

ON BLOCKCHAIN, BURN YOUR CALORIES FOR GREENCOIN



**GREENCOIN.AI**

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**WHITEPAPER |**

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# 1. Glossary

Below is a list of terms used in this whitepaper with their respective explanation for a better understanding.

## ■ ERC20

Standard of the smart contract in the Ethereum network.

## ■ Ethereum

Decentralized platform capable of executing smart contracts and applications using blockchain technology.

## ■ Exchange

Platform that mediates the purchase and sale of cryptocurrencies.

## ■ KYC (Know Your Customer), AML (Anti Money Laundering)

Institutional policies that identify exchange users in order to combat money laundering and the finance of terrorism.

## ■ Smart Contract

A computer protocol intended to digitally facilitate, verify, and enforce the negotiation or performance of a contract.

## ■ Token

A virtual asset launched through ICOs, EOCs, etc, used to “hodl” or to purchase goods and services after public launch of the token by the issuing organization.

## ■ Wallet

Online/offline wallets used for storing virtual coins and tokens.

## ■ Trading Pairs

A trade between one type of cryptocurrency and another, used to calculate the value of tokens at the time of the negotiation of purchase and sale.

# BECOME A GREENCOIN COLLECTOR

YOU JUST HAVE TO OWN 1 GREENCOIN TO  
BECOME A GREENCOIN COLLECTOR.



GREENCOIN.AI

TO BE A GREENCOIN COLLECTOR IS ALL ABOUT BELIEF.

A BELIEF TO REACH A GOAL.  
WE WON'T STOP UNTIL THIS GOAL IS REACHED.

THE GOAL IS...

TO CREATE A NEW WORLD CURRENCY.

A NEW WAY OF SHARED WEALTH.

WITH GREENCOIN, A HIGHER LEVEL OF HEALTH, WEALTH  
AND HAPPINESS WILL BE ACHIEVED GLOBALLY.

### 3. Mission Statement

GreenCoin.AI's mission is to provide a **Sustainable Decentralized Ecosystem** where every **GreenCoin Collector** will improve their **Health, Wealth** and **Happiness**.

### 4. Introduction

GreenCoin.AI is the first technology company to use Blockchain and AI to provide a Fitness Experience where our members burn calories and earn their fortune. We bring Financial Freedom to our members while saving the planet and helping reduce global warming.

Within the GreenCoin.AI Community, every person's economy is constantly improving, simply by exercising. We call this **Burn-to-Earn Your Fortune**.

Imagine that every time you work out, you automatically improve your personal finances. GreenCoin.AI takes this one step further where you not only earn while exercising but at the same time you can buy products, play games, and subscribe to a wide variety of services.

With our upcoming unique line of training equipment, all operating with our proprietary AI chip, exercising has never been as rewarding.

With GreenCoin.AI, our members will automatically and without complex buying/swapping/selling of tokens, take full advantage of the opportunities the GreenCoin offers.

This is the most complete decentralized ecosystem where Members, Fitness trainers, Merchants and Game providers all come together to give the GreenCoin Members the ultimate experience.

The GreenCoin.AI Ecosystem is a protected and secure environment where privacy is at its core.

GreenCoin.AI was created by one of the most experienced management teams worldwide where only the highest quality service is provided to our members.

We aim to become the largest cryptocurrency community in the world with the GreenCoin in the center.

## 5. The Opportunity

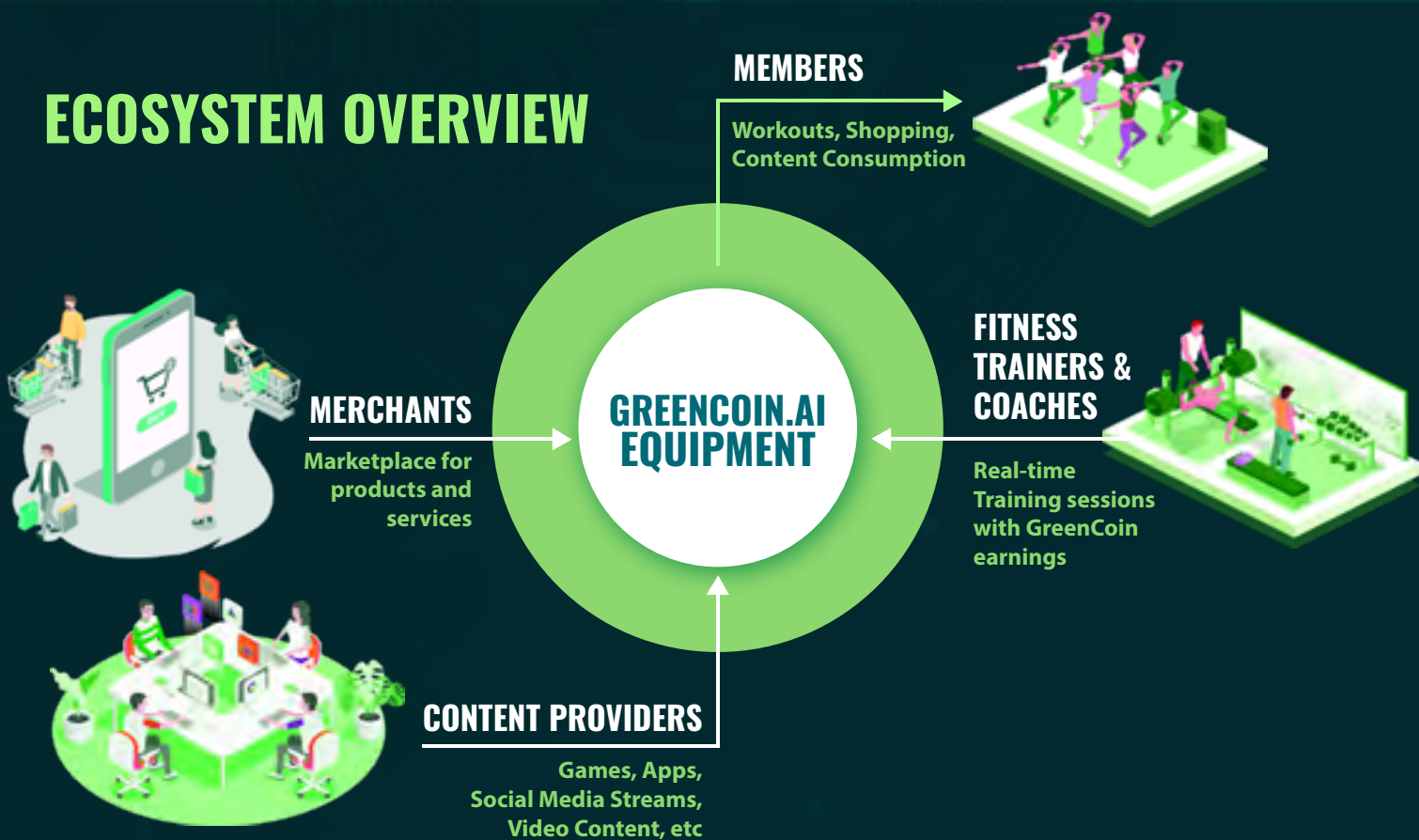
Currently, No Fitness Equipment:

