CRYPTERIUM

Cryptocurrency Banking &
Cryptocurrency Platform

WHITEPAPER
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The purpose of this White Paper is to present Crypterium and CRPT Token to potential token holders in connection with the proposed Token sale. 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 purchasing CRPT Tokens.

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CONTENTS

1 CRYPTERIUM EXECUTIVE SUMMARY 5
1.1 The Future of Digital Banking and Cryptocurrencies 5
1.2 What Is Crypterium 5
1.3 ICO Overview 6
2 INTRODUCTION 8
2.1 A Brand New Cryptoeconomy 8
2.2 Comparing The World's Best Traditional Banks With A New Blockchain Bank 10
3 THE CRYPTERIUM TEAM 11
3.1 Our story: 11
3.2 Selected team members: 12
3.3 Advisors 13
4 MOBILE CRYPTOBANK 15
4.1 Mobile Contactless Payments 15
4.2 Crypterium Cryptobank Functionality 16
5 CRYPTERIUM TOKEN – CRPT 17
5.1 Overview 17
5.2 Decentralised Fuel to Power the Engine 17
5.3 Permanent Loyalty Reward 18
5.4 Additional Token-holder Benefits 19
6 CRYPTERIUM ICO TOKEN SALE OVERVIEW 21
6.1 Purpose of the ICO 21
6.2 Fixed Token Value 22
6.3 Distribution of Tokens 22
6.4 'Bounty' Structure 22
CRYPTERIUM FUTURE TRAJECTORIES 23
1 MOBILE CRYPTOBANK 2.0 24
1.1 Cryptowallet 24
1.1.1 CrypteriumSX (Smart eXchange) 24
1.2 Crypterium Cryptobank Functionality 25
2 CRYPTOBANK FOR BUSINESSES 26
2.1 QR Code Payments 26
2.2 Crypterium E-Commerce and Automated Services Solutions 27
3 CRYPTERIUM OPEN PLATFORM 28
4 CRYPTERIUM CORPORATE VISION 30
4.1 Corporate Culture 30
4.2 Product Development 30

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5 THE ADVANTAGES OF CRYPTERIUM ECOSYSTEM 31

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1 CRYPTERIUM 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[1]. 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 a 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[2].

Similarly, the cryptoeconomy and cryptocurrencies in particular are growing at a phenomenal rate. It is estimated that by 2020 the cryptoeconomy will exceed three trillion dollars[3] and that by 2022 it could be equal to 10% of world GDP[4]. 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[5].

Crypterium solves this problem with the commercial launch of its global banking transaction processing platform dubbed 'Cryptobank 2.0'.

1.2 What Is Crypterium

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[6]. 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 Crypterium Cryptobank will be a first step in satisfying this demand. It will be made available for download via the IOS or 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 Crypterium Cryptobank provides an instant processing engine for both fiat and crypto based currency transactions while enabling inter-changeability between the two. With Crypterium's digital bank customers will finally be able to use cryptocurrencies to pay for fiat based goods without transaction

[1] *Cap Gemini World Payments Report 2017*
2 IDC Financial Insights' 2014 Consumer Payments Survey
3 Insert footnote
[4] *Deloitte estimations*
[5] *Coinmarketcap*
[6] *Estimations based on current CAGR (Data from Global Cryptocurrency Benchmarking Study, Dr Garrick Hileman & Michel Rauchs)*

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limits and with low commission on any of the world's existing 42 million payment terminals and many internet stores and payment points. Crypterium's 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.

Crypterium aims to meet the banking needs of the Cryptocurrency Era.

1.3 ICO Overview

Over the past 5 years, the team at Crypterium has been building the platform on which its cryptobanking services will be launched. The next stage in our development will be the release of a cryptobanking payment platform that will in turn will its own cryptocurrency - CRPT, to feed the transactional process. This platform will be ready for the release at the end of Q4 2017 - early Q1 2018, and we aimed on developing it in future. This Whitepaper highlights the key stages and features of Crypterium payment solution and the future trajectories in which our products will be developed.

In advance of their use within the Crypterium cryptocurrency bank, Crypterium is offering pre-payment of the CRPT token. Crypterium allow for pre-payment up to 210 000 000 CRPT tokens at the initial market value of 0.0001 Bitcoin per CRPT.

Further details of the ICO and the potential benefits of CRPT ownership are provided in this Whitepaper. The binding terms and provision of CRPT Token Sale will be outlined in the Terms & Conditions provided at https://crypterium.io/ (the “Website”).

Start Date	31ST October 2017, 10:00 AM (UTC-4)
Duration of Token Sale	75 days, untill 12 January 23:59:59 (UTC-4)
Price of CRPT token	0.0001 BTC
Option for early termination	Yes, upon reaching $47 million USD (hardcap)
Technical limit to the number of tokens	300,000,000 (three hundred million)
Adjustable distribution	Unsold and unallocated tokens will be destroyed
Further token issues	No, a single token issue within the ICO
Secured methods of token purchase	Bitcoin (BTC), Ethereum (ETH), fiat payments and others
Mincap	$3 million USD, all funds will be returned
Token distribution supported	No later than 25th January 23:59:59 (UTC-4)
Token activation date	25th January (more details at 6.3)

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Extra bonuses allocation

Day 1-7: Pre-Sale Bonus (31st October – 6th November)

Allowance	+ 33% tokens	+26% tokens	+23% tokens	+20% tokens
Min. purchase	From 30 000 CRPT	From 10 000 CRPT	From 3 000 CRPT	From 1 CRPT

Day 8-28: 1st Participant Bonus (7th November – 27th November)

Dates	07/11 – 13/11	14/11 – 18/11	19/11 – 23/11	24/11 – 27/11
Period	8-14 days	15-19 days	20-24 days	25-28 days
Allowance	+15% tokens	+10% tokens	+6% tokens	+3% tokens

Minimum purchase amount - 1 CRPT

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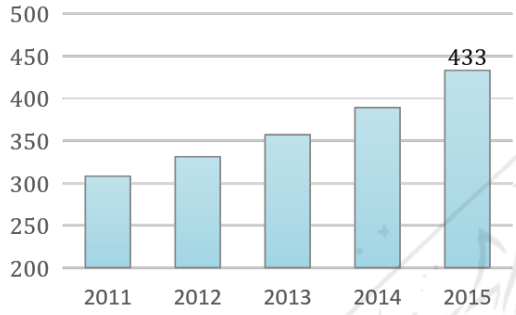
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2 INTRODUCTION

2.1 A Brand New Cryptoeconomy

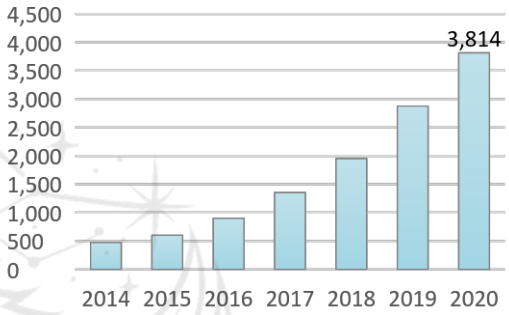
Global demand of cashless payments continues to rise at such a rate that the end of cash as the payment of choice is now a stark reality. The number of worldwide cashless transactions was over 430 billion in 2015 whilst the rise of mobile payments is expected to exceed $3.8 trillion by 2020[7].

