will be activated and every ecosystem initially must hold 10,000 valid users with verified KYC which will initiate the activation of TIME's blockchain network.



## 4.12 Wallet & Airdrop

### Wallet integration and airdrop requirement

A wallet is basically an electronic method of storing digital currencies or cryptocurrencies in a secure manner. The wallets provided by TIME is a decentralized type which can be used for both transaction and to store the payment information as well. These wallets allow the user to transfer fund to one another and to hold funds and even store user IDs as well. From the security's perspective, the wallets are quite secure as there are many security features embedded which helps storing all the information in the safest way possible.

Airdrop is basically a promotional activity as witnessed and offered by many blockchain service providers for the funding purpose of a digital currency project. The wallets can be used for single airdrop which is usually done by air-dropping equivalent number of coins or tokens to the users registered with the blockchain platform. Single airdrop is allowed by TIME for a single user having a valid email ID. The upper limit for a single user is limited to a maximum of three emails where 50 coins can be airdropped for every email.

## 5. TIME virtual machine or TVM

TIME virtual machine is basically a computing means which uses an algorithm rather using a computer to run or deploy apps or decentralized applications. TIME's smart contract is developed to allow the developers create and deploy dApps seamlessly. These applications are basically software that exist and run on a blockchain network or a P2P network of computers instead of using a single computer and the computer will always be outside the control of any entity or any authoritarian body.

TIME virtual machine allows the user to be a part of the TIME smart contract environment and develop any decentralized app or dApps. Once the apps are deployed in the blockchain network as per the smart contract, the features of the apps cannot be changed or altered, thus enhancing security and reducing downtime consequently. With TIME smart contract, the users or the developers get to create and deploy dApps without any downtime in the most secure way possible. The dApps are best used in a P2P network which acts as an operating system with a secure and resilient software ecosystem. Using TIME blockchain, the developers can even create different online tools, best suited for global business markets.



## 6. CAESIUM Auction Platform

CAESIUM can be utilized for more token creation with the decentralized games and a fully decentralized auction platform. The platform is a dynamic auction market which is the right place for increasing prices of the auctioned item. The platform is governed by TIME protocols. Bidding logic is simple and is designed in such a manner that there is two-way trust between the network participants.

### Transparent process

The process is transparent, as if any information about the bid changes, the digital signature would change as well. This enables everyone to be able to verify bid information.

### Efficient process

If someone tries to compromise the blockchain and edit the digital signatures, the attempt would be immediately noticeable and rejected by the network.

### Secure process

Each transaction/change to the data is signed with a secure cryptographic “digital signature” which is published to a public blockchain for posterity.

The auctions are pushed online where the seller holds their items to be sold at the highest bided price and the platforms are very efficient as they are totally decentralized not being controlled by a governing body. For the auctions being held, there are consensus applied and comes with simple concept of buying and selling scenario throughout the bidding process.

### Summarization

Summing up everything, CAESIUM offers a transparent platform providing you with the opportunity to create new tokens and earn rewards using various means on the offering. With PoW or Proof of Work, it becomes easy to provide security and verify non-fungible assets or NFA in TIME blockchain. With unique ID generated for every ecosystem, it helps identify the asset holders or the “Owner” of the tokens created. With PoC or Proof of



In terms of mining new coins, every transaction starting from the first block and the asset transactions will be recorded in TIME's Decentralized Ledger (TDL) will be adopted by validators also known as "POOL" and every user will be able to register as validators with applicable terms and conditions where they can earn reward as per the stake on the POOL. For gamers to achieve better gaming statistics, all they need to do is finish the preceding levels and purchase the higher levels to receive more rewards with each passing level Time Virtual Machine (it is a TIME smart contract that allows the developers to create and deploy dApps in the most secure way possible).

## 7. TIME Ecosystem

The TIME Ecosystem works on the concept of Proof of Time. Establishing the effects of productivity surrounding the activities you perform within a distinctive period of time; the miner gets activated to mine and reward you as calculated.

The TIME ecosystem comprises of the following aspects

### 7.1 Caesium Ecosystem Categories

#### GAMING



Decentralize Games and Decentralized Auction Platform.

The game's assets are represented as non-fungible tokens (NFTs)

Marketplace – Allows in-game elements or items to be tokenized & exchanged with other peers

#### dApps



Fleet Management, Global Product Management System (GPMS), Environment, Health and Safety (EHS), and Global Education System

NFTs can be used on these apps, which are made for assisting business operations.

This leads to an increase in productivity and efficiency.

#### DeFi



CAESIUM Wallet, Exchange (Trading), Real Estate Investment Trust (REIT), Crypto Lending, Crypto Custodial Service, and Decentralized Will Service (DWC).

#### IoT and Blockchain



Data Security, Cryptographic Key, Authenticating IoT Devices, Usage of IoT Data Encryption, and PKI Security



## 8. Category - Gaming

The global gaming market was valued at USD 162.32 billion in 2020 and is expected to reach a value of USD 295.63 billion by 2026, registering a CAGR of 10.5% over the forecast period (2021 – 2026). Game developers across emerging economies are continually striving to enhance gamer's experience, launching, and rewriting codes for diverse console/platforms, such as PlayStation, Xbox, and Windows PC, which are incorporated into one product provided to the gamers through the cloud platform.

Adopting the concept of Blockchain, multiple companies and entities are coming ahead to build their games on blockchain. With the innumerable opportunities as offered by the Blockchain technology, the gaming platforms are being redefined. Scalability, seamlessness, transparent and secure, games built on blockchain brings out the best for gamers and blockchain enthusiasts.

### 8.1 Ecosystem – Alpha Returns

Alpha Returns – A Blockchain Game built on the integrated concept of Active Playing Time (APT).

Alpha Returns is a multiplayer game which calculates the active playing time of the users, trades their assets and generate returns on the investment. The game enhances the power of players, enables a battle zone for miners to fight and earn rewards and achievements. Users will play and earn coins which will be calculated on the users' active time on the game. The coins earned will be traded real-time which will generate the ROI and distributed to the Users.

TIME's Alpha Returns Game is built on the core competences of Blockchain and gives you an action-packed environment to play. TIME has built the first ever truly decentralized digital scarcity game. Alpha Returns runs on the concept of decentralization where no one owns the actual game and the developers hold no control on the game and on its features once deployed in the Blockchain ecosystem. The ever-growing TIME community will be able to verify the transactions and actions taken within the ecosystem without the involvement of any third-party entities.



## **Challenging –Alpha Returns is Challenging and Action-packed.**

Why do we need challenging games? Age old sayings define that people usually enjoy games when they get opportunity to enhance their performance on a challenging environment. As described by Dr. Scott Rigby, President of Immersyve, a research firm that has worked with companies like Warner Bros., Disney and Electronic Arts gave a detailed insight. According to him, *“Decades of research on what energies drive us intrinsically show repeatedly that we have a basic need to grow our abilities, to integrate new experiences, learning and improving as we go along. We can see this in our pursuit of challenges in games, but just as easily in our excellence playing soccer with friends, or seeking out new challenges at work etc. We like it because success at a challenge satisfies this basic need to feel mastery and growth – a need that has energized us for thousands of years to keep exploring, innovating and tackling new frontiers.”*

## **Decentralized –Alpha Returns is built on the Blockchain Decentralization Ecosystem.**

The basic concept of Decentralization is to remove any third-party influence within the network. Without any centralized entity, within the distributed network, there’s no ownership or decision-making authority. Alpha Returns is built on the decentralized system which has an architecture where once the game is deployed, no one can make any changes in the game. All members within the community can view and verify the transactions, game scores, coins, trades, battles etc. But no modifications can be done in the network. Assuring fairer and greater service to all associated members within the community, decentralization is an answer to a stable environment. Games built on the decentralized modules are getting widely popular these days, pertaining to their increasing ownership in the world market.