- A. Is equipped with blockchain-based infrastructure
- B. Supports cryptocurrencies, or
- C. Has AI-based user profiles tied to a rewards program.

**Burn-to-Earn Your Fortune** (compared with Play-To-Earn) will be the next global trend driven by GreenCoin.AI. Not only does the **Burn-to-Earn Your Fortune** incentivize our members to become more active as you are rewarded when you work out, but in addition your workout will be part of the mining process which reduces the use of electricity for the GreenCoin.AI Blockchain network.

GreenCoin.AI is revolutionizing the fitness and health industry where members, instead of paying for every service they choose, will now earn GreenCoins. In other words, the more active a member is in the GreenCoin.AI community, the more rewards he/she will earn.

### ECOSYSTEM OVERVIEW



## 6. The Ecosystem

As shown in the image above, the GreenCoin.AI Ecosystem consists of the proprietary GreenCoin.AI Fitness Equipment with the inbuilt AI chips directly communicating with the GreenCoin.AI Blockchain infrastructure.

The GreenCoin.AI Ecosystem is divided into 4 categories of community members:



### 6.1 The Members

Members are the GreenCoin.AI users that exercise and buy everything from products, clothes, games, coaching sessions and more, using the earned rewards from their G-Wallet.



### 6.2 Fitness trainers & Coaches

This category is critical as they motivate and guide the consumers through various online exercises. They earn coins when members subscribe by paying in GreenCoin for their training sessions. They can either cash out the GreenCoin through an exchange or they can shop for products on the marketplace.



### 6.3 Fitness Data Buyers

The market for user data is a multi-billion dollar industry. Here, GreenCoin.AI user data has tremendous value. Companies that buy various G-Profile data will be paying in GreenCoin. The data is anonymized and the revenues are shared with the members.

### 6.4 Content Providers

GreenCoin.AI will have a wide variety of content. It can be anything from online games you play, such as AR, VR, etc., while exercising, to Social Media Influencers posting the latest gossip news to our community. This content is bought by the members using GreenCoin and rewarded to the content providers.

## 7. The GreenWallet

The GreenWallet is a central feature in the GreenCoin.AI Ecosystem. In the GreenWallet, the rewards that a member earns is stored. From the GreenWallet, the users will be able to purchase products and services. The GreenWallet is initially a coin wallet, i.e. the Wealth Hub, but as we are launching our Fitness Equipment line, it will also become the Health Hub where all fitness oriented data is available.



\*Concept design for illustration purposes only



## 8. The Team



### **Mr. Pink** **Chairman**

Pink Wangsuo, also known as Mr. Pink is a global businessman featured in the largest business magazines in the world. Owner of a top selling energy drink, which has expanded into 27 countries. He successfully introduced a CBD product line and fashion collection. Mr. Pink is one of the largest shareholders of ATXG Group, a supplier to the world's most well-known brands such as Armani, Prada, Burberry, and Ferragamo, to name a few.



### **Mr. Newton Howard** **CEO**

Newton Howard is a brain and cognitive scientist. He is a professor of computational neuroscience and former director of the Mind Machine Project at MIT and a functional neurosurgery at the University of Oxford, where he directs the Oxford Computational Neuroscience Laboratory. He is also the director of MIT's Synthetic Intelligence Lab, the founder of the Center for Advanced Defense Studies and the chairman of the Brain Sciences Foundation.



### **Tom Zhang** **Head of HR**

Dr. Tom Zhang is a recognized expert in HR Management and Talent Acquisition in Silicon Valley. As the first Tesla HR for Asia Pacific, He helped build the early Tesla team in China, Japan and Australia. Prior to Tesla, he worked at HR Department at Google and Tencent America. His other areas of expertise include US/China labor law compliance, executive compensation and talent management. He received his PhD degree in Electrical Engineering from Zhejiang University.

## 8. The Team



### **Nick Von** **Coin Holder**

Nick Von has been a successful entrepreneur since a young age. Generating over \$20,000 at the age of 9 years old, he began writing code and developing software, technology and e-commerce. Shortly thereafter, he began to build out highly-scalable e-commerce and tech solutions in a variety of industries, which resulted in him dropping out of high school to pursue his passions. He built one of the top 10 iOS games on the app store before the age of 18. He also created one of the quickest growing e-commerce stores since the creation of Shopify. He specializes in viral growth of corporations. He is a hard believer in the future of cryptocurrency and block chain. His new project, is a unique, workout to earn cryptocurrency, called Greencoin.AI. Founder of Greencoin.AI, Mr. Pink, met Nick through mutual friends at a crypto currency conference in 2020. Mr. Pink truly believes Nick Von to be the next Vitalik Buterin. Nick Von is now one of the largest coin holders of Greencoin.AI.



