

# Whitepaper

## Regixium- A Socially Responsible Solar Powered Mobile Mining Units And A Crypto-Banking System Backed By A Powerful AI.

### TABLE OF CONTENTS

Legal Disclaimer.....	3
Abstract.....	4
Overview.....	5
ICO Details.....	5-6
Token/Use of Proceeds.....	8-9
Global Energy Dynamics.....	9
Price Distortions & Opportunities.....	9
Summary.....	10
The Regixium Approach.....	10
Our Vision & Approach.....	10-11
Unique Selling Proposition.....	11
Third Party Operations.....	12
Challenges.....	12
Long Term Vision.....	12
Scalability.....	13
The AMMs.....	13
AMMs Configurations.....	15

Our Software Infrastructure.....16

Costs.....17

RApp and AI.....18

Regixium Bank.....19

Mobile Cryptobank.....20

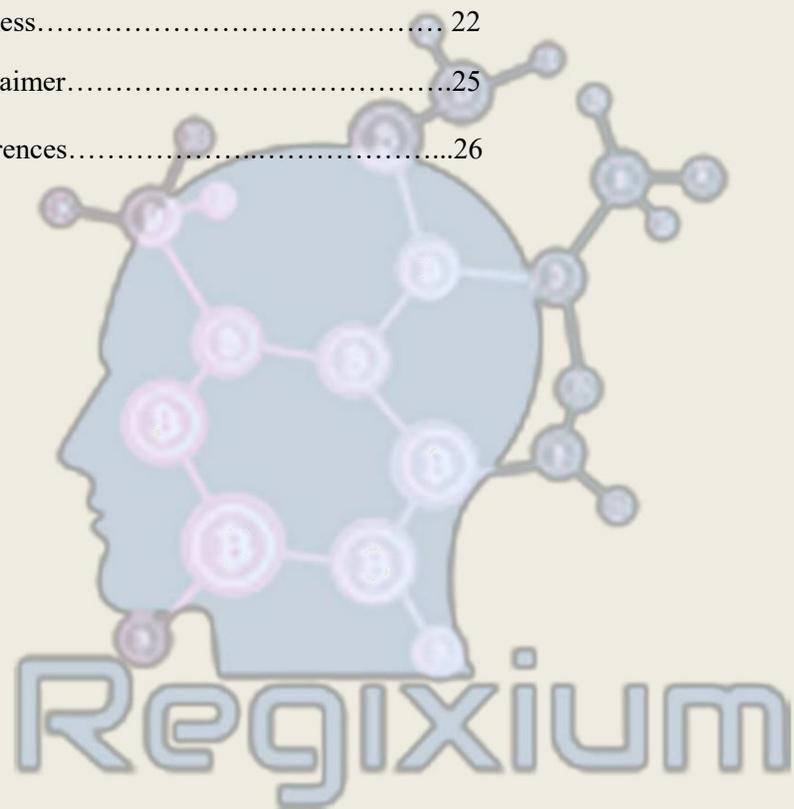
RGX Token Overview..... 21

Bank Functionality..... 22

Bank For Business..... 22

Appendix Disclaimer.....25

Appendix References.....26





## **LEGAL DISCLAIMER**

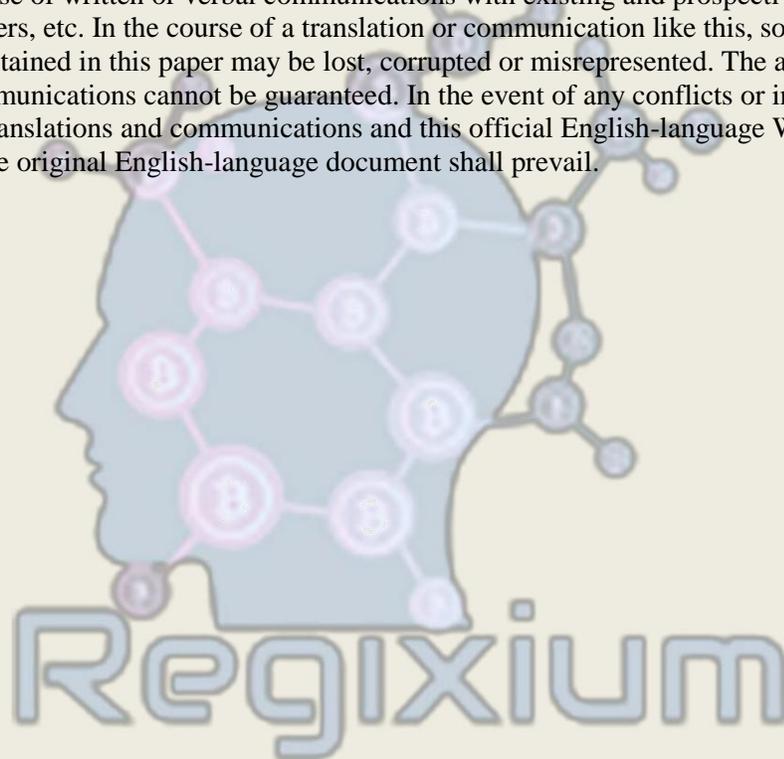
This document has been written in plain English in order to make our potential investors understand the theme of our project and to avoid any misrepresentation.

The main purpose of this White Paper is to present Regixium, its technology, business model and the RGX token to potential token holders in connection with the proposed ICO. The information set forth below may not be exhaustive and does not imply any elements of a contractual relationship. Its sole purpose is to provide relevant and reasonable information to potential token holders in order for them to determine whether to undertake a thorough analysis of the company with the intent of acquiring RGX Tokens. All relevant legal information is contained in the Token Purchase Terms and the Token Purchase Agreement.

The RGX token can be categorized as a security as it entitles token holders to receive the profits from mining operations. The token is, as such can be purchased by anyone around the world. We have gone to great depths to make this happen.

Certain statements, estimates and financial information contained herein constitute forward-looking statements or information. Such forward-looking statements or information concern known and unknown risks and uncertainties, which may cause actual events or results to differ materially from the estimates or the results implied or expressed in such forward-looking statements.

This English-language White Paper is the primary official source of information about the RGX token. The information contained herein may be translated into other languages from time to time or may be used in the course of written or verbal communications with existing and prospective community members, partners, etc. In the course of a translation or communication like this, some of the information contained in this paper may be lost, corrupted or misrepresented. The accuracy of such alternative communications cannot be guaranteed. In the event of any conflicts or inconsistencies between such translations and communications and this official English-language White Paper, the provisions of the original English-language document shall prevail.



## **ABSTRACT**

The start of crypto mining meant that people all around the world wanted to participate but the prices of energy sources and the skyrocketed prices of hardware has made it impossible for some people to get on the band wagon, while others are reaping the benefits of mining through advantages such as cold weather and low electricity prices and others are not. Regixium aims to change this since the exponential growth of crypto currencies has led to a dramatic increase in the sector's energy consumption and a concentration of mining activities in countries with low social and environmental standards - where electricity is produced using predominantly fossil fuels. On top of that mining has been an oligopoly with changes in procedures and regulations, benefitting a handful of people. We have identified three ways to end this dominance and make the crypto world a leveled, transparent and efficient playing field.

## **OVERVIEW OF REGIXIUM**

**1.** Regixium has developed a system of Ambulatory Mining Modules (AMMs) that will draw its electricity from solar panels, mounted on top of a vehicle. Our AMM's will consist of mining units constructed in standardized containers mounted on trucks which will reap the benefits of the different wavelengths of sunlight by not being static and identifying places where the sunlight has more potential energy thus

through research we will identify places with the optimum wavelength required by our solar panels to work effectively, the solar plant is in itself a breakthrough technology with a flower shaped panels which has nearly triple the efficiency of normal panels. The gains of mining will be given out as dividends to the hodlers and while a portion of it will be reinvested for future operations. It's a high-tech solution that can be very conveniently deployed globally and allows us to use the cleanest and cheapest energy available.

