

# WHITE PAPER



# GAMERHASH

GAME-CHANGER  
FOR GAMING GENERATION



Malta 2019 AIBC  
Tech Startup  
WINNER

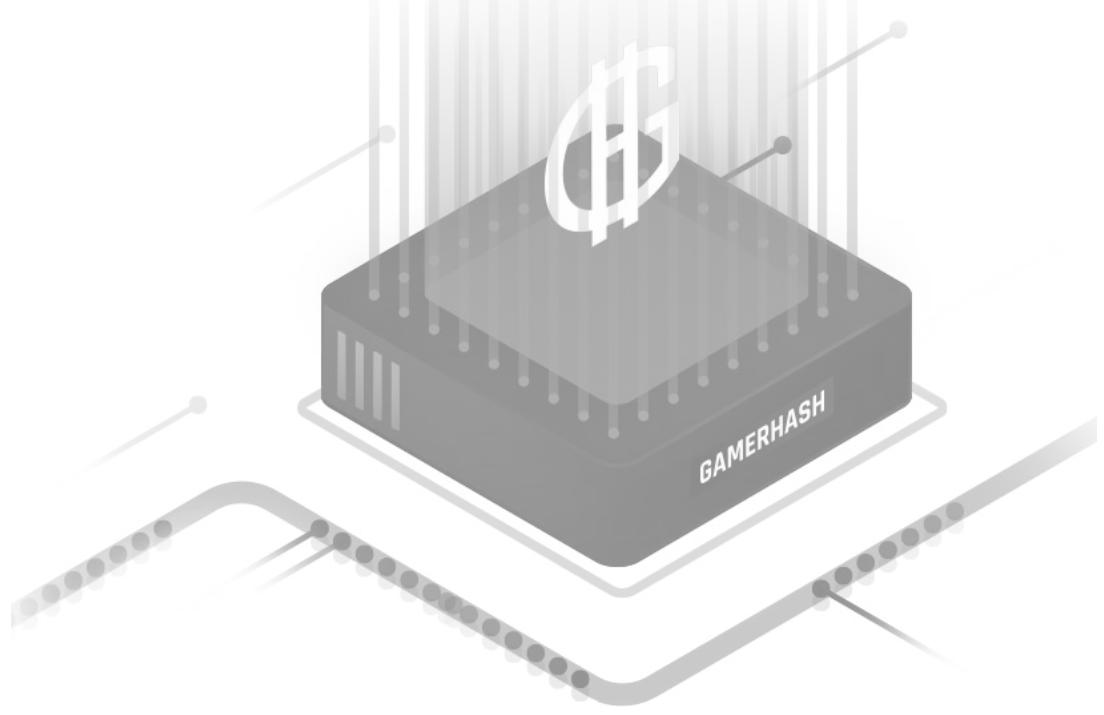


Singapore 2019  
Startup Pitch  
CO-WINNER



Miami Blockchain  
Week 2020  
WINNER

This White Paper does not describe everything about GamerHash platform for confidentiality.  
Ensure first read the [disclaimer and risk factors on the pages 49-53](#) to fully understand the  
purpose, status and limitations of this document.



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**GAMERCOIN (GHX)**

# 1 ABSTRACT

# ABSTRACT

GamerHash was born in 2017 with an idea among two friends, the now co-founders. Since its inception, we have gained over 430k users. The way GamerHash operates is that the users share their computing power by simply running the GamerHash app in the background. GamerHash app then determines the best crypto to mine and we reward our users with crypto currency. This can also be used in our in-app store for gift cards of your favorite outlet.

**We have build one of the biggest self financing supercomputer on the planet based on gaming computers voluntarily contributed by players.**

Process of crypto mining is overall very complicated which requires extensive knowledge on cryptocurrencies + cryptoeconomics and advanced IT skills. Software and hardware need to be configured correctly and require users constant supervision, otherwise not only will the process have an adverse effects on the devices used, but also it will lower the profitability. The GamerHash platform is a solution to all these problems - and more.

Our mission is to provide people (gamers) with a simple and a free toll to reap the rewards of the blockchain minus all the hassle. GamerHash wants to uberise that and propose ecological solution - by using idle processors (CPU) / graphic cards (GPU) of computers. Gamers don't have to bear any additional costs of running GamerHash. Our solution has simplified the cryptomining process to such a level that all the barriers of entry have been lifted enabling anyone with access to a computer to monetize resources they already possess and gain added value.

For users who do not have enough computing power, we offer earning money through completing tasks - Play&Earn module, which soon will be available also on our mobile app. Users devote their time for simple and entertaining activities and are rewarded with our internal currency exchangeable for products from our Store.

To sum up - we are here to introduce a new type of currency to the market and it is called computing power. Our users (430.000 as of February 2020) do not need to have a bank account, credit cards or cash to buy anything from our open marketplace. In this document we will describe how we are building self financing supercomputer and why you should become our partner.

We are here for the gamers,  
We are the game changer,  
We are the GamerHash.

# ABSTRACT

**430.000+**

users - mostly from Europe  
& South America

**600+**

available products  
in GamerHash Store

**550.000+**

completed transactions  
(daily payments to users'  
in-app wallets)

**\$50/m**

earnings starting from a  
couple to \$50/month on  
home PC

**23.000+**

completed orders in  
GamerHash Store



**GAMERCOIN (GHX)**

ERC-20, Ethereum blockchain

**1 GHX = \$0.01**



Total Token Supply

**880,000,000 GHX**



Hard Cap\*

**\$2,800,000**

Token Sale

**322,000,000 GHX**

**36,6% Token Supply**

Soft Cap

**\$1,150,000**

\* After reaching Hard Cap remaining tokens from Token Sale pool will be burned

# 2

## GAMERHASH ECOSYSTEM

- 2.1 WHAT IS GAMERHASH?
- 2.2 TECHNOLOGY
- 2.3 OUR COMMUNITY
- 2.4 BUSINESS MODEL



## 2.1 WHAT IS GAMERHASH?

GamerHash is a fully functional platform, launched in November 2017, with over 430.000 registered users worldwide. There are three integral parts to the GamerHash ecosystem - the application, web platform & mobile app.

The main purpose of the platform is to reward users for sharing excess computing power. Only when desktops or laptops are used for playing graphically-demanding games (e.g. the Control or Call of Duty Modern Warfare) or compute-intensive applications, do they use almost 100% of the potential, but it is important to know that an average user uses 15% of their available computing power.

**Currently, the remaining idle power can be used GamerHash for cryptocurrency mining, hence the connection to blockchain; in the future, since the demand for computing power is on the rise, new ways of monetizing the power will be offered - like selling it to research institutions or saving the world.**

The rewards available in the GamerHash Store come in different shapes and sizes to accommodate a variety of users' needs. Gamers may choose from a wide variety of latest games, Steam keys and in-game currencies. Users are provided with numerous retail gift cards to popular online and offline stores. Teenagers might be interested in products like Google Play, telecom top-ups or a can of Coca Cola from a local shop. Cryptocurrency enthusiast may choose to be rewarded in Bitcoins. For movie or music fans, Netflix or Spotify vouchers are supplied. The pool of rewards is growing proportionally to the number of users, with new products being added to the store. Any user, whether non-technical or tech-savvy, may use the platform with the same ease as using any other website or app.



All barriers of entry have been lifted and therefore, the potential number of GamerHash users equals the number of computing units around the world. According to Statista, global personal computer shipments (laptops & PCs) in 2019 exceeded 254 mln units.

A user who wants to join the GamerHash community needs to go through a very similar process to when downloading any other software or installing mobile apps. It takes less than 3 minutes to join GamerHash and start earning!

The app, when started by the user will receive incentive based on their computing power available. At the moment, the excess power is used for cryptocurrency mining, hence the connection to blockchain. In the future, since the demand for computing power is on the rise, new ways of monetizing computing power will be offered.

The algorithm matches the most optimal cryptocurrency to the user's hardware configuration and mines it. Mined altcoins are automatically exchanged for Bitcoin. It all takes place in the background so users do not need to get involved in the process. The GamerHash application can also be ran overnight or when the computer is idle as well as when:



Working



Watching movies



Listening to music



Browsing internet



Playing web games

The mining funds are automatically transferred to users' wallets once a day providing a threshold of 0.01 mBTC (0.00001 BTC) has been reached, walled funds remain at users' disposal after the transfer. Unlike mining cryptocurrency on your own, you do not need to wait days or weeks until you have collected the minimum amount which may be paid out. How much our users earn depends on two factors: the hardware and Bitcoin and/or altcoins exchange rate.

The more powerful hardware and the higher the BTC exchange rate, the more funds (BTC or equivalent value in GUSD) accumulate in users in-app wallets. Two wallets are available at the moment (more will be added soon):

### BTC Wallet



BTC is a default wallet into which users are getting rewards for providing access to their computing power. Funds are transferred daily at 12:00 (CET) when the threshold of 0.00001 BTC is exceeded. After collecting 0.001 BTC, the funds can be withdrawn from GamerHash.

### GUSD Wallet (Virtual Dollars)



GUSD is a GamerHash virtual currency. It is being used for settlements of tasks in Play&Earn. Its value is equal to the American Dollar. GUSD is not externally solvent, at the moment it can only be used for purchases in the GamerHash store.

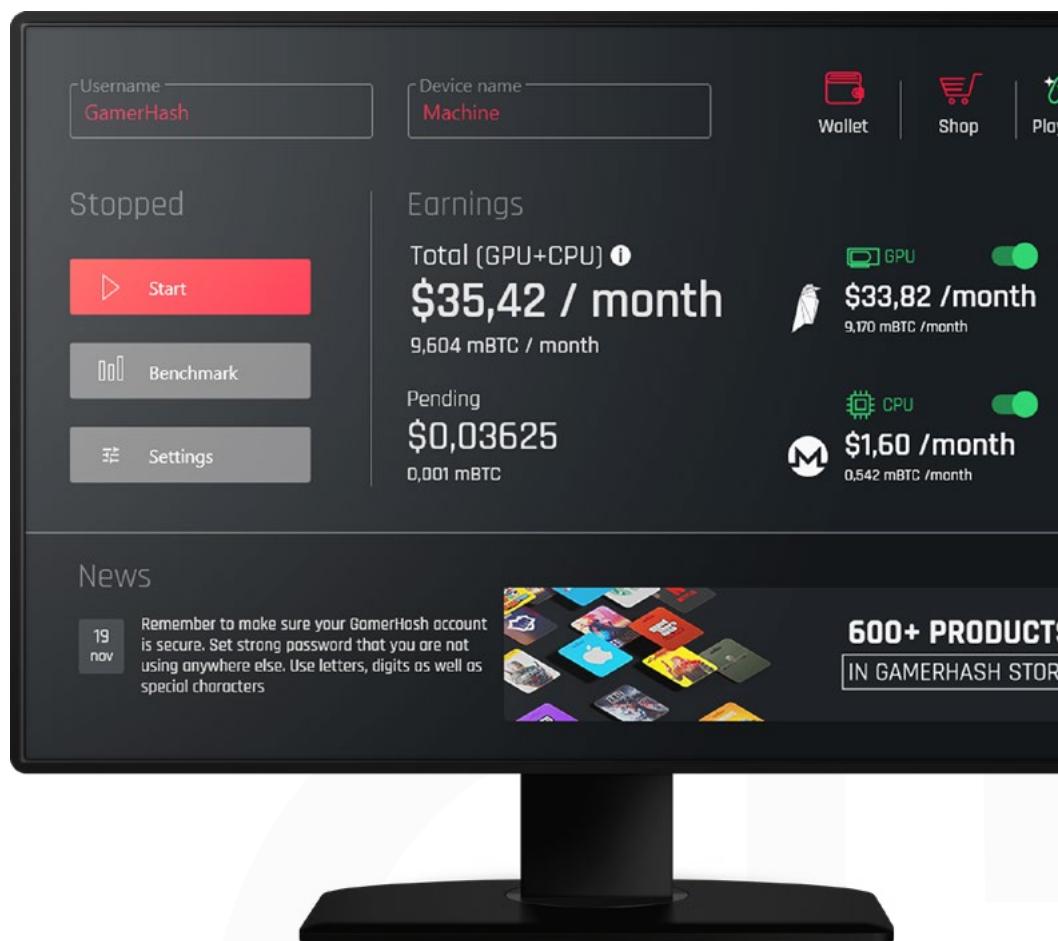
Users have the option to withdraw BTC to their external wallets, the GUSD funds are not withdrawable and can be only spent in the GamerHash Store.