### **Markus Brun** **Marketing Director**

Prodigy software engineer and programmer who started working professionally in artificial intelligence at age 16. His expertise in artificial intelligence allows him to build highly scalable solutions using machine learning which in the past has enabled him to solve complex multimillion dollar problems.

Years beyond his age, Markus is the definition of an innovator. His technical skills and passion for building strong online communities has allowed him to become one of the key figures in a wide variety of Crypto and NFT projects.

Markus is currently a large holder of Greencoin and is aligning all of his expertise and efforts towards building the next generation of utility based tokens.

## 9. The Fitness Equipment

The GreenCoin.AI Fitness Equipment is as important as our Ecosystem.

Each product in our line of Fitness Equipment has a built-in AI-based chip which is in direct communication with our blockchain.

The main function of the AI chip is to monitor the workout and to ensure the member will receive the correct rewards defined in our smart contracts. Another feature of the AI chip is to gather critical data to enable optimized coaching and health tips to the member. The chip will enable AI based analysis of each member so that personalized support and service can be provided to millions of members daily. The line of GreenCoin.AI Fitness equipment is planned to be launched during 2022-2023.

### 9.1 The GreenCoin.AI Exercise Bike

The GreenCoin.AI Exercise Bike will be a flagship with futuristic design and with all features on the super sized display. It will be equipped with the GreenCoin.AI Chip to capture the member's data during workouts and supports our mining rewards system, **Burn-to-Earn Your Fortune**.





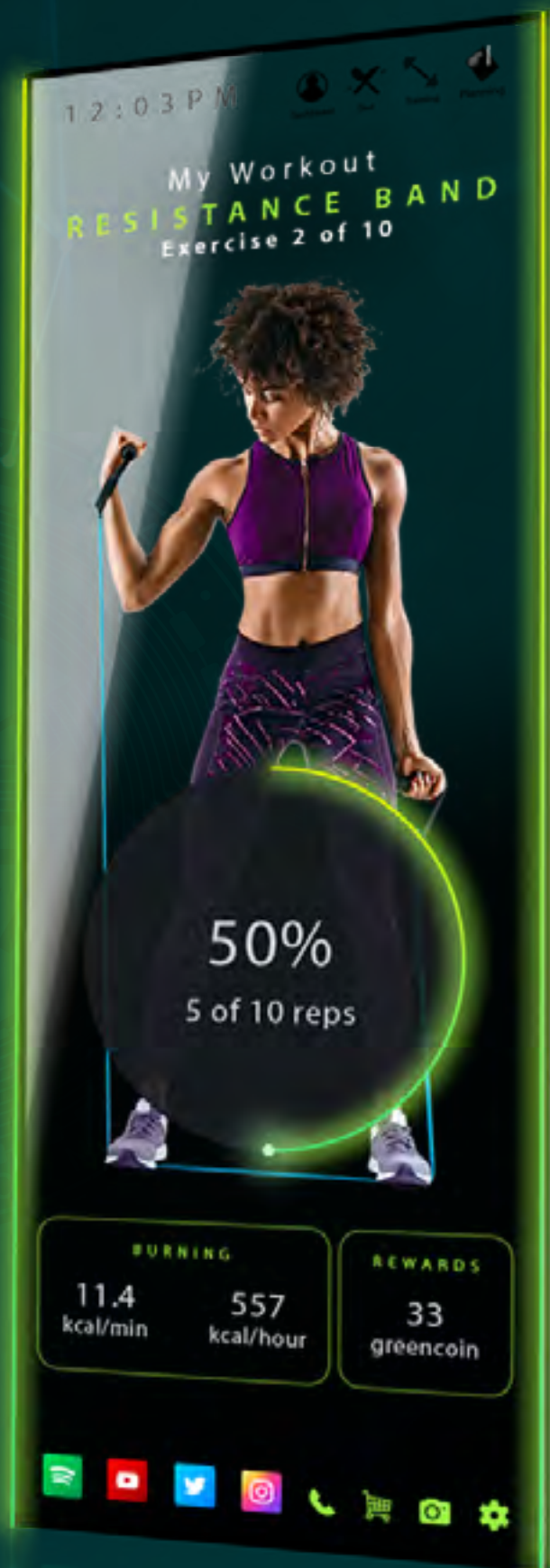
To be launched during 2022-2023:  
**9.2 The GreenCoin.AI Treadmill**

With the GreenCoin.AI Treadmill, running has never been this exciting. Not only are you rewarded for working out, but this product is equipped with best-in-class virtual tracks and games. For a great workout, everyone will choose the GreenCoin.AI Treadmill above any other.

### 9.3 The GreenCoin.AI Mirror

As our membership base grows, our Training Coaches will offer additional training sessions to their subscribers using the GreenCoin.

AI Mirror. The experience will be almost like having the personal trainer inside your home assisting you to workout more efficiently. With the GreenCoin.AI Mirror, Training Coaches will earn rewards through training thousands of members within the GreenCoin.AI Community by streaming in real time. The GreenCoin.AI Mirror is also superior when members want to try out new clothes virtually and shop for an infinite amount of products with just one tap.





