

**ЯQuanton**

**WHITE PAPER**

## 1. Introduction

Quantitative analysis or the application of mathematical trading systems to financial data has been used for over a century. Automated trading started in the 1970's with the introduction of the DOT and accounts for approximately 75 percent of all trading volume in current financial markets. Trading away inefficiencies in a market is always a moving target as by trading these inefficiencies they tend to disappear. Automated trading removes the human emotional factor that causes irrational decision making in trading from the equation.

## 2. Programming language R

With R's many built in functions for technical analysis and with its accessible interface it is ideal for statistical modeling time series analysis and more importantly time series forecasting, necessary for implementing trading systems.

```
library(quantmod)
bitcoin <- read.table("Bitcoin.csv", header = T, sep = ";", row.names = 1)
bitcoin <- tail(bitcoin, 365)
bitcoin <- as.xts(bitcoin)
dev.new(width = 30, height = 15)
chartSeries(bitcoin, dn.col = "red", TA="addRSI(10);addEMA(10)")
```

```
data <- read.csv("Bitcoin.csv", header = TRUE, sep = ",")
data2 <- data[order(as.Date(data$Date, format = "%Y-%m-%d")), ]
price <- data2$Close
HLC <- matrix(c(data2$High, data2$Low, data2$Close),
nrow = length(data2$High))
```

```
bitcoin.lr <- diff(log(price))
install.packages("TTR")
library(TTR)
```

```
rsi <- RSI(price)
MACD <- MACD(price)
macd <- MACD[, 1]
will <- williamsAD(HLC)
cci <- CCI(HLC)
STOCH <- stoch(HLC)
stochK <- STOCH[, 1]
stochD <- STOCH[, 1]
```

```

best.network <- matrix(c(5, 0.5))
best.rmse <- 1
for (i in 5:15)
for (j in 1:3) {
bitcoin.fit <- nnet(Return ~ RSI + CCI + MACD + WILL + STOCHK +
STOCHD, data = bitcoin.train, maxit = 1000, size = i,
decay = 0.01 * j, linout = 1)
bitcoin.predict <- predict(bitcoin.fit, newdata = bitcoin.test)
bitcoin.rmse <- sqrt(mean
((bitcoin.predict - bitcoin.ltr[917:940])^2))
if (bitcoin.rmse < best.rmse) {
best.network[1, 1] <- i
best.network[2, 1] <- j
best.rmse <- bitcoin.rmse
}
}
}

```

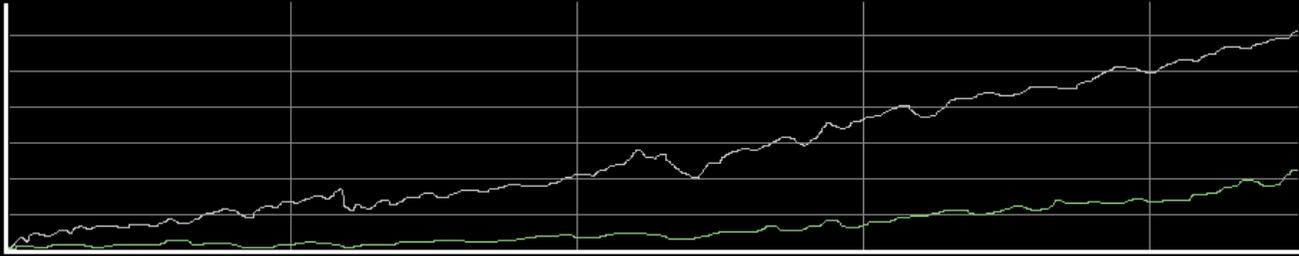
### 3. Our Mission

Our developers were previously specializing in trading high volatility small cap stocks on US and Asian exchanges based solely on technical (like Level II order book) and statistical analysis; a niche largely overlooked by institutional trading funds. Since crypto assets and exchanges are still in their developmental stage, chart patterns and order books resemble those of small cap equity stocks. Backtesting of some of our most used algorithms show that we can have a significant edge on the current market, although continual and further optimization is always a requirement.