If users want to leave their crypto on their wallets in GamerHash, they can be sure of highest safety standards. GamerHash wallets are integrated with Coinbase (San Francisco US), which is a global leader in blockchain technologies. Coinbase provide highest possibly security standards.

# Application

It is a desktop application for Windows operating system (Linux and macOS is on GamerHash roadmap). The app gives users the possibility to share excess computing power coming from the processors (CPUs) and graphics card (GPUs). The app itself can be downloaded free-of-charge, the only cost a user has is the mining fee which amounts from 0% to maximum of 7% and is always postdeducted from users' earnings with GamerHash. To encourage users to sign up with our platform, newly registered users enjoy fee-less mining for the first 30 days (100% of the mined funds stay in their wallets) then rank-based model applies; professional miners with ASICs or mining rigs mine with GamerHash fee-free.

*Dashboard view of GamerHash desktop app (version 1.30.2)*



The app's main screen provides information on the device, how much a particular device earns monthly (or daily, depends on the settings), broken down by earnings on the CPU and GPUs separately to ensure transparency. User always know in real-time what is happening and what is earning potential.

# Play&Earn

In January 2019, a new feature - Play&Earn has been launched, designed especially with low-end computer users. GemerHash kept in mind to accommodate their needs for earning funds especially when cryptomining might not prove to be profitable.

Within the Play&Earn, users may earn additional funds (payable to the GUSD wallet) for completing specific tasks e.g. download mobile application or play a MMO game and complete 5 quests, provided to us by our affiliate partners.

Objective	Reward
Play World of Tanks	1.00 GUSD
Play Star Conflict	0.40 GUSD
Play Rail Nation	0.20 GUSD
Play Heavy Metal Machines	1.00 GUSD
Play CrossOut	0.80 GUSD

*Play War Thunder*

Reward: 1.10 GUSD

Platform: Windows PC

Objectives:

- ✓ Register
- ✓ Confirm your email address
- ✓ Fly 5 times

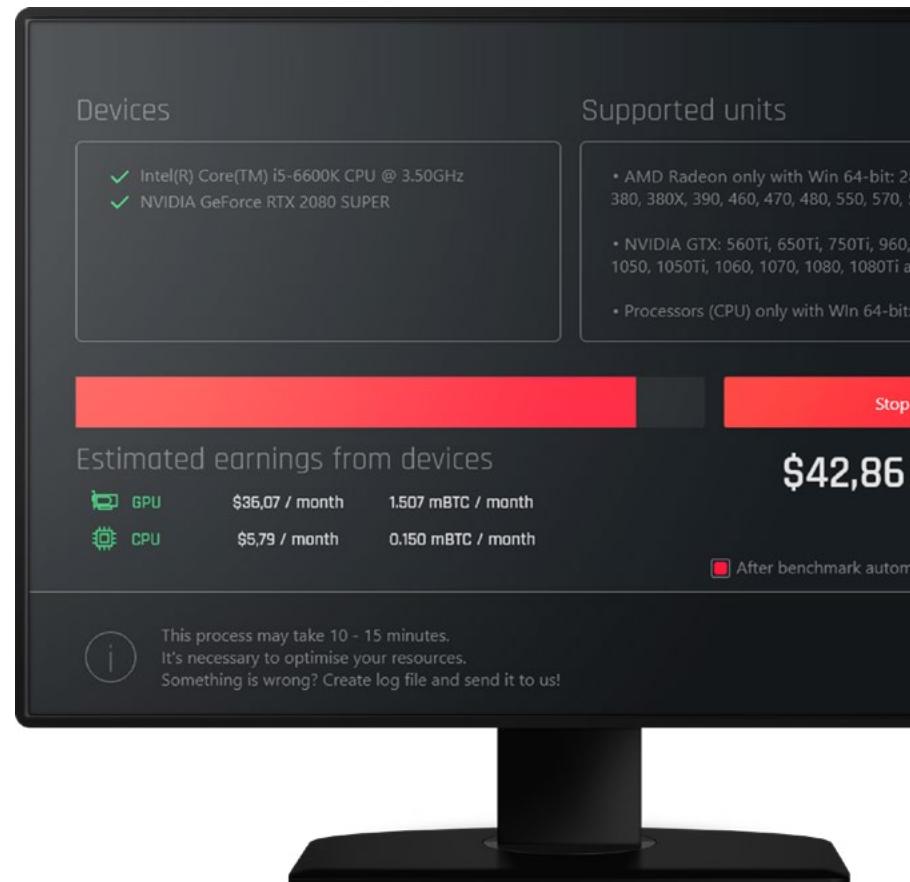
Time to finish: ~2 hours

Description: War Thunder is a MMO military game by Gaijin Entertainment studio. Wings of Prey, Birds of Steel and Apache Air Assault. Become a pilot and show off your flying skills. You have 30 days to complete this task.

Play&Earn module

When a user selects a task, other tasks will be instantly blocked for 12h-72h to prevent scams. Each user may have maximum of three different tasks in progress. After a task is completed and verified, the reward will be transferred to the user's in-app GUSD wallet. Solution in its essence is similar to [www.Coinbase.com/earn](http://www.Coinbase.com/earn) but directed at gamers.

The app has been designed with non-technical users in mind, with a user-friendly interface. It can be used by virtually anybody, does not require any IT skills, knowledge of cryptomining or cryptoeconomics.



# GamerHash Platform

Users who have not yet registered with GamerHash may access the website to get information on how GamerHash works. The reasons to start using the platform, the profitability calculator and the importance of security. Additionally, they can check the GamerHash Store offer, however, the products within the offer are available only to registered users.

Registered users with confirmed accounts may use all the functionalities offered by the website. After logging in, any user can check the dashboard providing information on the walleted and pending funds, the statistics related to users' devices - BTC mined daily, weekly, monthly and historical data. Users also have the option to earn more funds by recommending the GamerHash app - Referral programme.

All our current users get a referral link which if used by a newly registered user will allow them to make 0.2 GUSD for the first \$2 mined by the newcomer and 1 GUSD for the first 5 GUSD earned in Play&Earn.

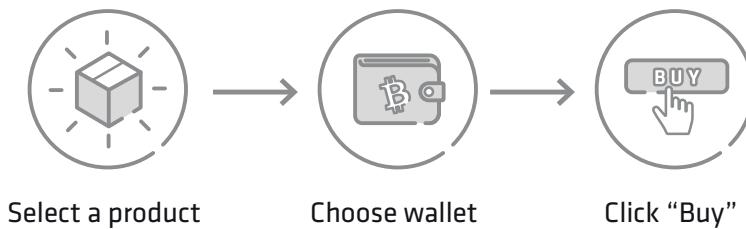
The screenshot shows the GamerHash User dashboard. At the top, there's a navigation bar with the GamerHash logo, Dashboard, Wallet, Store, Stats, Menu, and a Download button for the Windows PC application. Below the navigation bar, the dashboard is divided into several sections:

- Welcome GamerHash:** Displays a user profile picture and a "Settings" link.
- Wallets:** Shows two wallets: one with 0.30 GUSD (Available) and another with 0.00 GUSD (Pending). A modal window is open over this section, showing options to "Send", "Receive", "Auto Withdrawals", and "History".
- Devices:** Shows a table of mining activity. One row is highlighted in green with "Machine" status "Online" and balance "0.001 mBTC (0.00 USD)". Other rows show transactions at various times on different dates, such as "13:12 30 Sep", "12:41 18 Sep", "11:17 17 Sep", and "13:09 12 Sep". The table includes columns for Date, Change, Transaction type, and Current balance.
- Transactions:** A table showing a list of recent transactions with columns for Date, Change, Transaction type, and Current balance.
- Bottom Navigation:** Includes links for "Your orders", "Earn more", "Find us on:", and social media icons for Facebook, Twitter, and LinkedIn. It also features a "Mining rig? ASIC? Connect it here!" button.

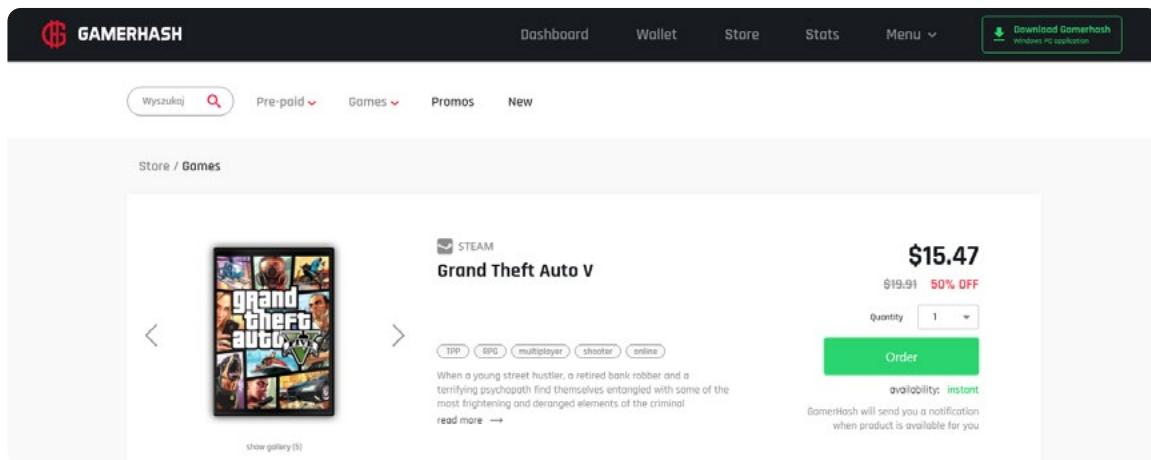
A watermark "User dashboard" is visible across the bottom of the dashboard area.