## 9.4 The GreenCoin.AI Watch

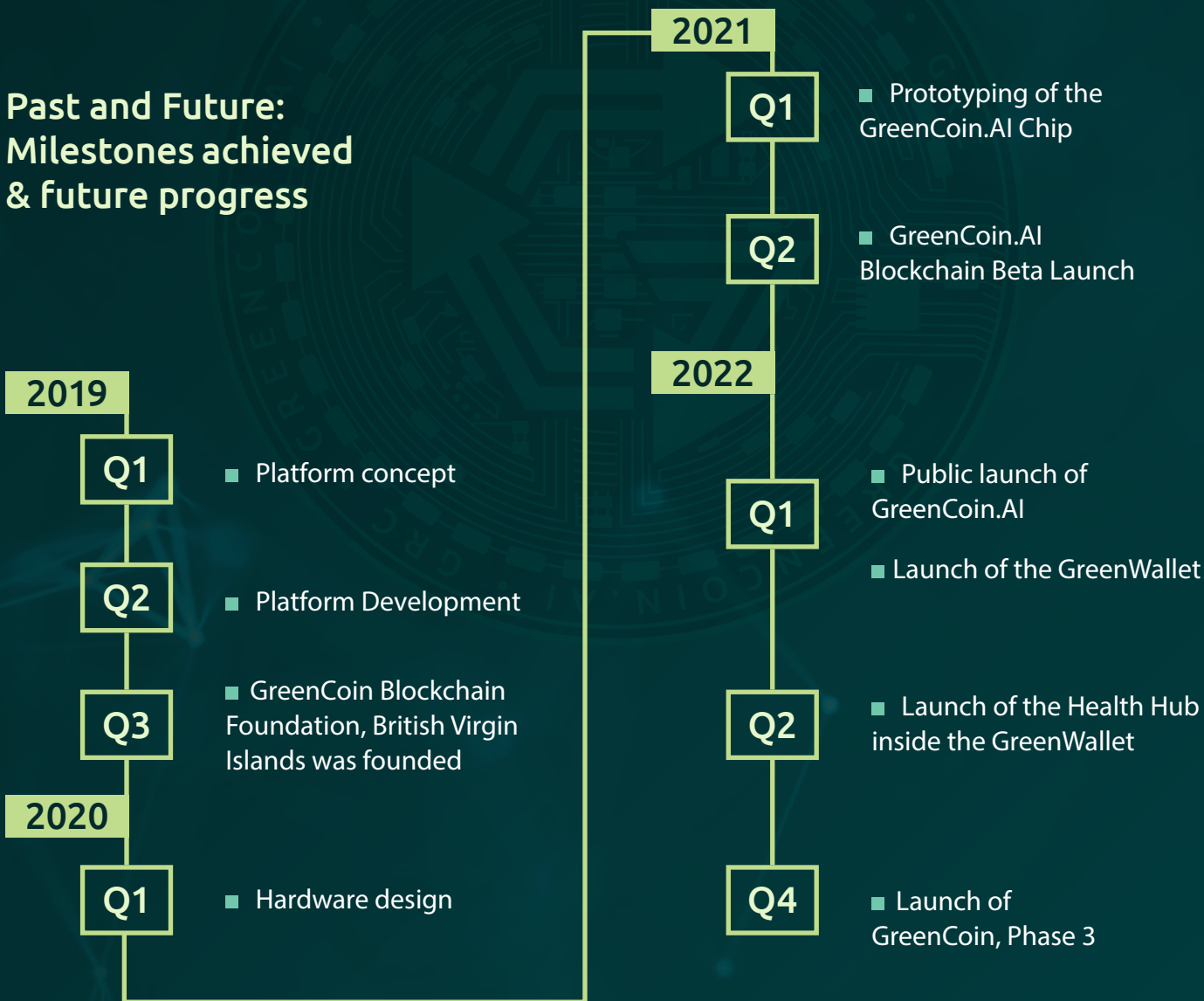
With the GreenCoin.AI Watch, you have a well known combination of health meter and communication device. Not only will you be able to check your burned calories and your pulse, but here you can also see the rewards you have received, a great motivator to workout daily.

# 10. Timeline

Ever since 2019 when GreenCoin.AI Blockchain Foundation was founded in British Virgin Islands, the goal has been clear: "Launch an economy and a community where all Collectors can gain Health, Wealth and Happiness."

*"Launch an economy and a community where all Collectors can gain Health, Wealth and Happiness."*

## Past and Future: Milestones achieved & future progress



# 11. Technical Overview

## 11.1 Prerequisites

We know that to succeed, we need to launch GreenCoin.AI and its Ecosystem based on Milestones. This is to ensure that we provide our initial GreenCoin buyers with the highest quality of service.

## 11.2 Commercial Launch, 3 Phases

Based on the importance of milestones, GreenCoin.AI will introduce its Ecosystem in 3 independent phases.

### 11.2.1 Phase 1

GreenCoin.AI launched as a DeFi 2.0 coin on the Polygon Network. At this stage, all GreenCoin buyers will receive rewards based on Staking and Bonding mechanism which is built into the blockchain (see further details below).

1

### 11.2.2 Phase 2

Initial Fitness Products is launched and rewards based on "**Burn-to-Earn Your Fortune**" is introduced

2

### 11.2.3 Phase 3

The complete GreenCoin.AI Ecosystem is launched with Members, Fitness Trainers, Merchants and Content Providers. Here rewards will not only be received but to a large degree, be used to purchase products and services provided within the Ecosystem.

3



# Greencoin Technical Architecture Overview



## 11.3 GreenCoin.AI and Consensus

We will run Consensus Voting every quarter where we will propose, vote and implement additions to improve the GreenCoin.AI Network and Ecosystem. Note that initially, our core team will make most decisions but we will move to a DAO-governed model over time.

## 11.4 Definition

GreenCoin (GRC) is a decentralized reserve currency available on the Ethereum Network based on the GRC token. Each GreenCoin token is backed by a basket of assets (e.g., GRR, GR-POLY, LP Tokens, etc) in the GreenCoin.AI treasury, giving it an intrinsic value that it cannot fall below. GreenCoin.AI introduces economic and game-theoretic dynamics into the market through staking and minting.

Our goal is to build a policy-controlled currency system, native to the Polygon network, in which the behavior for users to burn calories generates the GRC token. In the long term, we believe this system can be used to optimize for stability and consistency so that GRC can function as a global unit-of-account and medium-of-exchange currency. In the short term, we intend to optimize the system for health and wealth creation. We intend to achieve price flatness for a representative basket of goods without the use of fiat currency, in order to allow the cryptocurrency industry to detach once and for all from the traditional finance world.