Regixium is the block chain notion of a reliable and decentralized system that can stand fluctuations in the overall global economic changes since it's based on a natural energy source. Decentralization has blessed us to make efficient use of our resources by being socially responsible as well as making contribution to the growth of crypto world.

2. Regixium has been developing an Artificial Intelligence (AI) which will be embedded into our in house built Regixium App (RApp). The AI would help traders identify signals of the currencies going up and others going down. The AI will use a multitude of tools to assess the information and make trade on behalf of the trader with 98% success rate. Anomalies can occur but we are working hard on covering them up when our beta version is launched in early Septemeber, 2018. The (RApp) is very friendly and easy to use this would enable the Hodlers to profit from market fluctuations without doing anything very significant. It will give an edge to Regixium Hodlers by identifying abnormal gains before anyone else can get onto the green bars, thus maximizing profits. This will be achieved by our own crypto bank and trading platform and by partnering with Binance, Poloniex and Bitterex for now. More to follow soon

- The crypto world has been marred by irregularities and high transactions fees. Regixium believes in transparency and feasibility of use of crypto currencies so in order to achieve this we have been working on developing a crypto bank cum trading platform, which would enable purchases of items with cryptocurrency at Point of Sale (POS) the AI will get the best possible price for changing your cryptocurrency for fiat currency thus enabling the user to buy products on a discount more often than not. Each time a transaction is made the a small portion of the RGX tokens held by the user would be charged as fee, this means that each time a transaction is made the number of RGX will fall which ultimately in the long run means higher prices of RGX token. This all will be achieved by our user friendly (RApp). The Regixium bank will have numerous popular cryptocurrenices so the user would be able to exchange his/her RGX token at least at par and will not recognize a loss, as opposed to pricing discrepancies on other platforms.

1.

## ICO DETAILS

The RGX token is an ERC-20 standard-based Ethereum token. RGX tokens give the holder ownership in the following three ways;

2. Receive 100% of the earnings of our mining operations as follows:

- 85% pay out instantly
- 15% are reinvested as Retained Earnings to boost future payouts.

2. Holders using the RApp for POS transactions.

3. Holders using the RGX Bank for arbitrage or AI based trading.

Tokens will be offered for 15 days, starting on August 27th, 2018 and ending on September 10th, 2018.

Token Issue Volume max 150 million

Undistributed Tokens will be burnt.

Token Price at Issue 0.25 USD

Token Price at listing on exchange 1.00 USD

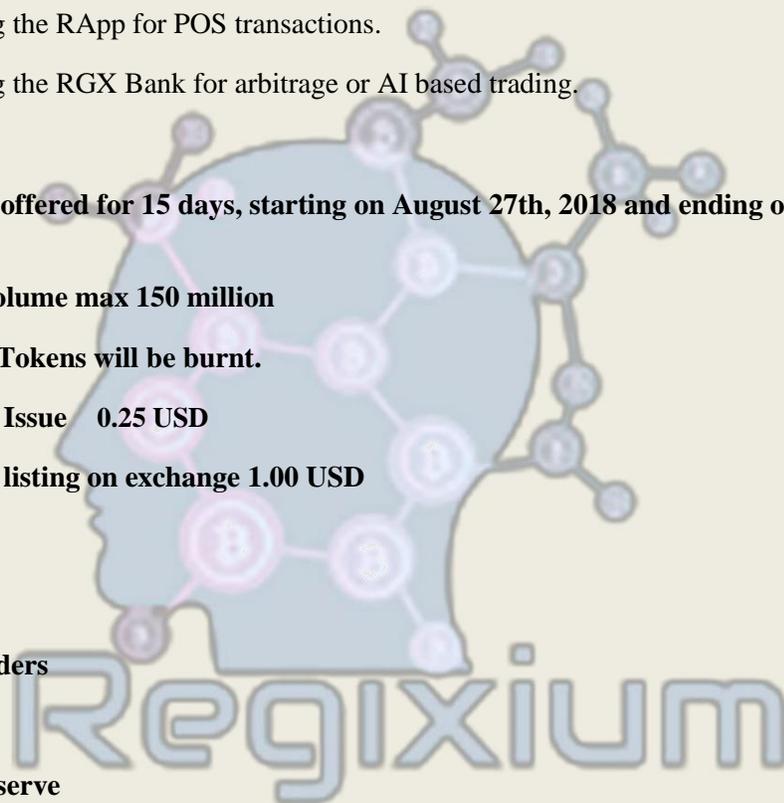
### Distribution

75% token holders

10% founders

5% RGX as reserve

10% bounty program



Regixium



We have placed no restrictions on participation in the ICO. Every person from each and every corner of the world is welcome to profit from this opportunity.

However, in order to participate in the ICO a Minimum of \$100 must be invested.

## TOKENS

**RGX Tokens are based on the ERC20 protocol, which determines that up to 150 million tokens will be issued with a nominal price of \$1 when listed in exchanges. The final allocation is set up as follows:**

- **75% investors**
- **10% founders**
- **5% for advisors and remuneration**
- **10% bounty program**

Any tokens not allocated to investors, founders or the company shall not be created. In other words the maximum token number can never exceed 150 million, whereas investors participate with 75% or a maximum of 112,500,000 tokens, founders participate with 10% or a maximum of 15,000,000 tokens and the RGX company holds 5% or a maximum of 10,500,000 tokens (e.g. for the remuneration of advisors).

The tokens carry voting rights. From time to time, when Regixium has to take strategic decisions regarding mining operations, the company will bring these decisions to a vote with token holders who have the right to veto the company's proposals. A voting process will be installed based on the RGX token's smart contract.

The tokens carry the right to receive dividends from the mining operation. Dividends are calculated solely on the basis of the net profit of the mining operation. They are not based on Regixium profit and loss statement (P&L), which might carry risks not related to the mining business. The RGX business model for mining has two components:

1. Core operations where RGX invests in, owns and operates the AMM's. Token holders are the 100% beneficiary of the earnings of operations.
2. Proceeds from Trading Platform.
3. Earnings of RGX Crypto Bank are divided on pro rata basis.

Earnings in Core Operations are comprised of the total revenue minus operation costs: such as, but not limited to, costs for electricity, rent/land lease for containers, hardware replacements to ensure the continuity of RGX's mining operation, depreciation and a handling fee for the company's overhead. The calculation of earnings in banks will be given out on pro rata basis.

Earnings will be distributed weekly on every Friday 12 PM GMT.

## USE OF PROCEEDS

We have calculated the cost of the ICO (legal advice, production of promotion materials, staff for marketing and communication, direct marketing expenses such as social media space, banners, paid articles, etc.) to be \$2m A large chunk of this was raised early and remaining will be raised in our Pre-Sale. 91% will be used for core operations. 9% will be used as reserves and for remuneration.

During the first couple of months of the roll-out, overhead and administrative expenses will not be fully covered by mining revenues. As such, we will reserve 5% of the capital raised from the ICO for the early operations of the company.

It is the goal of RGX to be ahead of competitors so we have invested heavily in Research and Development; we have signed an MoU with an American Company named SmartFlower Solar which will provide us with solar panels which are at least thrice as efficient than other solar panels in market.