The GamerHash Store is a unique place where users can buy anything with either computing power being the currency or through completing task in the Play&Earn feature. By October 2019, more than 23.000 orders for products from the GamerHash Store has been placed.

GamerHash Store will become open Marketplace. Users will be able not only to buy products but also sell gaming products or game collectibles. They do not need to have a bank account, a credit card, or cash to get the goods they need.



The purchasing process is similar to any online store. A product may be bought providing the user has enough funds in their wallet (users have the option to filter products by price or by 'within budget'). Once a desired product is selected, the user goes to the product site and clicks 'Get it now' button, the popup window gives the option to select which wallet - BTC or GUSD - will be used to settle the payment. As a security measure, a PIN code has to be entered (PIN codes are generated in the account settings). The last step is to click the BUY button.



*GamerHash Store product view*

All the products on offer are digital goods which means they are available instantly after purchase, there is no need to wait for delivery.

**The majority of our users (85%) prefer spending earned funds in the store to withdrawing Bitcoins to external wallets.**

Currently, GamerHash Store holds 600+ digital goods:

Games and in-game currencies



Grocery stores (over 9500 around Poland)



Gift cards



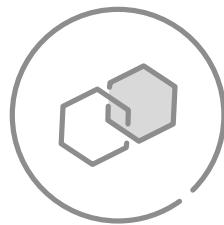
Pre-paids



Subscriptions



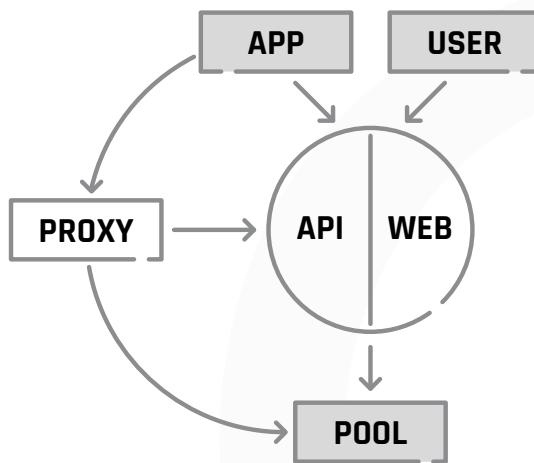
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## 2.2 TECHNOLOGY

The technology of our platform lies on the ground of today's latest technological stack. Our product do not have technological debt. GamerHash is truly state of the art platform. Major division of system is for two applications Desktop and Web. Both of them were coded with object oriented paradigm with fully modular logic behind. We used different programming languages for different parts of the system, such as Python, C# or PHP Laravel framework. Crucial elements were also coded in C/C++. We create and use custom interfaces for configuration through whole mining and computer power resources management. We implement algorithms that simplifies and make our interfaces fast for users queries.

GamerHash technology is very similar to a multi-currency mining pool implementation, but whole platform is much larger than a simple mining pool. The responsivity of system from end to end point via web application is at the average level of 23ms . The timing of login process may vary depending on login procedure. Client can login using Google, Facebook or Steam account.



*Fig 1. Simplified architecture*

**GamerHash vision is to build the biggest self financing supercomputer.** First step was to achieve creation of distributed mining platform, fast as possible with simple and user friendly Graphical User Interface. Our team is responsible for code of a custom proxy server. Almost instantly system analyses logical content of packages.

Figure 1 represents a simplified architecture connecting user with a mining pool. In order to make sure our software and services are as user friendly as practically possible we have had to overcome few interesting challenges.

Our desktop client uses many different miners compiled from legit, known sources. Proxy server supports different variants of protocols for each client. For the same currency two different miners can use different protocol variants. Protocols contain whole configurational requirements for mining of selected cryptocurrency. With our unique adaptable difficulty scaling algorithms we are able to achieve stable mining process for each client, with minimal losses, for wide variety of mining rigs. For the best compatibility our platform extensively uses multiple variants of STRATUM-based protocols<sup>1</sup> using asynchronous I/O.

Our primary goal is to provide our users with tools to mine crypto-currencies. At the same time, our users are not strictly interested in keeping multiple different currencies and wallets; most of our users are interested only in equivalent dollar value of their profits. This puts us in a unique position, we can consider multiple algorithms and select the most profitable one in context of given hardware.

Profitability of crypto mining depends on many different variables: exchange rates, current network difficulty, hardware speed, current network conditions and many more; our data shows that even when the hardware is identical, profitability and preferred algorithm can be different, depending for example on graphics driver version.

Most of the time proof-of-work (PoW) blockchains are mined in “blocks”; mining process is very similar and it does not matter if it’s running on common pc, graphics card, phone or dedicated asic hardware. In the first step we are computing so called “coinbase”; it is a short value that has been chosen based on previous blockchain values. Coinbase value is transformed according to given rules (rules are different for each crypto-currency) and, if value after transformation (called at this point “solution”) meets all requirements, rules of given crypto-currency allow us to pay “our self” a reward.

We can trade that reward on exchange - this is our revenue.

We integrate algorithm for optimization of mining process which calculates profitability of mining taking into account, the difficulty and power limit of mined cryptocurrency. The current application support several cryptocurrency available for PoW blockchain mining process. Developers team successively add cryptocurrencies which are on top of popularity lists for example: AEternity using CuckooCycle algorithm<sup>2</sup>.

<sup>1</sup> <https://tools.ietf.org/html/rfc958>

<sup>2</sup> <https://github.com/tromp/cuckoo>

Automatically selected cryptocurrency was chosen for user system specification can be described for example as follows:

# Network difficulty

For AETERNITY we have to begin with definition of few constants:

$$HighestTarget_{\text{packed}} = 0x2100ffff \quad (1)$$

$$LastBlockTarget_{\text{packed}} = 504512411 \quad (2)$$

$$BlockReward = 239.679AE \quad (3)$$

$$ExchangeRate = 0.00002302 \frac{BTC}{AE} \quad (4)$$

<sup>1</sup> Constant 1 has been defined<sup>1</sup> by Aeternity as

or 0x2100ffff in packed scientific notation. It is also known as *difficulty 1*. Constant 2 comes from AEternity network, this is current target on top of the blockchain (for *height* = 153623). It is also stored and transmitted in packed scientific notation as described by Bitcoin. It is transmitted over network as decimal value, but we can convert it to hexadecimal value and unpack:

$LastBlockTarget_{\text{packed}} = 504512411_{\text{decimal}} = 0x1e123f9b_{\text{hexadecimal}}$

Details of conversion between packed and unpacked form are described in [bitcoin documentation](#)<sup>2</sup>.

*LastBlockTarget<sub>unpacked</sub>* = 2<sup>8 · (0x1e-3)</sup> · 0x123f9b

This gives us rather long solution:

Constant 3, the Block Reward, is defined by AEternity inflation curve. For  $height = 153623$  it's value is equal to 239.679AE. Exchange rates (constant 4) come from the market.

From here we can calculate current *Network Difficulty*:

$$NetworkDifficulty = \frac{HighestTarget}{LastBlockTarget}$$

*NetworkDifficulty* = 919363.115898827

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<sup>1</sup> [https://github.com/aeternity/aeminer/blob/c2b9873d10feca1dde8c3af9343a32ee082f61f8/src/aeminer\\_pow.erl#L31-L66](https://github.com/aeternity/aeminer/blob/c2b9873d10feca1dde8c3af9343a32ee082f61f8/src/aeminer_pow.erl#L31-L66)

[https://en.bitcoin.it/wiki/Difficulty#How\\_is\\_difficulty\\_stored\\_in\\_blocks.3F](https://en.bitcoin.it/wiki/Difficulty#How_is_difficulty_stored_in_blocks.3F)

# Miner performance

We will also need few values describing miner performance for given user; our application gathers those values during benchmark process, but for financial settlements we are using actual values from the network. Lets assume that user managed to successfully mine 178 shares over window of 4916 seconds<sup>3</sup>, each share with minimal difficulty 1.999969482421875<sup>4</sup>.

*ShareDifficulty = 1.999969482421875*

$$\sum_{i=t_2}^{t_1} Difficulty = 355.99456787109375$$

$\Delta Time = 4916s$

The averaged value of *ShareDifficulty* per second, for shares mined by this user, over this window of time is

$$SharesPerSecond = \frac{\sum_{i=t_1}^{t_2} Difficulty}{\Delta Time}$$

*SharesPerSecond = 0.07241549387125584*

## Potential payout calculation

And finally, we can calculate how many bitcoins per day can this user mine *on average, under those conditions*:

$$BitcoinsPerDay = \frac{SharesPerSecond}{NetworkDifficulty} \cdot BlockReward \cdot ExchangeRate \cdot SecondsInDay$$

$$BitcoinsPerDay = \frac{0.07241549387125584}{919363115898827} \cdot 239.679 \cdot 0.00002302 \cdot 60 \cdot 60 \cdot 24$$

*BitcoinsPerDay*  $\approx 0.00003754857557735$

<sup>3</sup> Those are real values, but for actual settlements we are using much shorter time windows.

GamerHash application manages a cycle which cryptocurrency is on the top of the mining popularity and profitability lists. We predict that types of cycles. On the user benchmark process we see the user hardware specification and match with nearly 100 % probability which cryptocurrency has to be mined.

Mining pools are chosen to optimize fast revenue. Each client can see as fast as possible growing value of account to give a sense of security on the way of exchange of computing power to cryptocurrency in real time. Users are informed about revenue all the time. We wanted to introduce mechanisms to protect customers against losing trust into the application, thus remaining fully transparent in the use of technology.

The light weight application architecture was achieved by implementing an idea to compile and use miners for specific user requirements that means users have only downloaded and installed absolutely necessary packages. This intervention partially solves the problem of no trust for miners computer codes which are extensively blocked by market present anti-virus suppliers<sup>3</sup>. We implement technologies that minimize probability of application being detected as a malware also with cooperating with the biggest known anti-viruses.

Our system monitors exchanges and networks. At the same time we have detailed information about user's hardware performance for each possible algorithm - we collect this data in Benchmark step.

At this point our system is able to calculate which cryptocurrency will maximize profits for each user.

That piece of technology already is implemented in hardware compatibility database. Application check and benchmark user hardware and store results in database. The simple comparison of database record with new user machine specification gives a quicker approximation of hardware computing capabilities conserving processing and response time. User is able to run full benchmark of his hardware. We are able to quickly and reliably match mining algorithm, cryptocurrency with compute power of client.

