JEWEL GLOBAL DIAMOND COMMODITY EXCHANGE

WHITE PAPER

TRANSFORMING JEWEL INTO A NEW FINANCIAL ASSET CLASS

INTRODUCTION

Jewel was created to eliminate the boundary between the classic trading market and the digital currency market. Based on three platforms, Jewel allows you to perform all types of financial transactions with both fiat currency and crypto currency. A transition from fiat currency to crypto coins and vice versa still presents a certain difficulty, therefore the traditional market with a daily turnover of 5 trillion US dollars and a multi-billion crypto market are still separated from each other. In this regard, difficulties are created for holders of fiat and digital assets. Our project allows our investors to manage their finances on the same platforms, which saves them from such problems.

Below we describe in more detail the products, our vision of the project, some details and ways to implement.

In today's market diamonds are a complex asset because they are not interchangeable, so there is a big gap between global financial markets and the diamond ecosystem. Unlike other precious assets, it is very difficult to have a single digital characteristic, because most of the agreements in the diamond ecosystem are private agreements. Diamonds themselves are not equal to each other in a lot of different characteristics and the very concept of liquidity is difficult to attribute to diamonds. In addition, diamond trading a priori takes place using fiat money, for traders these operations are unavailable and, therefore, there is no corresponding online platform for making such transactions. Below we describe in detail our vision of how to overcome a transition from the current situation in the diamond market to a future model of online trading with such a unique financial asset like diamonds. Thanks to the Diamond Digital Certificate technology, our Jedex platform will solve the interchangeability problem and achieve full transparency of the market value of diamonds, and we will also provide a blockchain platform for diamond trading.

The accents of consumer demand for diamonds have begun to shift in recent years. Initially, diamonds were used only as jewels, but now diamonds have become much more often regarded as investments and now the demand for diamonds as investments has risen to 5%. By 2015, the total value of the diamond ecosystem market was already 79 billion US Dollars. However, to this day diamonds remain just an alternative type of investment. There are three main factors that limit diamond trading.

1) Lack of a single price since none of the diamonds can be considered interchangeable due to the fact that there is an incalculable quantity of characteristics for each individual diamond.

2) Lack of transparent prices and certain standards in the diamond ecosystem.

3) Lack of liquidity, which makes it almost impossible to sell diamonds at a real market price.

In order to the product can get a Diamond Digital Certificate, it is necessary to consider two aspects: the transition of a diamond from a unique asset to an asset that has an exact market value, and the creation of a trading platform that will allow the trade turnover with diamonds. Thus, our project faces several questions: how to ensure the transparency of the value of diamonds on the market? How to organize bilateral diamond trade turnover? How to ensure the principle of interchangeability of diamonds?

JEWELLERY MARKET

The Jewel platform will be a one-stop-shop in its essence, in which it will be possible to carry out any transactions with both fiat and crypto currency. Purchase, storage and sale in any equivalent will be available to users, and the whole Jewel system will be provided with Jewel coin, which has a real market value, is designed for two platforms and built on Etherium. Jewel coin holders will have several advantages that are described in this document.

PROJECT BASIS

Transition of diamonds to a new asset class
Diamond exchange for Retail Customers
Market potential=350 billion US Dollars
Patented algorithm already available on the Web-site
Powerful team - powerful results
Public company financing

DIAMOND MARKET STATUS QUO

Such category of assets as diamonds always brings a stable income to investors, and diamonds have a steady value, which makes them an attractive asset for traders. In conditions of the financial market volatility, precious stones have an order of magnitude more stable prices, although they bring less income for certain periods of time.
By the way, today it is very difficult to sell diamonds at a fair price, since the modern diamond ecosystem involves buying jewelry from individuals by jewelry stores at a low price and all agreements are based on the B2B system.

BLOCKCHAIN PROJECT

Based on the blockchain technology, which involves a peer-to-peer payment network, the Jewel project involves unlocking diamonds as an investment, and also solves the problem of pricing stones. The blockchain technology, solving many accounting issues, is currently becoming widespread throughout the world and is used in many important industries.
Jewel uses the blockchain system Etherium for its needs, which uses all Turing programming languages to implement smart contracts.