## 11.5 How do I participate?

There are two main strategies for market participants: staking and minting. Stakers stake their GRC tokens in return for more GRC tokens, while minters provide LP tokens or GRR tokens in exchange for discounted GRC tokens after a fixed vesting period. Members can, when Phase 2 and 3 are launched, also Burn Calories to earn GRC tokens using a suite of health tracking applications and products, e.g. Bikes, Mirrors, Watches, and Fitness Trackers

## 11.6 How can I benefit from GreenCoin.AI during Phase 1?

The main benefit for stakers comes from supply growth. The protocol mints new GRC tokens from the treasury, the majority of which are distributed to the stakers. Thus, the gain for stakers will come from their auto-compounding balances, though price exposure remains an important consideration. That is, if the increase in token balance outpaces the potential drop in price (due to inflation), stakers would make a profit. The main benefit for minters comes from price consistency. Minters commit capital upfront and are promised a fixed return at a set point in time; that return is given in GRC tokens and thus the minter's profit would depend on the GRC price when the minted GRC matures. Taking this into consideration, minters benefit from a rising or static price for the GRC token.

## 11.7 Background, infrastructure

GreenCoin.AI is implementing a fork of Olympus on the Polygon Network. Olympus has built a DeFi 2.0 based community-owned decentralized financial infrastructure with stability and transparency as key values. Details of our DeFi 2.0 functions are described below. Formerly known as Matic Network, Polygon is an interoperability and scaling framework for building Ethereum-compatible blockchains. Our core team is globally recognized with deep knowledge in the DeFi Community. We aim at becoming a Decentralized Autonomous Organization, and we are actively working towards that goal.

# 12. Technical Details, GreenCoin.AI DeFi 2.0

## 12.1 Why our DeFi 2.0 approach is important

Dollar-pegged stablecoins have become an essential part of crypto due to their lack of volatility as compared to tokens such as Bitcoin and Ether. Users are comfortable with transacting using stablecoins knowing that they hold the same amount of purchasing power today vs. tomorrow, but this is a fallacy. The dollar is controlled by the US government and the Federal Reserve. This means a depreciation of the dollar also means a depreciation of these stablecoins. GreenCoin.AI aims to solve this by creating a non-pegged stablecoin called GRC. By Focusing on supply growth rather than price appreciation, GreenCoin.AI hopes that GRC can function as a currency that is able to hold its purchasing power regardless of market volatility.

## 12.2 A built-in treasury model

GRC is not a stablecoin. Rather GRC aspires to become an algorithmic reserve currency backed by other decentralized assets. Similar to the idea of the gold standard, GRC provides free-floating value its users can always fall back on, simply because of the fractional treasury reserves GRC draws its intrinsic value from.

## 12.3 GRR, the Rewards Token

In addition to GreenCoin, our infrastructure consists of the GRR. This is the rewards token that is used throughout the Ecosystem during Phase 2 and 3, and can be used for purchases as well as to convert to GRC. Simply put, 1 burned calorie using any GreenCoin.AI Fitness equipment gives 1 GRR in rewards. 1000 GRR's is equal to 1 GreenCoin.

## 12.4 GreenCoin.AI backed by GRR the rewards token

Each GRC is backed by 1000 GRR, not pegged to it. Because the treasury backs every GRC with at least 1000 GRR, the protocol would buy back and burn GRC when it trades below 1000 GRR. This has the effect of pushing the GRC price back up to 1000 GRR. GRC could always trade above 1000 GRR because there is no upper limit imposed by the protocol. You might say that the GRC floor price or intrinsic value is 1000 GRR. We believe that the actual price will always be 1000 GRR + premium, but in the end, that is up to the market to decide.

## 12.5 How does it work?

At a high level, GreenCoin.AI consists of its protocol-managed treasury, protocol-owned liquidity (POL), bond mechanism, and staking rewards that are designed to control supply expansion. Bond sales generate profit for the protocol, and the treasury uses the profit to mint GRC and distribute them to stakers. With liquidity bonds, the protocol is able to accumulate its own liquidity.

## 12.6 What does (3,3) stand for?

(3,3) is the idea that, if everyone cooperated in GreenCoin.AI, it would generate the greatest gain for everyone (from a game theory standpoint). Currently, there are three actions a user can take:

*Staking (+2) • Bonding (+1) • Selling (-2)*

Staking and bonding are considered beneficial to the protocol, while selling is considered detrimental. Staking and selling will also cause a price move, while bonding does not (we consider buying GRC from the market as a prerequisite of staking, thus causing a price move). If both actions are beneficial, the actor who moves price also gets half of the benefit (+1). If both actions are contradictory, the bad actor who moves price gets half of the benefit (+1), while the good actor who moves price gets half of the downside (-1). If both actions are detrimental, which implies both actors are selling, they both get half of the downside (-1).

Thus, given two actors, all scenarios of what they could do and the effect on the protocol are shown here:

	STAKE	BOND	SELL
STAKE	(3,3)	(1,3)	(-1,1)
BOND	(3,1)	(1,1)	(-1,1)
SELL	(1,-1)	(1,-1)	(-3,-3)

- If we both stake (3,3), it is the best thing for both of us and the protocol ( $3 + 3 = 6$ ).
- When one of us sells, it diminishes the effort of the other one who stakes or bonds ( $1 - 1 = 0$ ).
- If one of us stakes and the other one bonds, it is also great because staking takes GRC off the market and puts it into the protocol, while bonding provides liquidity and GRR for the treasury ( $3 + 1 = 4$ ).
- When we both sell, it creates the worst outcome for both of us and the protocol ( $-3 - 3 = -6$ ).

