

## **DETECTOR White Paper**

DETECTOR (DTCT) is a bot that monitors cryptocurrency and betting markets

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# 1. INTRODUCTION

## 1.1. What is DETECTOR?

DETECTOR is a blockchain based bot that monitors cryptocurrency & betting markets. The bot then notifies users instantly about altcoin pumps, suspicious betting game, dropping betting odds and live betting tips. DETECTOR is an Ethereum based cryptocurrency that uses an Altcoin Intelligence Bot to constantly monitor the market to develop signals that can be sent to traders to help them in making decisions on the altcoins to purchase or sell. Secondly, DETECTOR uses this intelligence bot to analyze matches to detect whether there are any suspicious betting activities and then sends signals to the users to warn them of the same. Thirdly, the DETECTOR algorithm is able to detect games with dropping odds and notifies the users to help them make appropriate betting decision. Fourth, the DETECTOR bot relies on its custom algorithm to provide its users with live betting tips to help them place appropriate wagers on matches and live events to maximize their winnings. Therefore, the versatility of the DETECTOR bot makes it an outstanding platform where users can rely on expert advice and artificial intelligence to make proper bets as well as avoid making losses that may result from suspicious betting activities or externalities that would otherwise have substantial effect on the outcomes.

The DETECTOR bot has been under development and positive results have been recorded for the short duration that it has been under use. A 2 months testing by our team and other few users has resulted in more than 17 % daily profit showing the potential success that it brings to the market. The bot has been able to deliver appropriate signals to the users enabling them to trade altcoins in the cryptocurrency market with immense success. Following this successful test run, we intend to open up the business to investors and use to the general public. This will be facilitated through an ICO aimed at raising a minimum of 2000 Ether tokens to start. Upon the completion of the ICO, we will switch to subscription business model where users will be required to pay a certain fee periodically to get access to the market signals from our DETECTOR bot. Every ICO investor will get tokens plus a profit share from every new user after our platform switches to a subscription business model. DETECTOR tokens will be added to altcoin exchanges as an altcoin based on the

Ethereum blockchain. Moreover, we will add support for slack and users can get notifications on the market through a wide range of mediums including text messages, telegram, and slack amongst others. Our goal is to ensure that users get proper signals on the market and to aid them in their market decision making for maximum profitability.

We also aim to introduce social betting and trading network in DETECTOR's continuing development. As such Any DETECTOR member can post their trading and betting signals. Users can follow other DETECTOR members and receive their signals; they can also compare results of other members. Members will be able to set their own price for signals. This will help experienced traders and those that are privy of important trading information to leverage their knowledge and earn some money in the process. Moreover, we see as a value addition of the DETECTOR platform as members can get access to reliable information and can choose to follow and rely on signals from experts to complete their trades. Also the members will be able to compare the results of various traders to choose the most ideal trading pattern to follow in line with their goals.

We also intend to automate investing and betting down the line. As such members will be able to add their own API keys from exchanges & bookies to automate the whole process. Our DETECTOR app will automatically invest on crypto markets and bet on bookies using your account API key. Since we already have intelligence bots that can predict altcoins changes, we will be making investments of our own and members therefore have the rare opportunity to make investments in the market through our automated system. We will be making bets and investments in the crypto markets and members can be able to ride on this opportunity by automating their market choices to ride on our account through their API keys. The members can in the process gain high returns based on the appropriate predictions made by our bot automatically.

We further intend to make advanced technical analysis by December 2017 through development of new algorithms that have the ability to predict altcoins prices. This is expected to make more accurate price predictions for precision investment by our members. Therefore, our goal is to ensure that our members get information beforehand to direct their investment decisions in an increasingly uncertain crypto market through

tailored information and signals generated by our bots. We will also ensure continuous development on our algorithm to incorporate new information, events and happenings in the crypto markets to ensure that our members get maximum benefits and high returns from their investment activities.