GamerHash checks pool status and initializes miner testing of a chosen pool. if the pool is unresponsive or has crashed, the user can be sure that their machine is still mining with the use of out parallel and distributed system. regarding our parallel and distributed system. Our solution also checks mining process itself using custom automated control and reporting system. We use a push notification protocol for computers with Windows 10 operating system.

**Security of our platform is of utmost importance.** For isolation and resource control we are using the same technology that powers Docker<sup>4</sup> engine; Linux namespaces and cgroups. With help of systemd and uwsgi<sup>5</sup> we are containing each component of our web application in separate, isolated container; making sure that no part of our system has access to anything more than strictly needed. Parts of the application can only see their virtual host, their list of processes, their files, have their own network interfaces with their own internal addresses. Our platform is secured by GreyWizard<sup>6</sup> technology giving us security from Bots, Brute Force and DDOS attacks. We have prepared protocols that drops unsecure connections changing on the go proxy addresses thus our custom proxy solution was written with safe language aggressively using assertions. Databases are accessible only from behind VPN. Prometheus<sup>7</sup> technology instantly measure critical points of infrastructure and in real time our security experts monitors whole system dashboards. Exchange compute power to physical goods is simpler than ever before in the world; with our cutting edge technological solutions.

3 <https://www.virustotal.com/gui/file/edd97bb54af3e0fb5981f48cc8fdb7307937bd89443992dcbb006f6d9095c8d5>

4 <https://www.docker.com/>

5 <https://uwsgi-docs.readthedocs.io/en/latest/articles/MassiveHostingWithEmperorAndNamespaces.html>

6 <https://greywizard.com/>

7 <https://prometheus.io/>



### 2.3 OUR COMMUNITY

The majority of our users, who are also the early adopters of our platform, are PC gamers. In the future we are definitely planning to develop this particular group for many reasons, such as:



Gamers have configuring, testing and maximising in their blood. They are highly competitive, goal-oriented and open to innovative ideas.



PC gamers operate on efficient equipment, including CPUs and GPUs which in return offer a higher yield.



Gamers are a close-knit, loyal and demanding target group, which transcends typical demographic or psychographic divisions.



The GamerHash teammates have many years of experience in e-sport and gamer advertising with each member being an avid gamer, developing a product for fellow gamers just feels right.

**Statistics show that there were 1.2 billion PC gamers at the end of 2018. This number is expected to increase to 1.4 billion by 2021. It is a staggering amount of computing power which is waiting to be put to use.**

Gamers is where it all started. However, there are at least 2.5 billion computers in the world<sup>1</sup> (as of 2019) which could easily monetize computing power with GamerHash. The app itself has been designed in a way to be as simple to use as possible and therefore, it may be easily adopted by non-technical people. Browsing the internet, watching movies or playing browser games are the most frequented activities by average computer users. The GamerHash app can be run in the background allowing recreational users to for example earn their next Netflix subscription since they watch movies either way.

<sup>1</sup> <https://www.statista.com/statistics/748072/number-pc-gamers-world-platform/>

Additionally, GamerHash is a gateway for people into the blockchain network because it lifts all the barriers of entry. Users do not require the knowledge of many complicated aspects of the distributed ledger systems. with just one-click they can turn the app on and it will immediately start mining the most profitable cryptocurrency. Users who are interested in the cryptomarket have the option to withdraw earned Bitcoins to their external wallets, users who are not interested in cryptocurrencies have the option to spend the funds in the integrated store.



We connect to our users via Discord, a user-friendly channel-based application for text and audio communication. Our community has selected people who are knowledgeable and eager to help other members and moderate our groups.

GamerHash is also present in other social media like Facebook, Twitter and Telegram.



*like us on Facebook*



*follow on Twitter*



*join Telegram*

Furthermore, we organise contests and giveaways, and we regularly consult the community about the products they would like to see in our store offer. Our community is the most important piece in the GamerHash puzzle, that is why we strive to provide them with the best customer service experience through our devoted community managers.



## 2.4 BUSINESS MODEL

GamerHash is based on a business model in which users receive an optimised tool for sharing computing power. The electricity consumption is comparable to the consumption generated when playing computer games. Computers with the GamerHash application become individual nodes of a distributed network - the so-called 'miners'. The whole process of cryptocurrency mining is controlled by the platform and is unnoticeable to the user. The application relieves the users from the task of selecting one of the cryptocurrencies and in the future, it will provide the option to outsource computing power for other purposes, such as rendering or deep learning

### Mining commission fee

- » users receive between 93% and 100% of the funds earned
- » GamerHash's fee is 0% for ASICS hardware and between 2% and 7% for desktop owners
- » the proportion changes in favour of our users - the more they earn, the more stays in their wallets

### GamerHash Store margin

- » product margins depend on the prices negotiated with suppliers

### Play&Earn

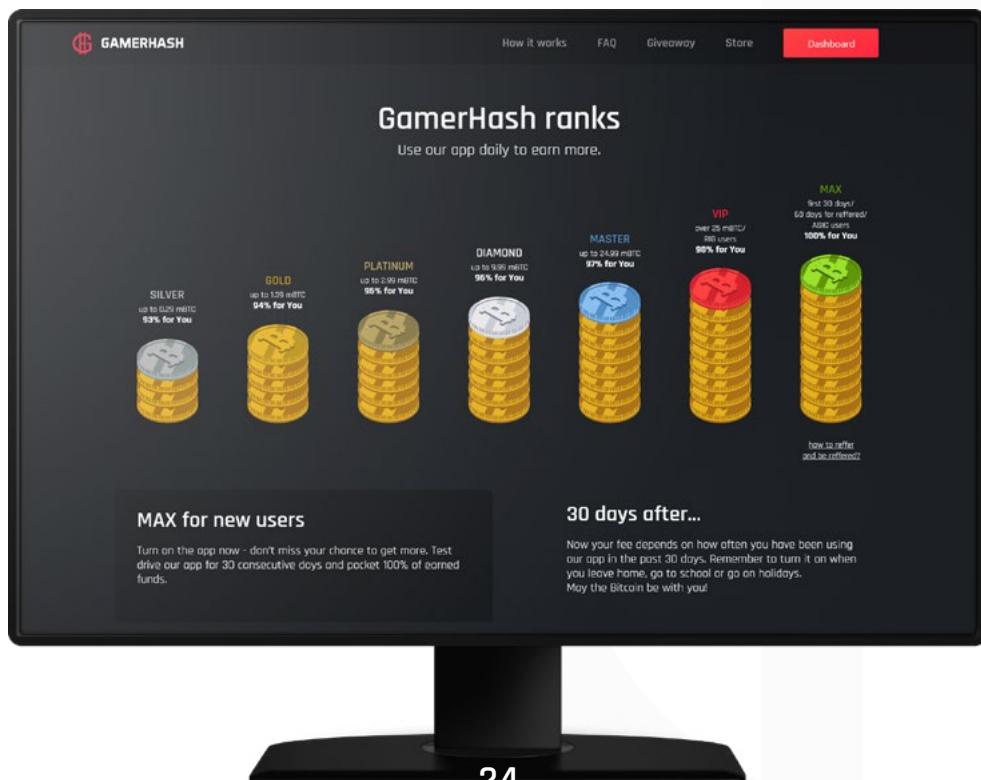
- » users earn additional funds through completing tasks through game entertainment
- » the reward for each task varies up to a few GUSD or a few dollars in tokens for completing a single task
- » fee depends on the agreement with the partner

**New users earn 100% of all funds generated by their devices in the first 30 days. The more active they are, or the longer our application is generating money, the lower our commission is (2% - 7%).** ASIC owners enjoy fee-free mining and mining rigs fee is only 2%. The focal point of this model is users themselves and the main objective is to encourage them to share computing power for as long as possible. At any stage, the funds may be exchanged for products in our store or paid out in Bitcoins to users' wallets e.g. at a cryptocurrency exchange.

The e-commerce platform, an integral element of our ecosystem, earns us money through product margins. As any platform of this type, we research the market and try to find cheaper suppliers or negotiate better prices with the existing ones. We evaluate the prices on products on the basis of units sold to ensure they are attractive from the point of view of the users. Product margins differ and are dependent on the prices negotiated with suppliers. Signing individual contracts with suppliers of premium services is key to our platform's success. This way, we can negotiate unique offers for our users, which are not available anywhere else, making our store even more appealing.

**The Play&Earn feature has been developed to include users whose hardware does not have enough computing power to be used for cryptomining.** A user clicks the P&E function in the application which takes them to a list of tasks with listed objectives. When a user selects a task, the others will be instantly blocked for 12h-72h to prevent scams and bots. Each user may have maximum three different tasks in progress. After a task is completed and verified, the reward will be transferred to the user's GUSD wallet.

The GamerHash platform gives its users the opportunity to obtain various goods without having to purchase them in a traditional way. **Users do not need to get into complicated details of cryptocurrency mining in order to benefit from the process.** On the basis of the assessment of advertising campaigns carried out by GamerHash (FacebookAds, Google AdWords, referral networks), we are convinced that we have chosen the right business model which is mutually beneficial for our users and us. Offering goods in exchange for computing power, as well as providing users with information on the time required to get a reward is much more efficient than conventional business models based on traditional purchases. Even a few-year-old CPU may be enough to never have to make micropayments traditionally.





GAMERHASH

# 3 MARKET ANALYSIS

## MARKET ANALYSIS



### 3. MARKET ANALYSIS

Although we have launched GamerHash quite recently, the market has already verified our business model and from the reception we have received, we believe that our services are in high demand. Nevertheless, we are fully aware of the challenges ahead and we are working hard to keep the advantageous edge over our competitors.

#### MARKETPLACE

It is fair to say that Valve Corporation with its distribution platform, Steam, has revolutionized the digital distribution system of the video game market. In 2018 alone, Steam advertised as many as 9 300 new titles. It is estimated that the titles were purchased over 354 million times, at the average price of \$9.2 each. The development of Valve Corporation has positively fostered the development of GamerHash as we are able to offer more products in our store. Moreover, GamerHash users receive Steam top-ups, games and Steam keys without having to pay for them, or in return for using our application.

From the point of view of the games marketplace, we must not forget about G2A, which greatly contributes to the gaming culture by sponsoring esports teams, as well as organising and financing esports tournaments. The company's subscription system offers, among others, games at competitive prices and internal cryptocurrency to be used in the so-called game chests. Furthermore, G2A provides both private sellers and companies with the possibility to sell their goods, where each transaction may be secured with the G2Pay system. We have managed to initiate cooperation with G2A and, as a result, the GamerHash integral store now offers a variety of new virtual products.

**With GamerHash, users not only have the option to withdraw the funds, but also can buy a digital product like a retail voucher or a gift card and redeem it in an offline store for a physical product, whether food, clothes, computer accessories or anything else in stock**

## MARKET ANALYSIS

### MINING

Cryptocurrencies can be mined via mining pools or apps. The difference between the two is crucial from the point of users' level of knowledge. Using pools for cryptomining requires extensive cryptoeconomics knowledge and advanced IT skills. It is definitely not a good option for users who are at the start of their blockchain/cryptocurrency journey or have the required information but lack IT competence. As far as cryptomining apps are concerned, there are a few on the market in different stages of development.