Number of Worldwide Non-Cash Transactions (Billions)



Cap Gemini World Payments Report 2017

Forecast of Consumer Mobile Payments 2014 to 2020, Billion USD



IDC Financial Insights' 2014 Consumer Payments Survey; IDC's New Media Market Model, 2015

As people change the way that they interact with money, we have also seen the introduction of a brand-new form of money, cryptocurrencies. It is less than 10 years since the creation of the Bitcoin, the world's first digital currency that in turn built a brand new financial ecosystem called the blockchain. Today there are over 1,000 digital currencies[8], known as cryptocurrencies, and that number is growing every day.

The advantages of cryptocurrencies over traditional fiat currencies are numerous and impossible for fiat currencies to match. Today a transaction between two people in different countries can still take several days and cost the parties a significant share of the money transferred (the average cross border transaction fee is 7.45%[9]) as each party in the chain, of which there are many, requires a small margin for their efforts. This can now be done in seconds using cryptocurrencies via the blockchain for practically zero cost and more securely than ever before.

But for many people, even those with a strong interest in new technology and better ways of doing everyday actions, cryptocurrencies are still perceived as an investment instrument. The single most important step in moving benefits from the conceptual and into the practical mainstream is to enable people to use cryptocurrencies in the same way as they can any other currency, and that means

[7] IDC Financial Insights 2014 Consumers Payments Survey

[8] The website CoinMarketCap lists no less than 1,037 different types of cryptocurrencies, 626 of which have listed market caps of at least $100,000 (referenced August 2017)

[9] The World Bank: Remittance Prices Worldwide. URL: https://remittanceprices.worldbank.org/sites/default/files/rpw_report_march_2017.pdf (2017), (Accessed May 11, 2017)

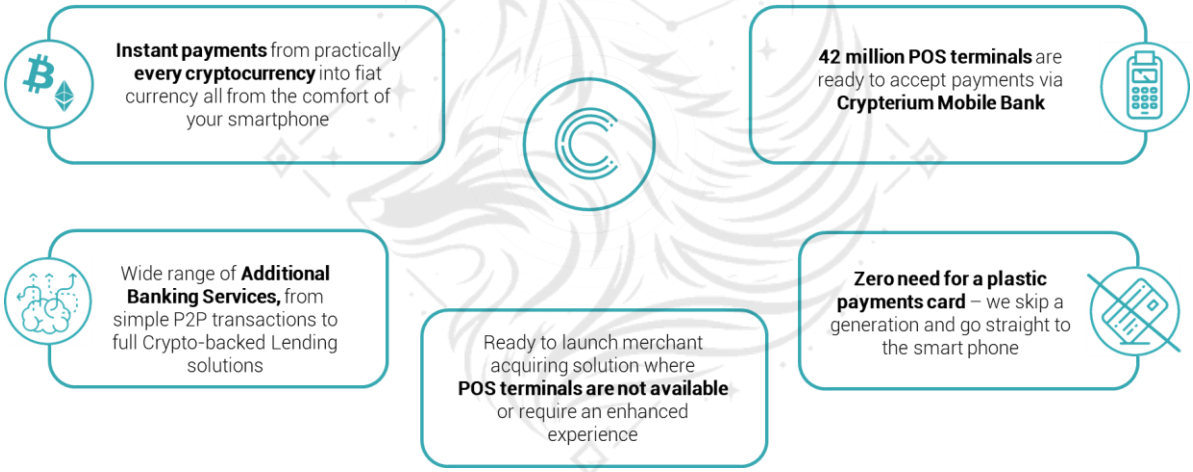
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enabling instant payments with their Cryptocurrency as if it were cash or money stored in their digital bank accounts.

Crypterium is building Cryptobank 2.0 for the Cryptocurrency era. People will be able to store, spend, exchange and later borrow practically any Cryptocurrency in the same way as they could any other currency, but in a quicker, cheaper and more secure environment than it is possible in any traditional bank or fiat currency. The Cryptobank will be the decentralized core that interlocks the restricted financial world we live in today and a future Cryptoeconomy with limitless borderless opportunities

Most of the technology for this financial revolution already exists: Apple Pay, Samsung Pay, Alipay; the world's biggest banks and payment platforms have already installed more than 42 million contactless payment terminals throughout the world, a number that is growing rapidly.

Crypterium will take full advantage of this global contactless phenomenon, but instead of using it for traditional payment cards using fiat currencies, we will use it for cryptocurrencies through personal smartphones. We can skip generations of dedicated development by some of the biggest companies in the world, and adapt that technology to the Cryptocurrency Era within months, or years, but definitely, not decades.



We anticipate that soon practically any cryptocurrency can be instantaneously transferred into any local fiat currency anywhere in the world where cashless payments through contactless payments terminals are possible and in turn can be spent. This will be done quicker, cheaper and safer than any fiat currency bank has ever been able to achieve. For the retailer, they are none-the-wiser. As far as they are concerned, they were paid in their currency of choice.

It is just a small step from cashless Cryptocurrency payments to additional banking services, such as cross border transactions and eventually Cryptocurrency based loans.

Crypterium is aimed on commence operations by delivering one of the best Cryptocurrency mobile banking payment application available today. As adoption increases, additional services are intended to be added.

The team at Crypterium has many years of experience building fintech and mobile payment solutions including the building and launch of one of Eastern Europe's most important and award winning contactless payment platform's PayQR. Further details of the team are presented in Section 9 of this Whitepaper.

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2.2 Comparing The World's Best Traditional Banks With A New Blockchain Bank

With the advent of any new market changing technology, the old world order often struggles to adapt to the new world realities. It will be no different for the current banking giants who even today cannot agree whether or not cryptocurrencies are their future or a passing phase. Whilst they decide, new dedicated blockchain based Cryptobanks will take their place in the Cryptoeconomy.