Another important aspect of our application is monitoring of the betting markets. More precisely, our platform will help members place winning bets supported by our live betting analyzer. The bot will send signals to users on the most probable winners upon which they should place a wager. In addition, the bot will also send signals about dropping odds supported by an artificial intelligence detector and powerful algorithm. This coupled with a suspicious betting activities detector will not only help our users to select winning bets but also to shield them from potential losses that may result from such undesirable practices. Thus the live betting analyzer, dropping odds detector, and suspicious games detector will help our users to further improve their earnings by getting reliable signals about various games that are of interest to them. We therefore hope that using our live betting detector, our members can be able to minimize losses (such as those shown in figure 1 below) and in turn boost their profitability.

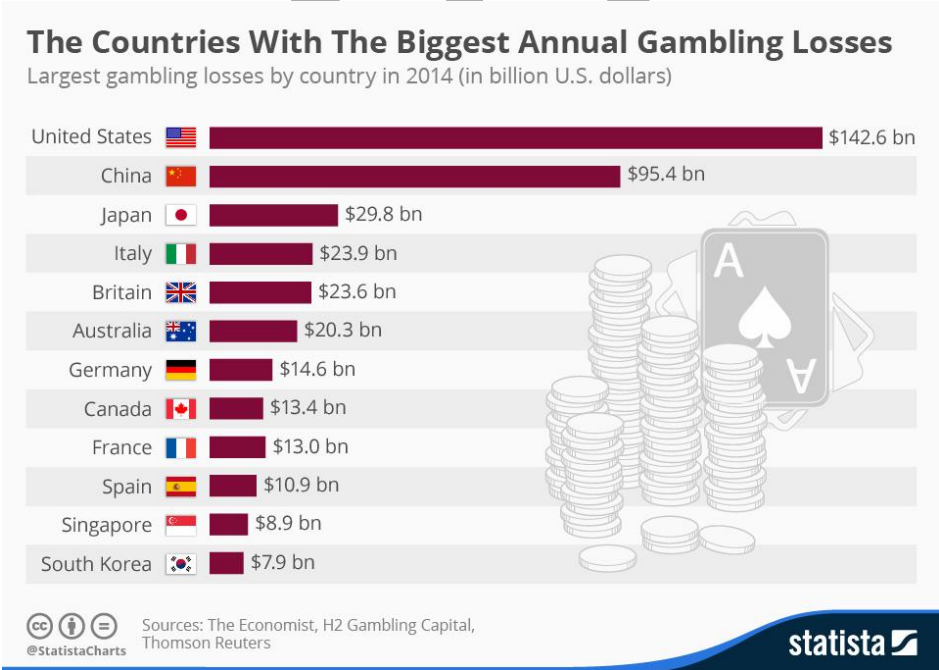


Figure 1: Customer gambling losses in 2014

## **1.2. How the DETECTOR idea emerged**

The DETECTOR idea emerged from our observation of the crypto markets and the increased volume of trades being undertaken on a daily basis. Firstly, it is important to understand that trading, even on Forex trade where there are few uncertainties is not easy. Therefore, it is even much harder to trade on crypto markets that are characterized by perpetual uncertainties and high reactionary actions which can cause major losses for traders that are not privy to information about the market.

Secondly, the cryptocurrency market is under consistent development with new altcoins launched on a monthly basis and as such it is almost impossible to keep track of everything that is happening in the blockchain world. Therefore, it is much harder for people to predict the market and trends which in turn make it harder to make profitable trades. The extant solutions are quite tedious and still require substantial insights and understanding to synthesize loads of information before finally placing a trade. For instance, there are chat rooms and forums where experts and novices alike share information and insights about the crypto markets with the aim of making informed choices. However, there are multiples of these chat rooms and forums which in most instances have differing information and insights making it impossible to arrive at appropriate decisions as an investor. Therefore, given the high volatility of cryptocurrencies and lack of a centralized source of information and insights it is therefore very difficult to make sound investment decisions.