## SUMMARY OF FUNDS USAGE

**Pre-Sale \$2m 100%    ICO budget**

**ICO    91%    Investment in Ambulatory Mining Modules (AMMs)**  
**9%        Administration, Research & Development, General**  
**Reserve, Legal Proceedings for Token Status as a**  
**Publicly Available Security**

In the event the ICO raises a total amount of less than \$8m, the use of proceeds will gradually shift from investment in mining operations towards AI, Trading Platform and a Cryptobank, the proceeds will be used for administration and marketing of the latter products. In this case, RGX will focus on third-party business in order to maintain profitability for investors and deliver returns.

The use of proceeds as stated in this White Paper will be followed in true letter and spirit. Nevertheless, circumstances, legal proceedings, and disruptions in crypto markets, may force RGX to deviate from its original plan.

## GLOBAL ENERGY DYNAMICS

### THE CHALLENGE

The crypto mining business model is highly dependent on the energy supply. The price and availability of electric power are the two most important factors for mining companies, but have got that covered with our innovative Flower shaped solar panels mounted on trucks.

Next generation mining operations will be climate friendly, more resilient against local price fluctuations and regulatory changes, more profitable and more decentralized. Consequently RGX's technology-driven

business model, which combines green energy source with economic viability on a global scale, is part of this next generation.

The IT ecosystem is one of the largest consumers of electricity worldwide. It consumes about 1,800 TWh per year of electricity – enough to equal the power generated by Germany and Japan combined - or almost 10% of the electricity generated worldwide. Within the sector, cloud computing alone accounts for 416 TWh<sup>2,3</sup>, roughly equivalent to the carbon footprint of the entire aviation industry, and it is growing fast: cloud computing doubles its energy consumption every four years. By 2020, it will grow to 2,400 TWh annually and could surpass China and the US, the world's biggest electricity consumers, by 2030. Within the next decade, electricity might become a scarce resource, putting upward pressure on prices, if not globally then in certain places at certain times. The source of this bottleneck is the grid rather than power generation<sup>4</sup>.

The fastest growing application in cloud computing is cryptocurrency mining. The amount of energy consumed by Bitcoin and Ethereum exploded within seven years from virtually zero in 2010 to 19.2 TWh in 2017 – matching the energy produced by Iceland or Puerto Rico<sup>5</sup>. The energy efficiency of ASICs and GPUs has risen quickly, but it has been outpaced by the increase in transactions and market cap. While this exponential growth provides excellent opportunities for miners to earn rewards, the power consumed by the information technology ecosystem also increases competition for energy. Only those with safe access to affordable electricity can put their chips to work.

## **PRICE DISTORTIONS & OPPORTUNITIES**

Photovoltaic Cell (PV) is the fastest-growing renewable energy source, a reflection of the decline of module prices – from \$76 USD per Watt peak (Wp) in 1977 to \$0.35 USD in 2017. This collapse in prices was initially driven by technological improvements and then accelerated as a result of attractive feed-in tariffs, economies of scale and Chinese competition. Meanwhile, feed-in tariffs followed the drop in module prices: 1 kWh of PV energy generated earned \$0.40 USD in 2005, while it currently earns \$0.08 USD/ kWh in most OECD countries. Beginning in the planet's sun belt, country after country reached grid parity in the last couple of years, i.e. solar power became as cheap as power from the grid (production cost + transport and levies). This process has gone even further. In India, Chile and the Middle East, PV plants get paid as little as \$0.03 to \$0.04 Cents (USD) per kWh generated, which is only a slightly more than the price of dirty coal power.

While the average price of PV power is already low, certain conditions in the spot market can drive them even lower, sometimes into negative territory. The very nature of wind and solar power, the drivers of renewable growth, puts pressure on the existing power infrastructure and has severe consequences for national grids and price structures. Power input fluctuates with the weather and sunlight and leads to overcapacities on sunny afternoons or scarcities during calm nights. In other words, the massive expansion of wind and solar creates opportunities for extremely low prices per kWh.

## **SUMMARY**

The exponential growth of energy consumption in the IT ecosystem is hitting an energy market in transition. The growth of renewable in the energy mix is creating imbalances in the grid – an uneven distribution of power in time and space. At certain times and in certain places, there is an abundance of electricity straining the grid to its limits, while scarcity might prevail at other times. These imbalances trigger large fluctuations in spot market energy prices, regulatory responses, and price differences between sectors, regions, and time and climate zones.

As data centers are long term investments in infrastructure, they have a limited capability to adapt to changes in the price structure of energy markets. Once built, they are tied to their location and might lose competitiveness to other locations if price structures change. While new market conditions might be lethal for traditional data centers, they offer vast opportunities for the global, flexible and smart mining operation that Regixium is launching now.

## **THE REGIXIUM APPROACH**

### **OUR VISION**

We believe that system innovation is imperative in order for cryptocurrencies to gain mass acceptance. We believe that future mining operations need to be decentralized to reduce their dependency on regulations from single governments, powerful individuals, and fossil or nuclear energy.

Future crypto-mining operations need to reduce the systemic risks that result from being bound to certain coins or mining pools. Thus, Regixium strives to hand the decisive power back to the crypto-community. It must be possible for individuals to take part in crypto-mining without tremendous investments in hardware and technology. Besides broad ownership of mining operations, Regixium strives to involve the community in making decisions about key mining decisions. We therefore strive to reduce the hurdles for larger audiences to take part in the crypto-community.

By offering anyone the ability to take part in securing the future of the blockchain technology, RGX is laying the foundation for the future of crypto mining by designing highly mobile low-maintenance mining units and by offering our community the right to vote on core operations and for choosing the coin to mine.

### **OUR APPROACH**

The technology that RGX has developed represents the next generation of data centers — modular, mobile, flexible, low-maintenance, data-driven and therefore designed for the challenges of the future.

Our flexibility strategy is based on three technologies:

- Our Decentralized AMMs offer industry 5.0 automation with little maintenance, are completely modular and have a scalable design. They manage a variety of electricity sources and are able to adapt to different climate zones. Built in a 22ft standard intermodal container, they have a proprietary, highly efficient and failsafe cooling system; an intake of more than 180 KW (depending on configuration) and can turn energy into cryptocurrencies via mining or alternative data applications.
- Our central hub or Single Mining cloud (SMC) manages the automated, decentralized operation of AMMs worldwide. It supports AMMs in finding the optimal mining strategy depending on the traded price of the cryptocurrency, mining difficulty, real-time energy price at location, hardware generation and many more factors. Besides data aggregation, control and optimization of MMUs, our UMC is also handling and supervising all service & maintenance operations throughout the RGX's network.

### **UNIQUE SELLING PROPOSITION**

RGX has developed a fully automatized (“industry 5.0”), mobile mining unit inside CSC-certified intermodal (sea) containers that can be shipped to any location around the world within days (most transport routes) or weeks (transport between continents).

**Lowest price for energy on the market:** Our mining units use low-priced green energy directly at the source - near the shore, in the desert or in other remote locations. This allows us to always strategically position our AMMs in regions with a competitive supply of energy and provides us with leverage when negotiating with energy providers if our solar panels malfunction. It’s our contingency plan.

**Cutting-edge cooling technology:** We have designed, developed and tested a radically new, self-regulating cooling system specifically designed for the blockchain mining industry. This patent-pending cooling system achieves a best-in-class energy efficiency with a consumption of only ~.05% of the system’s total energy consumption.

