



# **SENTINEL PROTOCOL**



**March 30, 2018  
Patrick Kim , CEO**

## Problem

Blockchain's core technology is secure but...

# Many Connected Applications and DAPPs are Insecure



## Problem

Blockchain's core technology is secure but...

# Crypto Users are Not Safe from Phishing and Scams



Telegram Open Network

Dear Telegram users,  
We're happy to announce that our ICO crowdsale is NOW OPEN! You can participate in our ICO through three cryptocurrencies: Bitcoin, Ethereum and Litecoin.  
To celebrate our ICO launch we've also launched our [bounty program](#), which is available for only 2 days!  
Our efforts in creating a better blockchain cannot take effect unless we get the support of as many participants as possible. In return for your contribution we will continue developing this blockchain even further, giving you more advantages within the blockchain technology.  
Kindest Regards,  
Telegram Team

PARTICIPATE NOW

participate by url: <https://telegramfoundation.org>

Problem

Blockchain's core technology is secure but...

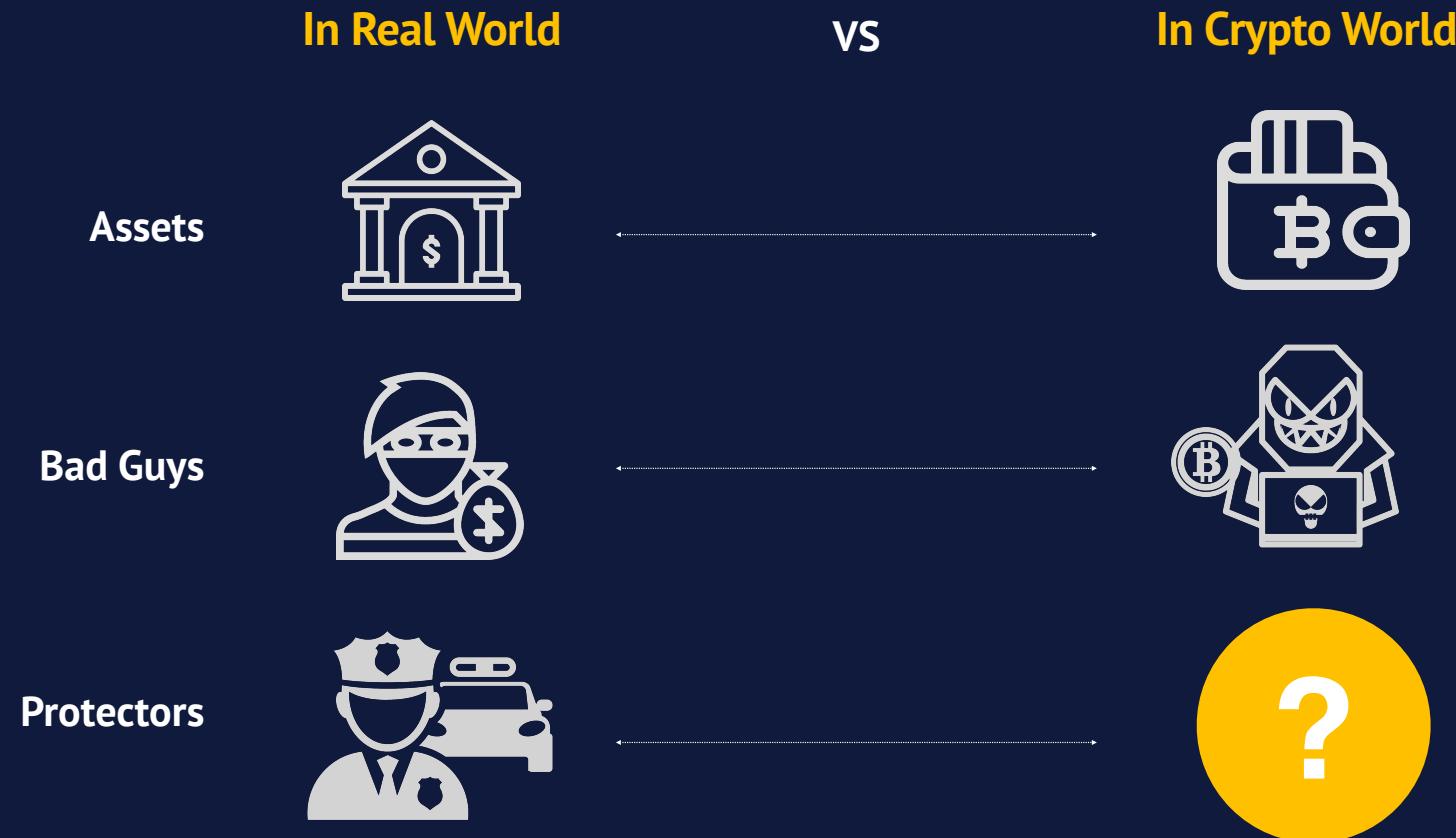
## No One Can Save One From Falling A Victim