MinerGate. It is a mining pool with 4 million users worldwide. It can be configured by selecting a preferred miner, cryptocurrency and component load. A user can choose to mine a variety of coins including Bitcoin, Monero, Etherum, Zcash, FantomCoin and others.

Honeyminer (US-based) is an application for facilitating cryptomining on GPUs and CPUs. Their algorithm mines the most profitable coins and the profits are auto-converted into Bitcoins or Ethereum which may be paid out to users' external wallets or kept as a form of investment. The mining fee amounts to 8% for a single GPU and 2,5% for two GPUs or more.

Cudo Miner (London-based) is an application for Windows, Ubuntu and MacOS mining crypto on CPUs and GPUs with the option to choose which coin to mine. Different fees are applied based on the amount of cryptocurrency mined in the last 30 days. The threshold to withdraw funds to an external wallet is set to 0.002 BTC.

Neither of the above companies has a platform-integrated store which provides its users with the option to seamlessly exchange earned funds into products. Our research shows that the majority of our users choose GamerHash over others because of the instant gratification they receive and the possibility to put the collected funds to use instantly via purchasing products from our store. **Advanced users value our platform because they are rewarded with Bitcoins - the most popular cryptocurrency, beginners and more profit-oriented users choose GamerHash just because they want to earn additional funds whether through mining or the Play&Earn feature.**

### AFFILIATE PROGRAM (PLAY&EARN MODULE)

Many services offer digital goods in their stores in exchange for performing particular tasks, for example, answering a questionnaire. A perfect example of this kind of service is the popular GameKit platform with over 15 million users. Their system of rewards is based on offering internal tokens in exchange for carrying out particular activities. GameKit users have already received in total 4 million dollars which shows the potential and confirms the appeal of this type of services.

GamerHash connects all the above mentioned pillars. Users not only have the option to withdraw the mined funds in Bitcoin, but also can buy a digital product like a retail voucher or a gift card and redeem it in an offline store for a physical product - food, clothes, computer accessories or anything else in stock. All these products are also accessible to users who do not own computers rich in processing power. To obtain them, all is needed is time to do tasks in Play&Earn. Users earn via the GamerHash app in two ways - via sharing computing power and through completing tasks in Play&Earn. **No other competitor on the market offers such a solution.**

# 4 CASE STUDIES

- 4.1 BUY ANYTHING WITH COMPUTING POWER
- 4.2 MICROPAYMENTS
- 4.3 PROFESSIONAL MINERS
- 4.4 DEMAND FOR COMPUTING POWER



## 4.1 BUY ANYTHING WITH COMPUTING POWER

Trends in shopping have been undergoing significant changes. At the moment, how we shop, especially in the case of the Generation Z, or the quarter of the world's population, is dictated by our lifestyle. We are time-strapped and will do anything to save time. Therefore, instead of going shopping at the weekend with a list full of items, people prefer to shop frequently, buying just the things needed for the next couple of days in brick-and-mortar stores located just outside our homes or workplaces. Statistics show that shoppers spend £6.5 (around \$8.5) on average per visit to a convenience store (data for the British market, 2018).

The game-changer here is the fact that you can now cover your micropayments, or transactions just because you own a computer. There is no need for using your bank account money or credit card to purchase staple items like food, beverages, household items or anything else you crave while passing the nearest 7-eleven type of shop. Another advantage of convenience store chains is that you can virtually find them everywhere (cities, towns, residential areas).

**The latest partnership between GamerHash and Żabka convenience store chain with 6000 shops around Poland allows our users to buy anything they need on the go whether it is a can of coke, takeaway food, a sandwich or snacks.** Once you select the items, just go to the cashier's desk, log into your GamerHash account, buy the code or else if you already have it, just show the code to the cashier, pack your products and leave.

*Żabka has over 6000 shops around Poland*





## 4.2 MICROPAYMENTS

The concept of micropayments or micro-transactions used to have only negative connotations and suggested the creators' greed. There is a reason for this. After all, such transactions gave access to more powerful items in games, additional skills or access to stronger characters. What does it look like today?

Microtransactions are very popular on the mobile games market, where purchases inside the application allow gamers to supplement the in-game currency stocks, which they can then spend on upgrades, boxes, lootboxes, and packages with the chance to receive a unique item that would otherwise require many hours of playing.

**In total, in 2018 F2P (free-to-play) games earned 22 billion dollars**, whereas full versions of paid PC and console games with add-ons earned a total of 16,4 billion dollars<sup>1</sup>, which is a huge difference. That is why an increasing number of publishers are applying this type of solution. Titles such as GTA V or Overwatch, as well as other productions are also very successful. In 2017, Blizzard's shooting game earned 4 billion dollars<sup>2</sup>. EA studio, which does not shy away from payments inside the games, generated 1.4 billion dollars in revenue from all of its productions.

At present, this type of purchases, at least in the case of console and PC games, most often concerns minor changes to controlled characters without interfering with the mechanics themselves, thus not increasing the winning chances of people spending money. It seems the right way to go since the pay-to-win model is rather frowned upon. Free games, with the optional purchase of skins and other elements distinguishing one gamer from the other, are a perfect illustration of that. An example of such a production is the currently popular Fortnite: Battle Royale, which is attracting more and more users every month and is constantly generating higher revenue due to micropayments.

The game was initially created as a cooperation; the Battle Royale mode was officially released in July 2017. By March 2019, the game had been played by over 250 million people and had generated over 2 billion dollars worldwide<sup>3</sup>. The fact that it is a cross-platform production contributes to its great popularity; the game is available on Xbox, PS4, Android and Nintendo Switch for free.

1 <https://techcrunch.com/2019/01/18/free-to-play-games-rule-the-entertainment-world-with-88-billion-in-revenue/>

2 <https://www.pcgamer.com/activision-blizzard-earned-more-than-4-billion-on-in-game-purchases-in-2017/>

3 [https://en.wikipedia.org/wiki/Fortnite\\_Battle\\_Royale](https://en.wikipedia.org/wiki/Fortnite_Battle_Royale)

**A study of one thousand gamers who spend between 6 and 10 hours, on average, playing the game, carried out by the analytical company LendEDU, showed that as many as 68.8% of this group uses a micropayment system, and the average amount spent by them is 84.67 USD<sup>4</sup>.** In addition, as many as 36.7% of the respondents first made this type of purchase because of Fortnite. It is also worth mentioning that Fortnite Mobile, released only in the form of closed tests exclusively for iOS, made a profit of over 100 million dollars in 90 days and was downloaded 11 million times. Releasing Fortnite on Android platform, brought Epic Games 15 million users within 21 days. We can assume that the Android version will bring similar results.

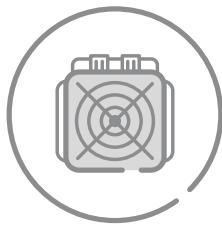
The example of Fortnite proves that gamers no longer perceive the micropayment system in a negative way. It is claimed that it was the microtransaction system which allowed this game to remain in the F2P model and, at the same time, cover the costs incurred by the creators and generate profit for them. Epic Games seems to have made the right decisions which will bring them profits throughout the whole period of development and popularity of the game. The micro-transaction financing model is doing fine, and GamerHash comes to help gamers, thanks to which they can do their shopping with outsourced computing power.

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<sup>4</sup> <https://lendedu.com/blog/finances-of-fortnite/>

*Fortnite is one of the most popular multiplayer games of all time*





### 4.3 PROFESSIONAL MINERS

Cryptocurrencies have certainly become a global phenomenon. The number of devices using computing power to mine them is constantly increasing, and more and more advanced specialist machines, the so-called miners, are created with a view to mining virtual currency. This results in a time-consuming scheme in which in order to optimize profits from a platform, many solutions must be tested by means of complicated configuration systems.

**GamerHash uses independently developed algorithms and, after conducting preliminary tests, it selects the optimal cryptocurrency along with the best settings of the miner.** It saves users long-lasting tests or changing configuration files, which enables the automation of mining processes. Users no longer need to have several cryptocurrency wallets depending on the rates and profitability on a given day. Such a wallet often requires constant updating and downloading data, e.g. in case of Ethereum it takes several dozen GB.

There are problems with the operation of programs or even with the hardware itself. Searching for every single error message is also very time-consuming and requires running tests as there are various ways to solve them, depending on specific configurations. With our application, the above-mentioned process is skipped and, in the event of problems, the continuity of earnings is maintained. Furthermore, we run professional customer service where our technical support team provides guidance and solutions to problems through the ZenDesk and Discord platforms. On our channel, you can also get in touch with advanced users who are happy to address any questions you may have.

Mining is only part of the process as the mined funds must also be cashed. Many companies or exchanges offer withdrawals only from a certain minimum threshold, which often amounts to a few dozen dollars. It may take time to collect such an amount even in case of more powerful computer sets or complex miners. We respond to the users' needs also in this respect and allow for daily withdrawals to the internal wallet after reaching 0.01 mBTC. The minimum withdrawal threshold is often several dozen dollars, which, for an average computer, means many days of waiting. Furthermore, in order to effect the exchange of funds, users must also have an account with one of the cryptocurrency stock exchanges and, hence, they need to register and provide their personal details.



## 4.4 DEMAND FOR COMPUTING POWER

History shows that the development of one branch of technology leads to minor or major changes in others. It can particularly be observed in the computer sector, which has been dynamically developing since the 1970s and where ever greater efforts in improving components have significantly increased the capabilities of programmers, which in turn resulted in more and more complex programs. In the cryptocurrency era, earning with the use of computing power should no longer come as a surprise to anyone. However, the computing power already used in cryptocurrency mining also helps other branches of economy which require the use of strong components in order to complete processes in a correct and faster manner.

The growing computing power employed for mining cryptocurrencies is more and more frequently used to improve the operation of, for example, artificial intelligence, which translates into a reduction in research costs, costs of graphic rendering or machine learning.

The growing demand for computing power can also be observed in such branches of economy as the virtual reality (VR) or the augmented reality (AR). This year, the projected value is 26.7 billion, and by 2025 it is expected to increase up to 814.7 billion<sup>1</sup>.

For these predictions to become a reality, decentralized computing power is required. It can be rented for example, from such giants as Amazon (AWS), Google (Cloud) or Microsoft (Azure VM), which earn huge revenue from sharing the computing power at their disposal. However, not only large companies are working on such solutions. As far as sharing computing power is concerned, we must not forget about projects like Golem Network. Golem Network is a global, open and decentralized supercomputer that can be accessed by anyone. It consists of the combined power of users' data from personal laptops to entire data centers. It is widely acclaimed by developers as a tool that can be used by virtually anyone and for almost any purpose, while maintaining low costs. Cloud gaming will contribute to giving the shared computing system model mass appeal. Smaller suppliers of such services are already present on the market. Global players like Google Stadia and Microsoft xCloud will easily reach millions of gamers worldwide and give them an option to pay a monthly fee for computing resources instead of buying a high-end equipment. All the processing will take place somewhere else with images being streamed via the Internet.

