



Artificial Intelligence in finance

**ANTIBANK**

**WHITEPAPER**

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## ***INTRODUCTION***

Blockchain technology has revolutionized the world of finance. A whole new Blockchain World has arisen, which can exist separately from the current pre-Blockchain World and parallel to it.

The Pre-Blockchain World is the Past, the Blockchain World is the Future, and entering into this Future is very hard for a man from the Past, just about how an ancient Neanderthal man would have found it difficult to fit into the modern world.

Blockchain World is incomprehensible and even dangerous for beginners, but promises a better life, provides more opportunities for development, for earnings, for spending, etc.

Hurry up to catch it, the train is leaving, the Blockchain World is moving very fast accelerating and soon will overtake the Pre-Blockchain World so that it will be impossible to catch up for those who were late in time to jump on the departing train.

Our company gives people the opportunity to enter the world of the future through P2P-crediting in new digital currency, i.e. in crypto-currencies.

These crypto-currencies appeared only about 10 years ago, and they are not supported and are not emitted by any official organizations, such as banks or states. Nevertheless, the Crypto-Currency World without any help of states or banks or even with their strong counteraction is still spontaneously growing and developing at unbelievably fast pace, faster than the Internet has been developing in its time.

Now the Crypto-Currency World is on the rise, the main crypto-currencies have skyrocketed in price, although their overall growth is accompanied by temporary falls. It is hard to buy crypto-currencies now because of their high cost and price fluctuations.

Our company provides people with the opportunity not to buy, but to take crypto-loans, and to take them easily, without collateral, under the guarantee of a digital AB-passport (AB-ID) and with small interest.

The name of our platform is Antibank (AB), because it is designed to replace banks and similar organizations of the old Pre-Blockchain World for the new Blockchain World.

Our crypto-currencies unsecured P2P-loans platform will serve for many people as an entrance ticket to the new marvelous crypto-currency Blockchain World.

## ***PRODUCT INFORMATION***

### ***USAGE EXAMPLES***

Our product is an AB system, it issues an AB-token. What can you do with an AB-token?

It can be exchanged for other crypto-currency assets, it can be used to get monthly bonuses just doing nothing, just holding it in a wallet. With the help of the AB-token one can start crypto-currency trading, buy mining equipment, etc.

### ***CRYPTO-CURRENCY TRADING AND MINING***

Investments in crypto-currency (in mining and trading) lately, despite the risks and fluctuations, gave really fantastic income due to the growth of their value. For example, in early 2017, the price of Ripple coin was \$0.009 and by the end of the year the coin was worth more than \$3. In other words, on the whole, the rise was about 33 thousand percent (33014%).

## ***EVERYDAY LIFE***

Yes, the AB-token opens the door to the world of crypto-currency, into the world of the Future, but it can also be used in everyday simple life.

Here are possible examples from everyday simple life, when money can be urgently needed, in which cases you can easily change the AB-tokens to money in an e-currency exchanger or on a stock exchange (such as Binance, for example):

- delays in expected money receiving, wages or pension,
- a tooth became very painful, and it must be urgently treated,
- an unexpected holiday of a dear person who urgently needs a gift,
- a monthly fee for a mortgage is pending, and the money is spent on unexpected spending,
- a freelancer working on the Internet, the computer has been broken down, and payment for work has not yet been received, because the work is not finished yet,
- you need to buy a new dress for an unexpected must-attend celebration,
- a good voucher, which should be urgently redeemed,
- in a trip abroad, unforeseen expenses arose,
- or you need to buy a car (broke your own), make repairs (the apartment was unexpectedly flooded), you need money for a wedding (unexpectedly fell in love), etc.

Money is needed urgently, but where to go if you don't have some kind and wealthy neighbors, friends or relatives? There are several possibilities here.

With the help of the table below let's compare the banks, microfinance organizations and Anti-Bank from the point of view of a person who urgently needs money.

## ***DIFFERENCE IN CHARACTERISTICS OF THE SERVICES FROM THE POINT OF VIEW OF A BORROWER***

<b>Loan</b>	<b>Bank</b>	<b>Microfinance institutions</b>	<b>AntiBank</b>
How soon you will receive the money	in weeks (in average)	in minutes (in the best case)	in seconds (possibly)
%	average	very big	small
summ	big	small	any
availability	hard	average	easy
collateral	depends	depends	not needed



## ***PROBLEM DEFINITION***

**The problem is, if to speak very briefly, the bad conditions for credit and, in general, the difficulties for people to join the Blockchain World.**

## ***MICROFINANCE INSTITUTIONS***

In usurious 'microcredit-microfinance' organizations ('loan sharks') the percentage is not just 'big', but is VERY big (just 'wild'): it's about 1% a DAY or even more. This is a really predatory percentage, when a person must return many times more than he took! This is a bad way for people who want to take out a loan.

And speaking about the banks, they have not only bureaucratic red tape, long terms of consideration, reluctance to deal with small amounts etc., but also they need certificates of income, guarantors etc., and, in general, they need in-depth discussion.

## ***BANKS***

Banks in principle are arranged unfairly, and people have been aware of this for a long time.

Back in 1922, about 100 years ago, Henry Ford said, "It is well enough that people of the nation do not understand our banking and monetary

system, for if they did I believe there would be a revolution before tomorrow morning”.

Thomas Jefferson, the president of the United States in 1801-1809, one of the authors of the Declaration of Independence, 200 years ago said,

«...I believe that banking institutions are more dangerous to our liberties than standing armies.... The issuing power should be taken from the banks and restored to the people, to whom it properly belongs...»

Generally speaking, modern banks outlive its usefulness, they are essentially no longer needed by people, and therefore must give way to a new organisation.

Banks are, in terms of credit, intermediaries between people who want to borrow, and people who are willing to give credit. And why should not people take and give loans directly from each other, without the mediation of current banks and without collateral?

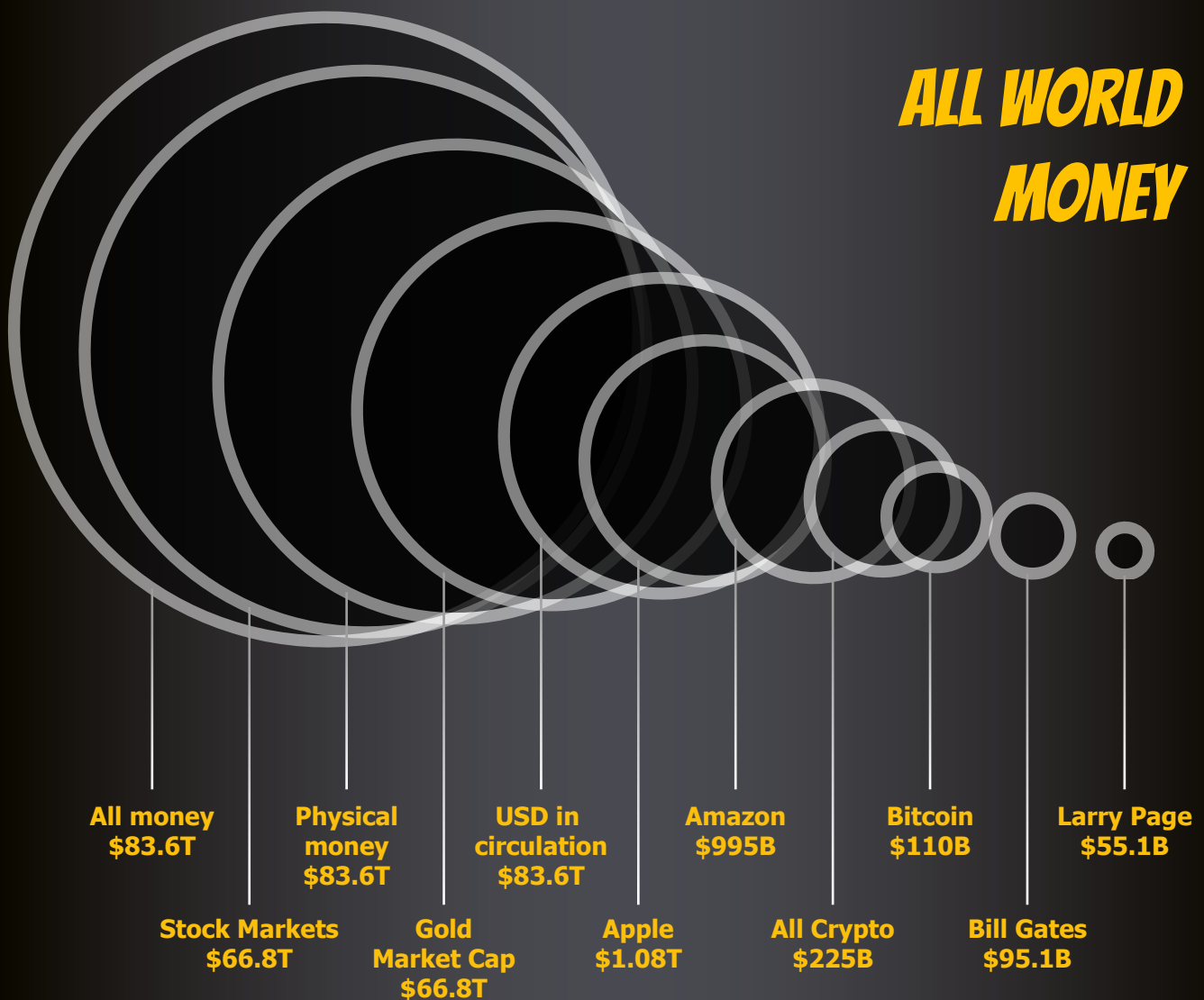
## ***WHY DO PEOPLE NEED BANKS AT ALL?..***

Well, in their time, in those ancient times when there was no Internet and crypto-currency, when the money was metal (gold or silver, for example), there was no way to do without banks.