## **Transparent – Alpha Returns is built on the concept of Blockchain Transparency.**

Transparency within a network is appealing. Games built on the Blockchain technology enforces law and accountability. Addition to that, a sense of privacy with enhanced protection to data and information is provided. Hence, the transparency which Alpha Return provides to the community is incomparable. TIME Ecosystem offers the transparency where users within the community will be able to verify the transactions and actions within the gaming zone.



## **Security – Alpha Returns issues security and trust.**

Built on Blockchain's encryption technology – Alpha Returns offers maximum security to transactions, assets and data for users. How secure is the game?

Keeping an example of Bitcoin - Blockchain technology accounts for the issues of security and trust in several ways. First, new blocks are always stored linearly and chronologically. That is, they are always added to the "end" of the blockchain. If you take a look at Bitcoin's blockchain, you'll see that each block has a position on the chain, called a "height." As of November 2020, the block's height had reached 656,197 blocks so far.

After a block has been added to the end of the blockchain, it is very difficult to go back and alter the contents of the block unless the majority reached a consensus to do so. That's because each block contains its own hash, along with the hash of the block before it, as well as the previously mentioned time stamp. Hash codes are created by a math function that turns digital information into a string of numbers and letters. If that information is edited in any way, the hash code changes as well.

Here's why that's important to security. Let's say a hacker wants to alter the blockchain and steal Bitcoin from everyone else. If they were to alter their own single copy, it would no longer align with everyone else's copy. When everyone else cross-references their copies against each other, they would see this one copy stand out and that hacker's version of the chain would be cast away as illegitimate.

Alpha Returns is built with the collection integrations of random number generation, decentralized breeding algorithm, battle implementation, distinctive game mechanics – representing a broader economic model which emphasizes on the strengths of the games built on blockchain. The philosophical background, technical foundations and the economic model of Alpha Returns are pre-defined, whereby assets supply is limited by the proposed game mechanics.