**True scalability:** Mass production & scalability has been deeply embedded into RGX's DNA from day one. Next to custom components developed by RGX (e.g. circuit boards for management or cooling systems), our AMM's use a wide range of standardized components that facilitate the mass production. Our investment in software is safeguarding our growth trajectory by providing the necessary means to operate a large fleet of AMMs. Through our network of partner firms, we have been able to secure a prioritized access to components such as GPUs in large quantities.

**Risk mitigation by design:** According to recent benchmarking studies, the centralization of hashing power in the hands of a few is a risk universally perceived as high by large- and small-scale miners<sup>9</sup>. However since RGX is able to “mine” a broad set of cryptocurrencies, our mobile mining units reduce this concentration of power, as well as the dependency on a single government (e.g. regulatory changes), single energy providers (e.g. energy shortages or rapid price increases) and single cryptocurrencies (e.g. crash of single cryptocurrency).

### **THIRD-PARTY OPERATIONS (TPO)**

In Third-Party-Operations, AMMs are manufactured and maintained by RGX, but the investment is carried by external partners, the “third parties”. A third party can be an investment fund or a corporation seeking an upgrade in its profitability. By refining electricity, a mere commodity, into sophisticated crypto-mining services the corporation moves up the value chain and multiplies its revenues per kWh. With TPO, we offer our expertise in mobile crypto mining to a sector in need of revenues, leverage our own capital base and increase returns for token holders. A percentage of the total mining revenues of the third party will be claimed by RGX for operating the AMMs and RGX will pay 35% of the resulting earnings to token holders.

### **CHALLENGES IN THE BLOCKCHAIN COMMUNITY**

The ecological footprint of traditional mining operations is enormous – the total amount of energy consumed in mining Ethereum and Bitcoin is as large as Nigeria’s consumption, a country with 180 million inhabitants, about 2% of the entire population on earth. The Guardian stated back in July, 2017 that a single Bitcoin transaction “devours as much energy as what powers 1.57 US households for a day – roughly 5,000 times more energy-hungry than a typical credit card payment”<sup>10</sup>. Traditional large- and small-scale mining operations get their power from regular grids - based on a traditional energy mix. On a global level, that energy mix is still dominated by fossil fuels contributing to pollution and climate change. For blockchain to fulfill its own vision and become the infrastructure for transactions in the future, the technology needs to improve its energy consumption profile while maintaining its core

principles: the distributed ledger and a redundancy of capacities. That is a big challenge for the entire industry. However we - the Regixium team are convinced that we can help make the world a better place with our mobile and flexible system which taps unused resources in the renewable space.

Besides our environmental ambitions we want to strengthen the original idea of blockchain and crypto currencies: a distributed structure in the hands of many as opposed to oligopolistic clusters of computing power in transparent jurisdictions under authoritarian rule. The very nature of our mobile fleet of AMMs allows for a widely distributed system and the voting rights we give to the community of token holders ensure that important decisions in mining are taken by the community and not by tycoon.

## **LONG TERM VISION**

We believe that next generation energy grids need to be intelligent, dynamic systems connecting legacy power stations with large scale renewable and networks of distributed producers and consumers of energy. On the last mile, such a system relies on Advanced Metering Infrastructure (AMI) with smart meters as energy managers and intelligent machines as agents that buy and sell energy via smart contracts, using household's solar roofs as power stations and car batteries as storage. In the energy world 4.0, the formerly uninvolved consumer of the 20th century becomes an active player in a breathing and flexible energy organism, managed by smart contracts, paid in cryptocurrencies<sup>11</sup>.

In such a world, the analysis of energy prices on a global scale is a key for efficient crypto mining and data center operations<sup>9</sup>. With Smart Energy Sourcing (SES), we are now laying the foundations for the software infrastructure necessary to manage our crypto mining operation and maximize the potential and flexibility of our AMMs

## **SCALABILITY**

According to a recent MIT study, many large miners are highly concerned with issues regarding the scalability of their operations. We designed our processes with this issue in mind, resulting in an all-around highly scalable concept. We deploy a modified, ISO-certified sea container that is adapted to suit Regixium's needs right from the beginning. In partnership with well-established Chinese steel factories, all of the container's units are thoroughly prepared and equipped with most of the required hardware, including RGX's proprietary sensor array, remote control mechanisms and RGX's hardware stacking system. At this point, RGX's units can be filled with the computing hardware. Currently this step is undertaken in the EU, however we have plans for passing it on to production sites in the future as well. After this final step, which is facilitated by RGX's simple hardware stacking system, the unit can be connected and can start working anywhere in the world, be it in a remote power plant, rural industrial area or even a container ship, using the ship's onboard wifi and power supply. Our team of international energy experts has furthermore helped us to create a power hub that allows RGX's modular data centers to be connected to virtually any high-power electricity in the world. Accepting the industrial standard of 380-400 VAC via a set of adjustable connectors, RGX's fleet remains flexible, can be used in any imaginable setting and can be dynamically adjusted to meet the required needs. In the post-deduction phase, a unit can even be economically used to solely transform excess energy such as excess power potentials from (off-grid) renewable energy sources.

Given the low prices of standardized grid-tied inverters, PV farms often use these standard modules in an array, creating an ideal low-voltage AC network for off-grid usage of PV power. After the primary amortization phase, where units are in use 24-7, a 100% off-grid use case becomes profitable.

## **THE AMBULATORY MINING MODULES AMMS**

### **DEVELOPMENT PRINCIPLES**

The RGX team has developed the core technology ranging from circuit boards to middleware to application software layers for the AMMs based upon a clear set of development principles and guidelines:

••**Mobility:** The RGX vision can only be realized by ensuring that each and every component is compatible with, and supports, our ruggedized mobility concept (e.g. protection of hardware components against vibrations and transport-related issues). This is largely realized by using components designed and revised in-house.

••**Modularity:** For the sake of scalability, modularity is one of RGX's fundamental design strategies. The modularization of functional units and the creation of a completely modular environment are essential contributors to the success of our AMMs .

••**Cost-efficiency:** The highest-performance device does not always provide the best value when energy cost is a factor. Our goal is to create devices with the greatest ROI at the lowest overall risk. The core technology of the AMM has been developed to only include carefully chosen, well-engineered solutions with a clear focus on improved ROI over the life of the device.

••**Maintainability:** Keeping operational costs low is the key to success. Industry 5.0-driven automation approaches are therefore preferred over using human resources for maintenance.

••**Plug'n'play:** Replacing, removing, adding, or moving units and devices should not affect the operability of the system or any parts of it. To this end, a sophisticated plug'n'play system should be designed to track and balance connected components.

••**Plug'n'mine:** A fundamental development concept is that deployment of the AMM to full-scale mining should only take a few minutes once energy and network have been connected. Simply plug in the device and mining will rapidly commence following the sequential startup sequence.

••**Expandability:** Simple, straightforward, function-based engineering allows for exponential scalability, allowing for virtually unlimited expansion of our system. This ensures easy-to-control mass production and short time-to-market.

••**Cooling optimization:** Cooling is an essential factor for any data-center and is the greatest component in determining its efficiency. A maintainable and error-proof system is the key to an autonomous mining operation. Therefore, we have created a largely passive, highly-efficient cooling system that keeps the unit running even at outside temperatures above 40 °C. For special purposes, like hot climates, this system will be scalable without additional adaption.

## **RGX MINING WORKER**

The smallest element in RGX's ecosystem is the mining worker. This can be an ASIC, a GPU-based mining rig or other possible future mining or cloud-computing engines.

## **MINING HARDWARE**

The first generation of the RGX's AMMs contains the RGX rig, which is an optimized mining device configured for optimal ROI efficiency. With this goal in mind, we over- or under-clock GPUs, test dual-mining strategies, and reduce overhead by the operating system. New mining configurations based on this hardware can be published to all running instances worldwide by our RGX SMC automatically.