At GamerHash, we strongly believe in the further development of decentralized computing power. In the future, we want to use the potential of the thousands of GamerHash users' computers combined into one supercomputer to implement projects that go far beyond cryptocurrency mining, while constantly rewarding our users for their valuable contribution.

<sup>1</sup> <https://www.globenewswire.com/news-release/2019/02/21/1739121/0/en/Global-Augmented-and-Virtual-Reality-Market-Will-Reach-USD-814-7-Billion-By-2025-Zion-Market-Research.html>

# 5 THE FUTURE

- 5.1 WHAT WE'VE DONE SO FAR
- 5.2 WHAT WE ARE PLANNING TO ACHIEVE

## 5.1 WHAT WE'VE DONE SO FAR

- 
- A vertical red line with circular markers at each quarter interval. The timeline starts with 'Q1 2017' and ends with 'today'. Each marker is followed by a list of achievements.
- Q1 2017 » GamerHash project concept
  - Q2 2017 » Start of development
  - Q4 2017 » GamerHash Beta version
    - » Launch of GamerHash Store
  - Q1 2018 » 100.000 registered users
    - » Support for every PC with Windows 7+
  - Q2 2018 » GamerHash platform in: Chinese, English, Japanese, Korean, Polish, Portuguese and Russian
    - » We raised 250.000 EUR; valuation 1.5 mln EUR
  - Q3 2018 » 150.000 registered users
    - » 500+ products in GamerHash
  - Q4 2018 » New office in Malta
    - » 300.000 registered users
  - Q1 2019 » Play&Earn - lead generator feature built into the app
  - Q2 2019 » Utility token concept preparation
    - » Beginning of development of mobile app for iOS & Android
    - » ASICs mining launch
  - Q3 2019 » 100.000+ EUR in Seed Sale funding
    - » New office in Santa Monica CA
    - » Coinbase wallets integration
  - Q4 2019 » 420.000 registered users
- ▼ **today**

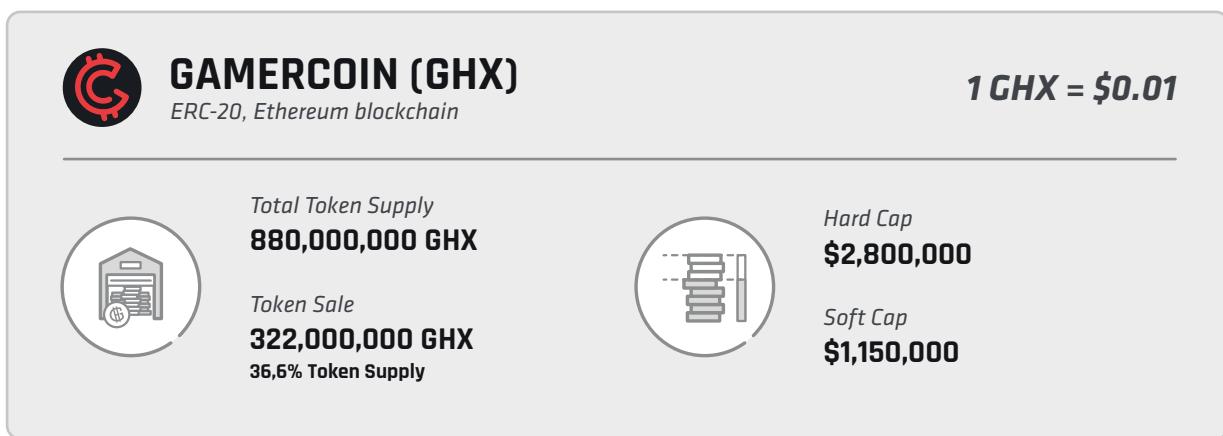
## 5.2 WHAT WE ARE PLANNING TO ACHIEVE

- ***today***
- Q1 2020
  - » 500.000 registered users
  - » Strategic partnerships using Play&Earn
  - » Launching mobile app iOS & Android
- Q2 2020
  - » Equity Round \$2m
  - » GamerCoin PreSale - Private
  - » Launching token loyalty program
- ***future***
- Q3 2020
  - » GamerCoin PreSale - Public
  - » MacOS desktop application BETA
- Q4 2020
  - » GamerCoin listings on exchanges
  - » Community & Game mining programme
  - » Expansion of local operations to South-East Asia market
  - » API for GamerHash marketplace
- Q1 2021
  - » Further extension of GamerCoin ecosystem (Ecosystem Fund)
  - » Expansion of local operations to Russian market
  - » Up to 1.500.000 GamerHash users

# 6 GAMERCOIN (GHX) ECONOMY

- 6.1 TOKEN DESCRIPTION
- 6.2 TOKEN GAME MINING
- 6.3 USE OF PROCEEDS
- 6.4 TOKEN ALLOCATION

## 6.1 Token description



\* After reaching Hard Cap remaining tokens from Token Sale pool will be burned

GamerCoins (GHX) will be issued and maintained in ERC-20 standard. Ethereum blockchain is more suitable for micropayments than any other popular blockchains. Also offers smart contracts implementation which is in scope of our further platform development. The Ethereum smart contracts are simple and transparent, whereas transactions are inexpensive and fast - with confirmation within 15 seconds. We build a tool to the entire ecosystem for competitive advantage over others.

**In the next steps of project growth there are plans to partly or fully migrate to other blockchains, with special focus on own protocol. That would allow GamerHash project and blockchain layer to perform better and faster and would bring significant improvement to our customers.**

The following is a non-exhaustive list of GHX token's use cases.



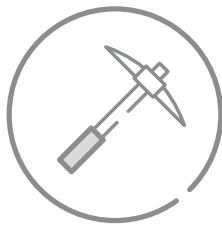
Ordering products from GamerHash Store with additional bonus. Purchase with GHX tokens would provide lowest possible prices or tokenback (part of tokens return after purchase) from few up to 50%.



Access to dedicated competitions / events for GHX hodlers.



Hodling and owning GHX tokens would allow to receive bonuses in GamerHash ecosystem, e.g. daily bonuses (rewards, additional rebates)



## 6.2 Token game mining

Users will be able to receive GHX tokens without purchasing them in a few possible ways:

### For sharing idle computing power

Additional 20% bonus in GHX tokens for each daily withdrawal. GHX token will be added to wallets embedded in GamerHash ecosystem. User will be able to withdraw them or use for GamerHash Store purchases. For example: for each 10\$ mined by user GamerHash adds 2 more dollars in GHX tokens.

#### Limits & restrictions:

- » Only for sharing idle computing power (mining)
- » Monthly limit of tokens 10.000 USD in GHX tokens
- » Token which were not used in a month are being moved to next month (cumulative)
- » Time frame: minimum 30 months
- » Program will end when all the tokens from 5% pool of GHX tokens will be distributed (Community & Game mining).

### Ecosystem activity

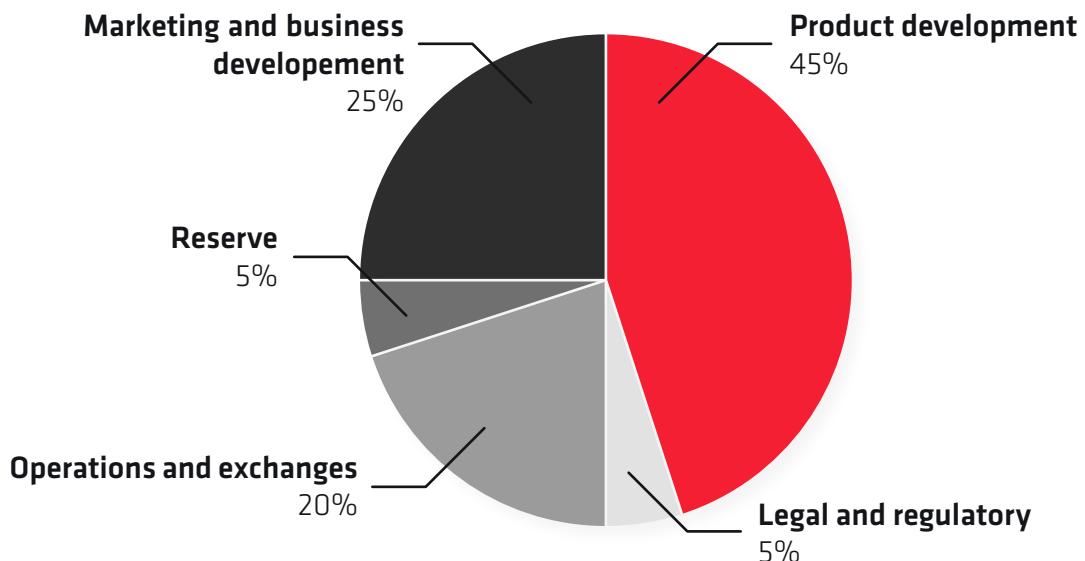
Users can receive rewards by performing tasks from our partners at Play&Earn, recommending our platform or our partners' products, as well as for activities related to the entire ecosystem. GHX tokens will be used as a main or additional reward. They will be given into built in wallet within the GamerHash platform. Tokens will be available for withdrawal or purchases at the GamerHash Store.