The following table provides just a few examples of the advantages of a new blockchain bank compared to any leading traditional bank.

	LEADING TRADITIONAL BANK	BLOCKCHAIN BANK
Countries of Operation	Limited by Capital and Regulation	Unlimited, There Are No Country Boundaries
Number of Clients	Limited by Systems, Countries of Operations Etc.	Only technical limitations
Scalability	Slow and Expensive	Fast and Relatively Cheap
International Transfers	Restricted, Slow and Expensive	Unrestricted, Fast and Free
Transfer Values	Restricted	Determined by The Individual
Cost of Transactions	Up To 5%	As low as 0.5%
Speed of Transaction	Potentially Several Days	Minutes/Immediate
Withdrawal of Funds	Potentially Several Days (depending on the amount)	Minutes
Control	Centralized	Decentralized
Control Over Funds	The Bank	The Client
Security	Trust to The Bank	Open Source Independently Verified Ledger
Integration of New Services And Partners	Difficult and Slow	Easy and Fast
Currency Conversion	Up To 5%	As low as 0%

It is Crypterium's strong belief that no single blockchain bank will dominate the new Cryptocurrency banking sector, but rather that a network of new innovative players will drive the market forward and that within the next 10 years, roughly the same length of time that Bitcoin has been in existence, the leading blockchain Cryptobanks will be challenging the leading traditional banks for control over the Cryptoeconomy.

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3 THE CRYPTERIUM TEAM

Crypterium's management team is made up of highly experienced digital payment professionals from some of the most innovative FinTech sectors in Europe, who have spent the better part of 10 years developing digital payment and banking solutions. This team is supported by experienced financial professionals and experienced C-level executives who have developed worldwide.

When combined, the team has attracted more than $50m of investment into fintech projects they have been responsible for creating and developing, including PayQR (Russia's leading independent contactless payment platform – see further comment below), Workle (a digital sales platform that has over 1.5m independent users selling everything from credit cards to security alarms) and Bonus Club (a digital loyalty program that is integrated inside leading publishers' web sites).

In 2013, two of the founding partners of Crypterium (Vladimir Gorbunov and Gleb Markov, see below) launched PayQR, a Cypriot based company, its goal being the establishment of a contactless payment platform that works with any smartphone and which does not rely on the current international payment systems or mobile phone manufacturers such as ApplePay. Working with QR codes, the company moved to commercial operations in 2015, and quickly became a leader in the Appstore rankings for Google Play, was named as one of the top 100 Russian start-ups one of the top 50 start-ups with international potential, was awarded the top prizes for its antivirus solutions at the Emerging Challenges Competition and best innovation of the year (2016) at the safety leaders awards in the Financial services category. Further prestigious awards and recognition continued into 2017 including Russia's Ministry of Communications selecting PayQR to showcase at the world Mobile Congress in China. Today, users of the platform include many European banks and technology leaders such as Alipay (for Russia).

3.1 Our story:

2013	Contactless Payment Technologies First company in Eastern Europe to develop mobile payments solutions based on QR-code scanning. Raised more than $1m in investments during round A.
2015	Universal tool for daily payments More than 300 integrations with the most popular e-commerce retail services delivering universal payment application for most common daily needs. Successfully raised $7m during round B.
2017	Inter-banking direct payment protocol Creation of a Direct debit protocol that is key to ensuring payment processes can be applied with virtually zero fees, enabling users to focus on their payment experience and rewards.

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3.2 Selected team members:

Steven Polyak
Managing Director, Co-founder



linkedin.com/in/steven-polyak-4443872

Global emerging markets investment banker, Managing Director for Alor Invest. More than 10 years of experience in capital markets.

Masters Degree in Economics and a Bachelors Degree in international Relations from State University of New York at Buffalo

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Austin Kimm
IR Director, Co-founder



linkedin.com/in/austin-kimm-486b5a22

Experienced CEO and international financial services strategist having created and managed companies throughout the world, including Renaissance Insurance Group Russia, a company with over 3,000 employees and almost $1bn in annual insurance premium.

Wharton Business School, CEDEP, bachelor of law

Gleb Markov
COO, Co-founder



linkedin.com/in/gdmarkov

Certified fintech expert with 7 years of successful work in the industry. Experience in payment laws and regulations in the most significant jurisdictions in the world, passing certification for compliance with the international security standard in the PCI DSS processing of payment data.

Vladimir Gorbunov
CCO, Co-founder



linkedin.com/in/gorbunov-v

Internet entrepreneur with extensive management experience for more than 10 years, founded 5 companies with a total capitalization of over $150 millions, including Workle and PayQR, included in the rating "30 under 30" according to
RBTHV

Pavel Rasputin
CMO



linkedin.com/in/pavelrasputin/

Professional with more than 10 years of experience in marketing — from B2B for one of the biggest Russian software developing companies SKB Kontur to international B2C in Aviasales and Jetradar.com

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Dmitriy Fomin

CTO, Head of Security & QA



linkedin.com/in/dmitriy-fomin-95238446/

Lead developer of payment and processing structure of PayQR (multichannel settlements, decentralized processing and server infrastructure, high load immediate settlements)
Blockchain & smart contracts developer, Fintech experienced

3.3 Advisors

Keith Teare

Executive Chair at Accelerated Digital Ventures



https://www.linkedin.com/in/kteare/

Leading figure past and present in many important companies including Archimedes Labs, Minds and Machines Inc, MedCo, EasyNet and RealNames to name just a small few, and was one of the co-founders of Techcrunch

Roger Crook

CEO of Capital Springboard



https://www.linkedin.com/in/rogercrook/

Capital Springboard - Singapore's leading peer-to-peer invoice financing platform for SMEs. Former Global CEO of DHL Global Forwarding 25 years of international leadership and operational experience

Elie Galem

CIO at Eastmore Group



https://www.linkedin.com/in/elie-galam-85414b3

Mathematician and quantitative hedge fund CIO. Advisor to tier one projects bringing Blockchain, ICO, Digital Assets & Cryptocurrencies to Financial ecosystem, including Bancor, Legolas Exchange, and Gimli

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Katrina Arden

Founder Blockchain Law Group



https://www.linkedin.com/in/katrina-arden-70260426/

Katrina Arden is a blockchain attorney licensed in the State of California, the United States. She is involved in the blockchain community since 2016 and consulted on multiple token sale projects (Cryptonomos, Giga Watt project, ICOBox, and others). Katrina is a founder of Blockchain Law Group, which is consulting in the field of blockchain technology, issuance of product and security tokens, and cryptocurrency matters

Fabio Tamburrano

Board Member Coeclerici Spa



https://www.linkedin.com/in/fabio-tamburrano-45b8a216

Global mining company with HQ in Milan, with a strong track record of corporate finance and investment management having learned his trade at companies such as Moody's, Deutsche Bank (VP structured products) and more recently in Russia as a board member of Minmet Financing (Swiss trading company) and Investment Director at Svyaznoy (one of Russia's largest mobile phone providers).