## **HARDWARE MAINTENANCE**

One central asset of our AMMs is that they keep maintenance costs and efforts minimal. There are fully automated systems in place which detect defective rigs, based on IP address and rig denotations, so that any maintenance worker is able to locate defective hardware within a very limited amount of time. RGX is already able to instantly detect defective GPUs on a software basis when they stop performing their intended tasks at the desired performance rate. Now, we have taken a further step by altering BIOS names of GPUs (unique identifiers) and equipping GPUs with LEDs that translate software-based issue detection into physical signals, allowing even un instructed maintenance workers gain the ability to quickly and reliably detect and replace defective hardware.

These mechanics are merely a fragment of the efforts that RGX has undertaken in order to ensure minimal maintenance; the entire AMM has been designed so that anyone with a basic understanding of hardware and software processes can operate them with little guidance. For instance, all mining units are configured in a plug'n'play style, indicating that they start up as soon as electricity and internet connection are available. Furthermore, all rigs are equipped with LED strips, so that it is clearly visible when one particular section of an AMM loses electricity, networking or other functionality, simplifying repairs.

Generally speaking, a certain number of GPUs will stop mining after a certain amount of time, but there's a simple fix for that: every AMM has a randomized reboot schedule which reboots the mining rigs in order to safeguard performance, minimize maintenance operations, reduce the load on GPUs and improve heat management. This approach is highly favorable in contrast to the sole remaining viable solution, which is to not bring the hardware to its limits, but that could lead to much lower performance, which in turn would lead to a lower ROI for the RGX community.

On the process side, the declared goal of Regixium is to highly standardize all maintenance operations. This means that maintenance operations are guided and controlled by our software infrastructure that provides clear prioritization, visual guidance, effective control & benchmarking and escalation of all maintenance operations.

### AMMs CONFIGURATIONS

AMMs can be configured either with traditional ASIC workers or with our proprietary GPU-based rigs. The patent-pending cooling system includes specific options for both, ASIC- and GPU-based workers, which can be installed at fixed or yet to be determined ratios. The main configurations are depicted below in table 1 and figure 3, where an ASIC worker-fraction of 0, 50, or 100 % is depicted. Due to the nature of an air-cooled system, we have created a "medium (power) density" (< 50 KW), a "high density" (60-85 KW) and an ultra-high density (137 KW; ASIC-only) AMM version for each configuration. The implementation of a medium-density AMM version allows deployment of our containers even to regions with outstandingly high ambient air temperatures.

	MD*		HD**			UHD***			
	100% GPU Prototype	100% ASIC 100% ASIC	50%/50%	100% ASIC	100% GPU	50%/50%			
No. GPU Workers (pcs)		48	0	24	0	64	32	48	0
P/GPU Worker (W)		960	960	960	960	960	960	960	960
No. ASIC Workers (pcs)		0	32	16	64	0	24	10	96
P/ASIC Worker (W)		1430	1430	1430	1430	1430	1430	1430	1430

P total GPU (W)	46080	0	23040	0	61440	30720	46080	0
P total ASICS (W)	0	45760	22880	91520	0	34320	14300	137280
P aux. Eq. (W)	800	800	800	800	800	800	800	800
P TOTAL (W)	46880	46560	46720	92320	62240	65840	61181	138080

No. CEE 32A Power Lines	3	3	3	5	4	4	4	7
-------------------------	---	---	---	---	---	---	---	---

\*MD = Medium Power Density version.

\*\*HD = High Power Density version.

\*\*\*UHD = Ultra High Density version. 100 % ASIC workers.

## SOFTWARE

To ensure unprecedented performance, we created our own Regixium operating system (ROS) to run on our mining rigs. ROS is Linux-based and optimized for low overhead, high performance, scalability, and stability.

### Regixium OS;

#### Linux kernel

Whenever a system is brought online, it initially receives an IP address from the network. Based on a configurable URL, it sends initial status information on startup which registers the RGX rig in the ecosystem. ROS updates the ecosystem in frequent intervals. The operating system is furthermore able to recognize GPU failures and can set LED indicators to support maintenance work. If a GPU fails, ROS instantly pushes messages to the network in the standardized Regixium communication format (RCF). With the help of an integrated, secured REST-API, the mining rig is able to receive additional information and instructions.

## COOLING SYSTEM & HEAT MANAGEMENT

Our first and foremost objective is to keep our data centers as fail-safe as possible. Our strategy toward achieving this goal is to keep things simple, limiting the unnecessary introduction of error-prone components. While competitors have experimented with fully-liquid cooled systems, battery-backed arrangements and even water-immersed electronic components, we at RGX have decided to design a simple yet unique air-based cooling system. The main feature, and the competitive advantage of this cooling system, is its efficiency in terms of the opex (energy required) and capex cost (initial investment) required to remove excess heat from inside the container. This is achieved by its directed air-flow design, which is routed directly to the sources of heat, and the redundancy that is guaranteed by the use of its twin-engine system, with one engine being capable of compensating a complete failure of the other.

Using a state-of-the-art temperature probe array and a fail-safe stack of independent PID-controllers, both fan drives are simultaneously and continuously governed to run at the most efficient rate, determined in real time by the relative temperature and pressure difference between the inside and outside of the container. Humidity and water sensors allow identification of various weather conditions. If a container is deployed outdoors, severe storms or rain can be detected and the ventilation system will be adjusted so that no water can enter the interior of the container. As mentioned above, pressure and temperature

sensors are able to control ambient outside and inside air temperatures, allowing for adjustments of the converted energy and cooling power to the required (preset) temperatures. In certain cases, it may be desirable to increase the operating temperature of the unit for external purposes, e.g. heating of a swimming pool, where water can be heated by running through the heated container cells. The sensors allow for such adjustments to be set and monitored remotely. In total, the efficiency of our mobile data center reaches a still unprecedented power usage effectiveness of less than 1.02.

**Table 3: Individual component performance**

KPI #	COMPONENT PERFORMANCE	VALUE
K1	Total investment in MMU including mining hardware <sup>3</sup>	\$103,171.00
K2	Total investment in GPU mining rigs incl. share of MMU <sup>9</sup>	\$50,629.60
K3	Total investment in ASIC miners incl. share of MMU <sup>9</sup>	\$52,541.40
K4	Investment in USD per ETH MH/s	12.54 \$/MH/s
K5	Investment in USD per BTC TH/s	144.15 \$/MH/s
K6	Investment in USD per KW	1.75 \$/kW
K7	Total GPU hashrate (ETH)	4,037 MH/s
K8	Total ASIC hashrate (BTC)	364.50 TH/s
K9	Total energy consumption of MMU	59.10 kW
K10	Energy consumption in kWh / month	43,144 kWh
K11	Energy consumption in kW per ETH MH/s	5.71 W/MH/s
K12	Energy consumption in kW per BTC TH/s	98.96 W/TH/s
K13	Total annual mining profit	\$247,757.74
K14	Total annual GPU mining profit	\$78,119.17
K15	Total annual ASIC mining profit	\$169,638.57
K16	Profit in USD per kWh	\$0.48
K17	Profit in USD per MWh	\$478.55
K18	Raw ROI <sup>4</sup>	240%
K19	ROI with 83% contributor share <sup>5</sup>	220.43%
K20	ROI with 91% investment share <sup>6</sup>	281.12%

**Table 4: Key Performance Indicators (AMM configuration: ~50% ASIC miner share).**

## FIXED COST FACTORS      FIXED SETUP COSTS

(1 AMM)

F1	Housing	\$10,000.00
F2	Energy Components	\$5,000.00
F3	Monitoring Electronics	\$2,000.00
F4	Mining Equipment	\$108,452.00
F5	Installation & Shipping	\$1,200.00
F6	Other	\$450.00
	Total	\$127,102.00

## VARIABLE COST FACTORS      MONTHLY RUNTIME COSTS

(1 AMM)

V1	Depreciation	\$1,900.3
V2	Local Maintenance	\$170.20
V3	Security, Land Usage, Monitoring	\$40.00
V4	Overhead	\$348.02
	Total	\$2,458.52

Regixium

## RApp And Regixium AI

The RApp based AI is a smart cryptocurrency trading assistant service. The service consists of a signaling tool for trading opportunities associated with a mobile application and operation automation bot. The first phase of the roadmap is to allow the user to respond to a trading signal. If a user wishes to enter the trade, the first step would be to set up the amount to invest and the profit target.