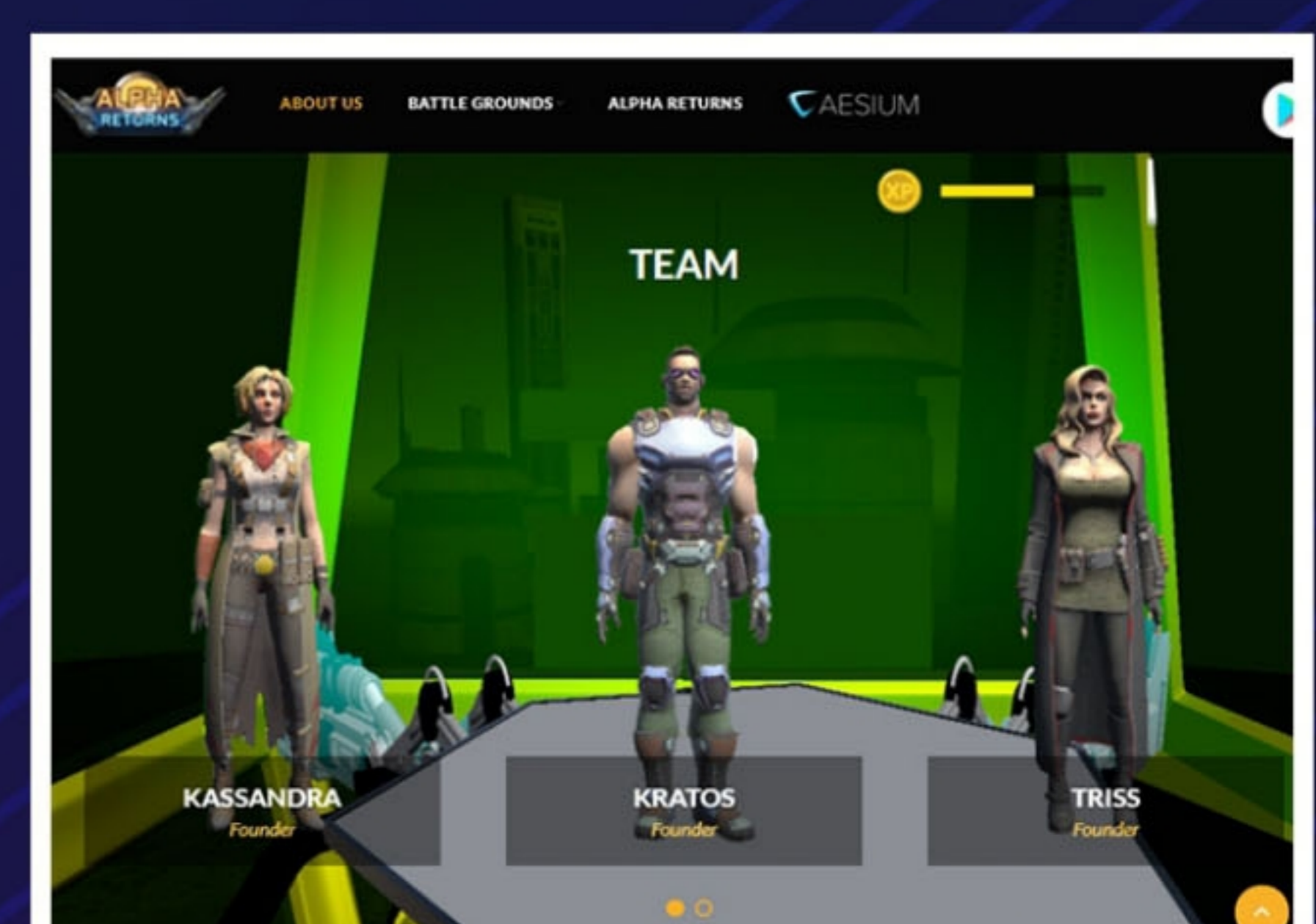
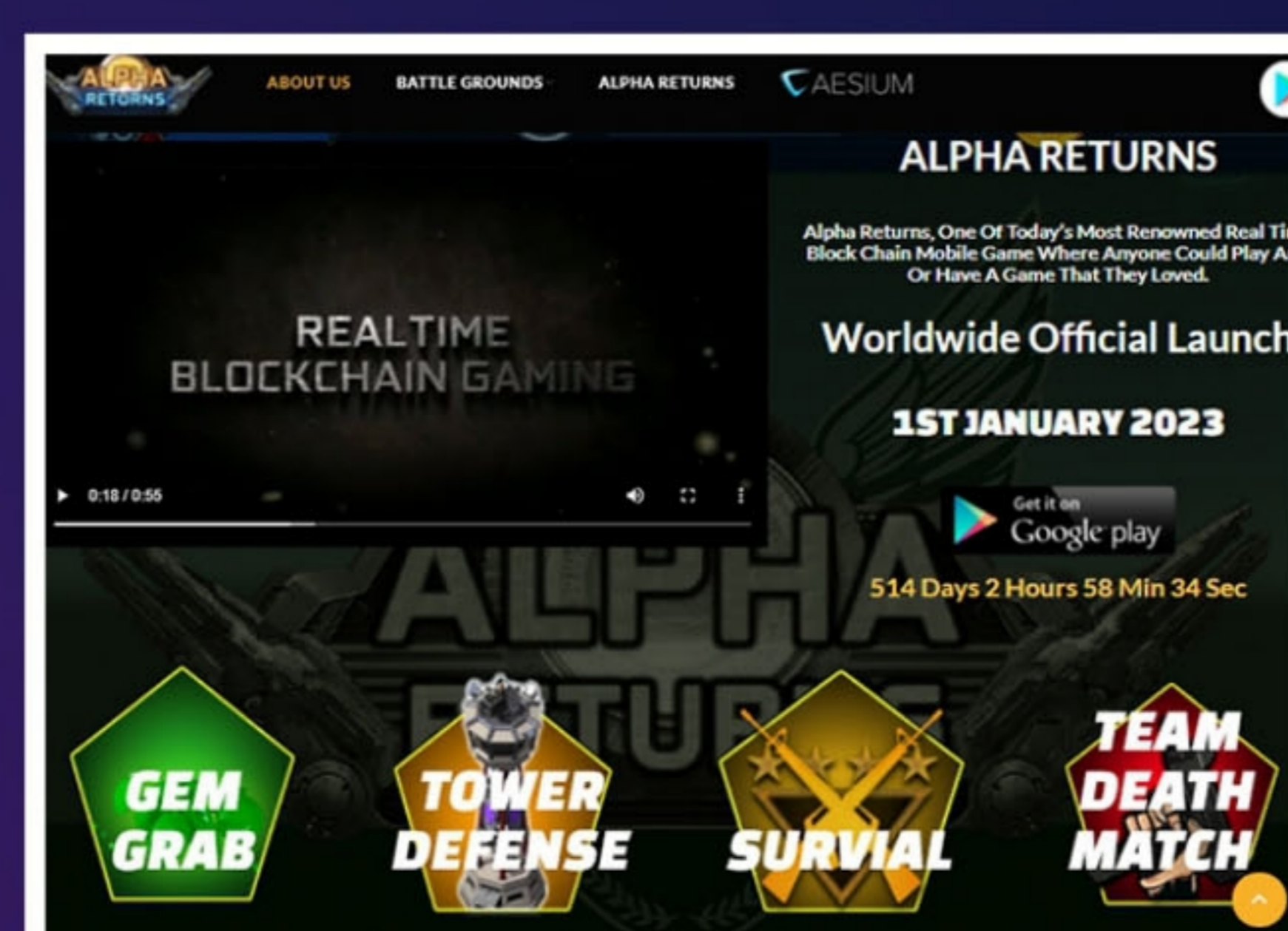
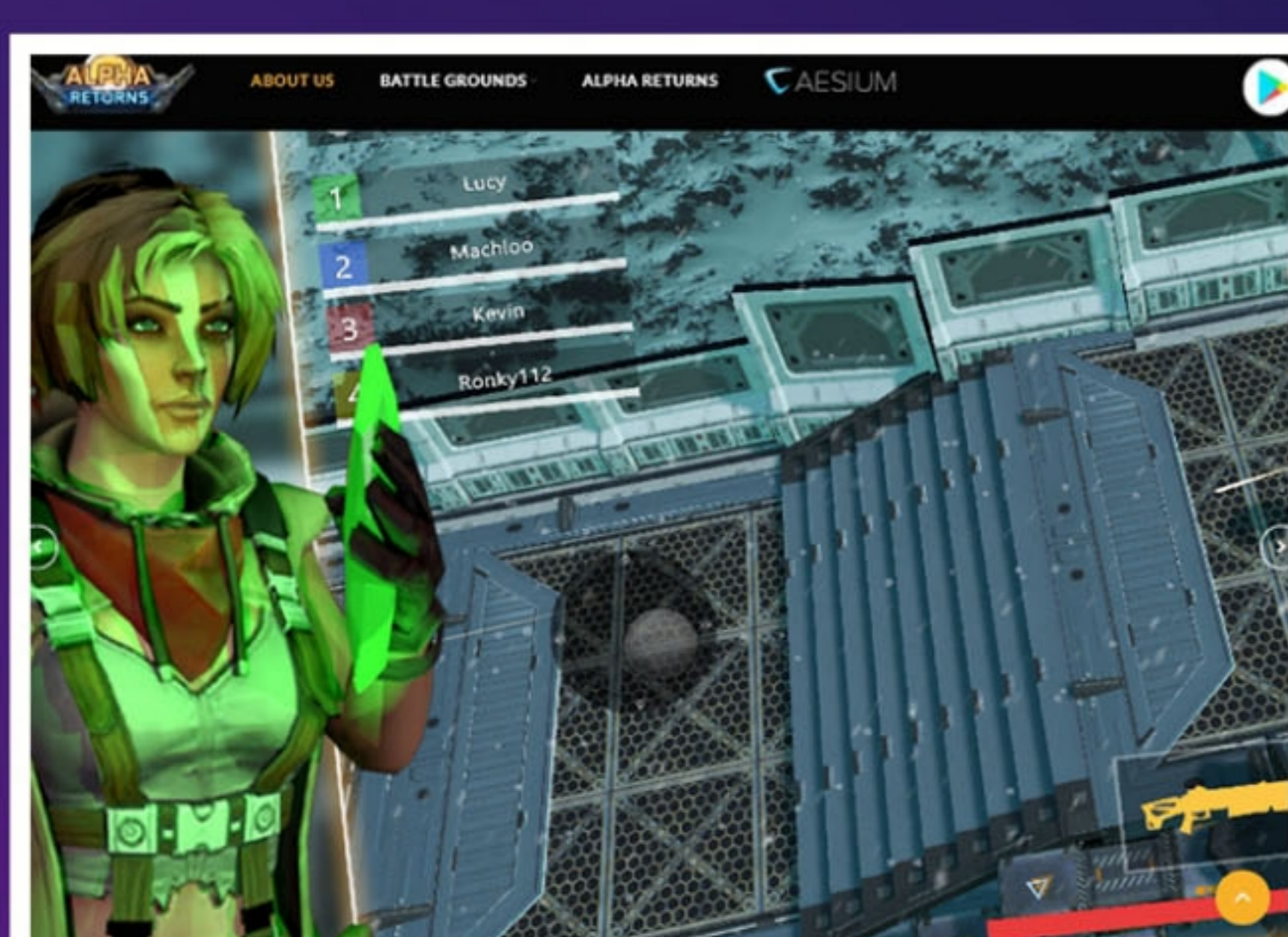