## 12.7 Why is PCV important?

As the protocol controls the funds in its treasury, GRC can only be minted or burned by the protocol. This also guarantees that the protocol can always back 1 GRC with 1000 GRR. You can easily define the risk of your GreenCoin Collection because you can be confident that the protocol will indefinitely buy GRC below 1000 GRR with the treasury assets until no one is left to sell. You can't trust the FED but you can trust the code.

As the protocol accumulates more PCV, more runway is guaranteed for the stakers. This means the stakers can be confident that the current staking APY can be sustained for a longer-term because more funds are available in the treasury.

## 12.8 Why is POL important?

**GreenCoin.AI owns most of its liquidity thanks to its bond mechanism. This has several benefits:**

- GreenCoin.AI owns most of its liquidity thanks to its bond mechanism. This has several benefits:
- GreenCoin.AI does not have to pay out high farming rewards to incentivize liquidity providers a.k.a renting liquidity.
- GreenCoin.AI guarantees the market that liquidity is always there to facilitate sell or buy transactions.
- By being the largest LP (liquidity provider), it earns most of the LP fees which represents another source of income to the treasury.
- All POL can be used to back GRC. The LP tokens are marked down to their risk-free value for this purpose.

## 12.9 What will happen if there is a bank run on GreenCoin.AI?

Fractional reserve banking works because depositors don't withdraw their funds all at once. A depositor's faith in the banking system rests on regulations and agencies like Federal Deposit Insurance Corporation (FDIC).

GRC does not have FDIC insurance but it has an incentive structure that protects stakers. Let's take a look at how it performs during a hypothetical bank run.

As GreenCoin at this point hasn't publicly launched, we will base this bank run on actual numbers from Olympus which we have forked from and based on that will have a similar behavior when we go live.

### *OLYMPUS HYPOTHETICAL BANK RUN*

In this scenario, we assume the majority of stakers would panic and unstake their tokens from Olympus - the staking percentage which stands at 92% now quickly collapses to 3.3%, leaving only 55,000 OHM staked.

Next, we assume the Risk-Free Value (RFV) inflows to the treasury completely dry up. For context, RFV is currently growing at about \$1 million every 2 days. However, during a bank run this growth will likely stop.

Finally, we assume that those last standing stakers bought in at a price of \$500 per OHM.

The initial coin ownership of these stakers would be:

As of September 15 2021, the total OHM supply is 2,082,553 and the RFV is \$47,041,833. Remember that 1 OHM is backed by 1 USD (DAI or FRAX). By subtracting these two numbers, we know 44,959,280 OHM will eventually get issued to the remaining stakers. In roughly a year, these stakers who are holding 55,000 OHM will have:

\$27.5 million coins owned by these stakers will turn into about \$45 million based on cash flow alone if they stay staked (recall that 1 OHM is backed by 1 USD). In this bank run scenario, the stakers who stay staked not only get their money back, but also make some profit. Therefore, (3,3) isn't just a popular meme, it is actually a dominant strategy. The above scenario is unlikely to play out because when other people find out that extremely high rewards are being rewarded to the stakers, they will copy the strategy by buying and staking OHM. This is also why the percentage of OHM staked in Olympus has consistently remained over 90% since launch.

Note: Most of the data referenced above are taken from Dune Analytics

## 12.10 GRC Market price volatility

We are still early in development of GreenCoin. Even if the GRC price is expected to reach a continuously more stable value, the reality is that as the network is currently tuned for expansion of GRC supply, which when paired with the staking, bonding, and yield mechanics of GreenCoin, this will result in a fair amount of volatility. GRC could trade at a very high price because the market is ready to pay a hefty premium to capture a percentage of the current market capitalization. However, the price of GRC could also drop to a large degree if the market sentiment turns bearish. We would expect significant price volatility during our growth phase.

## 12.11 Buying when the GRC trades at a high/low premium

When you buy and stake GRC, you capture a percentage of the supply (market cap) that will remain close to a constant. This is because your staked GRC balance also increases along with the circulating supply. The implication is that if you buy GRC when the market cap is low, you would be capturing a larger percentage of the market cap.

## 12.12 What is a rebase?

Rebase is a mechanism by which your staked GRC balance increases automatically. When new GRC are minted by the protocol, a large portion of it goes to the stakers. Because stakers only see staked GRC balance instead of GRC, the protocol utilizes the rebase mechanism to increase the staked GRC balance so that 1 staked GRC is always redeemable for 1000 GRR.

## 12.13 What is reward yield?

Reward yield is the percentage by which your staked GRC balance increases on the next epoch. It is also known as rebase rate.