The main task of the Jewel system is to solve the problem of the gap between the traditional diamonds ecosystem and the modern financial markets. All world diamond holders who want to invest or liquidate their diamond assets through the most transparent transaction process will be merged on the Jewel platform.
The Jewel's foundations are the blockchain technology, the patented technology, the Jewel coin and the Diamond Digital Certificate

STANDARDS AND TRANSPARENCY: JEDEX

Jewel takes on the most difficult task of those who prevent the transition of diamonds into the category of financial assets. Systematization of gemological data, the establishment of transparency and consistency in the diamonds assessment. The Jedex machine learning

algorithm will use data on global diamond reserves, it will be able to predict the results of the assessment and carry out a statistical analysis of pricing.
Using Jewel, investors and traders will have access to analytical data, thanks to which they will be able to make informed decisions when making investments. The data accumulated by Jewel will be continuously analyzed and used for the pricing algorithm. The Jedex predicted diamond assessment accuracy of 99.5%

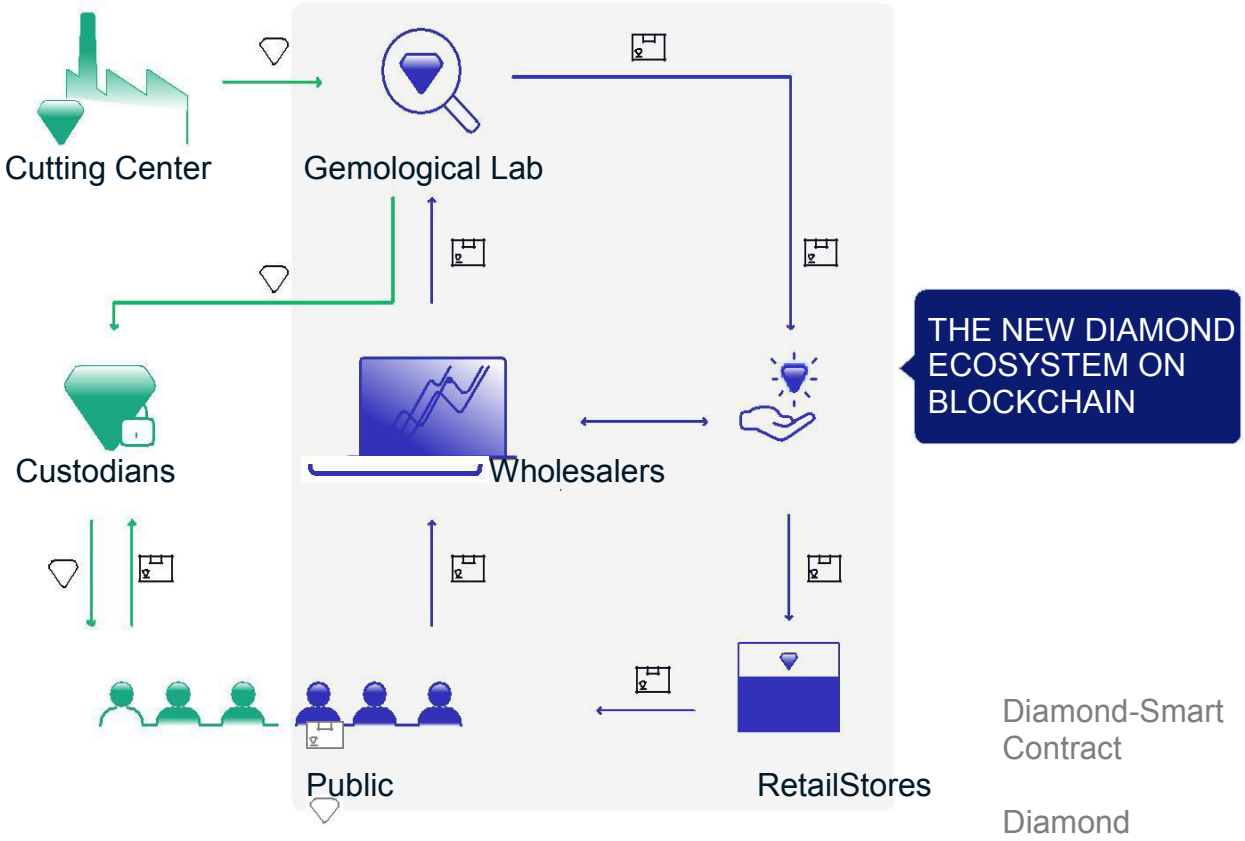
Diamonds by their theoretical market value