Andras Kristof

CTO at Yojee, CEO Fembusa



linkedin.com/in/dmitriy-fomin-95238446/

Fembusa Terminals Pte Ltd x - company made headlines when they unveiled Asia's first Bitcoin ATM in Singapore, the Tembusu Prime Bitcoin ATM, and founder and CTO of many groundbreaking companies in Asia.

Mike Raitsyn

Founder of ICObox



https://www.linkedin.com/in/mike-raitsyn-05b5b9b4

Experienced strategic consultant in ICO sphere.

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4 MOBILE CRYPTOBANK

4.1 Mobile Contactless Payments

Physical bank branches, plastic payments cards, your personal neighbourhood banker, are all things of the past. Now everything is digital, mobile and contactless. Crypterium 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 decentralised blockchain.

As soon as a customer downloads the Crypterium mobile banking App customers will be able to start to make transactions in current VISA, Mastercard or UnionPay 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 in ERC20 standard tokens for any product or services at any POS terminals (there are already over 42 million installed throughout the world) that are fitted with NFC (near field communication) via the Crypterium mobile banking App.

Crypterium uses NFC HCE (host card emulation) protocols to tokenise 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, 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 Crypterium's mobile banking app that changes instantly. The Crypterium mobile banking app does all of that for the customer. From any cryptocurrency that are preselected by the user in Crypterium App, perhaps in different percentages depending on their current trading value, Crypterium 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.

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4.2 Crypterium Cryptobank Functionality

Software for IOS, Android or Windows Phone smartphones 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 for example)
- Transactions in infrastructure of trade and services outlets connected to Crypterium or being Crypterium 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 Crypterium's users in Crypterium partner shops

This type of functionality is planned to be available for use in December 2017 – January 2018

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5 CRYPTERIUM TOKEN – CRPT

5.1 Overview

Crypterium token CRPT – is the core of all transactions made in Crypterium banking platform. No payment can be conducted without CRPT, its main goal, regulated by smart-contract, is to stimulate tokenholders to use Crypterium in their daily life, and to attract new users to Crypterium. The only issue of CRPT tokens will be during the ICO, which in fact is the pre-sale of Crypterium services usage opportunity. Crypterium in future is planning to list its tokens on cryptocurrency exchanges to enlarge userbase and fulfil users' expectations to provide the most comprehensive services.

5.2 Decentralised Fuel to Power the Engine

Only CRPT tokenholders are able to use the Crypterium cryptobank platform. Every time a person makes a payment, a fee equal to 0.5% of the value of the transaction in CRPT is taken from the CRPT token holder's account and is burnt as fuel for the transaction. Ownership of CRPT creates a reserve that can be used as the fuel for future transactions.

Thanks to Crypterium's intelligent proprietary technology, this 0.5% is 100% transparent to the user, carried out immediately, at current exchange rate available. In fact, Crypterium, which is based on robotic algorithms that automatically search for the optimal rate for a given transaction at any given time on all exchanges with which Crypterium has integrated, and the instant formation of a corresponding lot for the purchase or sale of cryptocurrency on the selected currency exchange, will ensure that the customer gets the best conversion rate possible for the whole transaction which will more than likely compensate for the small 0.5% transaction charge that is applied at the time of purchase. Crypterium is naturally aware of services which offer supposedly 0% commission transaction, but this is simply hidden in a wider bid offer spread (it can be as high as 10%) and ultimately the customer will receive a higher real cost than that which is applied by Crypterium. Crypterium is committed to 100% transparency with the customer and in the same way that customers are not fooled by the zero percent commission deals in fiat currency conversion, they will not be fooled by such deals in crypto conversion.

Example:



Bill, who is a CRPT token owner, wants to purchase a cup of coffee costs $10 using his Bitcoins stored inside his Crypterium Wallet. At the time of the transaction, 1 Bitcoin had a best market value of $5,000 and 1 CRPT had a best market value of $4. When Bill makes his payment, by just tapping his smartphone to NFC terminal, he will be charged an additional 0.5% in CRPT. His total is now $10.05 which in turn reduces his Bitcoins by 0.002 BTC ($ 10 / $ 5000) and reduces his CRPT by 0.0125 ($ 0.05 / $4).

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Utility comparison to purchase a cup of coffee:

Without Crypterium	With Crypterium technologies	With CRPT tokens
To purchase a cup of coffee in a regular coffee shop using cryptocurrencies, users have to top up the balance on the exchange (avg. 20 min. for BTC), exchange their currency, and wait up to three days to top up their fiat accounts. Only then can a user purchase a cup of coffee.	Users can make an immediate payment in the preferred cryptocurrency in their Crypterium wallet. However, to conduct the settlement, CRPT tokens should be used. In the event the user has no tokens, he will have to find a token holder that transfers CRPT tokens	Users just tap the standard NFC terminal with their smartphones. A small of 0.5% CRPT transaction fee is charged and burned. Transaction is done.

5.3 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 Crypterium 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 Crypterium. 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 Crypterium predominantly determines their loyalty rewards. This can be compared in many ways to the mechanics of current rewards programs like Air Miles.

As previously noted, in order to use the Crypterium platform, the person must own/spend CRPT to complete a transaction. The great the CRPT ownership, the greater the prefunding of future transactions. Therefore, Crypterium recognises 4 groups of loyalty members:

	Bronze	Silver	Gold	Platinum
CRPT Tokens owned (continuously during the month)[10]	<1	1 to 8,000	8,000 to 25,000	25,000+
% of the Monthly Loyalty Program available to each loyalty group	5%	10%	35%	50%

Individuals' rewards under the Monthly Loyalty Program (MLP) are calculated as a proportion of the volume of their transactions with others in their particular loyalty group.

[10] Crypterium reserves the right to change the category criteria in line with developing company performance.

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Example:

Merchants paid back $240 million in a given month. Applying a rate of 0.15%, the total Loyalty Program would have $240 * 0.15% = $360,000. This is in turn allocated to the various loyalty groups as follows:

	Bronze	Silver	Gold	Platinum
Share of MLP distributed to members of each loyalty group	5%	10%	35%	50%
Cash Equivalent for Example	$18,000	$36,000	$126,000	$180,000



Bill is the owner of 30,000 CRPT and is therefore a member of the Platinum Loyalty Group.