We all know that information is the key to making appropriate and well-weighted trading decisions. Currently, there is an oversupply of market information on various altcoins but there lacks an effective tool for authenticating such information and synthesizing it in an appropriate manner such that it can be turned into useful trading insight. Investors and people interested in venturing into crypto markets investments are forced to watch, read, and analyze tons of information before finally making a trade. Due to the contradictions of some of the information found on the internet investors are even forced to just go with their gut feeling rather than make well informed decision. Moreover, new investors and beginners seeking to make some returns in the crypto markets may lack the knowledge to interpret market information found on these platforms such as the ETH/BTC chart seen in

figure 2 below thus requiring an application with the ability to break down this information and generate reliable signals on the appropriate investment decision at the time.



Figure 2: ETH/BTC chart as found on yobit.net

With the growing acceptance of the cryptocurrencies and influx of new investors in the blockchain scene we saw the need to have a systematic method of analyzing market information and providing reliable insights to investors for their decision making. We saw the need to provide people with up to date insights on the cryptocurrencies movements to enable them make profitable decisions rather than depend on inconsistent and unreliable information found all over the internet. We also saw the need to guide new investors in making profitable trade by providing reliable market information and hence the development of the DETECTOR bot. We also saw the need to develop a platform that allows seasoned traders to share their insights and analysis of the crypto markets and benefit while doing it thus allowing for members to pay for their advice.

## 2. THE CRYPTO MARKETS INVESTMENT PROBLEMS AND THEIR SOLUTIONS

### 2.1 What problems are there in the crypto markets investment?

One of the major problems in the crypto markets is information asymmetry. Normally, lack of information is considered to be a major problem in investment decision making as investors may fail to obtain the ideal cues to guide their investment strategy. In the crypto markets, however, there is not a shortage of information on the various altcoins. Rather, the opposite is the current situation whereby there is an oversupply of information on cryptocurrencies and developments in the blockchain scene. Now, the problem is further compounded by the multiple developments and the various channels of communication including forums, chat rooms, websites and traditional media alike. The decentralized nature of the blockchain platforms therefore means there are limited formal communication channels that provide investors with reliable information.

### Ethereum Charts



Figure 3: Sample Ethereum chart on CoinMarketCap



Rather the investors are forced to depend on the diverse sources of information making it very difficult to synthesize all the divergent opinions to arrive at reliable cues that they can follow to make their investment decisions. This has led to investors making arbitrary calls, personal judgments, and speculative moves based on the kinds of information that they obtain. This is because they lack the ability to synthesize the information found on these sources such as the one in figure 3 above. This has further compounded to a second major problem in the crypto markets.

The second problem is the inadequate investment advice available on crypto markets that investors can follow to make substantial gains. More often than not, investors usually set their targets and follow a certain investment strategy to make gains in the real world. As such, it is expected that investors can be able to develop suitable investment strategies for the crypto markets and use reliable information and advice to make substantial gains in accordance with the market movements. However, there is a shortage of appropriate investment advice about cryptocurrencies that investors can follow as some seasoned traders usually conduct their business anonymously. This has led to multiple queries and Google searches on trends of the major exchanges such as Poloniex and Bittrex as interest about cryptocurrencies continues to grow. In this respect, it is evident that most of the trading and exchange of information is neither quite public nor free. Few traders have access to private trading groups that secretly share signals for the benefit of a limited number of people. As such, there is need to widen the net to reach more interested parties and investors that are enthusiastic about the crypto markets. There is the need to provide more accessible expert advice on crypto markets through publicly accessible platforms.