DIGITAL DIAMOND CERTIFICATE

A private owner or dealer who wants to dispose their holdings can create a smart contract using Jewel Diamond Digital Certificate onboarding. This contract is a financial offer for the sale of diamond.
After confirmation of all requests, diamonds are returned to the custodian with a GIA Certificate.
At the end of the approval, it is created and sent to the digital wallet to the owner of Diamond – Smart Contract. Further, the owner can optionally list his contract at JEDEX Exchange or sell it himself.
At JEDEX Exchange, buyers confidently purchase a certified diamond, which is confirmed by the GIA.
Blocking technology
On the Diamond Digital Certificate creation is the BLOCKCHAIN technology

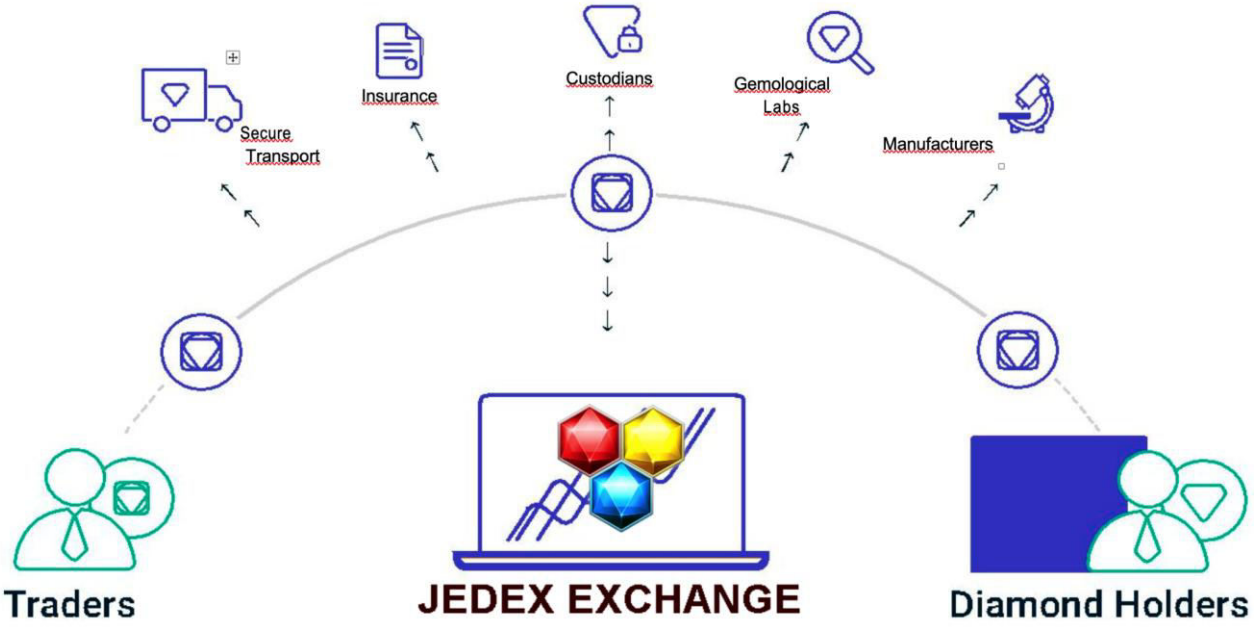
At the initial stage, an intelligent contract will be created, using a simple interface, which will contain all the information (gemological data and additional information) about the underlying asset, that is, a diamond.

According to our calculations, during the blockchain-based JEWEL ecosystem development, the diamond ecosystem will let in “Precious contracts” as a new type of diamond trading.