They reliably protected gold and other metal money from robbers in their underground safes, produced paper money as representatives/substitutes for gold money, accumulated financial resources collected from many people and then put them all together into one big enterprise for the common good.

But, for some time now, money are not gold or silver. Essentially, they become computer information, that is, they are just numbers stored in a table in a bank computer, and paper money became representatives of these computer money, and not gold ones, as before.

## ALL WORLD MONEY



## ***NON-COMMODITY STATE MONEY***

In previous times gold had to be mined somehow, and in its mining there must be invested a lot of effort and money, and after that the government could make some gold coins, which the government always had not enough. But now, generally speaking, it is enough to press a few keys on the state bank computer keyboard by one of the clumsy fingers in order to create as much money as government wants, trillions, quadrillions or pentylonioms of dollars or, say, piastres without any effort and in any quantities even without using printing machine.

And the governments of many developed countries take this opportunity to emit the 'keyboard money' out of nothing without any effort and use them as they wish without any control from society or practical limitations imposed, for example, by the amount of gold available in the world.

## ***DESPOTISM IN MONETARY POLICY***

With its keyboard money the governments do what they want. They give money who they want, they take money from anybody they choose. They demand payment of debts or forgive debts, depending on their wishes, and the banks behave the same way, having received money from the governments.

If earlier it was difficult for states and banks to take the gold money out of the hands of people, now when people keep money in bank computers, it is enough to press a few keys on the bank computer keyboard to block anyone's bank accounts or even to take away from any person his or her money. If your money is put into a bank, then you do not in fact control

them, meaning you do not really own them.

States allow banks to take money from ordinary people (for example, on suspicion that they are 'criminal money') and at the same time hand them over to bankers and corporations, to their 'friends' who, perhaps, 'as friends' give government officials some bribes-kickbacks, and the government does not demand repayment of the emitted money from the banks, 'forgive' debts to them, although ordinary people often are not forgiven under the same circumstances.

In general, there is a good chance that the current worldwide financial and economic crisis is the result of outrageous despotism of states and banks in the monetary policy, as they distribute money not according to the laws of the market or in all fairness, but by connections and bribes.

For example, on October 3, 2008, US Congress approved a program to save troubled assets (TARP, Troubled Asset Relief Program), that is, to save bankers and corporations by giving out money to them, firstly, it was a plan for 700 billion, and in the end the sum reached \$ 3.3 trillion according to The Wall Street Journal.

And on October 8, 2008, the insurance giant AIG, when its shares fell by 25%, took the second loan from the Federal Reserve for \$ 37.8 billion, when the first its loan was 85 billion. That is, the government transferred to this giant corporation more than 120 billion dollars irretrievable.

If the money were gold, this could not be done, but effortless money from nowhere easily allows you to help 'friends', bribe their employees, etc.

For example, in 2008, the total amount of bonuses paid to Wall Street employees was approximately \$20 billion, and the average bonus to one employee was approximately \$100,000.

On the basis of uncontrolled money created by a computer keyboard a structure has emerged consisting of governments, banks and corporations that work only for its own enrichment and for retaining power and deceive people with statistics claiming that the economy is doing well.



## ***FALSE ECONOMIC STATISTICS***

Banks are speculating everything they can. For example, they buy stocks and the stock prices skyrocket for the joy of officials and politicians who tell the people: «Look, we are good in managing the economy, the economy is growing, because the stock prices are skyrocketing.»

But without all these state money created by a pushing keys of a computer keyboard, corporations' shares probably would have collapsed a long time ago as it was in the Great Depression, if not worse.

And corporations with their over-inflated stocks and keyboard money from the government often produce something that people do not really need. Corporations do not need to sell their products in order to get money for them, the corporations can get money from their friends from the government and banks. And although these unnecessary things produced by corporations lie somewhere in warehouses without any usage, the things are still taken into account in the statistics of 'economic growth of production' to please bankers and politicians. If one wants to see these unnecessary things that are produced, but not used, one can look at empty cities in China, in which practically nobody lives (for example, the Chinese city of Ordos in Inner Mongolia).

Besides, the production of something material takes up less and less space in the world economy. For example, look at the largest 5 global corporations that together cost more than the UK GDP (3 trillion USD): Apple, Alphabet (Google), Microsoft, Facebook and Amazon. Ten years ago, only Microsoft was in the Top-5, and all other places were occupied by oil producers and processors or commodity giants (for example, Exxon Mobil, BP, and General Electric). Out of the current Top-5, only Apple produces something tangible, and the rest produces something – god knows what, and if they disappear, the world will not notice it, but if oil producers disappear, the world will immediately notice the absence of oil.

In other words, what do Google, Facebook, Amazon produce? If they suddenly and without a trace disappear, will this change the world? After all, there are many similar companies that simply take on their functions, right? A week or a month after their disappearance they will be forgotten. Why, for god's sake, do they allegedly cost billions, if not a trillion dollars? for what reason? Isn't this a wild misunderstanding?

## ***HUMANITY ON THE VERGE OF CATASTROPHE***

The current unnatural situation can not last long, people should soon realize the unnaturalness of the situation, despite all the efforts of propaganda to convince people by means of their dishonest statistics that everything is supposedly going well, because bankers, corporations and officials are well managing the economy.

But people see that they are getting poorer, and bankers, corporations and officials are getting richer, and this is mainly because the bankers and officials emit money for themselves and shamelessly use this privileged position.

What can be said about the world order, in which 1% of the population owns more than 80% of the wealth, and this share of rich people increases with time?

The entire current unnatural world order will soon collapse in the very near future, if not to take any measures.

So that together with the current world order, the entire humanity would not die, all the responsible people of the planet must take urgent measures to take away from the states and banks the possibility of monopoly and uncontrolled release of money and dispose of them arbitrarily.

Crypto-currencies are a mechanism which is set up and ready to destroy all money-issuing centers, all the current states and banks, in order to transfer the issuing of money directly into the hands of the people themselves. Yes, money can now be issued directly by the people themselves, without the mediation of all that 'representatives of the people' in parliaments and governments, who allegedly care for the welfare of the people, but who in reality think only about themselves, and leading people to poverty and planetary catastrophe due to their selfishness.

## ***SUMMARY***

In short, now ordinary people do not have convenient way to use money, nor a convenient opportunity to borrow money on credit quickly, easily, for a low interest rate, in a convenient currency. Because, if we consider the existing possibilities, usurious microcredit organizations lend money with a high interest rate, and banks provide loans bureaucratically slowly, in relatively large amounts, and not for a low interest rate.

Besides, for loans state money are used, which are under the uncontrolled power of greedy and conscienceless governments. Such loans are unreliable, unless you are a friend of government officials, a bank or a corporation.

It would be wrong to say that the state money are very reliable and stable, as they often experience strong fluctuations in their rate.



## ***PROBLEM SOLUTION***

**There is a new high-tech way to solve the problems of the current financial system, a way of creating reliable and good money and loans.**

### ***REPLACEMENT OF BANKS WITH OPEN SOURCE SOFTWARE***

The bank should be replaced with a computer programming algorithm based on the technology of blockchain, and this computer blockchain-bank algorithm should be under the supervision and control of all depositors of this blockchain-bank users put together, and not under control of one owner who is able, for example, to close the bank or freeze any account of any depositor.

Instead of the current banks with human participation, it is this computer algorithm of blockchain-bank without human participation that should do everything that banks with do now, i.e., to issue currencies, and to keep depositors' money in their accounts, to transfer money from one account to another, etc.

This is an objective trend, the dying of banks in which people work. Banks without any external compulsion, spontaneously, by themselves, based on their own interests, open automatic branches completely without any employee. For example, in 2017, Bank of America opened 3 such branches. Customers can automatically get a car loan there, a mortgage, a credit card, etc.

In China, China Construction Bank opened one such branch without employees in 2018.

The world trend leads to a future in which banks will be fully automated, all managers and employees will be replaced by computers, although bank managers resist this.

