



GROWERS INTERNATIONAL



White Paper
Summer 2018

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Purpose of Growers International:

Synopsis:

- Growers International (GRWI) is an ERC20 utility token and decentralized membership platform. The GRWI platform offers unique new technology, products and services for legal growers around the world. Built on unbreakable encryption to provide the growing community with an unparalleled resource for interacting, sharing and learning on one of the most developer friendly blockchains available. GRWI offers innovative smart contracts and blockchain based agro-technology, fusing the dynamic worlds of cryptocurrency and modern cultivation.

History:

- Growers International was originally conceived in early 2015. The original concept was to start a cannabis grow store where growers could use their own currency to purchase equipment and supplies. By speaking directly with customers and vendors, it became clear that it was time to create a cryptocurrency designed specifically for growers. In the summer of 2017, Growers International was launched to serve the budding crypto-cannabis industry.

Mission:

- To supply the industry with an easy barrier of entry when it comes to enabling blockchain and smart contract technology in their work flow. Registering seed to sale data, strain information, customer data, financial transactions, and even shipping info will now have an extra layer of security using GRWI encryption and smart contracts. We will bring these tools to legal grow companies large and small. GRWI is an interactive hub for all things cannabis and crypto.

Token Technology (ERC20):

Total Supply:

- 1.25 Million Tokens (Max Total Supply)

POS Cool Down:

- Approx 1,200,000 coins will be swapped during our fork to Ethereum. 50,000 coins will be distributed based on individual member holding percentage. This will allow members to continue to enjoy Proof of Stake as we convert to our brand new eStaking algorithm upon reaching 1.25 million token (Total Supply).

eStaking:

- eStakes work by allowing all GRWI members to receive tokens based on GRWI utility usage. As members use our growing portfolio of features and services, a portion of the GRWI which powers the utilities will be distributed immediately to all members. The portion of eStake payment a user receives is percentage based (holdings). If you hold 1% of all GRWI, you get 1% of those eStakes. Again, there are no additional tokens created at this time and the entire system is completely decentralized. The specific process of circulating these rewards to GRWI members is hard-wired into our new blockchain with smart contracts and requires no direct user interaction. Users will no longer need to keep a GRWI wallet open and running in order to receive these new eStakes. All user will need to do to receive its coins is a simple transfer between his accounts. System will compute proper amount of eStake since last payment and pay all due coins to the account.

Off-Chain Encryption:

- We will host encrypted data for most erroneous data from our DAPPS. This will substantially decrease blockchain bloat and ERC20 gas costs. Technical details will be updated here as the DAPPS launch.

DAPPS & GRWI.io:

- DAPPS are decentralized applications built on the Ethereum blockchain. A DAPP can have frontend code and user interfaces written in any language (just like an app) that can make calls to our backend. This allows Growers International to run ERC20 smart contracts with easy to use GUI frontends. See **Utility Properties & GRWI.io Membership Platform** for more details below.

Genesis Block:

- The first block of the original GRWI chain was created on July 18th, 2017. The original Growers International source code was forked from Crypto Circuits which itself was forked from Blackcoin. Blackcoin is a custom fork of the Bitcoin source code. As of May 1st, 2018 Growers International will migrate onto the Ethereum Blockchain in order to utilize solidity coding for our DAPPS. Blockchain programmability is key to the future success of the token. All testing is done on the Rinkeby network and all of our code will be publicly audited.

Roadmaps:

2017 (July) - 2018 (May):

- Original Roadmap Release ✓
- GRWI Wallets (all major operating systems) ✓
- eCommerce Platform Launch ✓
- Two Major Exchanges (Cryptopia & CCEX) ✓
- Social Networking Presence ✓
- Branding & Initial Outreach (PR & Marketing) ✓
- Joined CoinmarketCap ✓
- Partnerships in the Crypto and Cannabis Industries ✓
- Growers Suite Software Toolkit Launch ✓
- GRWI Team Expansion ✓

2018 (May) - 2019 (May):