The finished diamond moves to the registration stage, to the gemological laboratory.
In the laboratory, after examining the diamond, a certain classification is assigned to it, after which the laboratory lists the diamond for the Diamond Smart Contract using the open JEWEL platform. This report includes the following points:
GIA ID registration wallet, transaction history and their data, to create a mechanism for interchangeability.
After the contract creation process, the diamond is sent to the custodian. Digital diamonds trading will continue until the precious stone stops at the final stage of its purpose, that is, it will either be a financial asset on the JEDEX exchange or be purchased as a commodity. The final stage is the exclusion from the contract block Diamond Smart Contract.
All useful aspects of the Diamond Digital Certificate:
selling stones in the ecosystem avoids transportation and insurance costs;
All transactions through the JEWEL coin will have no commission;
Diamond origin and transactions are accompanied by documentation;
Trades will operate reliably and quickly and also without the participation of unauthorized persons;
The Blockchain technology allows you to work as transparently as possible, because everyone can collect and study data as well as analyze.

Traders who want to purchase diamond or diamond derivatives based on the Diamond Smart agreement are required to purchase JEWEL Coin for further transaction.
Payment by JEWEL coin allows the calculation to the following suppliers:
Gemological laboratory, guardian, insurance, transport.
For traders, opening short positions can use JEWEL coin to cover collateral and borrowed funds.
Traders' portfolios can serve as collateral, to obtain the JEWEL Coin loan.
In the very first year, the JEWEL's active users are expected to grow, since the JEDEX Exchange will open new markets by expanding its own activities or licensed software for local companies.



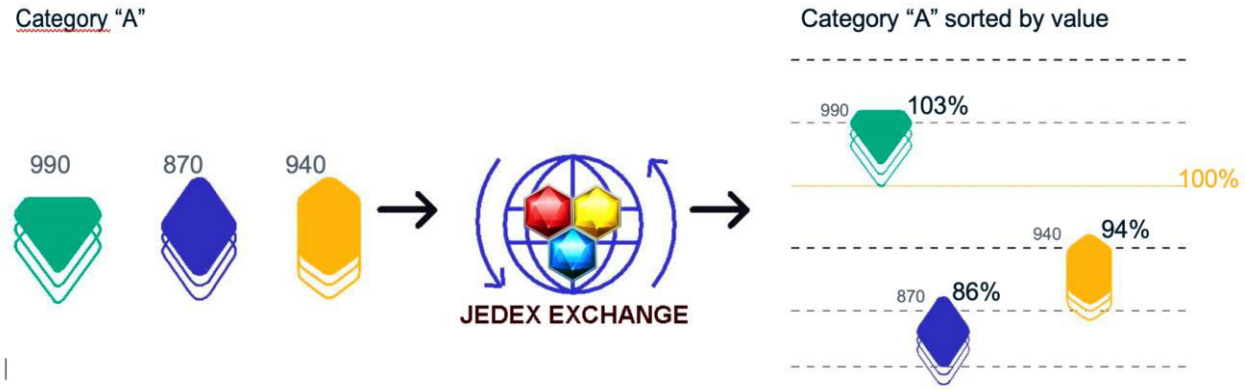
Over time, the JEWEL coins on the JEDEX Exchange will expand to the diamond ecosystem.
A document on the history of diamond trading, existing contracts and transactions will be kept on a block – chain, which will allow full transparency. Diamond Smart contracts will be on sale on the JEWEL exchange or on the P2P basis. This item will be a decentralized, interchangeable trading platform where you can trade professionally without much knowledge in the diamond trading.
Diamond supply
The Trader who has the Diamond Smart can order the physical delivery of the diamond. The delivery process begins by changing the status of the Diamond Smart Contract to "Delivery Process". As soon as the owner receives the stone, the Contract assumes the status canceled by the "intellectual contract".

JEWEL. FINANCIAL

JEWEL is a transparent and convenient market for traders who want to invest in diamonds as new financial assets. JEWEL makes it possible to regulate financial requests in accordance with the existing jurisdiction.

TRADING CATEGORIES

JEWEL decided to combine the Blockchain technology and the JEDEX algorithm to create CATEGORY TRADING. This decision was made due to the fact that there are obstacles to turning diamonds into an asset class — the inability to create homogeneous products.
Jewel creates a landmark for each category. In its category, the diamond will receive an assessment of the deviation from the special mark specified in Diamond Smart. The JEDEX algorithm allows checking deviations from the Contract.



By the example below, you can see that JEDEX calculations provide a reasonable market price for a diamond.