The total value of transactions during the month by all members of the Platinum Loyalty Group was $640,000, of which $8,000 was made by Bill. Bill in turn is therefore entitled to his share of the total value of transactions in his Loyalty Group $8,000 / $640,000 = 1.25%. Applied to the total value of the MLP available for Platinum Loyalty members, Bill will be entitled to 1.25% * $180,000 = $2,250. The reward will be paid by Crypterium is CRPT tokens or in ctyprocurrency at the company's own discretion.

In this way our users are motivated not just by the quality of the Cryptobanking services provided, but also by the rewards for using those services and in turn, the enhanced rewards for prepayment of the future transaction fees through the ownership of CRPT. The higher the activity, the greater the ownership of CRPT tokens, the greater the reward.

5.4 Additional Token-holder Benefits

- Priority service for all Crypterium applications and support, including early roll-out for new functionality
- Crypterium 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 10,000 or more tokens.

Period of continuous ownership of 10,000 or more CRPT	<6 months	6 months to 18 months	>18 months
# of payments per day / per month	∞ / 10,000	∞ / ∞	∞ / ∞
Value of payments per day / per month ($m)	0.25 / 1.0	∞ / ∞	∞ / ∞
# of transfers per day / per month	50 / 1,000	150 / 4,000	∞ / ∞
Value of transfers per day / per month ($m)	0.15 / 0.75	1.0 / 3.0	∞ / ∞
# of cash withdrawals per day / per month	10 / 300	20 / 500	∞ / ∞
Value of cash withdrawals per day / per month ($m)	0.1 / 0.5	0.75 / 2.0	∞ / ∞

Note that for the protection of users, individual users will be able to set their own limits which are lower than those noted above. In addition, inbound operations (updating cryptocurrency purses, the flow of funds from bank cards, cash deposits at ATMs and such like) are never limited.

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- Whilst many core functions of Crypterium 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 Crypterium payment platform for acquiring will be entitled to fee discounts of up to 50% from standard fees (exact details will depend of 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

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6 CRYPTERIUM ICO TOKEN SALE OVERVIEW

6.1 Purpose of the ICO

Crypterium is offering to potential users of its Crytpobank platform to right to pre-purchase its own CRPT tokens through an ICO event that commences on the 31st October 2017.

The CRPT token is based on the decentralised Ethereum market standard smart contract ERC20 token. Formed within the blockchain and subject to automatic execution upon the occurrence of pre-defined criteria and events and subject to certain conditions, CRPT tokens are valid indefinitely and are the property of their respective holders.

Crypterium is registered under the laws of the European Union, with its head office located in Tallinn, Estonia. It is subject to a market best practice audit in accordance with European regulations thereby ensuring total transparency and absolute accountability of all Crypterium activities including the publishing of full company statements.

Estonia has been chosen for its favourable climate of digital innovation including e-Residency. Estonia was ranked first on Bitcoin.com in its assessment of countries that support cryptocurrency development, typified by Estonia being the first country to have a Bitcoin-ATM.

CRPT tokens bestow on its holder's special product benefits including increased rewards depending on user activity. CRPT tokens are not stocks, securities or their equivalent and therefore do not create the right of ownership or disposal of Crypterium or its assets. CRPT token-holders do not exert any influence over the decision making of the company or its activities.

CRPT tokens will be distributed in direct proportion to the amount paid by the participants during the ICO in accordance with the Terms and Conditions.

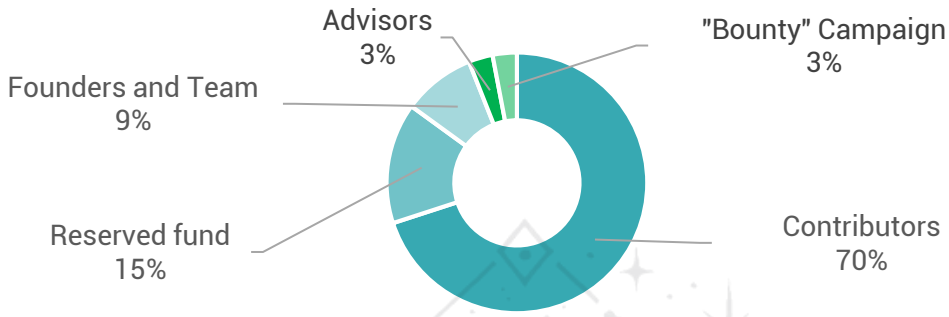
All organisation and implementation processes connected a successful Crypterium ICO have been prepared in accordance with industry best practices, supported and audited by ICObox. Additionally, Crypterium has employed the services of an escrow account Blockchain Law Group thereby applying an additional level of security and providing further confidence for contributors that the distribution of tokens will be in accordance with Crypterium's smart contract conditions. The funds received as a pre-payment for service fees through the use of CRPT tokens will remain in escrow until the distribution of CRPT tokens to tokenholders.

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6.2 Fixed Token Value

Upon launch, a single CRPT token is valued at 0.0001 BTC (due to the USD equivalent value of a single Bitcoin this is a more convenient measurement of value). For equivalent prices in other cryptocurrencies, the following exchanges will be used; Kraken, Bitstamp, Bitfinex and Poloniex.

6.3 Distribution of Tokens



- 70%: Total ICO distribution to the community
- 15%: Tokens allocated for marketing and loyalty purposes
- 9%: Reserved for the founders and management of the ICO
- 3%: Reserved for ICO partner advisers
- 3%: Reserved for marketing campaign team

15% of tokens allocated for marketing and loyalty purposes will be gradually released to enlarge userbase and to fulfil Monthly Loyalty Program.

Crypterium is focused on delivering those products that support mass scale adoption as quickly and efficiently as possible and thereby simultaneously delivering value to CRPT holders.

The final 15% of tokens will be distributed amongst the project team, advisors and the participants of 'bounty' campaign.

Crypterium ensures the existence of tokens in the ownership of people who will purchase tokens no later than 25th January 2018 (23:59:00 UTC-4), in case of providing by that people all the necessary account details. Distribution of tokens can be conducted before 25th January, but tokens will be inactive for usage and transfers. All possible functionality of tokens will be active on 25th January.