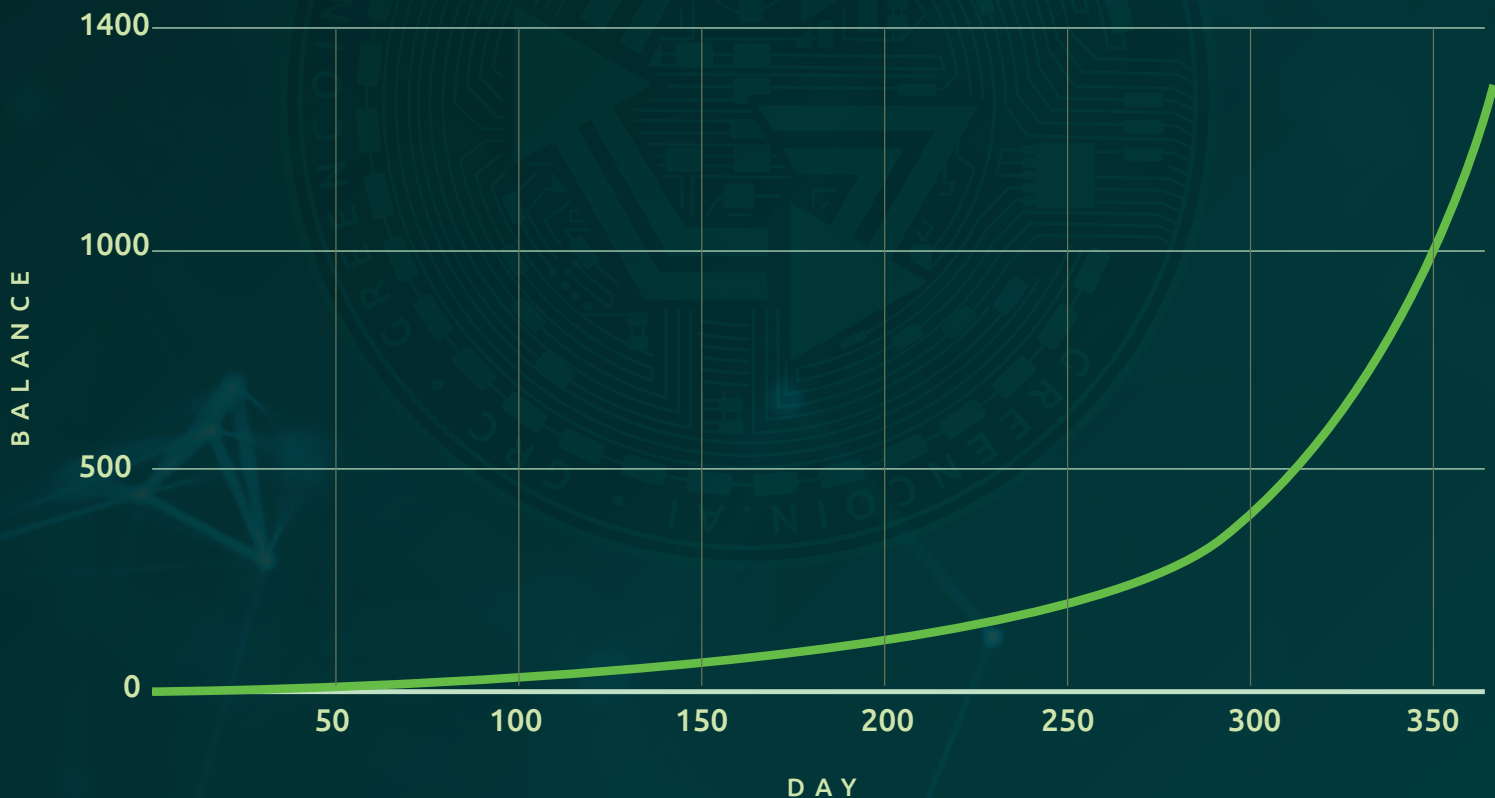


## 12.14 What is APY?

APY stands for annual percentage yield. It measures the real rate of return on your principal by taking into account the effect of compounding interest. In the case of GreenCoin.AI, your staked GRC represents your principal, and the compound interest is added periodically on every epoch or around every 8 hours thanks to the rebase mechanism.

One interesting fact about APY is that your balance will grow not linearly but exponentially over time! Assuming a daily compound interest of 2%, if you start with a balance of 1 GRC on day 1, after a year, your balance will grow to about 1377.

balance over time (2% compounded daily)



## 12.15 How is the APY calculated?

The APY is calculated from the reward yield (a.k.a rebase rate) using the following equation:

$$APY = (1 + rewardYield)^{1095}$$

It raises to the power of 1095 because a rebase happens 3 times daily.

Consider there are 365 days in a year, this would give a rebase frequency of  $365 * 3 = 1095$ . Reward yield is determined by the following equation:

$$rewardYield = GRC\ distributed / GRC\ totalStaked$$

The number of GRC distributed to the staking contract is calculated from GRC total supply using the following equation:

$$GRC\ distributed = GRC\ totalSupply * rewardRate$$

As illustrated above, your GRC balance will grow exponentially over time thanks to the power of compounding. Let's say you buy a GRC for \$400 now and the market decides that in 1 year's time, the intrinsic value of GRC will be \$2. Assuming a daily compound interest rate of 2%, your balance would grow to about 1377 GRCs by the end of the year, which is worth around \$2754. That is a cool \$2354 profit! By now, you should understand that you are paying a premium for GRC now in exchange for a long-term benefit. Thus, you should have a long time horizon to allow your GRC balance to grow exponentially and make this GRC Collection worthwhile.

## 12.16 What will be GRC's intrinsic value in the future?

There is no clear answer for this, but the intrinsic value can be determined by treasury performance. For example, if the treasury could guarantee to back every GRC with 10,000 GRR, the intrinsic value will be 10,000 GRR. For example, if the team decides to raise the price floor of GRC, its intrinsic value will rise accordingly.

## 12.17 How does the protocol manage to maintain the high staking APY?

Let's say the protocol targets an APY range of 1,000% to 10,000%, this would translate to a minimum reward yield of about 0.2105%, or a daily growth of about 0.6328%. Please refer to the equation above to learn how GreenCoin APY is calculated from the reward yield here. If there are 100,000 GRC staked right now, the protocol would need to mint an additional 632.8 GRC to achieve this daily growth. This is achievable if the protocol can bring in at least the same amount in USD of daily revenue from bond sales. Even if the protocol doesn't bring in that much revenue, it can still sustain 1,000% APY for a considerable amount of time due to the excess reserve in the treasury

## 13. Staking

Staking is the primary value accrual strategy of GreenCoin.AI during Phase 1. Stakers stake their GRC to earn rebase rewards. The rebase rewards come from the proceed from bond sales, and can vary based on the number of GRC staked in the protocol and the reward rate set by monetary policy. Staking is a passive, long-term strategy. The increase in your stake of GRC translates into a constantly falling cost basis converging on zero. This means even if the market price of GRC drops below your initial purchase price, given a long enough staking period, the increase in your staked GRC balance should eventually outpace the fall in price.