JOINT INVESTMENT

JEWEL will offer its users the option "SHARED INVESTMENT". As soon as the diamond goes to the auction, the owner of the stones can optionally sell them as a single contract or under partial agreements. In this way, you can create several intellectual contracts that represent a partial ownership of a reinforced diamond.

SHORT SALES

To start short trading activities on the JEDEX exchange, a trader sends a short sell order. After approval of the order and if the bid/ask price is consistent, the action will be executed. JEWEL will use the automatic filing of the credit company to quickly confirm the request.
Upon completion of the short sale, the Credit Company will provide the Diamond Smart Contract seller against collateral and borrowed funds. Credit and collateral fees are held daily.
Credits for traders
The diamonds that are in storage can serve as credit security.
Users can receive a JEWEL COIN credit based on portfolio liquidity. The interest will be set according to the general interest rates.
Traders will receive from the JEWEL full information about possible financial offers without requiring knowledge of diamonds.

The following are examples of a methodology where traders choose either an investment range or an investment category. JEDEX rating range from 0.599 to 0.0999 with a higher rating representing more valuable investments.

In addition, the Jewel system provides an assessment of investments along with the Jedex recommendation through access to financial and gemological information

RAPID DEPLOYMENT CAPABILITY ASSESSMENT

We have evaluated all available projects for rapid deployment based on the blockchain, as well as we have compiled a list of the most suitable for us projects. According to the idea, Jewel platform should meet all functional and non-functional requirements that may arise from what has been described above.

FUNCTIONAL AND NON-FUNCTIONAL REQUIREMENTS TO JEWEL SYSTEM

The personal identity verification procedure of each of the parties concerned is very important for the diamond trading platform to fully interact with users. For the Jewel

platform, order and the absence of errors (due to which there can be a loss of tokens or an erroneous classification of diamonds) in intellectual contracts are important.

As for the non-functional requirements for Jewel, with invisibility of the system integrity, its security, multitasking performance, ease of use and high level of automation are very evident.
Jewel's architecture is focused on readiness for modification, applicability and feasibility of processes. Modification implies regular updates and coordination of current systems in cases of changes in legislation.

The Jewel system security is ensured by preventing unauthorized access to system maintenance, while opening up all financial opportunities for authorized users. The Jewel system security sets for itself such tasks as integrity and confidentiality. A rigorous analysis of security systems is crucial for the successful development of our Jewel system.

The blockchain technology usage implies a high level of automation when using the application. The platform allows to ensure the simultaneous performance of a large number of processes indicating its flexibility and functionality.
The Jewel concept implies the ease of the system usage, any user can very easily avoid errors when trading precious stones. If the errors are still made, the user can correct them, and the Jewel application interface will help prevent them in the future.

USED RAPID DEPLOYMENT SYSTEMS

In order not to waste time, we studied all the current rapid deployment systems and came to the conclusion that Civic is the most suitable solution due to its simplicity and functionality, as it only requires a mobile phone number and user email address during the identification process. That is, the user, unlike Residence (Estonia), is not obliged to disclose all his personal data. This makes it possible to avoid unwanted government interventions. Identification when using the Civic system still has a number of limitations as experience shows the importance of the authenticating user specifying authentic personal data. Therefore, association with other existing services is possible in conditions of Civic limitation. “Verify” can be considered such a service checking the data, and in particular, government documents for authenticity.

Despite existing shortcomings, the Ethereum standard applies to Smart Contracts, although in most cases it is not suitable for such applications as it does not reflect evidence of transactions. In addition, it can be hacked due to lack of security measures. Therefore, for Smart Contracts, a system using the verification of conducted transactions with price details (PoS) may be considered as a profitable solution. A suitable example is the Otum system, which is already successfully using PoS.
There are several limited systems to evaluate the Smart Contracts. The Securify 11 system performs the official verification of Ethereum Smart Contracts as a beta version. This system provides an online example that reflects transaction records, sudden Ethereum flows and unreliable entries in security operations. We can also mention such systems as Populus13 and Embark-framework12, but they still seem untenable for formal evaluation and verification.