Purchase of tokens via wire transfers will be stopped in 10 days before expected date of ICO completion. People, who intended to use this transfer method should deposit all funds before that date or use other transfer methods (BTC, ETH, LTC)

6.4 'Bounty' Structure

Support is required for many marketing and expert discussion forums such as bitcointalk, the contribution of opinion leaders, banner ads and participation in selected publications that specialise in Cryptocurrency and blockchain. The exact distribution of CRPT tokens for the marketing campaign is managed by the ICO organisers and adjusted regularly, but under no circumstances will it increase beyond 3% of the total issued CRPT.

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CRYPTERIUM FUTURE TRAJECTORIES

Crypterium is a part of the fast-growing ecosystem, which constantly develops innovative solutions for users of cryptocurrencies to make their adoption easier and more efficient. The following products are now in the development and are intended to be available for the use of CRPT tokenholders in the future.

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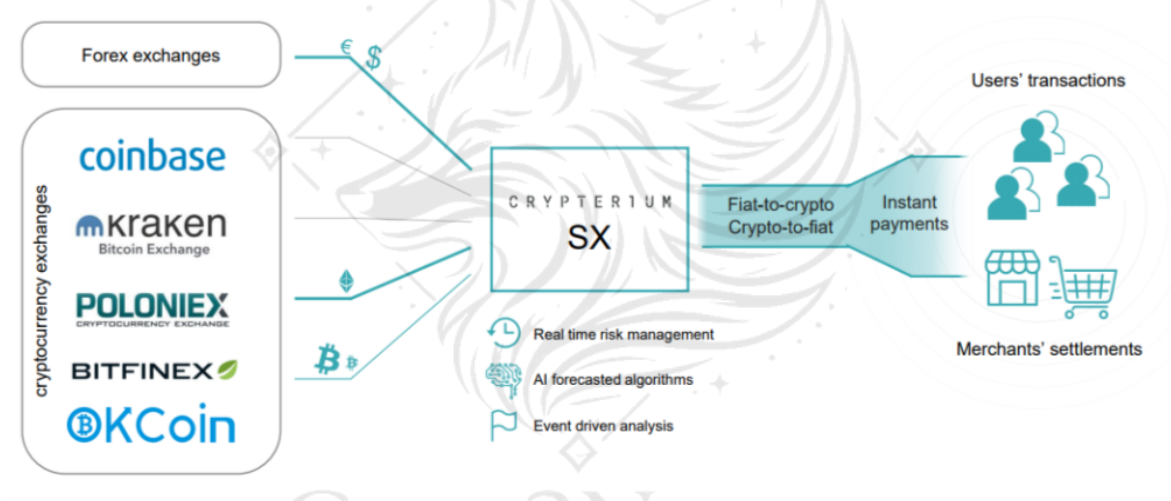
1 MOBILE CRYPTOBANK 2.0

1.1 Cryptowallet

Crypto asset and currencies are contained in digital smart contract wallets. Using currently available smart contract wallet technology, there is no need for customers to move money out of their wallets and into Crypterium, Crypterium will simply debit the appropriate amount from the wallets in the predefined manner as identified by the payment protocols, and displays the remaining balances to the customer within the Crypterium mobile banking App.

In this way, the customer will be able to see all their Crypto assets in one place, whilst at the same time being able to spend them in practically any order or mix of their desire, even if the assets are in different wallets, in the secure knowledge that Crypterium has no access to such assets unless the smart contract triggering payment takes place. Maximum freedom with ultimate security.

1.1.1 CrypteriumSX (Smart eXchange)



Crypterium's technology platform is based on algorithms that ensure the most efficient bid-offer matching across natural peer-to-peer flow as well as third party crypto-exchanges. All historical transactions are stored in a dedicated data-warehouses that continuously analyses the data to enhance risk management and identify predictive behaviours, and in turn enable Crypterium to optimize the cryptocurrency exchange process and better educate the customer on possible payment strategies, for example, it may highlight different payment mixes depending on the current cryptocurrencies valuations. In other words, everything possible is done to ensure that the customer gets the best deal.

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1.2 Crypterium Cryptobank 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 Crypto 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 Crypterium and we'll do the rest (this may incur additional charges)
- QR payments for Crypterium 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

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2 CRYPTOBANK FOR BUSINESSES

2.1 QR Code Payments

There are two equally important sides of the infrastructure required to ensure the rapid adoption of cryptoeconomy. The ability to make payments and the ability to receive payments.

The Crypterium Mobile Banking App will process the payments which in turn will utilise 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 Delhi that have a contactless visa terminal.

The Crypterium team has more than 5 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 Crypterium enabling it to reach a much wider audience than is possible today.

The Crypterium 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
- Customised loyalty and cashback programs
- Universal web-office with:
  - Transaction history
  - Payment details managing
  - Filter by currencies, payment time, shopping methods etc.
  - New store connections

Crypterium'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 Crypterium 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

Crypterium 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 cryptopayments, the merchant has to simply install a special Crypterium App on their mobile device, such as a tablet, which in turn produces QR payment codes containing all of the essential payment details. The

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purchaser uses their Crypterium mobile banking solution to scan the QR code and the payments are processed practically instantaneously.

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 Crypterium, 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.

2.2 Crypterium E-Commerce and Automated Services Solutions

Crypterium developed API enables any internet store to display a QR code, which in turn can be read by the Crypterium 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.

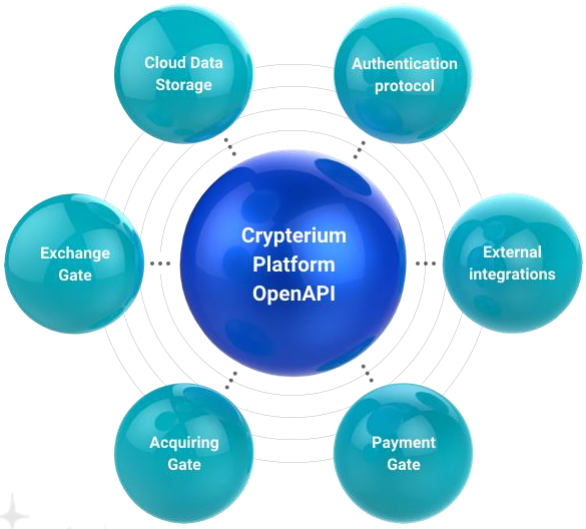
Such benefits are also being applied to offline contactless payment points where there is no need for a human interaction, for example to pay for a parking permit or paying for petrol without leaving the car.