Thirdly, there is the problem of suspicious betting in the crypto markets that is further enabled by the anonymity afforded in the blockchain. Suspicious betting could be quite harmful to innocent people placing their bets on live games and eSports. Furthermore, match fixing could lead to huge losses for investors especially if it cannot be detected in advance. Also, dropping odds usually signify potential changes in the outcome of the game or event upon which wagers are placed. This could have potential impact on the player's earnings and therefore requires proper attention to track bets placed. However, these are nonexistent especially in the crypto markets where the anonymity issue may be used to

drive the odds down for a sporting event. This problem can be quite costly especially for investors with limited information or lack access to the highlights and insights about the games. Moreover, where the dropping odds are a result of insider information, then investors are exposed to potential losses on their wagers and as such need to be well informed so as to benefit from the outcomes. The information asymmetry that may exist between the bookmakers and the players therefore may be a potential avenue for huge losses and as such need to be addressed. The DETECTOR bot can easily sense suspicious activity and send signals to members in instance such as those seen in figure 4 below.



Figure 4: Suspicious betting on Higgins vs Lee match

## **2.2 How we suggest to solve these problems**

We aim to solve these above mentioned problems through our modern algorithm that automatically gathers information, synthesizes it and sends reliable signals to our members. Our automated bot will gather information about various altcoins and instantly notify our members on pumps and dumps, suspicious game betting, dropping odds and live betting tips based on each individual's preference. Our application will act as the bridge between the members and the market by providing accurate, reliable and usable information directly to help in the investment decision making.

As aforementioned, information asymmetry is one of the major problems and we will address this by providing members with access to up to date insights on the crypto markets. Our bot will send instant updates to members based on the movements of various altcoins prices and developments in cryptocurrency for their actions. Our algorithm will help to analyze various sources of information, monitor patterns and trading activities to provide members with prompts, cues and hints on what kind of investments to make. This will ensure that each decision made by our members is well informed and based on reliable market intelligence. This will save the members the hassle of reading, watching and synthesizing different sources of information to determine their investment decisions. Rather through automation, members will be able to get insights throughout the day in a timely manner to guide their purchases and sales in the crypto markets.

Secondly, the application will provide a platform for experienced traders to share their insights about the crypto markets either anonymously or publicly to the benefit of the members. This is aimed at creating a learning environment for members within the platforms and their followers within the application. These experienced traders will be easily accessible and open to members' feedback and communication to create an open environment where users can achieve the maximum benefits. Most importantly, the application will incorporate public trader rankings to enable each user to rate their experiences and the quality of insights gained from these traders. As such, there will be a public record showing the most reliable traders thus enabling beginners to easily pick trusted advisors and experienced traders that can help them record huge gains through reliable and profitable signals. We view this as an ideal avenue for customers to gain good

advice to guide their investment decisions thus eliminating the problem associated with lack of good trading guidance that is currently prevalent in the crypto markets. Alternatively, members can automate their investments and bets to be conducted by our DETECTOR app based on our insights by using their account API keys.

Thirdly, we will have automated bots to send signals to members on suspicious betting activities and dropping odds to protect them from irregular activities by bookmakers or other players. As aforementioned, the anonymity issue in the blockchain raises the vulnerability of players especially in online betting as other users can illegally collude to affect the influence of sports outcomes. Moreover, betting on live events and games can also be affected by match fixing and other undue betting activities that may lead to great losses. As such, we aim to protect our members from such inappropriate activities by scanning the market and developing signals where there is a suspicion of inappropriate betting activities. Our algorithm and intelligence bot will easily pick up suspicious betting activities and immediately send signals to our members to guide them on the most appropriate action to take to prevent potential losses.

As such, our platform offers, holistic guidance to members on crypto markets investment and betting by streamlining information, providing a platform for suitable advice and giving signals on any potential harmful betting activity thus solving the aforementioned problems. Users can gain access to these profit making signals for a low subscription fee that has so far been highly successful with 17% daily profits. The application will help investors overcome the uncertainties of the crypto markets through feasible solutions.