Some of the latest scientific publications reflect the problem to write the secure Smart Contracts. The unstable combination of reliable and unreliable programs is caused by the

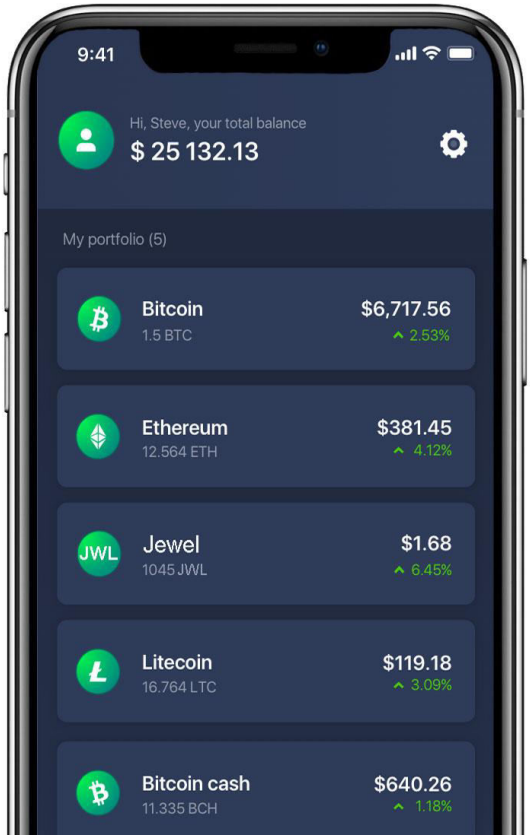
fact that pseudonyms and programs use third-party generally available program methods. To test and analyze functional correctness and security, Solidity uses the translation of Smart Contract codes into a functional programming language. Due to this, the number of errors is reduced due to the failures and errors of coding and cryptography associated with Etherium are affected.

On the basis of the blockchain for mass data storage, there is the Interplanetar File System (IPFS), which is an open source protocol. IPFS addresses these blocks by hyperlinks as a model for blocks storage with high-performance datasets. In fact, one computer stores many links to blocks that are distributed on several other computers. Data for blockchain applications is stored on these computers in the form of immutable links.

A suitable candidate to process the diamond trading data is BigChainDB, which is essentially a decentralized database with blockchain characteristics. This database can be used to create and move digital assets, track reliably completed transactions and implement decentralized control. For the Jewel system, its characteristics play an important role for other blockchain-like systems such as Etherium, Otum or IPFS.

JEWEL.FINANCE

Jewel Finance is a technological cryptographic wallet that exists to integrate blockchain technology into traditional online investments.



Crypto Investors. In connection with transition from traditional bank accounts to cryptographic wallets, there has been a tendency to increase cryptocurrency turnover. But cryptocurrency usage still does not negate the need to use fiat money.

New investors should invest in large and stable cryptocurrencies, such as Bitcoin and Etherium, and then buy another cryptocurrency for this cryptocurrency. This is a complex and expensive process. In addition to the above, there are investors who use both cryptocurrency and traditional fiat money.

Jewel Finance implies a convenient and simple wallet that makes it very easy to perform actions with both fiat currency and many crypto-conversions (Jewel, Bitcoin, Etherium etc.), as well as a technological exchange point that allows you to transfer fiat money into cryptocurrency and vice versa. Jewel coin holders can also make transactions at half the commission per transaction. These transactions can be made anywhere in the world to pay for any product and any service. In addition, Jewel's wallet is so universal that any means will be interchangeable and make all transactions with fiat and cryptocurrency so simple that the user will not even feel the boundaries of the transition to use of a particular currency.

FEATURES OF JEWEL.FINANCE

Jewel Finance is a platform that performs fast and simple blockchain transactions around the world. Modern investors understand that the future of the financial market is cryptocurrency, but not all of them are knowledgeable and experienced enough to avoid mistakes. Jewel Finance platform will allow them to avoid these mistakes and they can easily and quickly manage their fiat and crypto-finance.
Jewel Finance can be used for the following actions:
- To exchange fiat money for cryptocurrency and vice versa;
- To convert cryptocurrency to fiat money and withdraw it;
- To buy fiat and cryptocurrency;
- To keep fiat and cryptocurrency;
- To make payments with fiat and cryptocurrency;
- To exchange fiat and cryptocurrency;
- To pay 50% less commission using Jewel coin