SAVE PATRICK CAMPAIGN  
[security7218.org](http://security7218.org)

Problem

## Responsibility is thrown on the individual



Solution

Blockchain itself is the solution



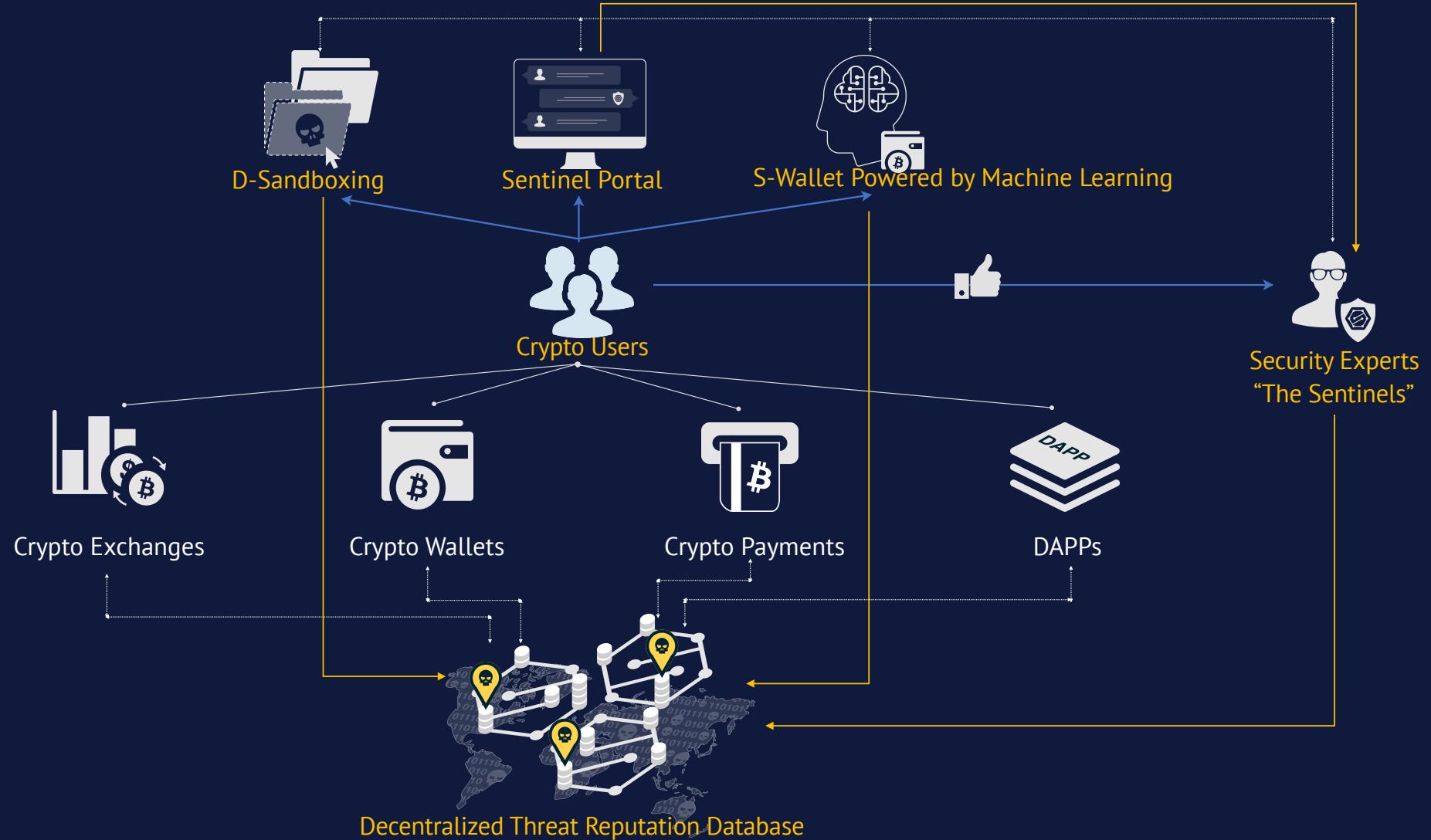
## SENTINEL PROTOCOL

Decentralized  
Database

Collective  
Intelligence

Self-governing  
Consensus

## Security Intelligence Platform for Blockchain



## Decentralized Threat Reputation Database (TRDB)



- No point of attack
- Data integrity
- Transaction traceability

Available as API at No Cost ✓

Platform Agnostic ✓

Anti-theft System ✓

## Collective Intelligence of Security Experts

### The Sentinels



#### SECURITY EXPERTS

- Individuals / organizations
- Security vendors
- White hat hackers

#### Sentinel Points

Points “staking value”  
for contributions

#### \$UPP (Uppsala Token)

Circulating currency for  
the goods and services