- Summer 2018 Roadmap Release (Qtr. 3, 2018) ✓
- Ethereum Fork (Qtr. 3, 2018)
- GRWI.io Wallet & Tipping (Qtr. 3, 2018)
- Alpha Game Release (Qtr. 3, 2018)
- GRWI.io Megabot Release (Qtr. 3, 2018)
- Seed to Sale Proof of Concept (Qtr. 4, 2018)
- Strain Chain Proof of Concept (Qtr. 4, 2018)
- GRWI.io Vendor Sign Ups (Qtr. 4, 2018)
- Beta Game Release (Qtr. 4, 2018)
- GRWI.io Peer to Peer Marketplace (Qtr. 1, 2019)
- Mobile App Release (Qtr. 1, 2019)
- Public Game Release (Qtr. 1, 2019)
- Seed to Sale Alpha Testing (Qtr. 2, 2019)
- Strain Chain Alpha Testing (Qtr. 2, 2019)

Utility Properties:

Seed to Sale:

- A blockchain-based seed-to-sale tracking system that will give complete transparency to the industry without costing taxpayers. GrowerID: The GrowerID will be tokens issued to legal growers who apply to the platform. After verification, there will be an additional fee associated with obtaining the ID that will be paid in GRWI and possibly burned. Only the Growers International Board would be able to issue and freeze ID tokens and generate new ones upon consensus. PlantID: A set number of tokens issued to represent each plant during its life cycle until harvest. This token is never held by the grower, it is exclusively held in the contract. The public address of PlantIDs will be provided to the GrowerID to allow plant identification. HarvestID: Tokens issued to represent the harvested product in bulk or individual quantities. This token is never held by the grower, it is exclusively held in the contract. SaleID: This is the final token issued to represent the sale of the product. The SaleID represents the conclusion of a complete Seed-2-Sale tracking solution.

Strain Chain:

- The Growers International 'Strain Chain' is an infowlable ledger and repository for cannabis strain and genome lineage registration. We will develop a blockchain-based cannabis depository with which users with a GrowersID can register their cannabis strains' genomic data. The platform will allow end-users, brokers and consumers to verify the strains by referring to the public irrefutable ledger of GRWI.

Grower Contracts:

- Smart contracts specifically designed for growers. Including details for nutrient usage, soil quantities, labor costs, electricity costs and harvesting ROI. GI contacts will hold partners accountable to every detail of the grow on a permanent blockchain ledger.

Growers Suite:

- **Conversions, Calculations and Ratios:** Growers are constantly seeking out numerous different websites and tools online in order to make their perfect nutrient or amendment mix. This can be time consuming and frustrating to say the least. It can be very cumbersome keeping track of all the conversion tables and calculators from different sites. We will include all conversion rates and charts for the top nutrient lines used by cannabis growers. Everything from soil measurement calculators to electricity consumption calculators will be included. An online account will save your settings and successful configuration to your personal grow journal with ease.

GRWI.io Membership Platform:

- GRWI.io is an entire social media platform designed for growers around the world. Users can create a profile, upload their avatar, manage a friends list, customize their homepage, interact, chat, share knowledge, share photos, and most importantly utilize peer to peer tipping. We want to make it beneficial for growers to share their grow knowledge and strategies. Knowledge is very valuable and our tipping system will be designed to reward quality information shared through our platform. This leads into an entire grow knowledge base powered by members teaching others quality advice and knowledge. Some of the prime features include:
- User-driven Question / Answer help-desk similar to 'Stack Overflow' for grow related support.
- Growers can sign up and be provided instantly with functionality very similar to Facebook. Including buddy-lists, recent activity, photo galleries and more.
- Instant message and group / topical chat rooms (video soon).
- Realtime GRWI price with streaming updates
- Peer to peer integrated tipping

Store Nodes (eCommerce):