#### Limits & restrictions:

- » Only for tasks in Play&Earn within GamerHash ecosystem
- » Monthly limit of tokens 50.000 USD in GHX tokens
- » Token which were not used in a month are being moved to next month (cumulative)
- » Time frame: minimum 30 months
- » Program will end when all the tokens from 12% pool of GHX tokens will be distributed (Ecosystem Fund)

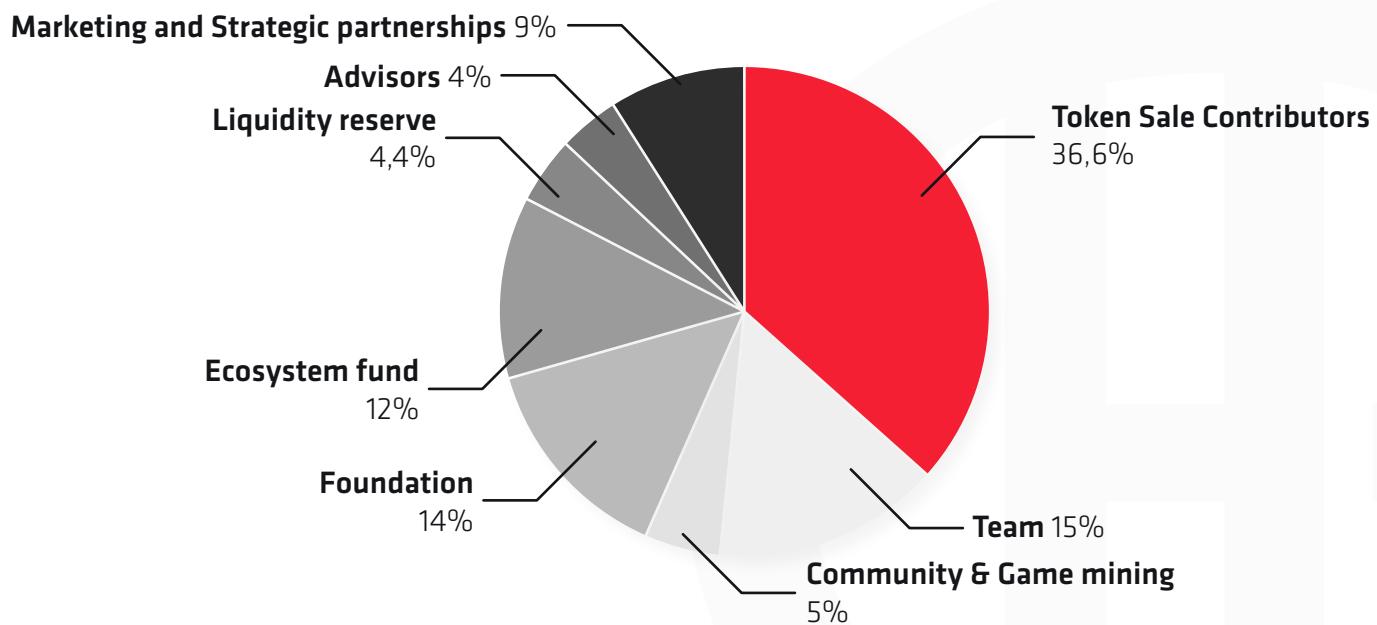
## 6.3 Use of proceeds

funds from token sale contributors



## 6.4 Token allocation

GamerHash will create a total issuance of 880 million GamerCoins (GHX). Tokens will be allocated in the following proportions.



## GHX TOKEN ECONOMY

	Description	Release Schedule
<b>Token Contributors (36,6%)</b>	<p>Tokens intended to be sold in a utility token offering to give purchasers early access to GHX tokens so they can utilize the services offered by GamerHash. Private Sale, presale contributors will be awarded bonus tokens for early support given. Bonus tokens are the subject of additional vesting period.</p> <p><b>Tokens are created in Token Generation Event (TGE)</b></p>	<p><b>Public token sale</b>  <b>Duration:</b> instant</p>
<b>Team (15%)</b>	<p>Team tokens are designed to incentivize core team and acquire new employees. The team tokens are going to be the subject of vesting period of 2 and ½ years.</p>	<p>Initial release after 1 year from TGE, at start 10% then 5% every next month (18 months)  <b>Duration:</b> 2.5 year</p>
<b>Community &amp; Game mining (5%)</b>	<p>A pool of tokens for prizes for committed members of our community as well as tokens added as a bonus (additional remuneration) for sharing computing power.</p>	<p>Initial release after 30 days from TGE, at start 4%, then 3% every next month (32 months)  <b>Duration:</b> 2 years and ¾</p>
<b>Foundation (14%)</b>	<p>At a later stage, we intend to support widely the gaming industry. The Foundation will be involved in helping game developers, gaming organizations and event organizers.</p>	<p>Initial release after 1 year from TGE, at start 25% then 25% every next 12 months (3 years)  <b>Duration:</b> 4 years</p>
<b>Advisors (4%)</b>	<p>The Advisors tokens are dedicated for use of recruiting advisors that are critical for the project's success.</p>	<p>Initial release after 90 days from TGE, at start 25% then 25% every next 3 months (9 months)  <b>Duration:</b> 1 year</p>
<b>Ecosystem Fund (12%)</b>	<p>We will provide marketplace toolsets that will enable external partners to join our ecosystem faster and independently. The available fund will allow to exponentially increase the number of partners and products offered. From this pool we will also be rewarding for performing tasks in Play&amp;Earn.</p>	<p>Initial release after 30 days from TGE, at start 10% then 18% every next 12 months (5 years)  <b>Duration:</b> 5 years</p>
<b>Liquidity reserve (4,4%)</b>	<p>Amount of tokens dedicated to support liquidity management on both sides of the book.</p>	<p><b>Duration:</b> Instant</p>
<b>Marketing (4%)</b>	<p>For us its building adoption of GamerHash ecosystem: acquiring new users, active miners, building community, building brand visibility. In the blockchain space big focus is placed on events &amp; conferences to meet the team which legitimize the project.</p>	<p>Initial release after 90 days from TGE, at start 25% then 25% every next 3 months (9 months)  <b>Duration:</b> 1 year</p>
<b>Strategic partnership (5%)</b>	<p>That includes key partnerships for platform long term growth. Tokens are intended for onboarding integrators of gamerhash services, not to be sold into secondary markets.</p>	<p>Initial release after 2nd year from TGE 50%, 50% at 3rd year  <b>Duration:</b> 3 years</p>

# 7

## THE GAMERHASH PEOPLE

- 7.1 EXECUTIVES
- 7.2 ADVISORY BOARD
- 7.3 PARTNERS

## 7.1 EXECUTIVES



### Patryk Pusch Chief Executing Officer & Founder

Has been a serial founder of gaming, affiliative, and VR projects for a number or so years. Cryptocurrencies have been present in his life since 2013 when he started building his first mining rigs.

[linkedin.com/in/patryk-pusch](https://linkedin.com/in/patryk-pusch)



### Artur Pszczołkowski Chief Marketing Officer & CoFounder

Artur held the position of Head of Digital in Swiss-based global corporation. He has a broad international & corporate background (>15Y), wide expertise in planning & executing global online activities.

He founded the Swiss-Polish Blockchain Association & Polish Blockchain Chamber. Also, he is a member of CryptoValley Association & London Blockchain Foundation. Artur is Oxford Alumni of Blockchain Strategy Programme.

[linkedin.com/in/arturpszczolkowski](https://linkedin.com/in/arturpszczolkowski)



### Mike Grzybkowski Chief Strategy Officer & CoFounder

Founder, geek, entrepreneur, book author & public speaker, CEO of CoinPaprika.com, Founder of the largest data center in Poland - Beyond.pl, as well as co-founder and investor in high-tech ventures: CoinPaprika.com, GreyWizard and GoldenSubmarine. Oxford Blockchain Strategy Programme alumn (2018). In the years 2005 - 2006 he was an individual PhD research program at the University of Oxford, Jesus College. Since 2014 in blockchain and cryptocurrencies space.

[linkedin.com/in/mgrzybkowski](https://linkedin.com/in/mgrzybkowski)



### Lech Kalinowski Ph. D. Chief Technical Officer

Doctor in physical sciences. National Science Centre (NCN) grant recipient (2015-2018) for research on quantum condensed matter. Winner of Nvidia GPU Academic Grant Program in 2018. Gained his research experience at Du Maine University in Le Mans. In the past worked as a machine learning and blockchain developer lead. He has hands on experience with coding various blockchain applications.

[linkedin.com/in/lech-kalinowski](https://linkedin.com/in/lech-kalinowski)

**Adrian Pietrzak** Chief Business Development Officer

An experienced sales manager with +10 years of experience in the Polish companies and international companies in the B2B - both in the field of IT solutions and consulting. Successful in building new markets and develop existing, skills to build a sustainable business based on good relations with clients. Experience in project management engaging many departments. Crypto investor since 2016.

[linkedin.com/in/adrianiptezak](https://linkedin.com/in/adrianiptezak)

**Radek Rosiak** Founder

Serial Entrepreneur with few businesses based in Los Angeles. Vanguard University of Southern California graduate with Science & Business Degree. Blockchain enthusiast. Stock market & Crypto investor since 2013.

[linkedin.com/in/radekrosiak](https://linkedin.com/in/radekrosiak)

**Janusz Zielinski** PR Director

Interested in Bitcoin since 2012, advisor and business developer for blockchain based projects, journalist and editor in crypto related news services and magazines. Organizer of crypto community meetups and co-founder of Neural-Networking conference.

[linkedin.com/in/zielinski-janusz](https://linkedin.com/in/zielinski-janusz)

**Leszek Majewski** Business Development Manager

A financial risk manager with international experience. Entrepreneurial spirit always at the forefront of technological changes and business opportunities. Integrate business and economic strategies in line with organizational visions along with the governance and risk management needed to deliver success.

[linkedin.com/in/leszekmajewski](https://linkedin.com/in/leszekmajewski)



## Katarzyna Trebacz Business Development Manager

Experienced entrepreneur, from the beginning connected with the financial markets. She is an active investor in several companies from the technology sector. In the area of blockchain&crypto from 2016.

[linkedin.com/in/katarzyna-trebacz](https://linkedin.com/in/katarzyna-trebacz)

## 7.2 ADVISORY BOARD



### Filip “neo” Kubska Counter-Strike legend

One of the best players in history and one of the “Golden Five” group who won many tournaments.

Voted as Player of the Decade by HLTV.org community.

[facebook.com/filipneokubski/](https://facebook.com/filipneokubski/)



### Idranil Sen

Senior transformational leader with 20+ years’ experience in projects from Asia, Middle East and Africa, leading major transformation programs, including digital transformation, post-merger integrations and business development.

[linkedin.com/in/indranilsen](https://linkedin.com/in/indranilsen)



### Delia Sabau

With 20+ years of experience working in the world’s leading financial services firms and in startup environments, Delia lead and managed global investments through tremendous growth delivering top tier performances through in-depth industry expertise, quantitative investment research, and cutting-edge technology experience.

[linkedin.com/in/delia-sabau](https://linkedin.com/in/delia-sabau)



### Alex Strzesniewski

Alex Strzesniewski has been an investor, consultant and advisor in the blockchain space for years and is now the COO of the crypto-fiat exchange CoinDeal. He is also the creator and host of the Sidechain Podcast.

[linkedin.com/in/alexstrzesniewski](https://linkedin.com/in/alexstrzesniewski)

## 7.2 ADVISORY BOARD



### Gordon Breckenbridge

Skilled leader proven in global scale projects, communicator, and facilitator - have expertise in program/project management, business relationship management, major system implementation, and building customer satisfaction.

[linkedin.com/in/gordonbreckenridge](https://www.linkedin.com/in/gordonbreckenridge)



### Yasir Qayam

Yasir for number of years was reviewing whitepapers, ICOs, teams and technology proposal of various projects. He has helped investors gain a better understanding of the projects to make an educated decision on their investments.

[linkedin.com/in/yasirqayam](https://www.linkedin.com/in/yasirqayam)



### Christoph Daszkiewicz M&A Expert

Background in engineering and finance. Serial entrepreneur with focus on technology and business model disruption, several years of management experience in M&A, corporate venture and investment at Siemens AG.