## Self-governing Consensus Mechanism

### Proof of Protection

#### Internal System Reputation



#### External Social Reputation



## Advanced Security Features for Proactive Measures

### S-Wallet powered by Machine Learning



- Filters scam address and malware
- Detects abnormal behavior

Unknown Threat Prevention ✓

### Distributed Malware Sandboxing



- Extensive testing and simulations
- Augmented expertise

Secure End-device ✓

## Solution

### Use Case 1

#### ▼ Safeguard Cryptocurrency

S-Wallet (Anti-Scam Filtering, Anomaly Detection)  
Partner Wallet (CoinManager, etc)

#### ▼ Incident Report / Expert's Help

Sentinel Portal  
Incident Reporting and Advice

#### ▼ The Sentinels

Subjective Contribution -> Sentinel Point  
-> UPP Rewards

### Sentinel Portal



## Solution

### Use Case 2

#### Outsource CERT

Case Handling Experts  
Anomaly Detection/Hacker Address Filtering

#### Global Alliances

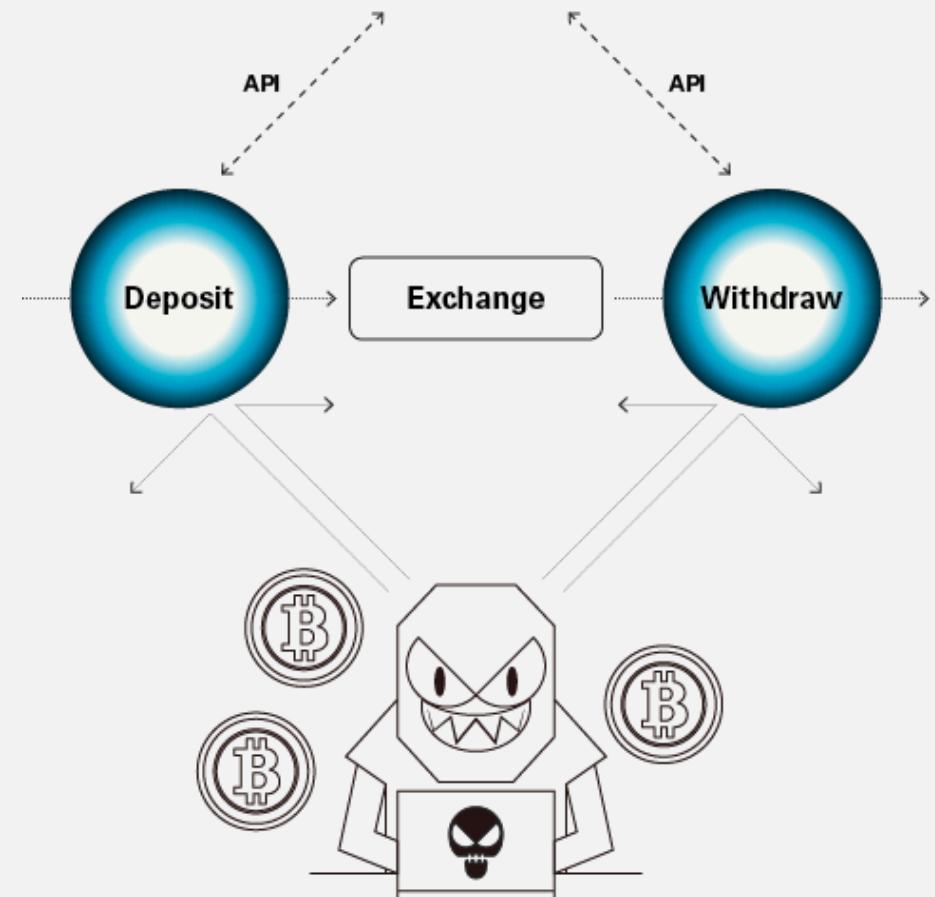
Sentinel Portal  
Exchange of Threat Intelligence