- Our unique business model connects growers with vendors and suppliers alike. We do not directly sell the products listed on our site. Instead, we work to connect your order with the closest brick and mortar store that is willing to work with the GRWI discount structure. Once an agreement is made, the order is fulfilled. We work to get the best prices possible for our members along with discreet shipping or hassle free pickup. As our partnerships with grow shops and member networks expand, we can offer more discounts with quicker service. All sales of products are processed by the 3rd party and any need for return or consultation can be done with the store directly. Cultivation consultation, troubleshooting, and help will soon be available through GRWI.io. We are now hard at work at expanding upon this model and clarifying its function and benefits.
- The first tier of the marketplace allows for platform users to buy various products used throughout growing, cultivating, curing and testing cannabis. The second tier of the platform allows for users to buy/sell/trade their equipment with other users.
- Over 13,000 grow supply products currently online with over 300 unique brands.
- Accepting Bitcoin for product payment. GRWI as payment available after ERC20 swap.
- Members will receive the highest possible discount. This is often over 40% off.
- After regulations and cannabis legalization, we can allow seeds, clones, flowers, concentrates and edibles to be purchased on the site. Until then, Growers International will focus on grow hardware and merchandise.
- Currently, products can ship to any standard USA address specified. International shipping options are also available.
- Privacy is paramount. We do not store any customer information after the transaction is complete.

Mobile / Desktop Game & Cultivation Simulator:

- Built with Unity3D, targeting all major platforms (phones / tablets / desktop and possibly game consoles) - More advanced VR / AR applications can be implemented as typical consumer-grade hardware allows.
- Detailed and highly accurate 3D graphics.
- Plant growth carefully modeled by user actions like nutrient application, lighting adjustment, and plant placement.
- Lighting is simulated with a physics-based system that can evaluate the actual light received by any leaf on the plant, so per-leaf efficiency can be evaluated.
- Game / Simulator are multi-user, streamable experiences. This will help users share tips with each other after touring their virtual grow setups. In this way they'll be used as 'virtual classrooms'.
- Game is free-to-play, ad based for revenue, which is then converted to GRWI and distributed to the users based on how much virtual cannabis they grew as a ratio of the total amount everyone playing the game grew during the last time period (week / month). So if everyone grew 100 pounds of virtual cannabis, and you grew 20 pounds of that yourself, you would receive 1/5th of the total prize for that month/week.
- The simulator app will require the user hold a certain (currently unspecified) amount of GRWI in order to use the app. It offers similar functionality to the game, except there are no monthly prizes and it is much more focused on accuracy than entertainment, to help users refine and improve their grow setups for maximum efficiency.
- Simulator may interface with custom GRWI Raspberry-PI / Arduino based smart hardware in the future.
- Developed entirely in-house by GRWI staff. Updates and fixes will be rolled out fast because we do not need to fit into a production house's already over-packed schedule.

Virtual Grow Classes:

- Allows new growers to participate in 1-on-1 virtual lessons inside a multiplayer grow environment. Users can get hands-on training within our grow simulator and tip master growers in GRWI as a “token” of their gratitude.
- Product vendors can demonstrate their products or services to a virtual room of attendees. Companies can be represented in three dimensional space while answering potential customer questions in real time.
- Any individual, group, or company can host virtual meetings and events that are held on our servers and scheduled on GRWI.io.

Team:

Ryan Wright:

Founder / CEO

<https://www.linkedin.com/in/ryan-ceo/>

- Ryan has over 7 years of cannabis industry experience in horticulture, retail development and company management. Ryan also has over 4 years of experience in digital currency development. Previously, he has worked behind the scenes helping teams create, promote and boost projects of various scales and types. All of his experience in the cannabis industry and digital currency has lead him to founding Growers International. Ryan feels strongly that members should know who he is and invites anyone interested to join the Growers International discord channel for topical discussion. You can look forward to seeing more of Ryan on the various Growers International social media channels as well as physical appearances at cannabis and bitcoin conventions.

Adam Skrodzki:

Ethereum Blockchain Programmer

<https://www.linkedin.com/in/adam-skrodzki-521051b/>

- Adam has more than 12 Years of work experience in programming. Mostly in banking and insurance industry. Interested in Blockchain since 2013 and in Ethereum since 2016. Fascinated by the idea of decentralized self-managing organisations that Ethereum helps to build. Privately libertarian viewing blockchain technology as a chance to materialize ideal of Hayek's spontaneous order.

Liam Reed:

Consultant / Growers Suite Developer

<https://www.linkedin.com/in/liamread/>

- Liam is a full stack javascript engineer who has a keen interest for cryptocurrency and developing and consulting startups. He has actively worked as a startup growth hacker and has provided tools and programming consultancy to a variety of different companies. As part of Growers International, he alongside a coworker developed the first version of the grower's suite and continues to provide support specifically in research and development of new technologies.