MARKET TRENDS AND PROSPECTS

In the modern world, there are global forces seeking to introduce diamonds into the financial market. Such forces focus on financial contracts or B2B markets. The diamonds transformation from a class of goods into a class of financial assets hypertrophies the volume of investments, because only 5% of the diamonds purchased are considered as investments. The global diamond trading market is estimated at about $ 90 billion.
Compared to the global gold market (700 billion), investments into gold is much higher (about 80%)

By shifting financial barriers, diamonds can be turned into the most desirable assets for investors, thanks to which the investment market in diamonds can grow to $ 350 billion with an 80% -20% ratio

TEAM AND PARTNERS OF JEWEL

Jewel Project was created by a group of professionals in the Internet sphere, diamond industry, financial technologies, online marketing.
Financing was provided by TechFinancials.Inc. holding 92% of the Jewel project through a loan and equity investment.

An experienced team of TechFinancials.Inc, one of the leaders in development of financial trading technologies, together with the Jewelpay Group team developed and created the Jewel trading technology

2017

Company founded

50+

Employees

PARTNERSHIPS

Google facebook

JEDEX EXCHANGE

JEWEL ROADMAP

2017
The JEWEL Group is established

January 2018
Partnership with Rapaport

March 2018
Google and Facebook partnerships

19.09.2018 - 14.10.2018
Private presale

15.10.2018 - 13.11.2018
Crowd presale

14.11.2018 - 15.12.2018
Crowd sale

15 December 2018
Obtaining License for crypto payments and exchange

8 March 2019
Listing on exchanges

20 March 2019
Jewel.Finance wallet launched

10 May 2019
Jedex exchange launched

August 2019
Jedex iOS and Android apps launch

September 2019
Airdrop

October 2019
Perfomance improvement JEDEX

November 2019
Marketing campaign

January 2019
Top 20 in Coinmarketcap

JEWEL COIN SALE SCHEDULE

1	2	3
18.09.2018- 14.10.2018	**15.10.2018-13.11.2018**	**14.11.2018- 15.12.2018**
private presale	crowd presale	crowd sale

Jewel coin falls under the classification of a utility coin not a security coin. Utility coins are designed to be utilized on a specific platform or app not as an investment. **Jewel coin** was designed to be used on our platforms to offer a seamless trading process.

JEWEL COIN DISTRIBUTION

Crowdsale	70%
Company	20%
Bounty	5%
Team (locked till 1 Jan)	5%

Total supply 300 000 000 coins.
All unsold coins will be burnt.

1JEWEL = S1
during sale

500 JEWEL
minimum purchase

CONCLUSION

We present the Jewel trading platform, which will transfer diamonds from the category of goods to the category of financial assets. In this paper, we have tried to explain the status quo, which shows the main factors hindering the use of diamonds as financial assets. Despite the fact that each stone is unique, the main hindrance is the lack of transparency and liquidity of transactions, since these agreements are mostly private transactions. But after the launch of Jewel, this problem will be solved and the market for investment in diamonds will start to grow very quickly. According to our forecasts, it can reach a capitalization of $ 350 billion.

We tried to set out our vision of the long-term perspectives of the eco-system of diamonds using the blockchain technology supported the information with examples that also use digital payment systems.

To ensure price consistency and transparency of agreements in market conditions, indicators are regulated by Jedex which takes into account several factors, such as data on global diamond reserves, prices for them, etc. Currently, Jedex is already available for 0.3, 0.5 and 1 carat round diamonds.

Ensuring uniform trading brought the problem of diamonds interchangeability, but creation of Smart Contract using the Jedex algorithm reduces this problem to zero.
We believe that in the foreseeable future new trading mechanisms which will be based on the principles of blockchains will be developed. These tools will allow to reach the maximum transparency in trade agreements that are relevant to diamonds. By trading Diamond-Smart agreements on the Jewel or P2P platform, all transactions will be stored in the blockchain, so the two-way diamond sales process will reach a whole new level.

Despite the fact that Jewel has positive aspects of its deployment, it is worth remembering that Jewel is a decentralized platform form with a complex business architecture, and all components of this system should not generate duplication conflicts in the processes occurring in it.