A computer algorithm for the complete replacement of banks with human participation with public software has already been implemented and is working now, and for this it was necessary to replace the usual money with crypto-currency created with the help of blockchain technology.

The crypto-currencies are money on an account of a bank in which there are no human employees. The crypto-currencies are distributed among all the computers of the crypto-currency holders connected into a net, and each separate crypto-currency has its own crypto-currency bank.

This crypto-bank has no central computer from which it would be possible to block someone's account. This crypto-currency bank can not be closed by turning off or shooting by a machine gun its central computer. It is not a subject to the states, therefore the states hate it fiercely, they are deadly afraid of it and shamelessly lie about it, intimidating and confusing people with simple or imaginary problems of crypto-currencies.

But good, unsecured risk-free loans can be issued, generally speaking, only in the crypto-currency.

## ***DIRECT LOANS***

People should give each other loans directly, without the intermediation of banks or usurious microfinance organizations, only with the help of software that replaces intermediaries.

## ***SUBTOTAL***

Our company replaces banks with direct loans software, we build an open and fast automatic system for unsecured risk-free mutual loans with the help of crypto-currencies.

## ***IN SHORT, ANTI-BANK IS A BLOCKCHAIN PLATFORM THAT ALLOWS***

- both people and businesses
- from all over the world,
- quick and easy,
- without a collateral and without a risk,
- with the help of crypto-currency,
- take and lend money to each other directly,
- without a mediation of banks and similar organizations,
- without their predatory conditions, unreliability and red tape problems.

In general, for people and organizations in developed countries it is prohibited without the permission of states to accept deposits from people or to lend money to each other. Thus, states dishonestly protect banks from competition, providing them with the monopoly on the financial market.

If people all over the world, regardless of their geographic location, give money to each other bypassing banks, then this will be a real revolution in banking.

Our smart contract will provide people with a revolutionary opportunity in the sphere of lending, provide people with openness, safety and security of credit without collateral and without risk.

## ***ADVANTAGES FOR USERS***

The most important thing in the platform is that, thanks to our smart contract, people are given the opportunity to enter the Blockchain World of the Future and to start using the Crypto-currency, the money of the Future, as well as quickly and openly receive and give loans to other people directly, bypassing the banking and corrupt tax system without any additional corruption fees, but with bonuses for participating in the AB system.

People themselves will establish credit interest rate, assessing the situation on the market. Those who will be raising the interest rate up too much will be avoided by people who want to take loans.

There comes a new era in lending, and soon bank credit will be a thing of the past, thanks to our smart contract.

## ***ADVANTAGES FOR BORROWERS***

- ✓ The opportunity to enter the blockchain industry without investments,
- ✓ to get P2P-credit quickly, simply, conveniently,
- ✓ to get P2P-credit without collateral,
- ✓ to obtain a P2P-loan under fair conditions (interest, terms, amounts),
- ✓ to get P2P-credit all over the world, 24 hours a day, 7 days a week.
- ✓ to get an ability to start a new credit history thanks to the ID-passport of the AB-system,
- ✓ to invest in crypto-currency trading, in mining equipment, etc.
- ✓ to get user-friendly interface: a personal cabinet with tabs, a multi-currency wallet.

## ***ADVANTAGES FOR CREDITORS***

- ✓ The opportunity to receive risk-free loans,
- ✓ to receive bonuses just for holding of AB-tokens,
- ✓ to choose suitable loan conditions: interest, terms, amount, risks.
- ✓ Thanks to a smart contract, the terms of the loan can not be changed.
- ✓ Unlike bank deposits, the system gives Investor the safety of the funds and access to direct lending, protected by a smart contract.
- ✓ 100% return of that type of crypto-currency, which was given on credit.
- ✓ The AB-system of Scoring allows to estimate the Borrower impartially.
- ✓ The AI AB-system helps the Investor in repaying overdue loans.

## ***ADVANTAGES FOR HOLDERS***

A holder is one who buys our crypto-currency and keeps it in his wallet for a while. For this, the holder will earn some bonuses.

## ***MARKET REVIEW***

### ***DEFINITION CLARIFICATION***

P2P-lending is lending without the intermediation of banks or similar organizations on Internet sites where lenders and borrowers themselves are looking for each other. Such P2P-loans are also called «marketplace credits».

Most P2P-loans are unsecured consumer loans with interest. But there are other types of loans, for example:

- ★ crowdlending – mutual crediting of the business, where investors receive a return on investment, for example: Funding Circle,
- ★ crowdfunding – investment for remuneration from the company, for example: Kickstarter, Crowdcube,
- ★ crowdinvesting – lending for a stake in the company, the income appears due to dividends and a growth of the value of the share. (Seedrs)  
Also includes joint real estate titles (Tessin)
- ★ etc.

## ***THE REASONS FOR 'P2P-LOANS' ('MARKETPLACE LOANS') EMERGENCE***

P2P-loans began to develop after the global financial crisis of 2008, when, for example, Lehman Brothers big bank with assets of about \$ 500 billion went bankrupt. And Merrill Lynch bank with assets of \$600 billion was absorbed by another bank. People stopped trusting banks as they believed them before, and, as a result, the volume of traditional bank lending began to decline. On top of that the bank interest on deposits has dropped dramatically even to negative values, and lenders stop depositing money into banks, and banks will soon have nothing for giving out a loan.

P2P-platforms have begun to displace banks from the market of loans.

In addition to reliability, which is better than bank reliability, and interest rate that is less than bank interest, P2P platforms also have:

- ✓ convenience of service (you can do everything sitting on the couch, here you need just a few documents),
- ✓ less time to receive money (for banks sometimes it takes weeks to approve a loan, and on P2P-platforms, the issue can be solved in minutes),
- ✓ high probability of receiving money (banks often denied credit).

The above benefits can also be found in Internet microfinance organizations, but they are characterized by predatory interest rates for borrowers (several percent per day, which is hundreds and thousands of percent per annum), so that the place of microfinance organizations will also be occupied by P2P platforms offering more favorable interest.

In general, we can say that the future of loans without collateral is Internet 'P2P-loans', they will take the place of banks and microfinance organizations.

## ***HISTORY***

The first service of P2P-crediting appeared shortly before the crisis of 2008, as if someone was feeling the approach of this crisis.

In 2005, a P2P-lending service called 'Zopa' was launched in Britain.

In 2006, 'Zopa' got a follower in the US, 'Prosper' company.

In 2007, the Lending Club company appeared, which became the largest P2P-platform with the volume of loans extended over 35 billion dollars.

If talking about the history of investments in the industry, then we can



mention Lending Club company as a good example, in 2015 it sold shares for approximately \$1 billion, and its market value was estimated at around \$5 billion. In China in the following 2016 Lufax company raised more than \$1 billion and was estimated at \$18.5 billion.

In 2010, the market volume was \$425 million, \$5.2 billion in 2013. Please note: the growth rates in these years were more than 100%. In 2014, the total volume of the P2P-lending market was estimated at \$9 billion. Over the next 4 years, from 2014 to 2018, the volume of this market grew by about 10 times, the average annual growth was about 25-35%.