### How it works

The service consists of a market monitor bot

(A), a mobile application

(B), and a trading operations automation bot

(C)The market monitor bot continually monitors several markets, or currency pairs, in the exchanges supported by the service. Initially, we will support Bittrex, Poloniex and Binance before the launch of our own trading platform and cryptobank.

This is a strategic concept in which a trade that lasts only a few minutes can potentially achieve a small profit margin or Abnormal gains in short bursts.

When a trading opportunity is identified (signal), the market monitor bot notifies users through the RApp. Once notified, users will have the opportunity, through the application interface, to analyze the signal/opportunity (price, quality, volume, charts, etc.) and decide if they wish to enter into that trade. Upon deciding to trade, the user will only have to choose the amount to be invested and the desired profit target, within a range of possibilities appropriate to the strategy used by the signal service. In the case of the scalping strategy, the desired profit options will be 1%, 2% or 3%. Different strategies may present different earning possibilities. Once the user has chosen the desired profit, the trading automation bot performs its action. This bot will operate the user's funds through the exchange API by placing the purchase order, tracking it, and, after the warrant has been executed, placing the sell order. Then, it will continuously monitor the price of the asset to, eventually; start a stop-loss operation to minimize losses if the market does not move in the predicted direction. In case the sell order is executed at the target price, the operation will be successfully completed.

## **RGX TOKEN UTILITY**

Users who pay for the service using RGX tokens will get access to premium features and a first look at new beta features, among other similar benefits Users who hold in their wallets a certain amount of RGX will be able to use our service for free. Users will be able to acquire RGX tokens during the token sale phase and, after that, through cryptocurrency exchanges available on the market.

## **1 REGIXIUM BANK EXECUTIVE SUMMARY**

### **1.1 The Future of Digital Banking and Cryptocurrencies**

Over the past decade there has been an explosion in the demand for cashless and digital payments. Global transaction volumes grew by 11.2% from 2014 to 2015 to reach 433 billion, an increase partially fuelled by Emerging Asia. In the past 24 months this growth has been enhanced by the introduction of mobile contactless payment solutions such as Apple Pay, Google Pay, Alipay and whole host of other innovative solutions. Between 2015-2020, mobile proximity payment volume (such as Near Field Communication (NFC) and QR codes) is expected to rise by a compound annual growth rate (CAGR) of 80 percent, which would bring mobile proximity payments volume over US\$4 trillion by 2020. Similarly, the crypto-economy and cryptocurrencies in particular are growing at a phenomenal rate. It is estimated that by 2020 the cryptoeconomy will exceed three trillion dollars and that by 2022 it could be equal to 10% of world GDP. Only time will tell whether these predictions are correct, but what is certain is that cryptocurrencies have passed their point of no return. They are here to stay, and their importance will only increase. On the other hand, universal transaction processing for cryptocurrency against fiat based goods is practically non-existent. This is an unsatisfied demand across a cryptocurrency capitalization that has already surpassed US\$150 billion.

Regixium solves this problem with the commercial launch of its global banking transaction processing platform dubbed "Regixium Bank" or "R-Bank."

### **1.2 What Is Regixium Bank.**

Providing cryptocurrencies to mainstream everyday users, will require dedicated cryptobanking services. Only once a person is able to use cryptocurrency in the same way that they use any other currency, will all of the benefits of cryptocurrency, such as lower transaction costs, speed of payment, removal of national boundaries and so on, become real. There are already 3 million daily users of cryptocurrencies, a number that is expected to exceed 200 million by 2025. The demand for cryptocurrencies exists now and will grow at an annual CAGR of ~70% for the foreseeable future. The potential to satisfy this demand is perhaps the most exciting banking development of the past 100 years and the prize for those who are successful is a place on the global banking landscape at a rate of growth and a worldwide presence that can never be matched by any traditional banking development plan.

The Regixium Cryptobank will be a first step in satisfying this demand. The (RApp), will be made available for download via the IOS and android marketplace and is planning to be ready-to-use on mobile devices immediately. Unlike conventional mobile banks that take weeks to process and issue cards, the Regixium Cryptobank provides an instant processing engine for both fiat and crypto based currency transactions while enabling inter-changeability between the two. With Regixium digital bank customers will finally be able to use cryptocurrencies to pay for fiat based goods without transaction limits and with low commission on any of the world's existing 42 million payment terminals and many internet stores and payment points. Regixium technology platform is developing to be based on algorithms that allow for the most efficient exchange rates matching across natural peer-to-peer flow as well as third party Crypto-exchanges. This is planned to be quickly followed by a range of complimentary banking services from simple Peer to Peer payments to Cryptocurrency backed lending. The RGX tokens will be used for transactions costs and holding any RGX will help lower the cost of operations for an individual or an institution.

Regixium aims to meet the banking needs of the crypto era.

## **2 MOBILE CRYPTOBANK**

### **2.1 Mobile Contactless Payments**

Physical bank branches, plastic payments cards, your personal neighborhood banker, are all things of the past. Now everything is digital, mobile and contactless. Regixium is building a new digital solution to Cryptocurrency era, that does mostly the same things as the current mobile bank providers, but faster, cheaper, safer using cryptocurrency on the decentralized blockchain as soon as a customer downloads the Regixium mobile banking RApp customers will be able to start to make transactions in current VISA, Mastercard or Union Pay infrastructure practically instantly. Gone are the days when you need to apply for a debit card and wait weeks for it to be delivered. Customers will be able to instantly pay in certain major cryptocurrency (at least BTC and ETH) or inERC20 standard tokens for any product or services at any POS terminals (there are already over 42million installed throughout the world) that are fitted with NFC (near field communication) via the RApp. Regixium uses NFC HCE (host card emulation) protocols to tokenize the data on the virtual payment card and in turn the POS terminal reads the connections as if it were a standard plastic card. Practically any NFC payment service, such as Apple Pay, Samsung Pay, Google Pay and a host of other providers, can now be used to pay with cryptocurrencies and as far as the retailer or online store is concerned, they are paid in the currency of their payment order. This capability possibly extends to ATM cash withdrawals and most other standard banking activities. Today it is practically impossible to pay for your daily coffee, the morning newspaper, or your utility bill with cryptocurrency. Of course, a cryptocurrency owner could make an exchange of cryptocurrency on one of the exchanges, wait for confirmation that it is completed, and then wait for the transfer of funds to their nominated account and so on. But who in all reality would do that to buy a coffee? With RApp that changes instantly. The RApp does all of that for the customer. From any cryptocurrency that are preselected by the user in RApp, perhaps in different percentages depending on their current trading value, Regixium does all the communication and ultimately conversion to and payment in fiat without the

user having to do anything other than bring up their Smartphone to the NFC terminal and press go. Only the exact number of cryptocurrency in the order and ratio prescribed are exchanged to meet the payment needs.