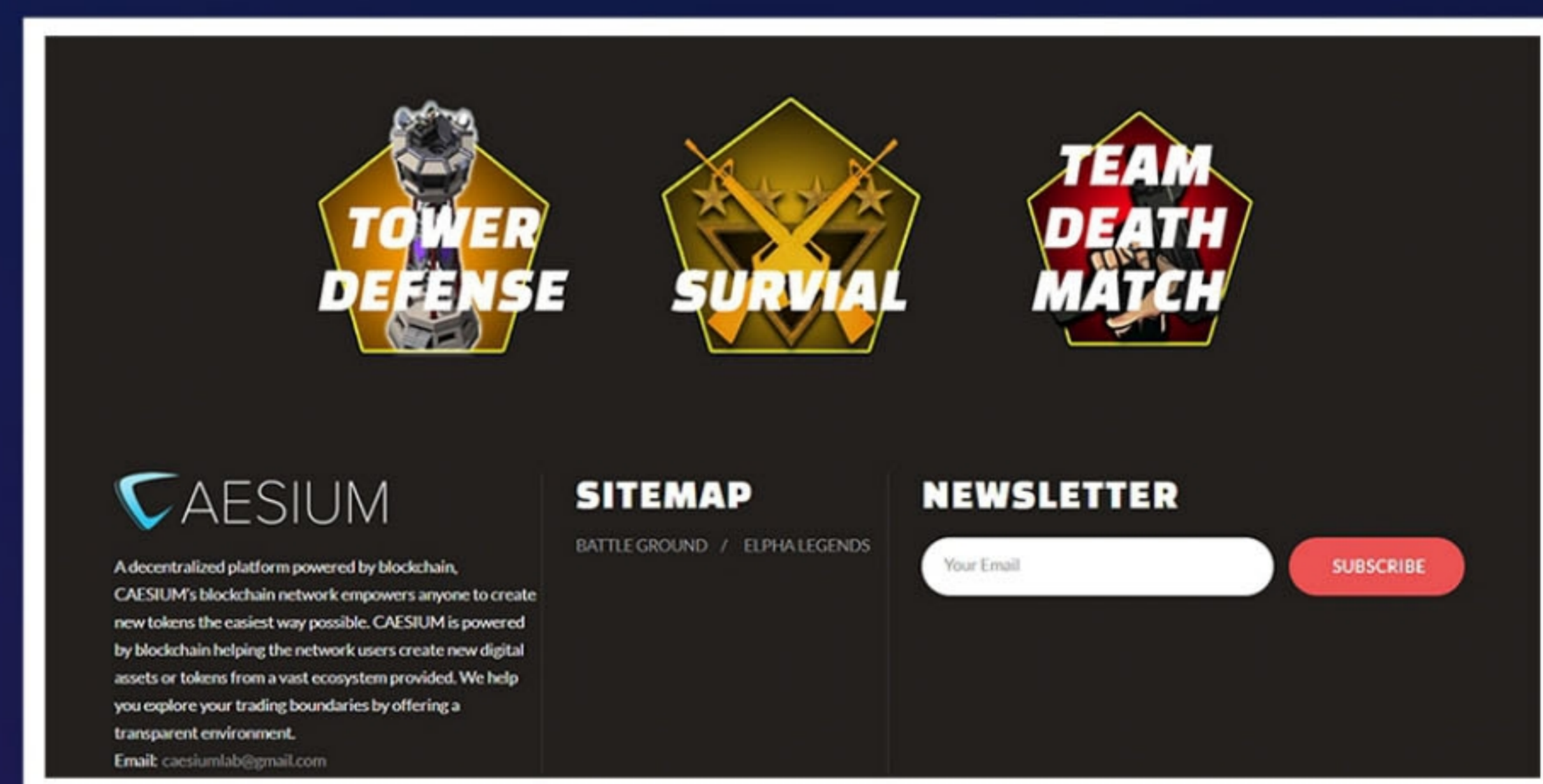
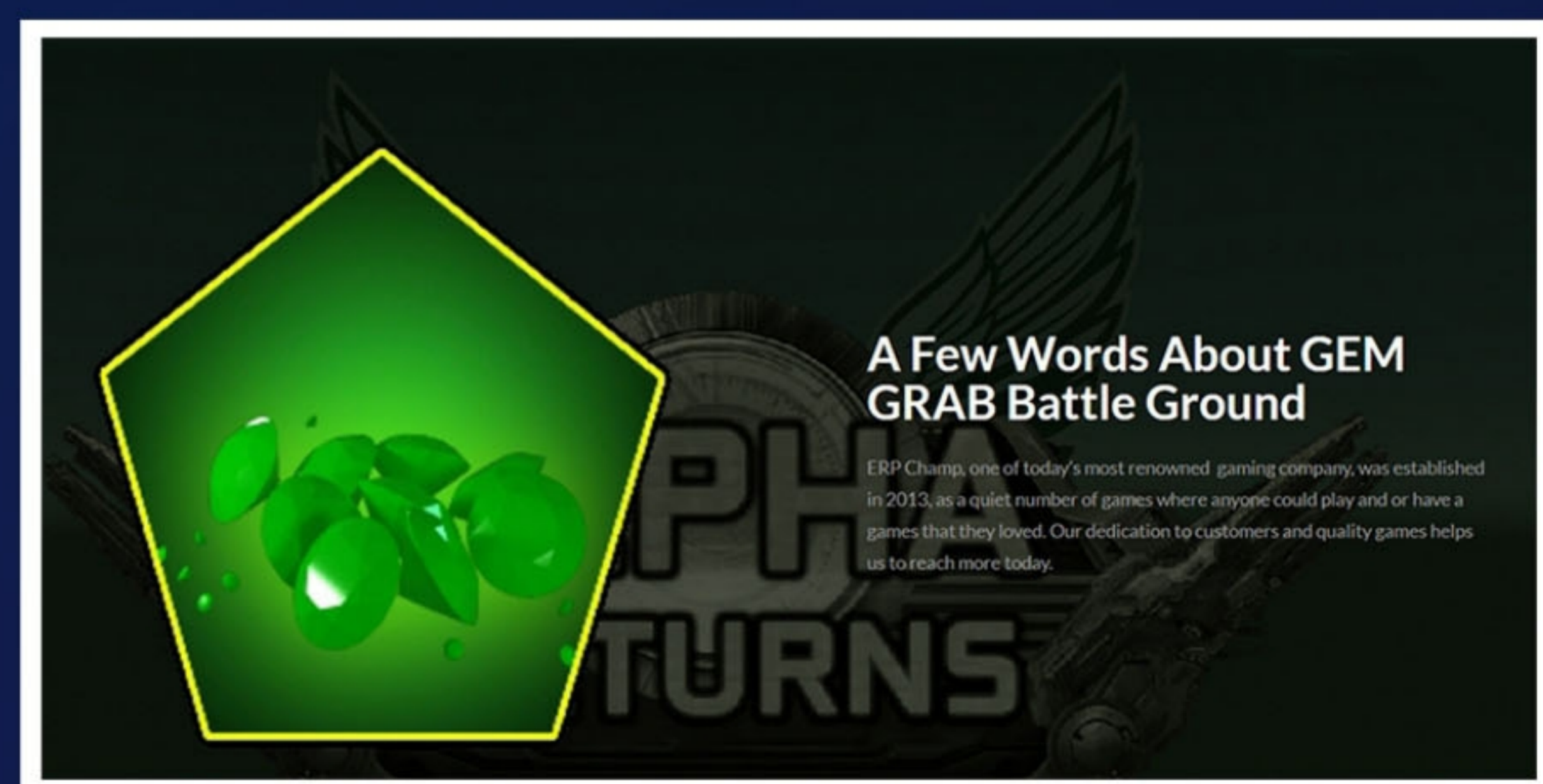
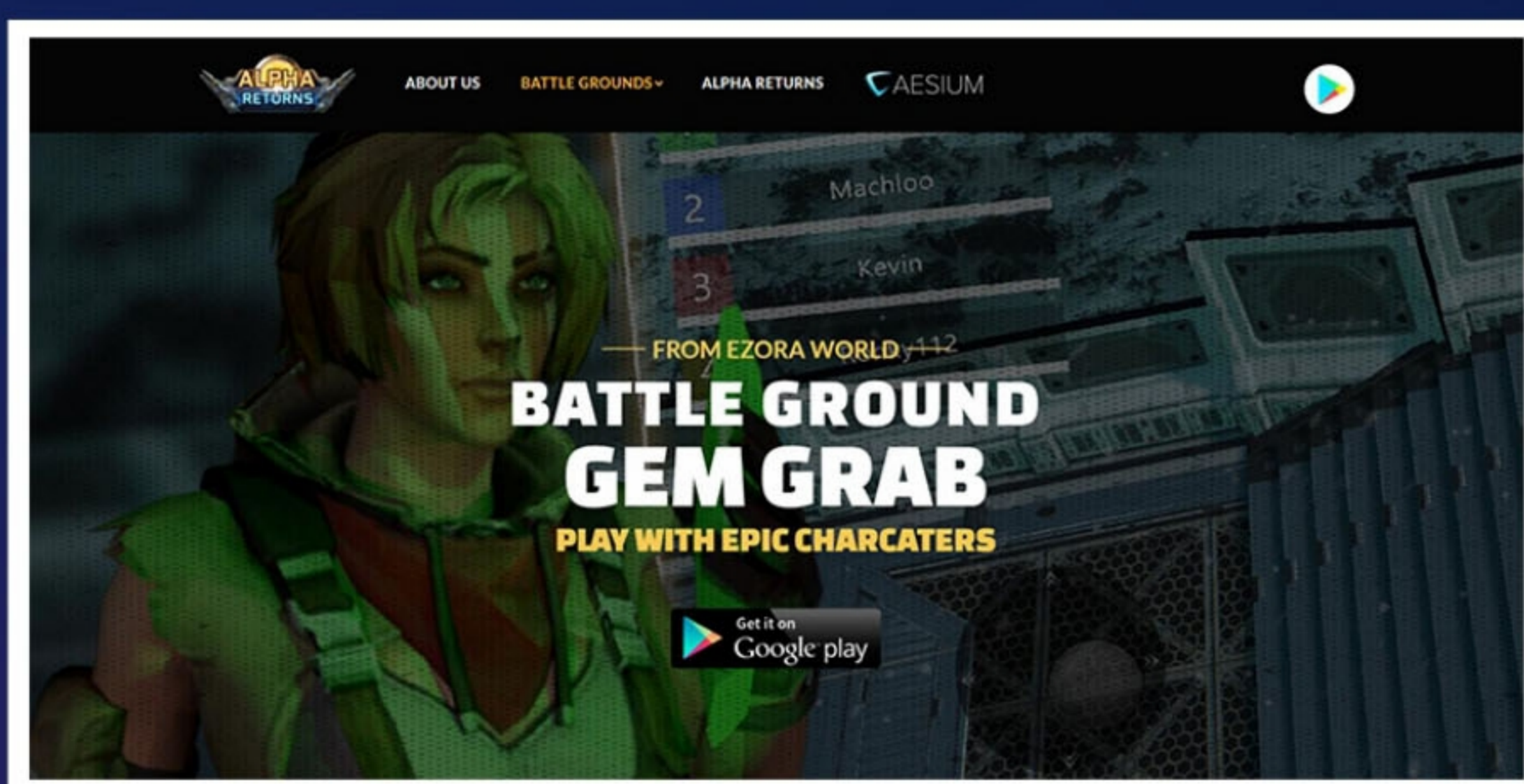