## ***PRESENT STATUS***

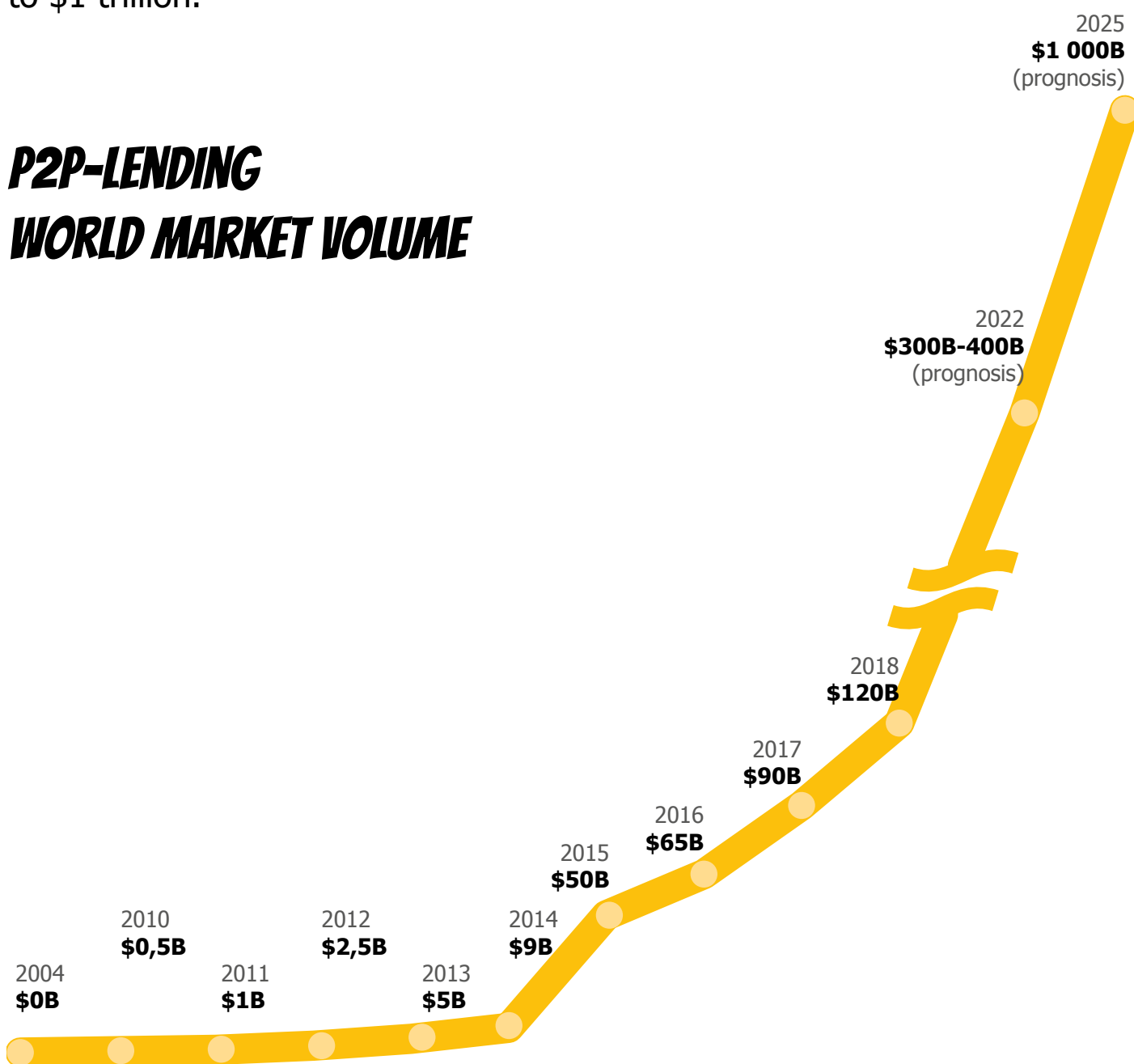
In 2018, this market is estimated at about \$120 billion (although, of these, 80 billion are in China). At the same time, there were about 130 million transactions, and the average loan amount was about 1 thousand dollars.

If one try to imagine the size of the market very roughly and approximately, then one can imagine that 100 million people take out 1 credit a year for 1 thousand dollars each.

## **PROGNOSIS**

By 2022, it is expected that the size of the market will reach about \$ 300 billion and 200 million users. In 2025, the market is expected to grow up to \$1 trillion.

### **P2P-LENDING WORLD MARKET VOLUME**



## ***DRIVERS AND IMPEDIMENTS OF THE P2P-LOAN MARKET***

The number of clients and, accordingly, the amount of P2P-loans, will grow, as customers from other sectors of credit market will be transferred to the P2P-loans market:

- from the banking sector,
- from the microfinance sector.

Besides, there will be new customers, who have never had an opportunity to take a loan.

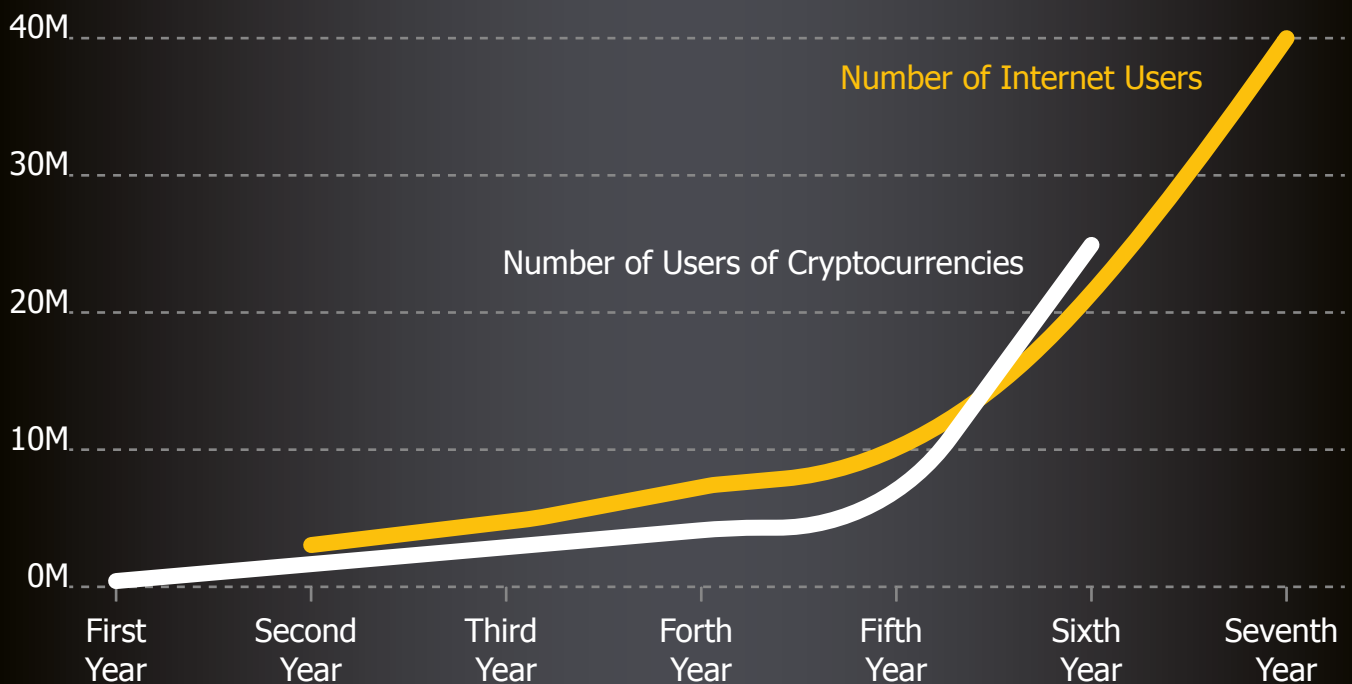
## ***NEW CLIENTS FROM THE INTERNET***

According to the World Bank, about 2 billion (38%) of the adult working population around the world can not use official financial services. 2 billion future customers – sounds good?

With the Internet, you can take credit much easier than without the Internet. Of course, there is such an obstacle that the Internet is not yet available for everyone.

But the number of Internet users is increasing very quickly, and in the very near future the coverage of the Internet will reach almost 100% of the total population of the Earth.

***GROWTH IN THE NUMBER  
OF INTERNET USERS OF CRYPTOCURRENCIES  
IN COMPARISON WITH THE GROWTH  
IN THE NUMBER OF INTERNET USERS***



## ***FUTURE CLIENTS FROM MICROFINANCE INSTITUTIONS***

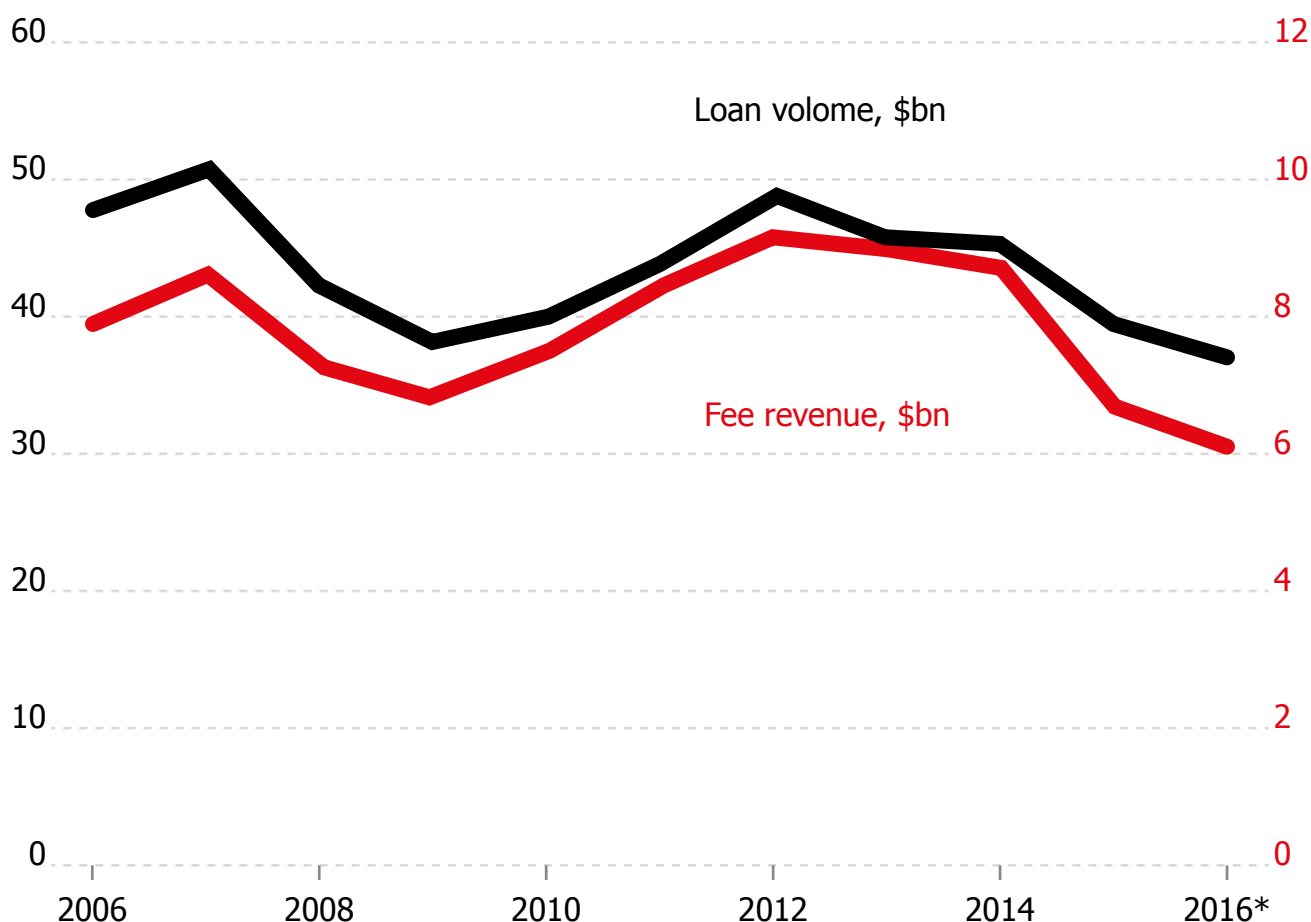
If we talk about usurious loans of microfinance organizations, whose clients will soon switch to P2P-loans, then such loans are divided into, for example:

- payday loans (for weeks)...
- installment loans (for months)...
- etc.

In total, payday microloans, for example, in the US are given about 40 billion a year, and now these payday offices Americans have more than McDonald's restaurants, and the microloans are used by about 10 million people (2% of families) in the US.

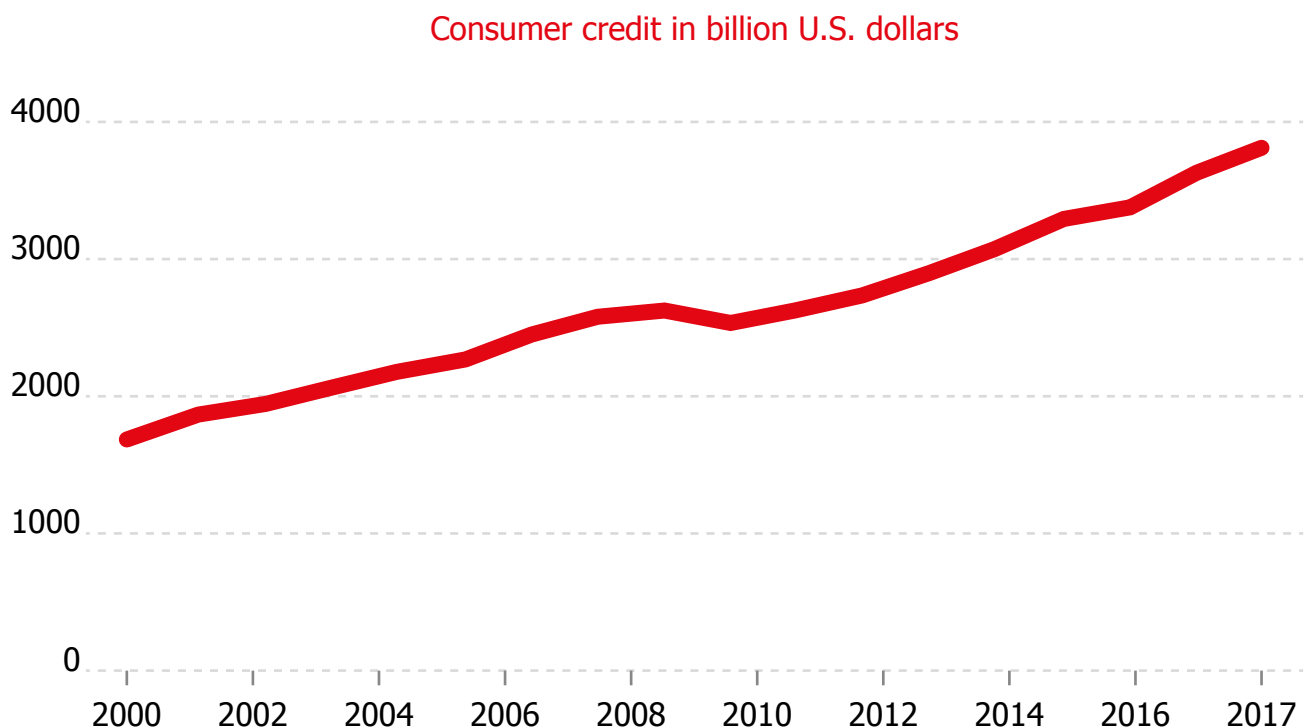
To get a very approximate overall picture, one can imagine approximately 10 million people taking each month several hundred dollars loan. For all these people will be more convenient to switch to P2P-loans.

## ***US, PAYDAY LENDING INDUSTRY***



## **VALUE OF CONSUMER CREDIT OUTSTANDING IN THE UNITED STATES FROM 2000 TO 2017 (IN BILLION US DOLLARS)**

This statistic presents the total consumer credit outstanding in the United States from 2000 to 2017. In 2017, the consumer credit outstanding in the U.S. amounted to approximately 3.84 trillion U.S. dollars.



Consumer credit in the US as a whole is growing and has grown to about 4 trillion dollars, out of which P2P-loans are only about \$40 billion. This is a big space for the growth of the P2P-credit market.

## ***FUTURE CUSTOMERS FROM BANKS***

The bank loans market and banks in general also lose their customers.

According to some surveys in 2016, 40% of respondents (out of 55 thousand people in 32 countries) said that they gradually cease to consider banks their main provider of financial services and already use non-banking services meaning used them at least during the last year, and 20% said they are going to use them in the near future.

And banks lose not only borrowers, but also creditors, because they give creditors a small interest. In some cases, the interest on deposits is negative, or, in other words, not the bank pays people if the people give money to banks, but, vice versa, the investors pay the bank if the bank keeps investor's money.

For example, the negative rate for large deposits in euros was introduced by Switzerland's largest bank UBS.

Clients of the bank with accounts exceeding 1 million euros received a warning that they will have to pay the bank 0.6% per annum for the storage of funds.

If they disagree with the new policy, they are invited to close accounts and refuse services.

This is an absurd situation, making the existence of banks meaningless, when it comes to loans. If there are reliable P2P platforms, banks generally do not have any chances to survive if it comes to loans, because all the creditors will leave the banks, and the banks will not have any money to issue loans.



## ***ABOUT THE SPECIAL ROLE OF CRYPTO-CURRENCY IN P2P-LENDING***

Crypto-currencies are the driver of P2P-lending growth, as they allow P2P-lending to overcome the obstacles that banks place for it.

Large opportunities for lobbying of the largest banks lead to the fact that under the pretext of protection from unqualified investors, state authorities are strengthening control over peer-to-peer lending, which limits the range of potential creditors by dozens, or even by hundreds of times. The very idea of such P2P-lending is under threat.

For example, because of harassment of the US Securities and Exchange Commission (SEC), the leaders of the American peer-to-peer lending market Lending Club and Prosper were forced to suspend their activities for a while in 2008, and the British Zopa company then left the US market.

Crypto-currencies will allow to bypass severe restrictions of the states, because the Internet on top of which they are built, depends little on the states. Crypto currencies are not subject to national laws..

Crypto-currency technologies appeared after P2P-crediting technologies and are now experiencing explosive growth. They are now expanding at about the same pace as the Internet at the beginning of its journey. If we compare the pace of the development of the Internet and the crypto-currencies, we can see that the number of users of crypto-currency is growing even faster than in its time the number of Internet users has grown at the time when the Internet has just appeared.

## ***SUBTOTAL***

The market of P2P-loans (mutual loans on the Internet without collateral, which are issued to receive interest from the amount) is growing very rapidly and growth will continue in the future.

Now this growth is constrained by the fact, for example, that the Internet is not yet available to 100% of the world's population, but the achievement of this milestone is not far off.

Another difficulty for our platform is that the crypto-currencies are still at the very beginning of its development path. But one can always benefit from difficulties, and here those will benefit who will be the first to appreciate the opportunities that are opening now.

We are sure that the P2P-loan market using crypto-currencies will soon attract most, if not all, of the clients of greedy and unfair banks and micro-finance usurious organizations. Also, the market of P2P-loans will attract those new customers who, having first accessed the Internet, will think about getting a loan.