## **2.2 Regixium Cryptobank Functionality**

**Software for IOS, Android or Windows Phone smart phones or tablets with “standard everyday services”, providing opportunity to use (get and transfer certain cryptocurrencies, including BTC and ETH), and conduct settlements related to fiat currencies. Examples of such services are:**

- **Transactions in current infrastructure of trade and services outlets all over the world via international payment system (VISA, MasterCard)**
- **Transactions in infrastructure of trade and services outlets connected to Regixium or being Regixium partners’ infrastructure**
- **Replenishment of personal card or bank account**
- **International transfers to cryptocurrency accounts or bank accounts, including bank cards, Without restrictions (other than those applied for anti-money-laundering purposes)**
- **Special offers for Regixium in partner shops**

**This type of functionality is planned to be available for use in September-October 2018**

## **3 RGX TOKEN – RGX FOR BANKING**

### **3.1 Overview**

RGX – is the core of all transactions made in Regixium banking platform. No payment can be conducted without RGX, its main goal, regulated by smart-contract, is to stimulate token holders to use RGX in their daily life, and to attract new users to RGX. Regixium in future is planning to list its tokens on cryptocurrency exchanges to enlarge user base and fulfill users’ expectations to provide the most comprehensive services.

### **3.2 Decentralised Fuel to Power the Engine**

Only RGX token holders are able to use the RApp and banking services. Every time a person makes a payment, a fee equal to 0.05% of the value of the transaction in RGX is taken from the RGX token holder’s account and is burnt as fuel for the transaction. Ownership of RGX creates a reserve that can be used as the fuel for future transactions. All of this will be done by our AI.

### **3.3 Permanent Loyalty Reward**

Today all merchants are charged for acquiring services, whether this is Visa, MasterCard, American Express etc., measured as a percentage of the payment they receive. Some of these fees can be as high as 5% to 6%. With Regixium ecosystem, merchants will pay back 0.5% - 1% from their turnover, 0.15% of this turnover will go to the Monthly Loyalty Program to thank purchasers for making transactions. The higher volume of transactions a purchaser makes, the higher loyalty rewards he or she will be given.

We want to reward loyalty because it lowers our marketing expenses. We divide our user base into four categories depending on their willingness to make transactions via Regixium. The more tokens users

acquire during the month, the more transactions they are expected to make in the future (tokens are necessary to fuel transactions). But also, users' monthly activity on Regixium predominantly determines their loyalty rewards. This can be compared in many ways to the mechanics of current rewards programs like Air Miles. It will all depend on the ownership of the token, which will be disclosed after the ICO. More will follow on this once the ICO concludes.

### **3.4 Additional Token-holder Benefits**

- Priority service for all Regixium applications and support, including early roll-out for new functionality**
- Regixium is planning to apply a wide range of anti-fraud measures which in turn should place limits on the number of actions users can make in formative period of the company's development. These limits will apply to those users that hold 100,000 or more tokens.**
- Whilst many core functions of Regixium will be free to use for all members, future additional services may incur a fee for use, for example concierge services. Upon launch, token-holders can expect to receive a discount of up to 75% from standard fees (the exact benefits will depend on the service)**
- Those token-holders that are also merchants using the RApp for acquiring will be entitled to fee discounts of up to 50% from standard fees (exact details will depend on the date of launch of the acquiring solutions which as per the road map will come after the crypto payments platform)**
- As the company develops, additional token-holder product benefits are expected.**

## **4. REGIXIUM CRYPTO BANK FUNCTIONALITY**

**Standard everyday services will include:**

- **Buy and sell BTC, ETH, XRP, LTC, Dash, XEM, NEO, MIOTA, XMR and many other cryptocurrencies and tokens**
- **International transfers to any blockchain wallet's account, including bank cards, without limits or restrictions (other than those applied for anti-money-laundering purposes)**
- **Conversion and exchange between RGX assets**
- **Direct payment for services such as telephone, utilities, penalties, loans, taxes, internet, etc.**
- **Automatic direct debit payments**
- **Transaction history data (including sorting services such as filters and payment categories)**
- **Fiat currency transactions**

**Additional launch services will include:**

- **Multi-currency transactions (write-off multiple currencies simultaneously)**

- **Photo-payments** – simply take a photo of the invoice and send to Regixium and we'll do the rest (this may incur additional charges)

- **QR payments for RGX infrastructure users**

Following services is planning to be included:

- **Traditional banking services (following the acquisition of a banking licence) that will enable Classical banking services to co-exist with cryptocurrency services**

- **Peer to peer crypto and fiat currency transfer**

- **Interest earning crypto deposits**

- **Banking statements**

- **Salary accounts**

## **5 CRYPTOBANK FOR BUSINESSES**

### **2.1 QR Code Payments**

There are two equally important sides of the infrastructure required to ensure the rapid adoption of crypto currencies. The ability to make payments and the ability to receive payments. The RApp will process the payments which in turn will utilize the vast resources of the world's biggest payment providers by using digital contactless payment technology through supporting POS terminals to receive payments. Nevertheless, there are still millions of businesses that for a wide variety of reasons are unable or unwilling to connect to this payment network. For example, you will not find many street traders in Colombo that have a contactless visa terminal.

The RGX team has more than 4 years of development in Fintech, actively building alternative contactless payment solutions for business covering all areas of business life from key retail sectors such as restaurants and bars, to street traders and the internet stores. Over the past year alone, more than 350,000 payment transactions have been made through payment processing platforms, developed by our team. This knowledge and experience will be embedded into Regixium enabling it to reach a much wider audience than is possible today.

The RGX Cryptobank for business will be a dedicated in-module solution for businesses

that can be applied to all sectors. Functions include:

- **Cryptocurrency exchange and settlements/acquiring in fiat or cryptocurrency no matter**

how the payment was made

- **Customized loyalty and cash back programs**

- **Universal web-office with:**

- **Transaction history**

- **Payment details managing**

- Filter by currencies, payment time, shopping methods etc.
- New store connections

RGX's business banking solutions generates not only the ability for merchants to accept cryptocurrencies, but also:

- Conversion between cryptocurrencies and fiat money
- Increases the speed of payment, (compared to other than cash)
- Reduced costs. On average payments through the RGX infrastructure will be 4 to 5 times cheaper than the cost of card acquiring About 0,5% - 1% depending on turnover
- Flexibility with a wide range of payment solutions
- Reliability, all solutions have been tested over years of development and 2 years of usage

Regixium has developed a universal solution that has the ability to replace expensive and restricted POS contactless terminals, or simply act as an alternative to those terminals when the merchant has no access to them or would prefer an enhanced experience. To receive crypto payments, the merchant has to simply install a special RApp on their mobile device, such as a tablet, which in turn produces QR payment codes containing all of the essential payment details. The Regixium WHITEPAPER VERSION 1.0 G 31.09.2018

This solution has become the overriding leader in many countries, especially China where such methods of payment have almost eliminated the competition. It is estimated that over 70% of payment points are equipped with QR payment solutions, which in turn support the most popular apps Alipay and WeChat. With the support of Regixium, such mass adoption could easily be extended to cryptocurrencies, for any merchant, anywhere in the world. All they need is an internet connection via a mobile device.