## 8.2 Features of Alpha Returns

### Alpha Returns - an engaging and Action-packed game

Released in the Alpha Returns series, it is an engaging and action-packed game developed for users of all age groups, especially targeting the younger audience. It is an action-packed game where you define your landing spot and free fire to help you survive through all the levels of the game. It is a war game offering many challenges and levels to score more and get better stat drops at the same time. Actively playing the game brings in many earning possibilities and longer the user survives, the challenges offered in every level higher are the chances to earn more.

Alpha Returns is developed for reward generation and is based on a decentralized algorithm with distinctive battle simulations. The game is built on blockchain giving every user the opportunity to earn more while actively playing the game by collecting weapons, increasing scores, and surviving each level without a scratch. Being blockchain powered, the game allows the user to earn more with least investment from the preceding levels to the succeeding levels. It is a secure game which is cryptographically secured and the assets are represented as non-fungible tokens or NFTs. Start playing and earn with each passing level of Alpha Returns - [www.alphareturns.tech](http://www.alphareturns.tech)





## 9. Category: dApps

### 9.1 Fleet management

**Fleet management is the management of:**

- ▶ Private Vehicles which are used for the purpose of work
- ▶ Aviation machinery like aircrafts
- ▶ Rail cars
- ▶ Ships
- ▶ Commercial vehicles like vans, trucks, cars etc.

There are several other non-powered assets like gear boxes, shipping containers, generators, tanks, trailers etc., which cannot run without external power.

From vehicle financing and leasing, maintenance, supply chain management, licensing, compliance, driver management, fuel management, vehicle re-marketing, etc., all comes under the functions of Fleet Management. The concept allows companies to rely on the transport business, minimizing risks which are widely associated with investment, efficiency and productivity. Reducing cost followed by enhanced quality in service defines all about Fleet Management.

The functions within the concept of fleet management are relatable. While some functions perform independently, some are interconnected. The Fleet Management System also assign drivers and evaluate their performance in increasing the efficiency of the entire system. Maintenance, repair, punctuality, quality in delivery, fuel management, vehicle registration, permits, warranties, etc., fleet management system gives an easy and well-defined access to the needs uplifting performance.

### 9.2 Ecosystem – Fleet Management

The concept of Fleet Management System with TIME Ecosystem defines the active hours of drivers, earning them reward for their services. The Fleet Management will have Live Monitoring System integrated to have a detailed overview of the associated drivers, their performance and activities.

TIME Ecosystem's Fleet Management System will calculate the active hours of the drivers and reward them on the following parameters – Safety, Quality and Punctuality.



The Live Tracking System gives access to users to view the live status of the rides. With drivers offering quality service which comprise both safety and punctuality, brings out the best in the fleet management system. The time during which the driver remains active, the coin keeps mining and generate the reward which the driver earns with his service. The mining time is calculated with the active time of the drivers or drivers staying active on GPS. Along with that the quality of service rendered too are taken into consideration and generates the rewards separately.

### **9.3 Global Product Management System**

The GPMS or Global Product Management System is an integrated tool used widely across organization to develop and improve business prospective. Integrated with Blockchain, GPMS performs with credibility across every domain assuring transparency and quality into any and every sphere.

#### **Benefits of IATF 16949:2016 – GPMS**

The prime focus of IATF 16949 is to standardize the methods on which the quality of products is measured globally. Reducing variations, identifying and managing the waste within the supply chain and offering customer-centric approaches makes it one of the most recognized and adopted process.

##### **Customer satisfaction**

Delivering the products which consistently meets the customer requirements as well as assures the level of satisfaction any customer seeks.

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##### **Reduced operational costs**

The process of Continuous improvement often results in enhanced operational efficiency and reduced cost.

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##### **Improved relationships with stakeholder**

Improved perception of the organization bridges the gap between the customers, staff and suppliers.

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##### **Dignified business credentials**

Holding Independent verification towards a recognized industry standard defines the organization's credibility.



## Win more business opportunities

Opening multiple national and international doors, this certification leads to organizational development and success

## International recognition

Promote your company across global spheres which adds confidence for global sourcing

## Thorough quality approach

Promising and common approaches in the concept of supply chain meant for subcontractor development.

### 9.4 Ecosystem – GPMS

Automating the quality standards of your products, GPMS brings global recognition for your organization. Within the TIME Ecosystem, GPMS is integrated with the decentralized platform powered by Blockchain, giving a transparency to customers for the products they buy from the global market. TIME's GPMS gives you access to view and verify the product quality, know the product origin and get detailed knowledge of the intermediaries.

This automated tool brings out the best within an organization, improves brand value, customer satisfaction and enhance brand credibility and trust. You will be able to know all the delivery statuses with the order being placed. Product credibility, product quality and customer satisfaction will be the parameters to define the principles. This will generate the mining and the reward credit in CAESIUM.



**Transparent**



**Decentralized Platform**



**Customer-Focused**



**Engagement**



**Decision making based on evidence**



**Improvement**



**Relationship Management**



## 9.5 Features of GPMS

- ▶ GPMS – Integrated with an Individual ID System which delivers the credibility for the products.
- ▶ Live Tracking System of Product – View and verify the product life cycles to have a detailed knowledge and transparency of the products and the associated intermediaries
- ▶ Criteria – The minimum criteria to meet the requirement is IATF 16949
- ▶ Reward System - Earn Reward for systems with no loopholes and systems which actually govern the credibility of the GPMS.

## 10. EHS

EHS - Environment, Health, and Safety. It is a term which is used to refer the laws, regulations, rules, professions, and workplace, protecting the health & safety of public and the employees available within the distinctive environment associated to the workplace. You may think of what compromises in the profession of health professionals and occupational safety.

**E** = *Environment*. Related to releases and spills in the environment.

**H** = *Health*. Illness caused due to biological pathogens, radiation and airborne particulates.

**S** = *Safety*. Accidents and injuries resulting from forklift or moving machines.

### Significance of EHS

One of the primary benefits of having EHS is to prevent any kind of incidents like illness, injuries and/or facing any harmful environmental releases. The hazards are real and so are the impacts.

### 10.1 Ecosystem – EHS

Do you know that your team may be called HSE, SHE or EHS depending on the work and priorities of the organization you work into? E = Environment, H = Health, S = Safety. If your organization is big and is responsible towards its duties, you may be having a team handling the parts of EHS within your organization. There are multiple risks associated to EHS which often impact your organization. Below are the top risks which your organization may be facing



**The top 5 risks to impact include:**



### **10.1.1 Global Reporting System**

Global Reporting Initiative or GRI is an independent, multi-stakeholder, non-profit organization which promotes social, environmental and economic sustainability. In the year 1997, GRI was founded under the partnership of UNEP or United Nations' Environment Programme.