We do not doubt that with the participation of our Anti-Bank platform and crypto-currency technologies, the P2P-loan market will continue to grow steadily and rapidly, and it has a great scope for further growth and development.

## ***TECHNOLOGY***

### ***SMART CONTRACT***

We are developing our own technology for implementing a smart contract. It makes possible complex interactions between the lender and the borrower.

The smart contract algorithm generates the AB-tokens in accordance with the amount of the Base Currency received, that is, when the Base Currency (BTC, for example, or ETH) is transferred to the smart contract, the user receives an equivalent number of AB tokens, which the user subsequently can dispose of as she or he pleases.

### ***FROM THE INVESTOR'S POINT OF VIEW***

If the user decides to become an Investor, then his Base Currency on the smart contract will be frozen until the Borrower, who has borrowed the AB-tokens, does not return them to the smart contract.

After the return of AB-tokens to a smart contract the Investor receives the Base Currency on his wallet plus interest on the loan in AB-tokens, which he can then convert to any currency that is convenient for her or him.

## ***FROM THE POINT OF VIEW OF THE BORROWER***

The borrower, having received a loan in AB-tokens, sells his tokens on the exchange or on the free market. In order to close its loan, the Borrower will need to buy back on a stock exchange or in the free market AB-tokens in the amount of the loan plus the interest specified in the original credit application.

Having received the AB-tokens and then transferring them to the smart contract, the Borrower repays the loan, and the previously frozen Base Currency returns to the Investor's personal wallet.

If the Borrower does not return the loan, the funds are unfrozen after the loan expires, and the Borrower will have a negative entry in his ID-passport of the AB system.

# ***ARTIFICIAL INTELLIGENCE (AI)***

In the AB system, artificial intelligence is used for scoring and assistance in repaying loans.

## ***HISTORY***

The concept of artificial intelligence (AI) appeared more than 60 years ago and is described as the development of computer systems capable of performing tasks that usually require a participation of the human intellect such as image processing, game playing, decision making etc.

However, this technology did not appear in the world of financial services until the early 1980s. After a short period of 'great illusion', it sank into oblivion, but now, it seems, is gaining popularity again.

According to CNBC, about \$700 million was invested in AI just for 2014-2015.

"We see AI impacting every aspect of financial services industry from very large banks to fintech startups. This is a very positive thing as it will lead to lower costs and better value for the end customer," says Gopi Suvanam, director of G-Square Solutions, an AI-driven products company servicing financial institutions.

"Artificial Intelligence is already adding significant value to business. An estimate by Gartner suggests the value added by AI to business can be as high as \$1.2 trillions ..

## ***REASONS FOR THE REVIVAL OF THE POPULARITY OF AI IN THE FINANCIAL INDUSTRY***

The two most important reasons for the revival of the popularity of AI are the availability of powerful computer resources and the availability of a huge amount of computer data.

### ***THE AVAILABILITY OF LARGE COMPUTING POWER***

Achievements in the field of hardware and software have been amazing in recent years, so now computers are capable of providing unthinkable computing power. Computer systems with a large capacity have become much cheaper. Now companies have computers that are much stronger, but for much less money.

Today, large computer capacities and information, which 10 years ago were available only to large banks and institutional structures, are available even for a small start-up.

### ***GROWTH OF INTERNET DATA VOLUME***

The widespread use of social networks, mobile smartphones, tablets and so-called «wearables» (devices incorporated into clothing or worn on the body), along with progress in the field of sensors and their installation in smart cities, the emergence of the already well-known Internet of things (IoT), all these generate a huge amount of data or so-called big data, which is a large field for artificial intelligence.

## ***SCORING***

Scoring is the calculation of the borrower's rating, or in other words, it is the calculation of a quantitative measure of confidence in the borrower.

- ✓ Scoring begins with the collection of information from various sources.
- ✓ The extracted information is processed (structured) by special algorithms for «big data» processing.
- ✓ Structured information is sent to the Information Processing Center, where it is analyzed with the use of machine-learning and serves as a basis for calculating the credit rating.

## ***COLLECTING INFORMATION ABOUT INDIVIDUALS***

### ***INFORMATION SOURCES***

First of all, these are data from public sources, data from credit bureaus.

You can also use, for example, data from suppliers of electricity and utilities, mobile operators, data from social networks, etc.

The necessary information about individuals can be divided into three large groups, each of which includes a set of indicators:

**Personal:** passport data; marital status; age; presence of children, their age and quantity.

**Financial:** the amount of the basic monthly income; place of work, a position; number of jobs changed; period of employment in the last company; presence of encumbrances (debts, outstanding loans, alimony and

other payments); own housing, car, bank accounts and deposits.

**Additional:** additional sources of income, which is not documented; the possibility of providing a surety; other information.

## ***COLLECTION OF INFORMATION ON LEGAL ENTITIES***

Legal entities are more difficult for assessing their credit-worthiness, because they have more opportunities to hide objective data.

The necessary information about legal entities can be divided into two large groups:

- 🔒 Intangible (business reputation, market position, expert opinion on financial and economic sustainability, etc.).
- 🔒 Tangible (coefficients of liquidity, provision of own funds, objective indicators of financial stability, profitability, turnover of funds, etc.).

The decision to grant a loan is made based on the results of two independent evaluations.

## ***ALGORITHMS OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING IN SCORING***

### ***ALGORITHM OF STRUCTURALIZATION***

The database of the AB system receives information that is not structured by individuals and organizations.

For further processing of information, it needs to be streamlined and structured so that the AI algorithm can correctly analyze it and draw conclusions.



The algorithm of information structuring is based on the comparison of the main indicators in the databases, and on the basis of the obtained coincidences this Algorithm constructs a 'portrait of the borrower'.

## ***ALGORITHM FOR RATING CALCULATIONS***

First, an ordinary scoring card is taken, which is developed on the basis of normal procedures and usual data that characterize the level of income of the borrower: education, work, neighborhood, etc. Based on this data, an initial portrait of a «good» borrower is formed.

Then our system adds new parameters, which are probably rarely used in practice in other organizations.

For example, you can analyze how a person behaves when completing a questionnaire.

If this person uses a copy-paste to insert a name and address, then he may be suspected of dishonesty, because often scammers behave like this, they open many applications at the same time. Or the person several times fills and erases the name of his position and salary. All this behavioral information is very important and should be taken into account.

Also, for example, the smartphone brand from which the application is filled is important. It's one thing if this is the iPhone of the latest model, and another thing, if it's the cheapest and oldest smartphone, in case an applicant writes that he has a high salary and position.

Gradually, statistics accumulates. For example, with such and such parameters, people return a loan with a probability of 90% (9 out of 10 people), and with others – 10% (1 person out of 10). Of course, it is better to give out a loan to people with the first set of parameters.

Which parameters of the borrowers should be taken into account, as well as which of the parameters should be considered very important and

which ones are not very important, it is a complex task that does not have an unambiguous theoretical solution. Sets of parameters and their breakdown into important and unimportant are selected experimentally and are constantly tested in practice.

We have several different sets of parameters, and they compete among themselves, meaning that the set is used that predicts results better than the others until it turns out that some other set works even better.

In this way, «machine learning» occurs, that is, it is an improvement of the algorithm based on experience that accumulates in the process of using the algorithm.

## ***AI ALGORITHMS AND MACHINE LEARNING IN THE CASE OF OVERDUE LOANS***

Progress in the field of AI has reached such an extent that it helps not only to make decisions about whether to issue a loan or not to issue, but also how to return overdue loans.

Our system analyzes data on borrowers and their friends available on the Internet, and then communicates with the borrower by phone with the help of a talking robot. Conversations are recorded and analyzed using an algorithm that determines the wording that is most likely to have an impact on the borrower and will cause the debt to be repaid. The system also communicates with his friends and with their help asks the borrower to return the money.

Approximately the same AI system exists in China. The company Ziyitong with the help of a similar system was able to help repay debts of about \$ 29 billion in about two years. The coefficient of reimbursement here reached 41% for large customers for loans that are overdue for up to one week. For

comparison, the efficiency of traditional collection methods of repayment of debts for similar loans is only 20%.

This way we will help our Investors not only correctly and impartially assess the risks of investing, but we will also come to their aid in case of non-repayment of a loan.

## ***PERSONAL CABINET***

A personal cabinet with a built-in multicurrency wallet is created during the registration of the account, at the very beginning of working with the AB system.



## TABS OF THE PERSONAL CABINET

### <Investor> TAB

They come here if they want to give out a loan,

The tab contains a table with actual applications for a loan.

The user can choose an applications with the best conditions considering the following parameters: term, the amount, interest, The rating of the borrower, calculated with the help of our unique scoring system.

The investor transfers the Basic Crypto-currency to our Smart Contract (SC), and then receives the issued AB-tokens for subsequent lending, which in the future can be realized on the leading exchanges (<exchanges list>) or exchange directly with another user of our P2P-ecosystem.