### **2.3. Competitive advantages**

There are a handful of market intelligence bots that have been developed recently to help guide investors and beginners in making appropriate decisions. These include CryptoPing, HaasBot and TradeWave amongst others. However, the functionality, usability, and versatility of these applications differ significantly which makes DETECTOR a reliable solution for providing market insights to users. DETECTOR differs from its competitors in that it offers timely insights that are delivered to the users through an automated bot. Other extant services usually require that the users access market insights online which may not be as timely as required. Furthermore, DETECTOR provides members with insights through wide range of medium including Telegram messenger and text messages. Also support for slack is provided ensuring that members can access market information throughout.

Another important aspect of DETECTOR that stands out from other bots is that it supports multiple cryptocurrencies whereas some in the market provide insights on a few top currencies. The large scope of cryptocurrencies that DETECTOR offers ensures that members can set their preferred currencies to track depending on their preferences. In this way one receives only updates for those currencies that they are following thus enabling members to develop and follow their preferred investment strategy. These attributes coupled with easy integration with the website will allow members to also select their preferred traders from whom they can get trading cues and insights whether publicly or privately.

Moreover, the members have different choices in terms of choosing their preferred investment mode. For instance, users can choose to invest on their own, follow investment strategies of experienced traders or let our bot to make investments on their behalf. The versatility of DETECTOR further extending to betting whereby members can also easily place their individual bets or follow those of their preferred traders or our bot. All in all, our platform offers members more than just insights thus affording investors the chance to make huge returns through different kinds of investments and options. The investors also have the ability to begin earning from the platform once they become experienced traders further enhancing their revenues streams from DETECTOR.

## **2.4. Potential partners for DETECTOR**

Poloniex and Bittrex

These are highly reputable exchanges where our members can conduct their trades following cues obtained from our bots. Easy integration of these exchanges with our application will help members to easily execute trades thus maximizing potential benefits

CoinMarketCap

This is the listing for all cryptocurrencies where our members can be able to easily gather information on preferred currencies trade volumes, prices, and capitalizations to further support their investment decisions.

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### **3. ICO**

#### **3.1. ICO Goals**

Our idea is to create a fully automated bot that sends signals to customers to guide their cryptocurrency investment decisions such as what and when to buy. We already have a working product that is currently being used for free. We intend to initiate a subscription model after the ICO thus helping investors to earn from the subscriptions made by users.

However, further development is needed to transform our application into a finished product. Moreover, we need to invest in marketing amongst blockchain communities and to other traditional investors to adopt DETECTOR as their preferred market intelligence bot and this will require some resources. We will also need to develop the social betting and trading network on the platform amongst some other technical upgrades down the line. We hope to attract substantial interest from the crypto community, together with individual and institutional investors that believe in the importance of our application.

#### **3.2. ICO parameters**

Name: DETECTOR Token

Ticker: DTCT

Supply: 10,000,000,000

Ethereum Based Tokens

ICO Start: July 18, 2017 00:00 UTC

ICO End: August 18, 2017 00:00 UTC

ICO Tokens: 900,000,000

Minimal Goal to start: 2000 ETH

Accepting: ETH

Exchange Rate: 1000 DTCT - 1 ETH

### 3.3. ICO allocation structure and Marketing

We aim to allocate a large share of the funds raised to facilitate marketing activities that include raising awareness for our products on various platforms. 20% of the raised funds will be allocated to further development of the product to include new features and another 20% will be allocated to scaling our services with anticipated growth expected to bring in new customers and thus requiring expansion of our platform capacity.