## **5.2 Regixium E-Commerce and Automated Services Solutions**

RGX developed API enables any internet store to display a QR code, which in turn can be read by the RGX mobile banking customer to scan that code and make a payment using cryptocurrencies in the same way as they could at any contactless payment point. Not only does it enable the same benefits of the mobile banking app as noted previously, it also simplifies the checkout process by filling in essential payment information such as delivery address, contact phone number etc. when scanning the QR code. This is all done instantaneously at a cost for the merchant which is many times cheaper than they pay today.

Such benefits are also being applied to offline contactless payment points where there is no need for a human interaction, for example to pay for a parking permit or paying for petrol without leaving the car.

## **REFERENCES**

1 „The Cloud begins with Coal“, Digital Power Group, 2013; the report was sponsored by the National Mining Association of the US in order to promote coal, but consumption figures are neutral regarding the source of energy

- 2 The Independent, <http://www.independent.co.uk/environment/global-warming-data-centres-to-consume-three-times-as-much-energy-in-next-decade-experts-warn-a6830086.html>
- 3 Prof. Ian Bitterlin, <http://www.independent.co.uk/environment/global-warming-data-centres-to-consume-three-times-as-much-energy-in-next-decade-experts-warn-a6830086.html>
- 4 <https://www.techpowerup.com/234959/cryptocurrency-mining-consumes-more-power-than-17m-population-country>
- 5 [https://en.wikipedia.org/wiki/List\\_of\\_countries\\_by\\_electricity\\_consumption](https://en.wikipedia.org/wiki/List_of_countries_by_electricity_consumption)
- 6 <https://cleantechnica.com/2014/07/22/exponential-growth-global-solar-pv-production-installation/> ; [https://en.wikipedia.org/wiki/Growth\\_of\\_photovoltaics](https://en.wikipedia.org/wiki/Growth_of_photovoltaics)
- 7 <https://qz.com/953614/california-produced-so-much-power-from-solar-energy-this-spring-that-wholesale-electricity-prices-turned-negative/>.
- 8 <https://www.solarplaza.com/channels/archive/11186/india-on-roll-to-be-a-solar-energy-super-power/>
- 9 Hileman, Garrick and Rauchs, Michel, 2017 Global Cryptocurrency Benchmarking Study (April 6, 2017). Available at SSRN: <https://ssrn.com/abstract=2965436> or <http://dx.doi.org/10.2139/ssrn.2965436>
- 10 <https://www.theguardian.com/sustainable-business/2017/jul/13/could-a-blockchain-based-electricity-network-change-the-energy-market>
- 11 <http://www.energycentral.com/c/iu/next-generation-smart-metering-ip-metering;>  
<https://hbr.org/2017/03/how-utilities-are-using-blockchain-to-modernize-the-grid>
- 12 Brewer, D.F. and Nash, M.J., 1989, May. The chinese wall security policy. In Security and privacy, 1989. proceedings., 1989 ieee symposium on (pp. 206-214). IEEE. URL: [https://www.cs.purdue.edu/homes/ninghui/readings/AccessControl/brewer\\_nash\\_89.pdf](https://www.cs.purdue.edu/homes/ninghui/readings/AccessControl/brewer_nash_89.pdf)

13 <https://nacl.cr.yp.to/>

14 <https://www.pv-tech.org/news/49-million-ifc-loan-paves-way-for-chile-pv-plant-expansion>

## APENDIX DISCLAIMER

Cost structure as depicted in these table are based on an AMM with 50% GPU miners and 50% ASIC miners. The overhead calculation is based on assumptions that might be wrong or change, such as, but not restricted to, prices of third party services, levies and fees on crypto related activities, tariffs on computer hardware in various jurisdictions, expenses for litigation and settlements, changes in the regulatory environment, insurance for directors and officers, insurance for containers, costs of transport, changes in the supply chain, expenses for experts in production logistics, energy markets, data centers or other business segments. Therefore the costs for overheads displayed in this document provide only a rough guidance, but cannot be guaranteed by Regixium. The company is not liable for deviations from projections described herein and will not award any damages based on these projections. The above model shows the assumed return using an annual projected token profit based on a 25% reinvestment strategy and current mining difficulty & market conditions. Actual results can be higher or lower. The model is a sample calculation. The model should not be regarded as information for an investment in tokens or as an offer of or a solicitation to buy tokens.

The calculations are according to the “use of proceeds” (as defined in the Whitepaper) of the Regixium ICO and the distribution of 83% of the tokens to investors. Calculations show the business case for the average investor (it does not take into account different token prices): It does not factor in the possible dilution effects of any rebates as scheduled for the four phases of the ICO (see our website [www.Regixium.io](http://www.Regixium.io)). In the pre-sale ending on the 17th of July 2018 up to 6.5m RGX tokens will have been placed in order to finance the ICO and advancement of the RGX business case (e.g. patent application). As the proceeds of this placement will not be invested in AMMs they also have a diluting effect on the payout. The dilution effect is not factored in the above projection because it depends on the size of the ICO.

All projections are calculated before taxes, which depend on AMMs locations and the question whether the payouts will be categorized as profits or costs by the jurisdictions of these locations. Therefore final payouts can deviate because of tax reasons.

## APENDIX REFERENCES

(1) We have tested multiple GPUs for our first generation mobile mining unit based on extensive testing performed as described in our White paper. The GPU model has been chosen based on cost/benefit ratios, supply/demand ratios, and energy usage among all viable mining GPUs. The chosen model is subject to change. The hardware model selected for AMMs will be determined at the time when component sourcing & procurement starts.

(2) Compare <https://www.coinwarz.com/calculators/bitcoin-mining-calculator/?h=13500&p=1323&pc=0.03&pf=0.00&d=1452839779145.92000000&r=12.50000000&er=8000&hc=0.00> for USD profitability)

(3) This includes housing, energy components, monitoring electronics, mining equipment, installation, and overhead

(4) This ROI resembles the raw ROI from operations. It does not take into account that 25% of all tokens are not distributed and does not take into account that only 91% of invested funds are invested into mobile mining units (the rest is spent for R&D and other company expenses)

(5) This ROI takes into account that only 75% of all tokens are distributed among investors (10% remain with folders, 5% in the company, 10% are reserved for the bounty program). The resulting ROI is one that an investor in the company would have if 100% of invested funds were to go directly into mining units (compare 91% investment share)

(6) This ROI takes into account that 91% of all invested funds after the ICO costs of 2m USD (already mostly raised at the time of writing and maybe fully raised at the time of ICO) are spent building AMMs and that 75% of tokens are distributed to investors. See also (4) and (5)

(7) We understand that there are widespread opinions in the mining community as to what the correct value for monthly depreciation is. We decided not to include uncertain factors like the future development of total network mining power into those numbers as there are countless models that try to make assumptions about the future development. Our numbers reflect only hardware defects and include a general yearly inflation of processing power efficiency as newer GPUs or ASICs come out. Positive effects like rising prices of cryptocurrencies (e.g. Ethereum or Bitcoin) or emerging of new, even more profitable cryptocurrencies are not taken into account in this calculation and offer additional growth potential for token holders or might at least compensate negative factors like difficulty increases. This means that Regixium token holders profit directly from positive market developments for cryptocurrencies. For full details, please refer to our Whitepaper

(8) A depreciation of 20% per year means that a full depreciation is expected after five years, a depreciation of 25% per year means that a full depreciation is expected after four years

(9) Investment includes share of AMM's itself including share of electronics and labor

(10) The ROI shown on the RGX homepage shows 281% per year which is an older number. We decided not to change the ROI on the website all the time but present very up to date numbers with this calculation. This calculation is more conservative but also some factors changed positively why the resulting ROI assumption is higher.