GRI has developed a guideline on Sustainability Reporting which strives to increase accountability and transparency of social, environmental performance. It also provides organizations with comprehensive report towards sustainability framework which is widely defined across the world.

### **10.1.2 Managing tasks & Identifying Compliance gaps**

Every company has some pre-defined policies and procedures; a gap analysis is performed to identify the best practices which mitigates the risks within the business.

### **10.1.3 Risk Identification**

How do a company identify if it's under risk? There are multiple aspects to consider like prior citations, information and security logs, facility inspections, safety manuals etc. Potentials risks which may occur due to stake holders like suppliers, intermediaries, services providers etc. A gap analysis is needed to identify the risks for a business to stay active and perform without a hamper.



## 10.1.4 Problem Solving Tools

### Steps of Problem Solving

- ▶ Identify the problem, its causes and source
- ▶ Identify varied options available which can perform as a solution
- ▶ Evaluate the available options and prioritize
- ▶ Implement the option and check if the solution has actually solved the problem

### Reporting system which will record the time for the usage of Oil and Gas

The concept of management system for reporting helps in capturing the required data which are necessary to run a system. The gathered data can be financial excerpts, client, employee headcount, investment performance, products, etc.

#### 6 reasons to define the efficiency of the reporting system is defined below –

- ▶ A constant need of reporting on analysis of trends and decision making
- ▶ Reports which may be unavailable at the required time sent to the right stakeholder
- ▶ A holistic view followed by a lack of visibility towards enterprise performance
- ▶ An error prone report can be generated with the issues like inadmissible data management, data redundancy followed by quality issue
- ▶ Highly value resources
- ▶ To fit into the local needs, a change can be brought in the global report

## 11. Global Education System

The Global Education System is getting integrated with Artificial Intelligence.

Artificial intelligence or AI is known to be one of the popular branches of computer science which concerns with building multiple smart machines; which are capable of performing powerful tasks that generally requires human intelligence. It's the endeavour which replicates or simulates the human intelligence across machines. The concept of AI always has the required potential to change the way humans interacts.

AI is often defined as interdisciplinary science which has multiple approaches typically defined under the concept of machine learning which is gradually shifting the dimension of the tech industry.



Usually, students have always been inclined towards interactive classes, and with the concept of online education, AI has taken a valuable place. Artificial intelligence helps create an interesting and useful platform. The world which is experiencing the diversification in education, AI is implementing technology in this diversification. The format of learning is redefining under the influence of Artificial Intelligence.

Visual integrated with an interactive platform for learning is dominating the online classes. It is widely drawing the attention of students, increasing potentials. One can revisit the lectures, attend to missed classes, get access to study materials – with AI's could feature, and learning is offering personalized touch to the students. The perks also include two-way communication where students can share their insight making the session more interactive.

## 11.1 Ecosystem – Global Education System

TIME plans and focuses on getting a standardized global education system which will monitor students and judge on a pre-defined parameter. This reduces the concepts of biasness and privileges within the education system assuring equal opportunity to all.

### Features of the Global Education System

- ▶ Standardized Global Education System
- ▶ Monitoring students' active time for online education and learning
- ▶ Implementation of AI for better understanding of individual expertise
- ▶ Learn and Earn

## 12. Category: DeFi

### 12.1 Finance

#### DeFi or Decentralized Finance

CAESIUM wallet, Exchange trading, Real Estate Investment Trust (REIT), Crypto Lending, Crypto Custodial Service, and Decentralized Will Service (DWC) are all included under the DeFi TIME ecosystem. It is a blockchain based decentralized finance which does not rely on any centralized financial bodies or intermediaries. DeFi is controlled by a large network of computers, and DeFi also helps in crowd funding for any operations.



All network participants can view and verify the transactions, number of coins, traded, etc. But no modifications can be done in the network as it is decentralized. Assuring fairer and greater service to all associated members within the community, decentralization is an answer to a stable environment. Decentralized modules are getting widely popular these days, pertaining to their increasing ownership in the world market.

### ▶ **CAESIUM wallets**

It is a fully decentralized wallet allowing the CAESIUM community to store and safe keep their crypto asset with some unique features.

### ▶ **Exchange**

To develop a high security and user-friendly exchange with a simple interface that is efficient and allows the community to trade 24/7 seamlessly.

### ▶ **REIT or Real Estate Investment Trust**

CAESIUM credits can be used to authenticate the transparency of buyers and sellers and their credibility by using the TIME blockchain.

### ▶ **Crypto lending**

Enabling the CAESIUM community to save and receive interest on their stash of CSM, and enable borrowers to unlock the exact value of their digital assets by using it as collateral for a loan.

### ▶ **Custodial Service**

CAESIUM custody service offers clients access to the secure, institutional grade offline storage solution, by offering the most sophisticated and a reliable custody solution in the world.

### ▶ **Will writing service**

Crypto will writing that facilitated our users by efficiently managing their crypto assets within CAESIUM ecosystem and a third party blockchain by inheriting the crypto assets to the next generation.





## 12.2 Ecosystem – Finance

TIME plans on integrating a Finance System which will depict the following features –

### ▶ Cyber Security

Enhanced cyber security across the Finance ecosystem for the transactions done through debit cards, credit cards, internet banking and wallets.

### ▶ Records

Every transaction within the ecosystem is recorded assuring accuracy and transparency.

### ▶ Monitor

A distinctive monitoring system which monitors your daily expenses and manage them for proper efficiency.

### ▶ Spend and Earn

An integrated system which generates rewards for every transaction made in the ecosystem. Spend and earn rewards assure the best for your finances.

## 12.3 Staking

With reliable mechanisms, Blockchain is one of the most trusted inventions which helps reaching an agreement within the network. However, with the concept of PoS or Proof of Stake, the mechanism helps in determining who might validate the next block within the network.

Validating transactions and creating new blocks, the right staking prospects are taken up by the PoS crypto owners. Generally, staking is a way of rewarding the participants within the blockchain network, which is often compared with the interest as incurred from the traditional banks.

Each blockchain network has its own PoS focused on a particular currency. On a wider spectrum, staking is defined as keeping your funds locked in a wallet. This task helps you to perform multiple functions within the staking reward network.





## 12.4 Ecosystem – Staking

TIME offers an integrated system for you to stake your coin. The standard methods for staking are usually to hold your coins in your wallet or lock them in a smart contract which generates interest in the form of CAESIUM token. TIME Stating program offers higher returns compared to the primary players in the market. The active time within the staking program which align you through the CAESIUM reward system.

Staking Disclaimer – You must choose the right platform and time to participate in the staking program. Start with smaller amount so that you get accustomed to the protocols of the network. Make sure to pick projects which resonate your future. Keep in mind that staking actually helps the project and your participation helps the project to grow and be successful.

## 12.5 Trading

### Forex and crypto market data

The forex market is a global marketplace which enables you to exchange national currencies. Compared to other, forex market tends to be an intricate asset with higher liquidity due to its reach and abilities. Keeping the practical aspects in view, majority of the currency conversions occur to earn profits. The number of conversions adds to the price movements of the currency manages the volatility rates.

With increasing competitions, the forex market is hitting new dimensions for traders to look into.

### What makes the Forex Market to move?

Forex market comprises of global currencies that makes predictions of exchange rate difficult as there are multiple factors which can contribute to the price movements. But, similar to other financial markets, the forex market is driven by the concept of demand and supply, which further influences the fluctuation on price.

### Central banks

The supply is thoroughly controlled by the central banks; they may announce measures which will have significant effects on the currency prices. For instance, during Quantitative easing, the bank may inject more money in the economy which may cause a drop in currency price.