[linkedin.com/in/christoph-daszkiewicz](https://www.linkedin.com/in/christoph-daszkiewicz)



### Katarzyna Heller

Highly recognizable international lawyer experienced with FinTech, blockchain & cryptocurrencies matters. Over the years has consulted number of crypto-projects in Switzerland. Strongly connected with Crypto Valley / Zug.

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# 8 CONSIDERATIONS

- 8.1 DISCLAIMER
- 8.2 RISK FACTORS

## CONSIDERATIONS



### 8.1 DISCLAIMER

This White Paper has been issued on April 10th, 2020 by COINAXE LTD, a company registered under the Laws of Malta with company registration number C 94976 and having its registered address at 14 East, Level 5, Sliema Road, Gzira GZR 1639 Malta (the "Company"). This document describes the Company's business objectives and the generation by the Company of GamerCoin (GHX) tokens, and may not be complete or final.

The purpose of this White Paper is to provide prospective purchasers with the information on the Company's project to allow the prospective purchasers to make their own decision as to whether or not it wishes to proceed to purchase of GamerCoin tokens. This White Paper is not intended to be an offer to sell, or a solicitation of any offer to buy, any security or other financial instrument. The offering of GamerCoin token has not been registered, qualified, or approved under any securities, futures, financial instruments, capital markets, or exchange control legislation, regulation, or ordinance of any jurisdiction.

The Company has taken reasonable care to ensure that, as at the date of this White Paper, the information contained herein is accurate to the best of its knowledge. The information contained in this White Paper may be subject to modification, supplementation and amendment at any time and from time to time. The Company does not make any representation or warranty as to the accuracy or completeness of the information contained in this White Paper and the Company has no obligation to update or keep current any information or projections contained herein.

The publication of this White Paper and the offering of GamerCoin tokens may be restricted in certain jurisdictions. It is the responsibility of any person in possession of this White Paper and any persons wishing to make an application for GamerCoin tokens to inform themselves of, and to observe, any and all laws and regulations that may be applicable to them.

This White Paper does not contain all material information regarding the risks associated to the purchase of digital tokens. The buying of digital tokens, like the GamerCoin tokens, is speculative and involves risks, which you should understand prior to making your decision to buy.

Prospective purchasers should only purchase GamerCoin tokens if they can afford a complete loss. Unless prospective purchasers fully understand and accept the nature of and the potential risks inherent in the purchase of GamerCoin tokens they should not purchase GamerCoin tokens. Prospective purchasers should conduct independent investigation and analysis regarding the Company, the GamerCoin tokens and all other market and economic factors as they deem appropriate to fully evaluate the merits and risks of their

purchase. Prospective purchasers should consult with its own legal, regulatory, tax, business, financial and accounting professional advisors to the extent that they deem it necessary. Prospective purchasers must determine based on its own independent review and such professional advice as it deem necessary, if the purchase of the GamerCoin tokens is appropriate and suitable for it, notwithstanding the clear and substantial risks inherent with the purchase of GamerCoin tokens.

The purchase of GamerCoin tokens is only possible after the prospective purchaser has read, understood and accepted the terms for the GamerCoin token sale (available upon request to the Company). Each prospective purchaser will be required to acknowledge that it made an independent decision to purchase the GamerCoin tokens and that it is not relying, in any manner whatsoever, on the Company, its board of directors or any other person or entity (other than such purchaser's own advisers).

The Company and its board of directors do not accept any responsibility or liability for any use of this White Paper by any person which is in breach of any local regulatory requirements with regard to the distribution of this White Paper or any applicable rules pertaining to the offer of GamerCoin tokens.



## 8.2 RISK FACTORS

This section on risk factors is not and does not purport to be a complete enumeration or explanation of the risks involved with the purchase of GamerCoin tokens. There may be additional risks of which the Company is not aware. The following therefore highlights certain risks to which the Company is subject to and which the Company wishes to encourage prospective purchasers of GamerCoin tokens to discuss with their own professional advisors.

- » **Risk of software weaknesses.** The GamerHash platform and the underlying technology is still in an early development stage and unproven. There is no warranty that the process for creating the GamerHash platform will be uninterrupted or error-free and there is an inherent risk that the software could contain weaknesses, vulnerabilities or bugs causing, inter alia, the complete loss of the Tokens.
- » **Regulatory risk.** The blockchain technology allows new forms of interaction and it is possible that certain jurisdictions will apply existing regulations on, or introduce new securities law, tax or other laws or regulations addressing, blockchain technology based applications and/or the issuance and sale of tokens, which may, inter alia, result in substantial modifications to the sale of GamerCoin tokens and/or the GamerHash platform, including its termination and the loss of all GamerCoin tokens.
- » **Government action.** Because of the regulatory uncertainty described above, blockchain activities, including the activities of the Company may be subject to heightened oversight and scrutiny, including investigations or enforcement actions. All of this could subject the Company to judgments, settlements, fines or penalties or require or cause the Company to restructure its operations and activities, to cease offering certain products or services in one or more jurisdictions or refrain from delivering the GamerCoin tokens to certain persons or in certain jurisdictions.
- » **Risk of abandonment/lack of success.** The creation of the GamerCoin tokens and the development of the GamerHash platform may be abandoned for a number of reasons, including lack of interest from the public, lack of funding, lack of commercial success or prospects (e.g. caused by competing projects). Also, even if the GamerHash platform is partially or fully developed and launched, there is no assurance for its future users to use and access the GamerHash platform as anticipated.
- » **Risk associated with other applications.** It is possible that alternative platforms and businesses could be established that utilize the same open source code and protocol underlying the GamerHash platform. The GamerHash platform may compete with these alternative platforms and businesses, which could negatively impact the adoption of the GamerHash platform and the GamerCoin tokens. In addition, the GamerHash platform may give rise to other, alternative projects, promoted by unaffiliated third parties, under which the GamerCoin tokens will have reduced, or potentially no, intrinsic value. There is a

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risk that the Company or its representatives, or other third parties may intentionally or unintentionally introduce weaknesses or bugs into the core infrastructural elements of the GamerHash platform interfering with the use of, or causing the loss of, the GamerCoin tokens.

- » **Risk of theft/hack.** The smart contract used to generate the Tokens and the underlying software application may be exposed to attacks by hackers or other individuals including, but not limited to, malware attacks, denial of service attacks, consensus-based attacks, Sybil attacks, smurfing and spoofing. Any such successful attacks could result in theft or loss of payments made to the Company and/or the GamerCoin tokens, adversely impacting the ability to use or develop the GamerHash platform and derive any usage or functionality from the GamerCoin tokens.
- » **GamerCoin/Other Blockchain Mining Attacks:** As with other decentralized cryptographic tokens based on the Ethereum protocol, (ERC20 tokens) GamerCoin are susceptible to attacks by miners in the course of validating GamerCoin transactions on the Ethereum blockchain, including, but not limited, to double-spend attacks, majority mining power attacks, and selfish-mining attacks. Any successful attacks present a risk to the GamerHash Platform and/or GamerCoin Token, including but not limited to, accurate execution and recording of transactions involving GamerCoin.
- » **Development Risk:** The timing for issuing the GamerCoin tokens and for completing various steps in the implementation of the GamerHash platform are set forth in this Whitepaper. However there is no assurance that the Company will meet those target dates. The GamerHash platform operability may be limited at the time of the GamerCoin tokens delivery date and not all of the anticipated operational features intended for the GamerHash platform may be functioning at that time. The GamerHash platform will still be subject to ongoing development and could undergo significant changes over time. In addition, because the development of the GamerHash platform may be depended on third parties, the Company may have limited control over future GamerCoin tokens functionality or in assuring the ongoing operation and performance of the GamerHash platform.
- » **No Liquidity:** GamerCoin tokens are not intended for investment purposes. GamerCoin tokens holders may not be able to sell, transfer or trade its unused GamerCoin tokens to any other party. GamerCoin tokens are intended to be used only in connection with the GamerHash platform. There may never be a secondary market for the GamerCoin tokens. GamerCoin tokens may be subject to significant transfer restrictions as a result of actions taken by the Company or by government regulators.
- » **Early Stage Companies:** The Company is a start-up and has no operating history against which purchasers of the GamerCoin tokens may consider the appropriateness of purchasing the GamerCoin tokens. Many risks and uncertainties affect start-up and early stage companies, which often have very limited operating history, profits or cash flow. There can be no assurance of the success of such enterprises. Their potential must be considered in light of the problems, expenses, difficulties, complications and delays frequently encountered in connection with new or developing businesses, including technology risks, unproven business models, untested plans, uncertain market acceptance, competition and lack of revenues and financing.

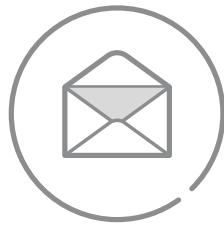
The technological fields and markets that many start-up and early stage companies address have undergone and are expected to continue to undergo rapid and significant change. Rapid technological developments may result in the technology of companies becoming obsolete, uneconomical or uncompetitive before any commercial success or financial return can be achieved. Numerous other risks may affect developing companies and ventures, including risks that products or services will be found to be ineffective, unreliable, unsafe or uncompetitive and risks that such companies' technologies, products or service will not achieve market acceptance or penetration. Market acceptance of new products, services or technologies depends on many factors and uncertainties and cannot be assured.

## CONSIDERATIONS

Startup and early stage companies may compete with entities that have established businesses, relationships and positions in the market and that have much more substantial financial, business, technological, marketing and distribution assets, operations and resources. There can be no assurance that any developing company will be able to compete successfully with more established companies.

These companies may be overly dependent on the vision, skill and leadership of a single or limited number of executives. In a start-up business, the loss or disability of a key person(s) can result in significant financial hardship, in some cases the failure of the company. More than other businesses, start-ups are highly dependent on the skills and contributions of very few key employees.

Any projections, forecasts, plans or other forward-looking statements are subject to numerous risks, uncertainties, changing circumstances and other factors that could cause actual results, performance, plans, prospects, operations and opportunities to differ materially from any forward-looking statements, including competition, inability to identify and do business with appropriate customers, existing and future law and regulations, liabilities under the securities laws, inability to hire, retain or qualify sufficient management and staff, general economic conditions, rapid technological change, cost overruns, delays in bringing products or services to market, marketing failures, difficulty in penetrating markets, delays or failures in developing anticipated capabilities, products or services, failure to obtain necessary regulatory approvals, insufficient funding, lack of availability of capital, rates of economic growth, levels of consumer and business spending, conditions in the technology and financial industries, dependence on strategic partners and business relationships, unproven business models, adverse developments affecting customers and end-users, fluctuations in securities markets and valuations, limited marketing, expansion risks, losses and costs, uncertain revenues and profitability, conditions in particular industries, accounting problems, costs, delays and liabilities arising from legal proceedings, failure to obtain and maintain intellectual property or proprietary rights and management failures.



## CONTACT US

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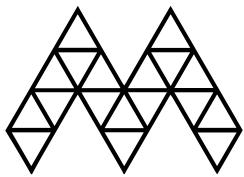
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