If the Investor has not found the conditions suitable for him from the borrowers, she or he makes out an application for a loan on his or her own terms.

**Investment**

**New propose**

Value, AB    %    Time (days)

5    3    365

**1AB = 1BTC**

☒ I have read and agree with the terms of the loan.

**Send propose**

**Current requests**

Name	Rate	Value, AB	%	Loan term	
Alfa	5/5	5	3	5 y	
Bravo	5/5	6	2	6 m	
Charlie	5/5	7	1	1 y	
Delta	5/5	12	1	6,2 m	
Echo	5/5	3.4	1	7 y	<b>Invest</b>
Foxtrot	5/5	5.6	1	5 y	
Golf	5/5	7	2	6 m	

## <Borrower> **TAB**

They come here if they plan to take a loan.

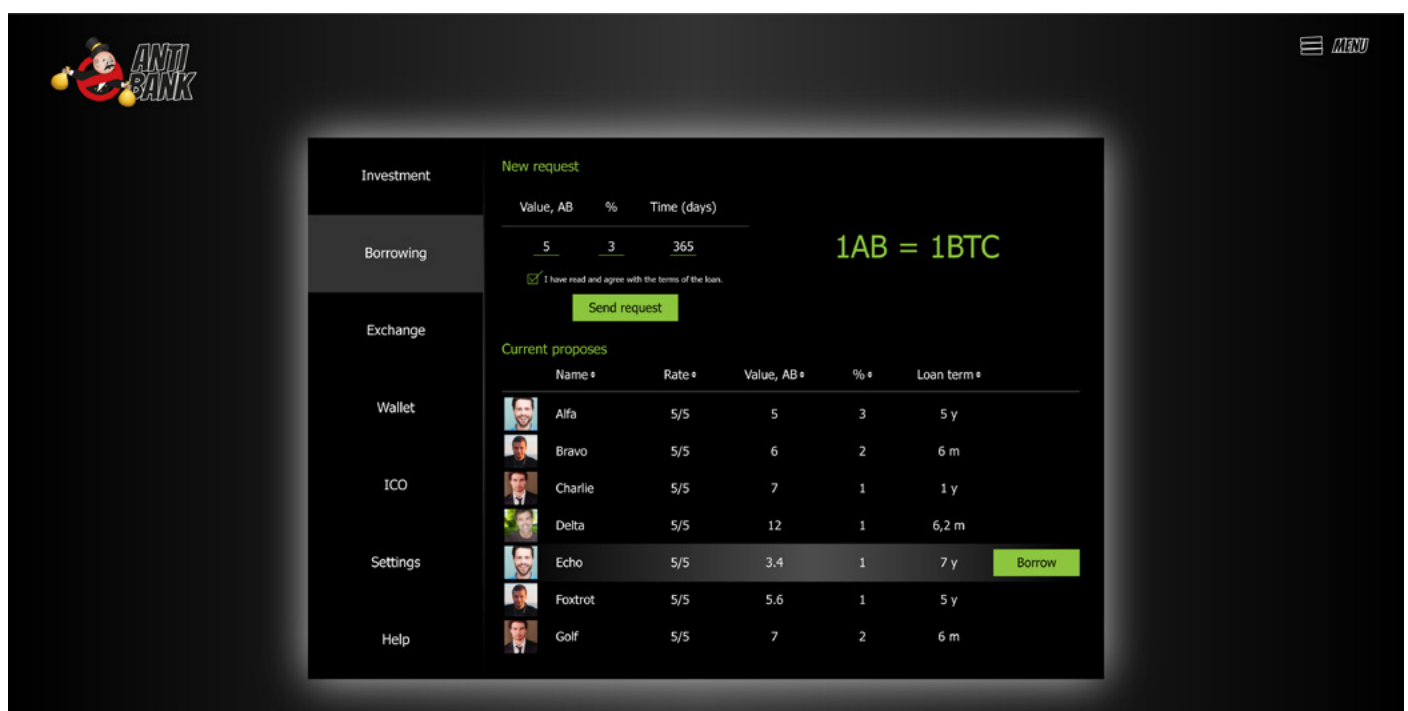
The tab contains a table with actual applications of people who want to issue a loan.

The Borrower can choose the bids with the best conditions for it regarding the following loan parameters:

- term,
- the amount,
- interest.

After the acceptable terms of the loan are selected, the Borrower confirms the application and receives credit funds.

If the Borrower has not found the conditions that suits her or him, she or he makes out an application for a loan on terms acceptable to her or him.

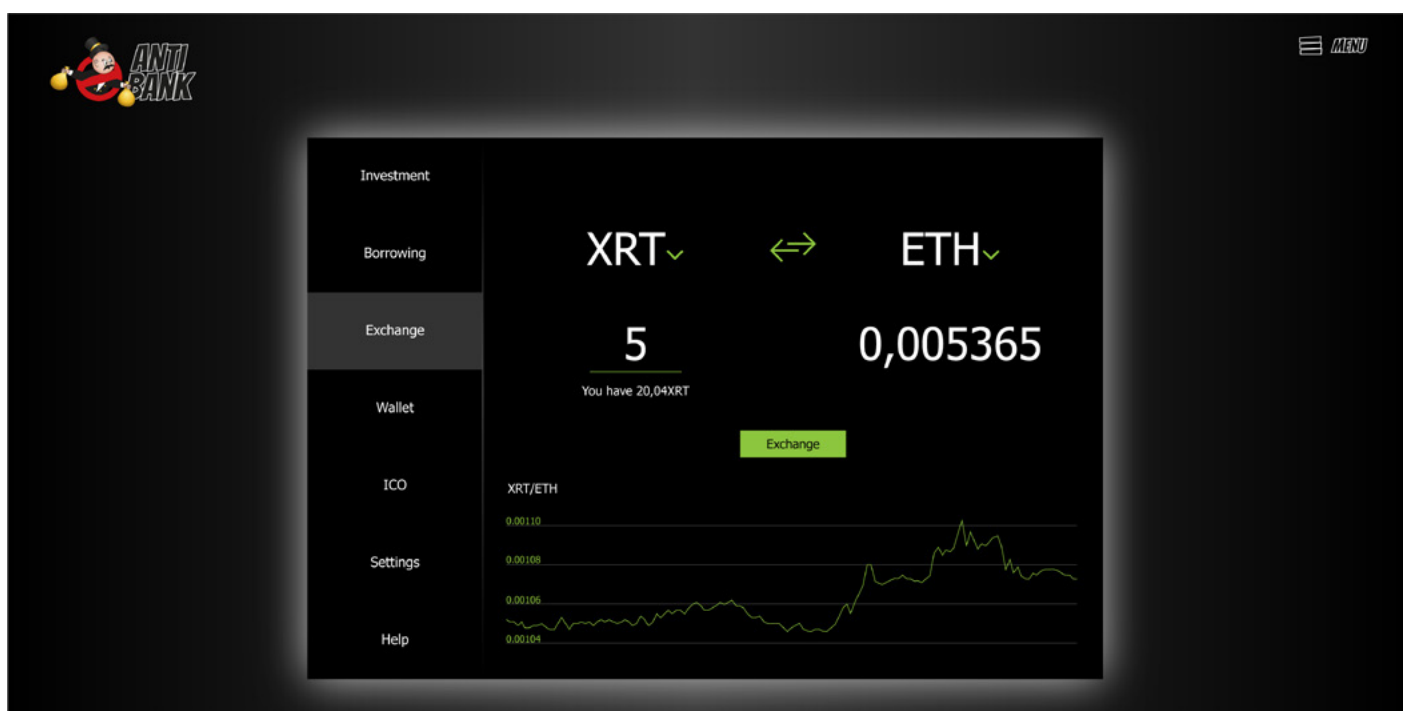


## <Exchanger> **TAB**

All loans in the AB system are issued and taken only in the Base Crypto-Currency (or currencies), therefore, if an user does not have a Basic Crypto-Currency, he must exchange it for the currency that she or he has.

For the convenience of this exchange, there is an Exchanger in the Personal Cabinet in which the crypto-currencies from a given list are exchanged for the Base Crypto-Currency.

Each crypto-currency in the list corresponds to a wallet address where the user can send her or his crypto-currency and receive in exchange the Base Crypto-Currency.



## <Wallet> TAB

The 'Wallet' tab is divided into 2 parts.