When you stake, you lock GRC and receive an equal amount of sGRC. Your sGRC balance rebases up automatically at the end of every epoch. sGRC is transferable and therefore composable with other DeFi protocols.

When you unstake, you burn sGRC and receive an equal amount of GRC. Unstaking means the user will forfeit the upcoming rebase reward. Note that the forfeited reward is only applicable to the unstaked amount; the remaining staked GRC (if any) will continue to receive rebase rewards.

## 14. Bonding

### 14.1 What is bonding?

Bonding is the secondary value accrual strategy of GreenCoin.AI. It allows GreenCoin.AI to acquire its own liquidity and other reserve assets by selling GRC at a discount in exchange for these assets. The protocol quotes the bonder with terms such as the bond price, the amount of GRC tokens entitled to the bonder, and the vesting term. The bonder can claim some of the rewards (GRC tokens) as they vest, and at the end of the vesting term, the full amount will be claimable.

Bonding is an active, short-term strategy. The price discovery mechanism of the secondary bond market renders bond discounts more or less unpredictable. Therefore bonding is considered a more active strategy that has to be monitored constantly in order to be more profitable as compared to staking. Bonding allows GreenCoin.AI to accumulate its own liquidity. We call our own liquidity Protocol Owned Liquidity (POL). More POL ensures there is always locked exit liquidity in our trading pools to facilitate market operations and protect token holders. Since GreenCoin.AI becomes its own market, on top of additional certainty for GRC buyers, the protocol accrues more and more revenue from Liquidity Provider (LP) rewards bolstering our treasury.

## 14.2 Burn-to-Earn Your Fortune (Phase 2 and 3)

Burning is the third value accrual strategy of GreenCoin.AI. It allows members to earn GreenCoin Rewards by working out. Each Calorie burned using the GreenCoin.AI app or products allows the members to earn GRR's and create productive positive behaviors to get healthy and wealthy.

When a member burns Calories to earn GRR's it will also reduce the supply of total GRC thus increasing the price per GRC.

## 15. The GreenCoin.AI Rewards Program

GreenCoin.AI has, by using a considerable amount of resources, defined the critical calculations related to our rewards program. It is with confidence we are introducing our **Burn-to-Earn Your Fortune** rewards program to the world. In this section we will introduce the most critical variables and calculations that are involved in optimizing the distribution of our GreenCoin Rewards (GRR) to all our members.

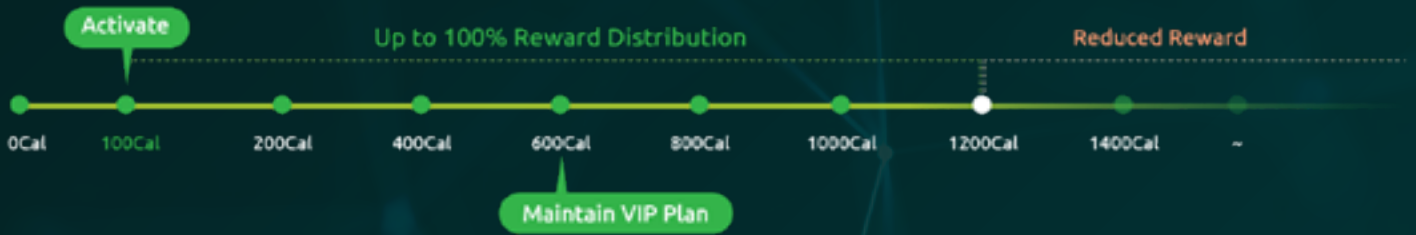
We have listed three core calculations below:

$$F(s,i) = B_i + 75\%E_{i1} \frac{1-w^{S_i-S_1}}{1-w^{S_i-S_1}} + B_{i2} \frac{1-w^{S_i-S_1-S_2}}{1+w^{S_i-S_1-S_2}} + 50\%E_{i3} \frac{1-w^{S_i-S_1-S_2-S_3}}{1+w}$$

$$\left\{ B_i + E_i \frac{1-W^{S_i-s}, s \geq S}{1+W^{S_i-s}} \right.$$

$$a \frac{U_c}{1+U_2+U_3+\dots+U_a}$$

## Daily Workout Plan



Cycle	Convert Calories to Rewards	Reward Distribution (Millions)
1	1	6.80
2	5	5.64
3	25	4.68
4	125	3.89
5	625	3.23
6	3,125	2.68

This chart shows you when, during the day, you will receive the maximum amount of GreenCoin Rewards (GRR).



Period	Rewards Quota	Initial Rate	Block Settlement
05:01 - 06:00	75%	100%	Once Every Hour
06:01 - 22:00	100%		
22:01 - 23:00	75%		
23:01 - 05:00	50%		No Action

Cycle	Released Volume (Millions)	Remaining Volume (Millions)	Converted Calories to Rewards Token	Converted Calories per Rewards Token
1	6.80	3,320.00	1	17%
2	5.64	2,756.00	5	14.1%
3	4.68	2,287.00	25	11.7%
4	3.89	1,898.00	125	9.7%
5	3.23	1,576.00	625	8.1%
...	...	...	...	...
47	0.00	1	0	0.0032%
48	0.00	1	0	0.0027%

## 16. GreenCoin.AI Token Distribution

Pre-sale	16,880,000,000	10%
Public sale round 1, 2 & 3	16,880,000,000	10%
Team	16,880,000,000	10%
Ecosystem, Dev reserve	33,760,000,000	20%
Rewards Pool	16,880,000,000	10%
Burn Buffer	16,880,000,000	10%
Foundation	50,640,000,000	30%
<b>Total Tokens</b>	<b>168,800,000,000</b>	<b>100%</b>

# 17. GreenCoin.AI Audit



GREENCOIN.AI



**The GreenCoin Code was Audited and  
Verified by the 3rd-party Auditor: CERTIK  
(Aug. 13th, 2021)**



CERTIK  
FOUNDATION



## 18. Disclaimer

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