Robert Bond:

BCT Manager / Consultant

<https://www.linkedin.com/in/robert-bond-429b8b23/>

- Robert is a serial entrepreneur and a long time crypto enthusiast. Specializing in small business development, sales best practices, innovative marketing techniques and long-term growth strategies. Joining the crypto-community in 2010 as a Bitcoin miner, Robert has been actively involved in the growing industry ever since.

Robert firmly believes that Bitcoin, and more importantly Blockchain technology, has the power to change the entire financial system currently in use today in addition to aspects of almost every other industry. The developing medical and recreational cannabis industries in the United States currently are restricted by a monetary and regulatory system that cripple adoption. Cryptocurrencies and blockchains might provide that perfect mix to help the marijuana industry as whole thrive. Robert sees the mix of crypto and marijuana as the best of both worlds.

Matt Kimball:

Research & Development Manager

<https://www.linkedin.com/in/matt-kimball-301b42152/>

- Matt Kimball has joined the GRWI team as our new Research & Development Manager. His extensive background programming agricultural simulators and training software for major US universities and international charities will help lead Growers International in developing the next level of software services we offer to the growing community. He is also an expert at developing sensor and automation hardware used for process control, 3D printing and scanning, robotics, and visualizing those systems in realtime using technologies like Unity3D, Ionic/Angular, PHP and Python.

Eliseo Hernandez:

Community Administrator

<https://www.linkedin.com/in/eliseo-hernandez-81b7b0158/>

- Following the years after high school, I was eager to enter the workforce. I have since mainly worked in jobs that are in frontline customer service. Having had the opportunity to work in these roles has given me the knowledge and skills needed to be successful in these aspects. Communication has been a big one, whether its verbal or written, both have a huge impact in the success of the team. People skills have been something I have come to find out I had in me by being told how easy I am to get along with. Unfortunately, there aren't to many jobs that allow anyone just to be themselves. So the need to get "Higher" in life has led me look for new opportunities in the crypto world.

Eric Panebianco:

Director of Communication

<https://www.linkedin.com/in/eric-panebianco-8201885/>

- With over 20 years in the technology sector, I have seen the shift from arduous and unmanageable consumer communication to the instant access and reach of social media, blogging, and direct message client offerings. I continue to ride the frontlines as new media forums improve and are able to offer deep insight in to our companies' strategy and technology. I am excited I will be able to share our innovations in real time with transparency.

Dr. Onyia Nnaemeka, MD:

Community Manager

<https://www.linkedin.com/in/dr-nnaemeka-onyia-38a97a15b>

- Dr Onyia is a licensed and practicing Medical Doctor and Entrepreneur. Not bounded by the constraints of a narrow mind, Onyia has always been an adamant student of the finance market. Starting with stocks, bonds and treasury bills, he has always enjoyed analyzing companies and sectors. This led to his first investment in cryptocurrency in 2014. Navigating through the various turbulent highs and lows of the crypto market to date, a strong and seasoned Investor & Analyst emerged. He is a Public Relations and Digital Marketing Consultant and has worked on various projects like VOID token and The Myriad Initiative amongst others. Dr Onyia then decided to share this knowledge directly with other members of the general public as a Blockchain and Cryptocurrency Analyst / Tutor. He found fulfillment with this path, as well as carrying a full medical career on the same back.

Social Links:

Website:

- <http://grwi.io>

Twitter:

- <https://twitter.com/growersintl>

Facebook:

- <https://www.facebook.com/growersinternational>

Instagram:

- <https://www.instagram.com/growersintl>

SteemIt:

- <https://steemit.com/@growersintl>

BitcoinTalk:

- <https://bitcointalk.org/index.php?topic=1879760.0>

YouTube:

- <https://www.youtube.com/channel/UCbkxseJ9I2DHdcr3DOabveQ>

Reddit:

- <https://www.reddit.com/r/GRWI>

Discord:

- <https://discord.gg/mqBqQBe>

Telegram:

- <https://t.me/growersintl>