## News reports

Several Commercial banks & associated investors often want to put the capital to economies which offers stronger outlook. Hence, when a positive news piece hits the world markets concerning a region, it may encourage investments increasing demands for that particular region's currency.

However, unless a parallel increase of supply in the currency, there seems to be a disparity between demand and supply which causes the price to rise. Similar to that when a negative news hits the market, investments often decrease which lowers the price of the currency.

## Market sentiments

Market sentiments, often reacts to news, which drives currency prices. Traders who believe at what direction the currency is heading may trade and convince their associates to trade too which manages the increase and decrease in demand.

## Economic data

Do you know economic data is often regarded as an integral reason for movement of prices of currencies? There are two basic reason for the same – 1. Indicates how the economy has been performing, 2. Shares an insight of what might the central bank do.

## Market Data of Cryptocurrency

Cryptocurrencies are known as, digital assets which uses the cryptography defined as the encryption technique, made for security. Primarily, Cryptocurrencies are used to buy and sell, like forex. With no intrinsic value associated to it, they are not available to be redeemed with other commodity. There's no central authority, hence, follow the decentralized protocols.

## 12.6 Ecosystem – Trading

The TIME Ecosystem introduces a Trading Platform. Distinctively defined under the following aspects, Trading within TIME brings out the opportunity to trade and earn.





### 12.6.1 My Forex Journal Copy Trade System

- ▶ Analysing the accounts for Forex Trading account integrated with advanced statistics.
- ▶ Usage of the innovative dashboard to stay focused & informed about the Forex market.
- ▶ Usage of the trade analysis pages acting as a portfolio of the trader's trading skills.
- ▶ Learning, comparing & improving trading skills which acts as help in the Forex Forum.
- ▶ Publishing the account statement backed up with the Tracking & Trading Analysis.

Technically, trading journals are a log which can be used for recording the trades. Often traders make sure to use the trading journal which reflects the previous trades which can further be evaluated. The journals can be used to improve the trading perspectives.

#### Reasons one should maintain a trading journal are:

- ▶ Trading Journals help identify the weak and strong points depicted in the style.
- ▶ Trading Journals could help in increasing trading consistency.
- ▶ The Trading journal helps you keep accountability.
- ▶ The Trading journal helps in choosing the best strategies for trading

Do you know that keeping a journal can improve your trading game? The set of guidelines and rules which are followed in the trading game includes trader psychology, risk management and associated strategies.

### 12.6.2 Trade & earn via CAESIUM Token

Similar to stock trading, crypto trading is a basic concept of trade and earn. You buy and sell coins or tokens keeping a profit margin in mind. Keeping the concept on similar ends, both stock and crypto trading yields profit when traded on right perspective.

### 12.6.3 Reward swap fee

Reward swapping became a popular form under the concept of earning products. Multiple users get trade benefits from the features like instant transactions, low fees and a variety of assets supported in the system. It has turned out to be a passive income opportunity.



## 13. REIT

Real Estate belongs to the long-term growth plan which caters into the essentials of wealth building strategies. REIT or Real Estate Investment Trust allows online investment into commercial real estate. Investors or real estate enthusiasts primarily focused on earning returns from real estate investments, can get access to multitude of opportunities through REIT.

Significantly, investment into REIT is not directly done into assets pertaining to real estate rather into big entities associated to the real estate market. So, how does Real Estate Investment works? The real estate is a massive 35 Trillion USD industry. Say, you buy a property of USD 10,00,000 which you plan to rent out to tenant. With 20% as down payment and 80% as mortgage loan, your return on the investment seems diluted without any proper planning. Now, you search for a tenant and rent the property calculating the sum for a year as return. But what aspects you may need to calculate which can yield return against the investment value covering the mortgage and associated expenses of having a property.

Other than the mortgage loan, there are other recurring total expenses calculated on Property Tax plus Insurance plus Operating & Maintenance. Now how do we calculate your total return? Your total return is calculated on Gross Rental Income minus Expenses minus Mortgage Interest. Over the period, the real estate has seen changes in property value which further gets added into your total return.

Now, the ultimate agenda of REIT is income and growth. Similar to mutual funds, REIT manages your diverse portfolio on your real estate assets which includes apartment, office buildings, and hotels etc., managed under professional expertise. With no middleman, the platform comprises of trusted buyers and sellers who have their ultimate agenda to get the best for their real estate assets.

### 13.1 Ecosystem – REIT

Real Estate Investment Trust – A platform for all your real estate assets yielding higher returns and getting you connected to genuine buyers and sellers. TIME has taken a close call in creating an ecosystem on REIT which defines the credibility of real estate enthusiasts. The platform where sellers meet buyers, where every transaction and payment are verified and special rewards are given to fast sellers.



## Positives of REIT

### Higher Returns

Yielding higher returns on real estate assets compared to your individual strategies or through other platforms, with special rewards designated for fast sellers.

### Reward System

Other than your rental income, you have the availability to earn rewards for your active time and credibility across the TIME's REIT platform.

## 14. Category: IoT and Blockchain (BoT)

Basically, Blockchain Technology works to record. It is also called block of several public databases, popularly known as "chain," within a network which are bridged through the available peer-to-peer nodes. Primarily, the storage often is referred as 'digital ledger'. The transaction that occurs within the ledger happens to be authorized through the owner's digital signature, authenticating transaction and helping in safeguard from tampering.

Blockchain is one of the emerging technologies which has multiple advantages across the digital world. While the blockchain as well as IoT are both powerful and independent in their own dimensions, their combination can prove to be incredible for enterprises. Do you know the combination of the concept of Blockchain and IoT are often referred to as Blockchain of Things or BloT.

The Internet of Things (IoT) is often referred to as a system of interrelation, objects connected through internet, which can collect as well as transfer data across wireless networks without any human intervention. The business or personal possibilities are often endless.

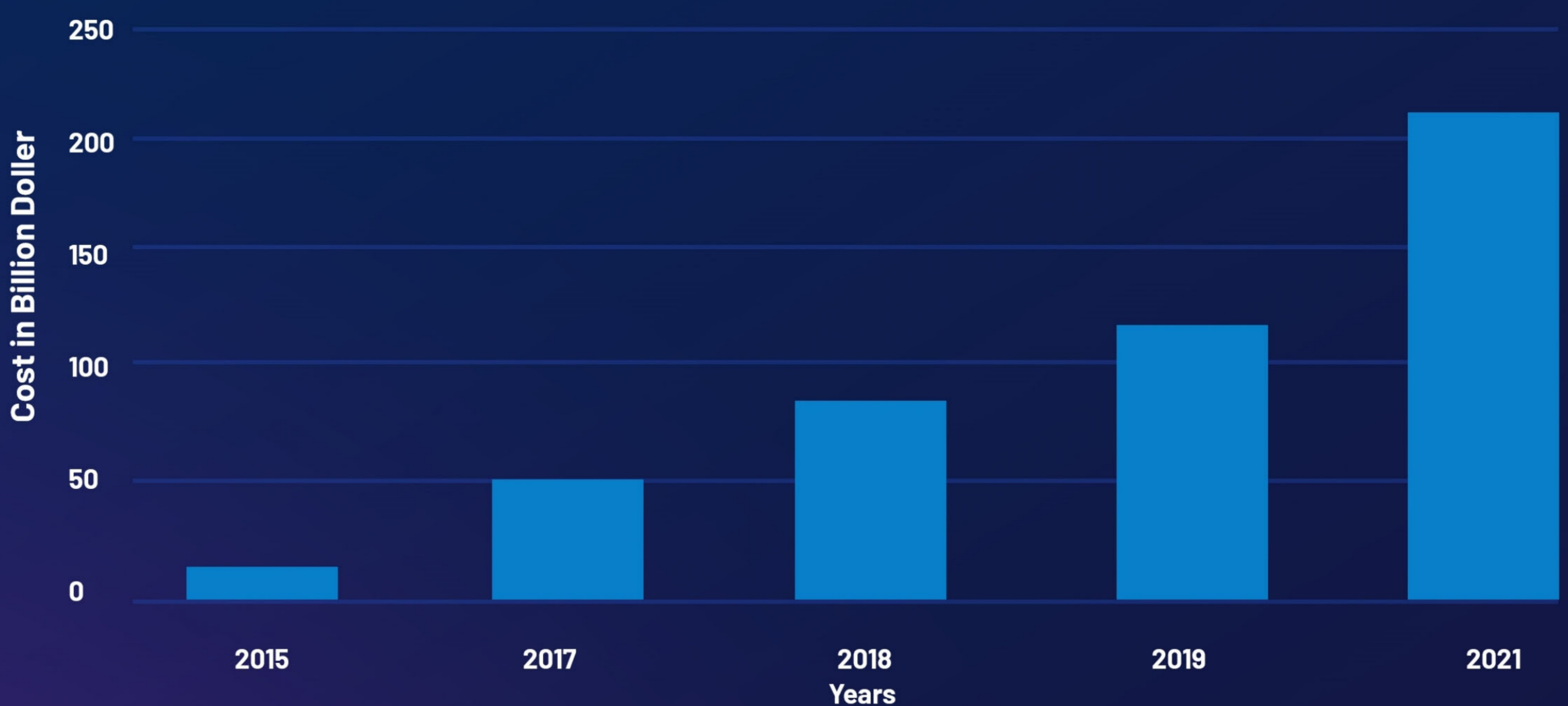
Nowadays, businesses are often motivated by the prospects of IoT which increases the revenue, reduces the operating costs, as well as improves the efficiencies. Comprehensive businesses are often driven by the needs of the regulatory compliance. Whatever be the reasons, the deployment of IoT device often provides the insights and data which are required to streamline the workflows, visualizing the usage patterns, automating the processes, meeting the multiple compliance requirements, followed by completing more effective changes in the business environment.