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3 CRYPTERIUM OPEN PLATFORM

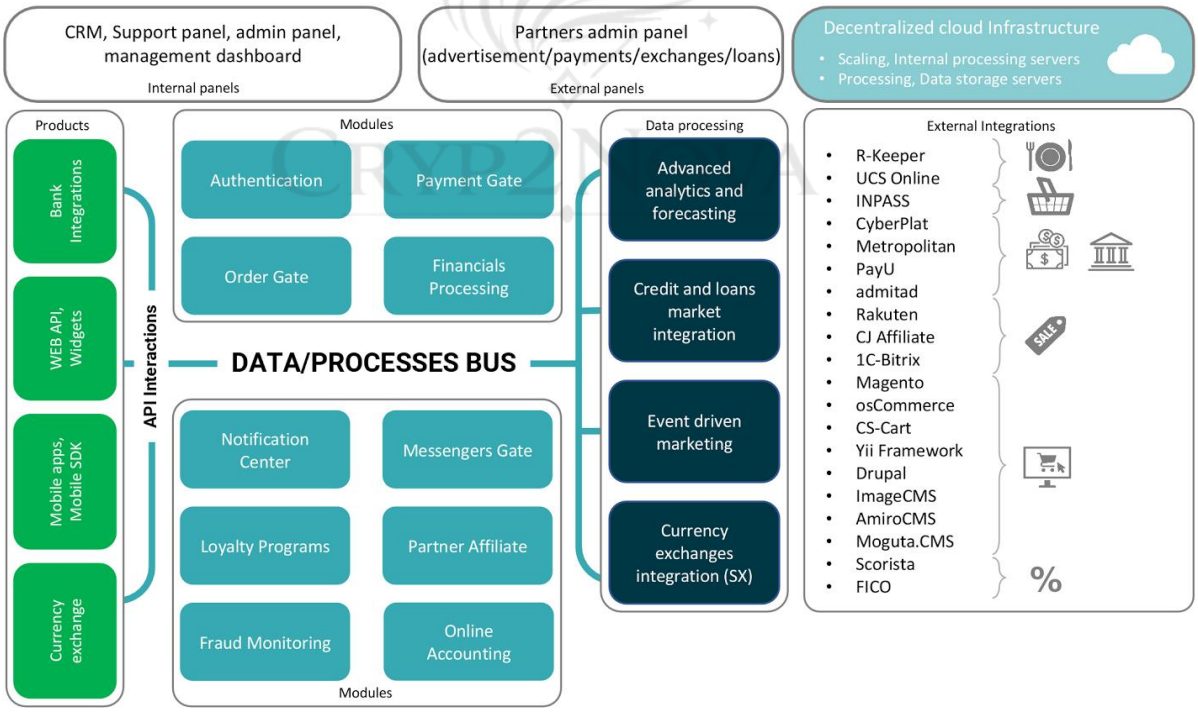
Crypterium believes that the cryptocurrency era will require a much wider development community than just a few leading cryptobanks. For this reason, Crypterium is providing an open platform that enables companies to build their own products using Crypterium API. Many of the features of the mobile platform will be made available for developers to use inside their own payment applications and solutions.



Examples of products and services that can be created and provided through the Crypterium API include:

- Cryptocurrency wallets
- Cryptocurrency exchanges
- Cryptosystems for payments on and off-line
- Loyalty programs
- Payments with the use of cryptocurrency and tokens
- Information retrieval
- Automated regular payments
- Billing
- Receive automatic notification of transactions

The following diagram shows the range of modules that will be available for developers.



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Please note that solutions described in this section are not guaranteed and may or may not be delivered in the future depending on the market needs, regulations, ability of the team to achieve best technical performance and other risks which may be known or unknown to the team now.
The Crypterium Future Trajectories are all planned developments and are presented for informational purpose only to show what the team had been working on and how the entire ecosystem may look like if developed. You should not rely on these solutions when making a purchase of CRPT tokens because these are planned to be bonus features rather than the essential functionality of the CRPT token.

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4 CRYPTERIUM CORPORATE VISION

4.1 Corporate Culture

Our corporate culture formed by the years of successful development and achievement of planned results is based on following principles. Not less than 50% of all available resources are distributed for scaling and increase of userbase, this trajectory led us to success most of time. No more than 15% of resources is intended to be used to maintain current operational activities including wages of management. The rest part of all available resources is aimed on research and development and search for new stack of technologies.

4.2 Product Development

Product development and further roll-out is naturally affected by our corporate vision. The following are considered to be our current objectives:

Crypterium Cryptocurrency Wallet with Fiat Settlements – we are planning to provide full stack of innovative technological solutions, including Processing Centre, Fiat-to-Crypto and vice versa instant exchanges, NFS payments support (only for Android devices via card emulation), integrations with third-party Cryptocurrency payment infrastructure, P2P transfers in fiat and crypto currencies. Our plans are to spend on the development in this direction at least 9 500 ETH in the nearest 2 years.

Crypterium Mobile Bank 2.0 should be the one the best payment solution in the industry including such technologies as CrypteriumSX, Native contactless payment support (Apple Pay, Samsung Pay, Android Pay and oth.), Partnership with banks or financial institutions in every region of financial activities – to guarantee stability and security of settlements. We estimate that around 14 500 ETH has to be invested to achieve our product vision.

The next big thing is Crypterium own payment infrastructure, which we plan will cover at least 25 000 POS and online stores around the world. It is rather difficult to estimate marginal expenses on every connection of the store, but it is definitely looks like we will spend at least around 50 000 ETH on building all the solutions and expanding our minimal infrastructure.

We expect to spend at least 29 000 ETH on creating universal OpenAPI for our products, developing Crypterium in the direction of providing standard banking services and developing complementary services. All rest available funds we will intend to use in R&D for such technology as Credit Subtoken Protocol and others.

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5 THE ADVANTAGES OF CRYPTERIUM ECOSYSTEM

An analysis that compares Crypterium to previously announced cryptobanks based on the intended functionality of the ecosystem once it is complete.