### 1. Your crypto-currencies

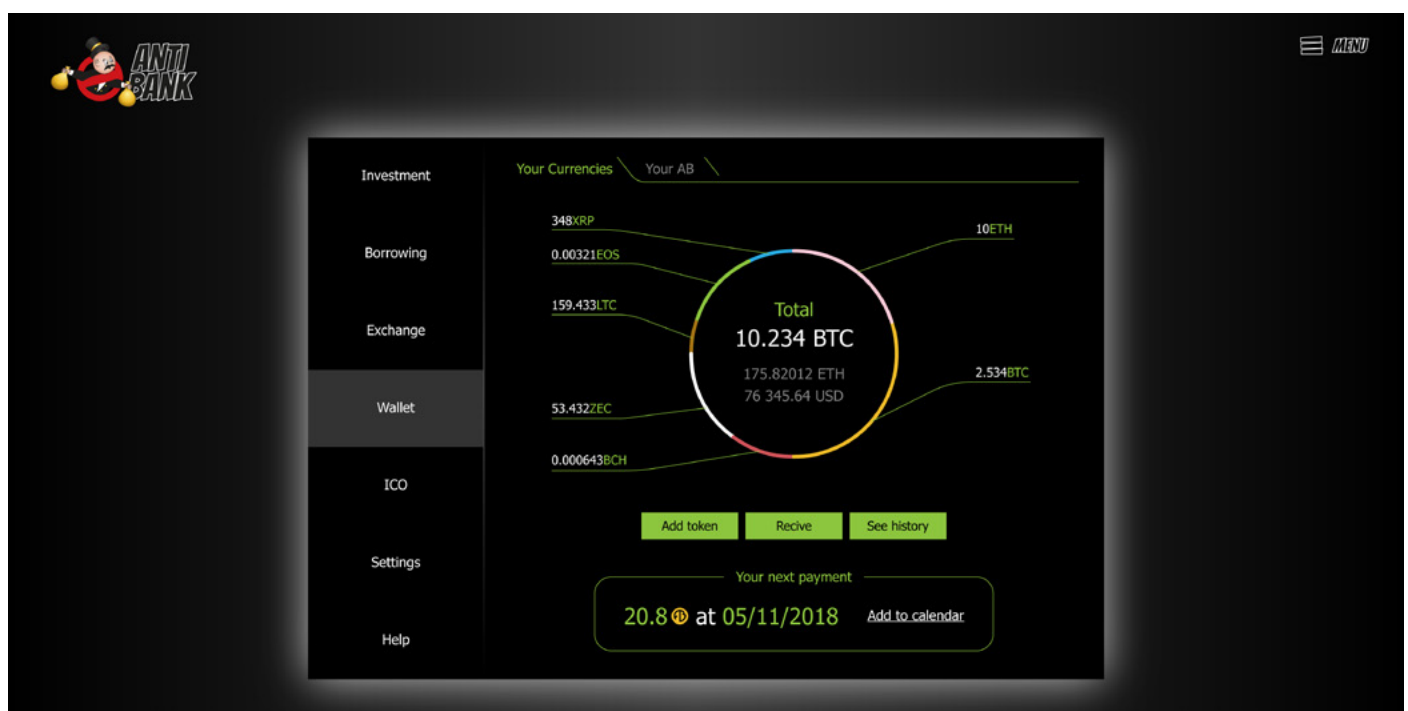
Here the user sees all the available crypto-currencies, their balance, transaction history.

The output and input of crypto-currencies for the user is very convenient, intuitive, simple and fast.

### 2. AB-tokens

In the «AB-tokens» section, you can see the parameters of loans issued or taken: terms, amount, interest, borrowers / creditors.

The multi-currency wallet in AB-ecosystem offers unlimited possibilities and provides all the necessary resources for transfers between users, for paying for goods and services in the crypto industry, and a very simple and affordable tool for investing and obtaining loans.



## <Settings> **TAB**

The Settings tab is divided into 2 parts.

### **1. Custom settings.**

Here background colors are adjusted, for example, as well as the size of letters, their font, etc.

### **2. Personal information.**

The user here is given the opportunity to give as much information about himself as possible in order to increase his rating and credibility.

The more information (Ay-Di, social network accounts, recommendations from other people, all kinds of proof of income), the more likely that our unique scoring system with the use of machine-learning will give the user a good rating.

## <Help> **TAB**

In the Help section, one can read «frequently asked questions» or contact the Anti-Bank service.



## ***TOKEN FUNCTIONS***

The AB-system issues its tokens secured by Basic Crypto-Currency to create an open, transparent, secure system in the world of finance. This system is completely decentralized and autonomous.

### ***PAYMENT UNIT FOR CREDITING***

The AB-token is emitted by the digital algorithm of the smart contract in a ratio of 1:1 to the base currency. Because the algorithm code is open, the AB Token is completely safe with the Base Currency, and this can be checked. To repay the loan, the debtor must return the issued tokens to the address of the smart contract, thereby fulfilling their obligations and enabling the creditor to access the funds blocked at the beginning of the contract.

### ***PART OF VALUE EXCHANGE MEDIUM***

The AB-token can be exchanged for the Base Crypto-Currency in the AB-system or be exchanged for any other crypto-currency on the crypto-exchange market, in the exchanger or on the free crypto-currency market.

### ***REPOSITORY OF VALUE***

The AB-token has an originally assigned estimated value, which is expressed in terms of the Base Crypto-Currency. This given cost will never change, it will remain forever, and thus the AB-token will serve as a repository of value.

## ***BASE FOR RECEIVING BONUSES***

Those who buy AB-tokens on the exchange or on the free market and will hold in their purse for a while, the bonuses will be given.

### **Product Monetization**

Monetization of the product is achieved due to a small commission from the bonuses received by the Investor. This revenue is partially directed to the operation of the AB-system.

One part is transferred to the bonuses of AB-token holders to maintain its liquidity.

The second part is transferred to maintain the AB-scoring system to ensure transparency of the borrower's credit history and its objective credit rating.

## ***SUBTOTAL***

AB-ecosystem without any participation of people-intermediaries, thanks only to the software actually performs all the functions of the bank

mediates in the issuance and receipt of loans,

mediates in the exchange of currencies and in the exchange of goods and services,

(automatically) emits AB-tokens,

gives out bonuses for the storage of AB-tokens.

This AB ecosystem uses special technologies:

smart contract (computer algorithm for issuing and repaying a loan);

scoring (calculating the quantitative measure of confidence in the borrower).

Our programmers have developed their own smart contract that allows implementing complex P2P-crediting algorithms and own scoring system that computes the objective rating of the borrower with the help of unique software with the use of machine-learning.

Monetization of the AB ecosystem is achieved due to a small commission from the bonuses received by the investors.

## ***TOKEN SALE***

Name – AntiBank

Symbol – AB

Price – 1 BTC = 10 000 AB

Total supply – 210 000 000 000 AB

Decimals – 8

ICO token sale – 8 000 000 AB

Date and stage:

**8.10.2018 (00:00 GMT) - 22.10.2018 (00:00 GMT) - 70 %**

Price – 1 BTC = 17 000 AB

**22.10.2018 (00:00 GMT) - 22.11.2018 (00:00 GMT) - 50 %**

Price – 1 BTC = 15 000 AB

**22.11.2018 (00:00 GMT) - 22.12.2018 (00:00 GMT) - 30 %**

Price – 1 BTC = 13 000 AB

Min transaction: 0.1 ETH

Min transaction: 0.01 BTC

Min transaction: 1 EOS

Can't send tokens before the last stage of token sale.

Number of tokens for person: indefinitely

Additional issue of token: is impossible.

## ROAD MAP

ICO issuing:  
1) advertising,  
2) wrote articles,  
3) preparation of legal documents, Terms & Conditions.  
4) opened the Office and Company.

Institutional investors (have become partners with funds).

Preparations for the release of our ICO AntiBank, wrote WhitePaper, developed a Smart Contract for ICO, all of this posted on GitHub. Developed website antibank.io and MVP.

Marketing company, contextual advertising, advertising in leading resources: Forklog, Cointelegraph, CoinMarketCap, CoinGecko, CryptoCompare.

Launching our own Blockchain network and connecting a smart contract.

Starting our own blockchain network and Smart Contract connecting.

Launching the alpha version of AntiBank (AB).

Launching our own scoring system and artificial intelligence to return debts.

Legal view. Buying of AB-token for fiat money for users of our platform.



Market review, market analysis was ordered, traveled to conferences on economics and finance.

Conversation with Developers, Designers, Marketers, Bankers, Financiers and Funds.

Idea was born: to apply Blockchain in the world of finance, banks, P2P-crediting

## ***CONCLUSION***

The AB-ecosystem is designed to take part in the destruction of the modern world financial system, which is already obsolete and no longer works, because the main role in it is played by uncontrolled and greedy intermediaries: banks and other similar (microfinance) organizations.

The AB-ecosystem is based on new block technologies that can replace all these intermediary bankers with decentralized software distributed over a network of personal computers.

For the time being, the AB-ecosystem does not cover absolutely all types of P2P-lending, but after implementing this stage of the project described in this document, we plan to expand the system not only to all existing types of lending, but to those that may appear in the future.

With the help of the AB-ecosystem, people will be able to do without banks and other similar unnecessary organizations. People will be their own masters without any bankers.

Soon all the current customers of the modern world financial system will leave it and move to another system built on new blockchain-technologies.

We will be sincerely glad to help people move from the old and obsolete system to the emerging new one.