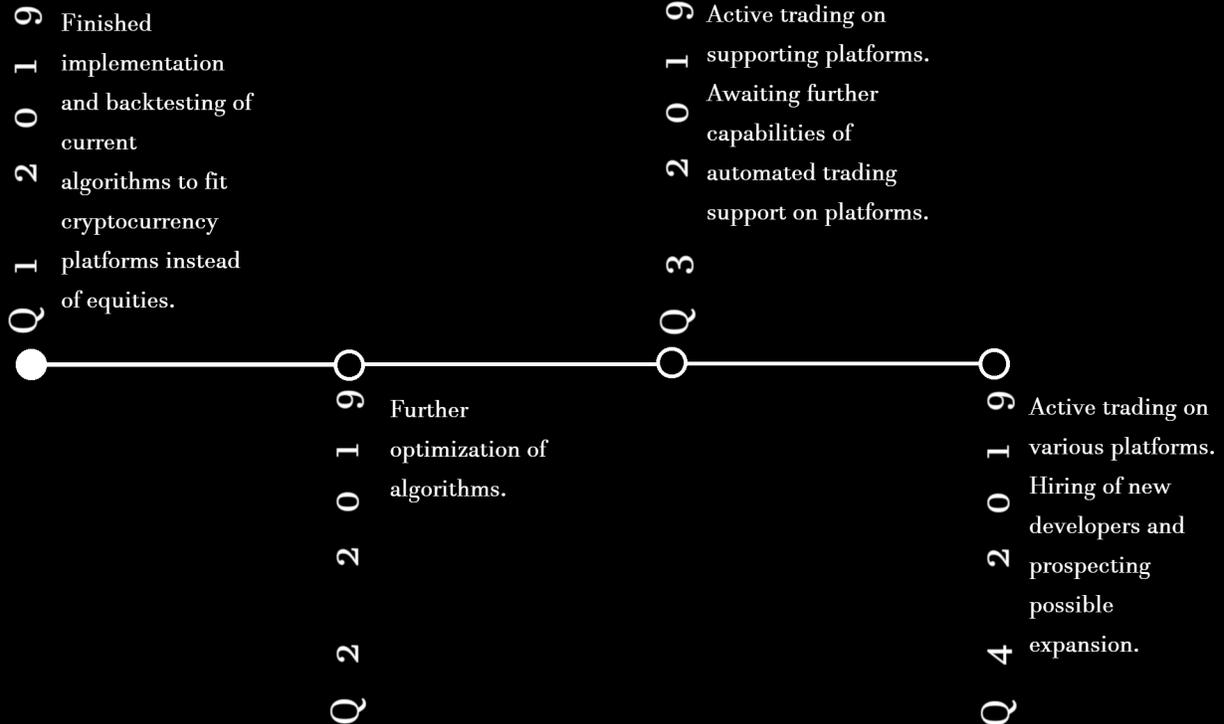
## 4. Algorithm performance evaluation

Gray = One of our best performing algorithms Green = Small cap stock index benchmark



Returns 141.64% Sharpe 1.55 Alpha 0.15 Beta 0.34 Drawdown -11.24%

## 5. Development Roadmap



## 6. People



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*Developer*

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## 7. Token Plan

Token issue: 1 000 000 NON-REISSUABLE

Price 1 RQuanton = 0.0002 BTC

Availability: 750 000 RQuanton

<https://wavesplatform.com>

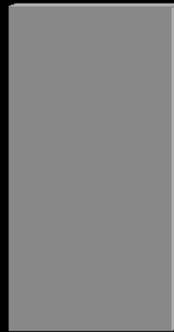
Waves DEX Asset ID: 7TmkNjcoJYhUfTnxeFP9fNg7v7AU63wV4SLNmu1hUsGD

Starting date: 1 May 2019

Ending date: 30 July 2019

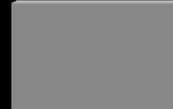
Hard cap: 750 000

### For Sale



750 000

Company Reserves,  
Developpers



250 000

### Disclaimer

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