FEATURE	MARKET STANDARD	INDIVIDUAL COMPANIES	Crypterium
Wide range of cryptocurrencies and digital assets, not just Bitcoin.	NO	YES	YES
In addition to the standard compatibility with existing payment systems, developing its own settlements infrastructure	NO	YES	YES
Using payment systems infrastructure for card2card-transfer and withdrawal / depositing cash at ATMs, not just online and offline payments.	NO	YES	YES
For buying and selling Cryptocurrency and digital assets, as well as exchanging them with each other to develop a private market	NO	YES	YES
Loyalty Cash-back program	NO	YES	YES
Ability to use tokens of any completed audited ICO, where those tokens are traded on public exchanges.	NO	NO	YES
Payment calculations within 3rd party mobile payment services (Apple Pay, Samsung Pay, Android Pay, etc.), and not just restricted to virtual or plastic cards	NO	NO	YES
Compatibility with the payment systems of Asia (the largest Cryptocurrency market in the world) (UnionPay and JCB), not only Visa / MasterCard / American Express.	NO	NO	YES
Protocol solutions for the safe automatic withdrawal from authenticated Cryptocurrency storage and digital assets (e.g. third-party wallets), not just ERC20 standard token Standard	NO	NO	YES

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Own settlement infrastructure supports instant conversion of Cryptocurrency to fiat cash for recipients without further actions by the recipients, not just Crypto 2 Crypto and fiat 2 Crypto options	NO	NO	YES
Platform for affiliate partners to showcase their products and services including those that require/have crowd-funding support	NO	NO	YES
All product functions and features can be fully implemented inside third-party solutions, not just in proprietary solutions (including affiliate partner product scaling).	NO	NO	YES
Open platform for the build of third party solutions, including white label (full OpenAPI). Free, "sandbox", channel distribution and stand-alone products and platform extensions.	NO	NO	YES
Separate logical default platform components may be replaced by a more specialist components, including those of completed ICOs (for example, the application of a Bancor protocol or COMIT Network for certain areas of the platform).	NO	NO	YES
Growing portfolio of in-house satellite services that together will form a business network based platform (invoicing, code translation patronage, short-term Cryptocurrency value setting, digital assets for deferred payment, a P2P lending scoring logic amongst many other features).	NO	NO	YES

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Additional comparisons of benefits planned to be available to CRPT tokenholders with recently announced Cryptobanks

FEATURE	**Crypterium**	**TENX**	**TOKENCARD**
Card issue	Instantly	2 weeks +	2 weeks +
Cashback/Loyalty rewards	0.15% deducted from all merchant fees	0.1%	0%
Currency exchange/assets	CrypteriumSX	N/A	N/A
QR-payments for merchants	Yes	No	No
The cost of the transaction	0.5%	0%[11]	1%[12]
Security of assets	Hosted Wallet and Smart Contract	Hosted Wallet and Smart Contract	Smart Contract
Open platform	Yes	Yes	No
Work with AmEx, Unionpay and JCB	Yes	No	No

Date of comparison 28/08/17

[11] Actual fees are higher, as transactions are not based on the lowest exchange rate possible
[12] Actual fees are higher, as transactions are not based on the lowest exchange rate possible

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ADHERENCE TO ALL LEGAL AND REGULATORY STANDARDS

The purchase of any tokens involves a high degree of risk, including but not limited to the risks described below. Before purchasing CRPT Tokens, it is recommended that each participant carefully weighs all the information and risks detailed in this White Paper, and, specifically, the following risk factors.

A. Dependence on computer infrastructure

Crypterium dependence on functioning software applications, computer hardware and the Internet implies that Crypterium can offer no assurances that a system failure would not adversely affect the use of your CRPT Tokens. Despite Crypterium implementation of all reasonable network security measures, its processing center servers are vulnerable to computer viruses, physical or electronic break-ins or other disruptions of a similar nature. Computer viruses, break-ins or other disruptions caused by third parties may result in interruption, delay or suspension of services, which would limit the use of the CRPT Tokens.

B. Smart contract limitations

Smart contract technology is still in its early stages of development, and its application is of experimental nature. This may carry significant operational, technological, regulatory, reputational and financial risks. Consequently, although the audit conducted by independent third party increases the level of security, reliability, and accuracy, this audit cannot serve as any form of warranty, including any expressed or implied warranty that the CRPT Smart Contract is fit for purpose or that it contains no flaws, vulnerabilities or issues which could cause technical problems or the complete loss of CRPT Tokens.

C. Regulatory risks

The Blockchain technology, including but not limited to the issue of tokens, may be a new concept in some jurisdictions, which may then apply existing regulations or introduce new regulations regarding Blockchain technology-based applications, and such regulations may conflict with the current CRPT Smart Contract setup and CRPT Token concept. This may result in substantial modifications of the CRPT Smart Contract, including but not limited to its termination and the loss of CRPT Tokens as well as a suspension or termination of all CRPT Token functions.

D. Taxes.

Token holders may be required to pay taxes associated with the transactions involving CRPT Tokens. It will be a sole responsibility of the token holders to comply with the tax laws of the relevant jurisdictions and pay all required taxes.

E. Force Majeure.

Crypterium performance may be interrupted, suspended or delayed due to force majeure circumstances. For the purposes of this White Paper, force majeure shall mean extraordinary events

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and circumstances which could not be prevented by Crypterium and shall include: acts of nature, wars, armed conflicts, mass civil disorders, industrial actions, epidemics, lockouts, slowdowns, prolonged shortage or other failures of energy supplies or communication service, acts of municipal, state or federal governmental agencies, other circumstances beyond Crypterium control, which were not in existence at the time of Token sale. If such circumstances occur prior to issuance CRPT Tokens and Crypterium is unable to issue CRPT Tokens within 3 months from the projected date, the escrow agent may issue a refund at the request of the CRPT Token purchasers. The refund will be issued in the original form of payment to the same digital wallet or bank account where the funds were transferred from.

F. Disclosure of information.

Personal information received from CRPT token holders, the information about the number of tokens owned, the wallet addresses used, and any other relevant information may be disclosed to law enforcement, government officials, and other third parties when Crypterium is required to disclose such information by law, subpoena, or court order. Crypterium shall at no time be held responsible for such information disclosure.

G. Value of CRPT Token.

Once purchased, the value of CRPT Token may significantly fluctuate due to various reasons. Crypterium does not guarantee any specific value of the CRPT Token over any specific period of time. Crypterium shall not be held responsible for any change in the value of CRPT Token.

Assumptions with respect to the foregoing involve, among other things, judgments about the future economic, competitive and market conditions and business decisions, most of which are beyond the control of the Crypterium team and therefore difficult or impossible to accurately predict. Although the Crypterium team believes that its assumptions underlying its forward-looking statements are reasonable, any of these may prove to be inaccurate. As a result, the Crypterium team can offer no assurances that the forward-looking statements contained in this White Paper will prove to be accurate. In light of the significant uncertainties inherent in the forward-looking statements contained herein, the inclusion of such information may not be interpreted as a warranty on the part of Crypterium or any other entity that the objectives and plans of the Crypterium project will be successfully achieved.

Please note that the Crypterium project CRPT Token may be subject to other risks not foreseen by its team at this time.

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