## Application of IoT –Ensured Data Security following the concept of Endpoint Encryption

Though there are multiple benefits offered under encryption method, there still seem multiple obstacles. Varied technological leaps are streamlining the entire process, but the distinctive scope determines how costly the deployments might be. However, determining the scope that can be a significant hurdle underscores the challenge. Encryption requires processing power. The stronger the encryption is, it helps create more available computing horsepower which is required to run.

Finally, there happens to be myriad methods related to encryption available to choose. As a basic rule, the National Institute of Standards and Technology often recommends the Advanced Encryption Standard due to its speed, flexibility and practicality followed by the encryption strength.



### 14.1 Ecosystem – IoT Security System

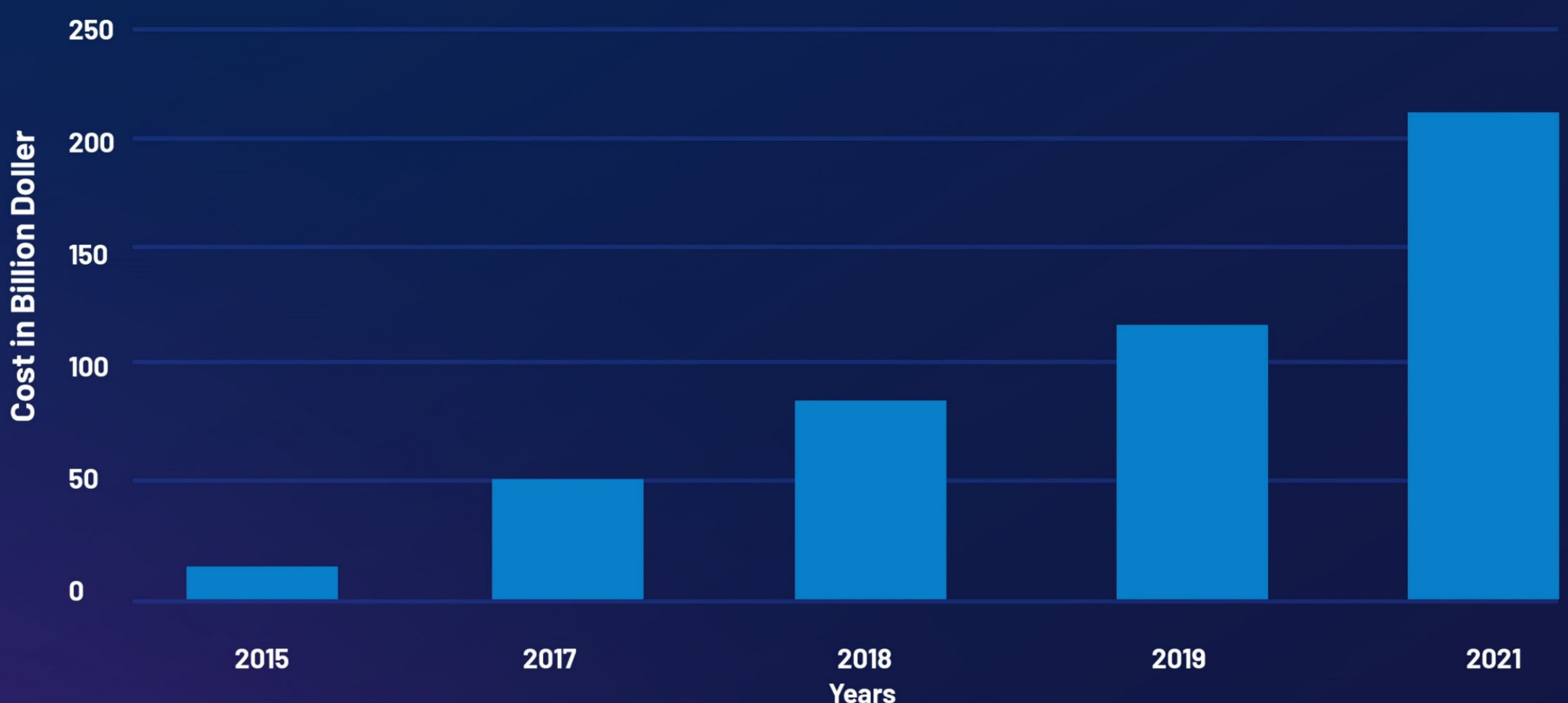
IoT security portfolios often allows a developer to protect multiple devices from the varied vulnerabilities which occurs during the deployment of security levels that matches the application requirements. Do you know, the Cryptography technology often helps combating the communication attacks during the security services which can assure protection during the occurrence of a lifecycle attacks? Multiple and popular isolation measures which are available can be implemented fending the software attacks followed by tamper mitigations against the physical attack on the available chip.



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### 14.1.3 Security Solution with IoT

Assuring protection and security to the network connections of the IoT devices to associated back-end systems available on the internet following the protocol of implementing the traditional security solutions like, anti-malware, antivirus, firewalls as well as intrusion detection and prevention systems.

#### Authentication

Authenticating IoT Devices - Allowing users to authenticate any of the IoT devices while introducing the multi-user management features under single IoT device followed by implementing a robust authentication mechanism like, digital certificates, two-factor authentications, and biometrics.

#### Usage

Usage of IoT Data Encryption – Protection of users and prevention of IoT data and information breaches is a prime obligation. To follow the encryption process successfully - encrypt the data between the timeline of data rest and during-transit between the back-end systems and IoT devices using the standard protocols of cryptographic algorithms.

#### PKI Security

Usage of PKI Security Processes in IoT - Ensuring a secure connection between the IoT devices and apps, usage of the Public Key Infrastructures for IoT security methods such as digital certificates, cryptographic security key, and the life-cycle capabilities including public or private key generation, followed by distribution, management as well as revocation.





## 15. Disclaimer

This white paper is for information purpose and does not support or constitute any sort of advertisement or solicitation of interests in any investment other than that of sale of CAESIUM token as stated above.

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