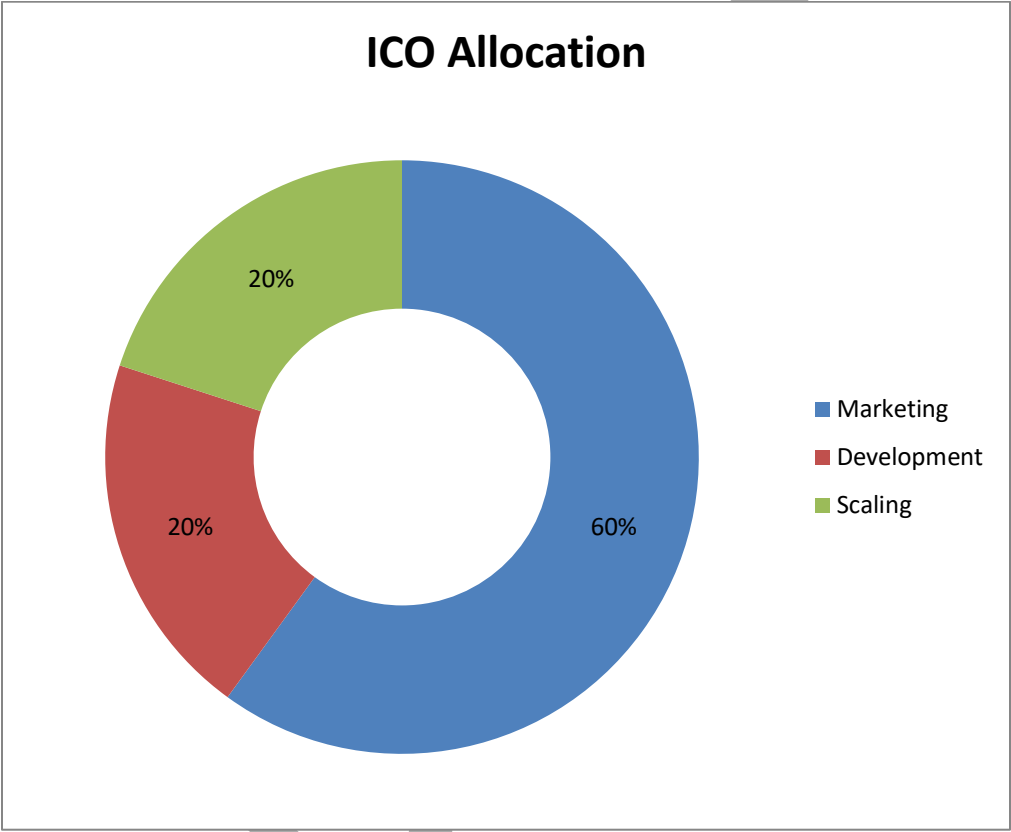


Figure 5: ICO Allocation

To maximize on the effect of our marketing activities, the budget allocation will be distributed as follows:



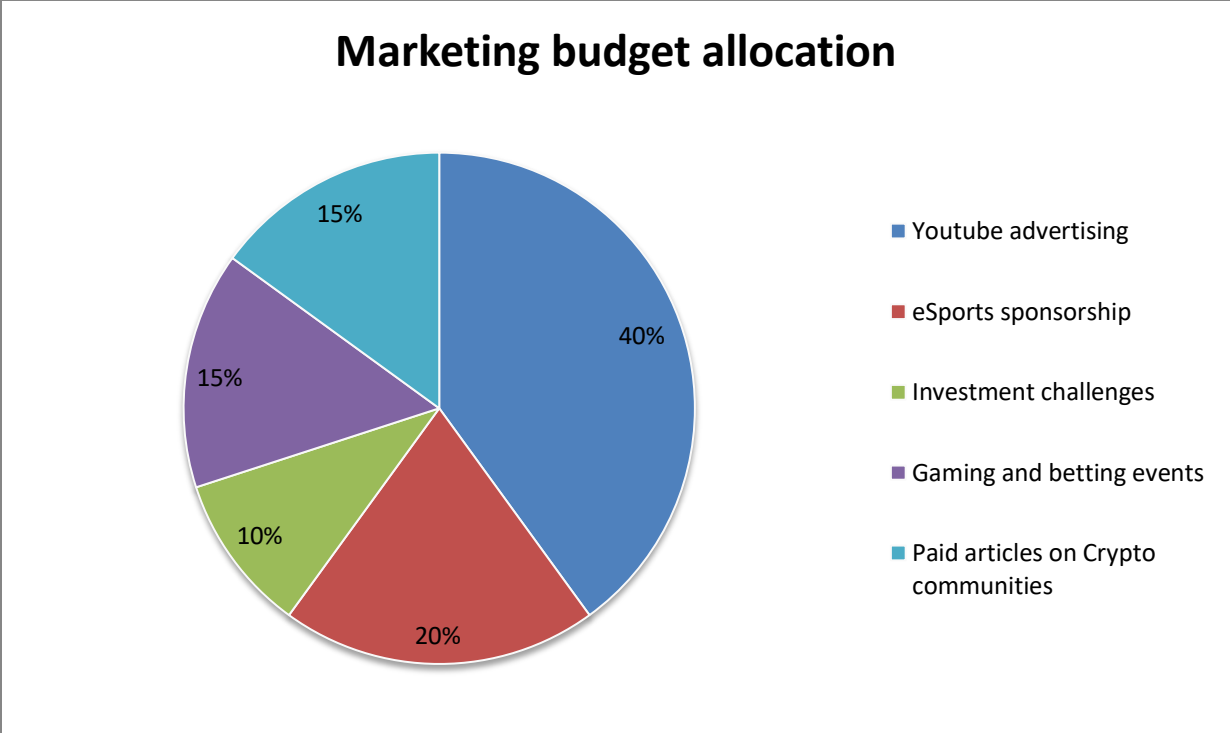


Figure 6: Marketing budget allocation

Great focus is laid on online marketing platform as this is where the large proportion of our potential ICO investors are likely to be found. Besides using YouTube advertising through vlogs and streaming live activities we will also actively participate in eSports sponsorship, investment challenges, gaming and betting events as well as paying for sponsored content on popular crypto community websites, forums and chat rooms to increase our visibility to the online blockchain community.

## **4. WHY CONTRIBUTE TO DETECTOR**

We are professionals that have been in cryptocurrency market for 4 years. Finally we decided to create our own token. We have a working product that you are going to be investing in. Unlike other Tokens, we already have our product ready. Every user can test our product for free. Our cryptocurrency support instant settlement. This means that there is no more waiting. Now you can send DETECTOR tokens instantly. In addition, every ICO investor will get tokens plus a profit share from every new user after our platform switches to a subscription business model.

### **4.1. Roadmap and Development plan**

**July 2017**- ICO

**August 2017**-Switching to Subscription Business Model

- DETECTOR will be added on altcoin exchanges.
- Adding Slack support.
- Introducing Share of Profit along with public subscription log for ICO investors.

**September 2017**-Social betting and trading network.

Any DETECTOR member can post their trading and betting signals. Users can follow other DETECTOR members and receive their signals; they can also compare results of other members. Members will be able to set their own price for signals.

**October 2017**

- Hire additional developers.
- Online marketing campaign.

**November 2017**- Automate investing & betting

Members will be able to add their own API keys from exchanges & bookies to automate the whole process. Our DETECTOR app will automatically invest on crypto markets and bet on bookies using your account API key.

**December 2017- Advanced Technical Analysis**

At this stage, we will work on new algorithms to predict altcoins price.

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## **5. TEAM**

### **TOMASZ MAZUR**

#### **Founder and Developer**

Since 2007, he has been developing applications for banks and other financial services. He has worked for a number of major clients leading full-stack architect developer for DETECTOR Token.

### **DAWID KORALEWSKI**

#### **Developer**

Dawid is a self-made man; he started programming at the age of 14. He has worked for many international financial services including PayPal. Dawid graduated from AGH University of Science and Technology.

### **ADAM KOWAL**

#### **Developer**

Adam is a motivated, forward thinking along with intelligent developer with lots of knowledge in his field. He worked for Moneybookers as a programmer. Adam graduated from Warsaw School of Computer Science.