#### Become The Sentinels

Rewards for Security Data  
Data Earns Sentinel Points  
Sentinel Points Covert to UPP Rewards



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PROTOCOL**



## Solution

### Use Case 3

#### Stolen Money Cannot Be Used

Hacker / Scam Address Filtering  
Anomaly Detection

#### Global Alliances

Sentinel Portal  
Security Intelligence Exchange

#### Become The Sentinels

Rewards for Security Data  
Data Earns Sentinel Points  
Sentinel Points Covert to UPP Rewards



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API

Credit Service  
Crypto Payments



## Solution

### Utility Token as the Financial Rewards for the Sentinels

#### Token Usage

Security Features	Token	Reward
Sentinel Portal	Free	Sentinel Point
Threat Reputation DB	Free	Sentinel Point
API Access	Free	-
Anti-Scam Filtering	Free	-
Case Open	Free	Sentinel Point
ML Based Anomaly Detection	UPP fee	Sentinel Point
D-Sandboxing	UPP fee	Sentinel Point

#### Token Usage Model



#### Staking Rewards to The Sentinels



## A Strong Team of Cybersecurity Experts



Network security, Web application security, End point security,  
Machine learning security, Cloud security,  
Cryptography, White hat hacker



[SG] Patrick Kim (Founder and CEO)  
Cisco, Palo Alto Networks, Fortinet, F5  
Networks, Darktrace



[SG,KR] HM Park (Co-founder)  
Head of Operations  
F5 Networks, Darktrace,  
Penta Security Systems



[JP] John Kirch  
Chief Evangelist  
Darktrace, Watchguard, Softbank,  
Bank of America



[US] Dayeol Lee  
Core Development  
DEFCON CTF 3<sup>rd</sup> Winner (2010)  
Penta Security Systems



[SG] Michael Zhou  
Head of Threat Intelligence  
Palo Alto Networks, Evonik, AT&T



[SG] Narong Chong, Head of  
Security Operations  
Palo Alto Networks, F5 Networks



[SG] Guo Feng  
Core Development  
Singapore Exchange, Accenture,  
NCS



[KR] Minwoo Ku  
Head of Product  
Westcon, Dimension Data,  
CJ Group



[SG] Karly Choi  
Head of Marketing  
Cloudbric,  
Penta Security Systems

Investors and Partners

## A Growing Network of Global Alliance

### Investors



### Business / Technical Partners



kyber.  
network



— SoftBank  
— Ventures Korea



## Future Steps

# Overall Growth Strategy

### Phase 1

#### Partnership Building

- User acquisition through partnerships with crypto exchanges and wallet services
- Asian crypto hub
  - Based in Singapore
  - Leveraging Korean networks
  - An early start in Japan



### Phase 2

#### Community Building

- Extending online presence
- International expansion
- Community building with popular projects and partners



### Phase 3

#### Non-crypto Market

- Partnership with cyber security vendors
- Integration to government organizations and financial service institutions



## Future Steps

### Product Roadmap Strategy



[bit.ly/presentinels](https://bit.ly/presentinels)



The Pre-Sentinels Recruitment Program

Feb 25 - Mar 30

# Thank You

Visit our website: <https://sentinelprotocol.io>

Please contact us: [info@uppsala.foundation](mailto:info@uppsala.foundation)

Join our Telegram: [t.me/UppsalaFoundation](https://t.me/UppsalaFoundation)



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