

# BLOCKCHAIN

## INFRASTRUCTURE IN MALAYSIA

PRESENTED BY



neuroware



# BITCOIN

( the first application / popular digital asset )

vs

# BLOCKCHAINS

( the underlying tech / shared public edger )





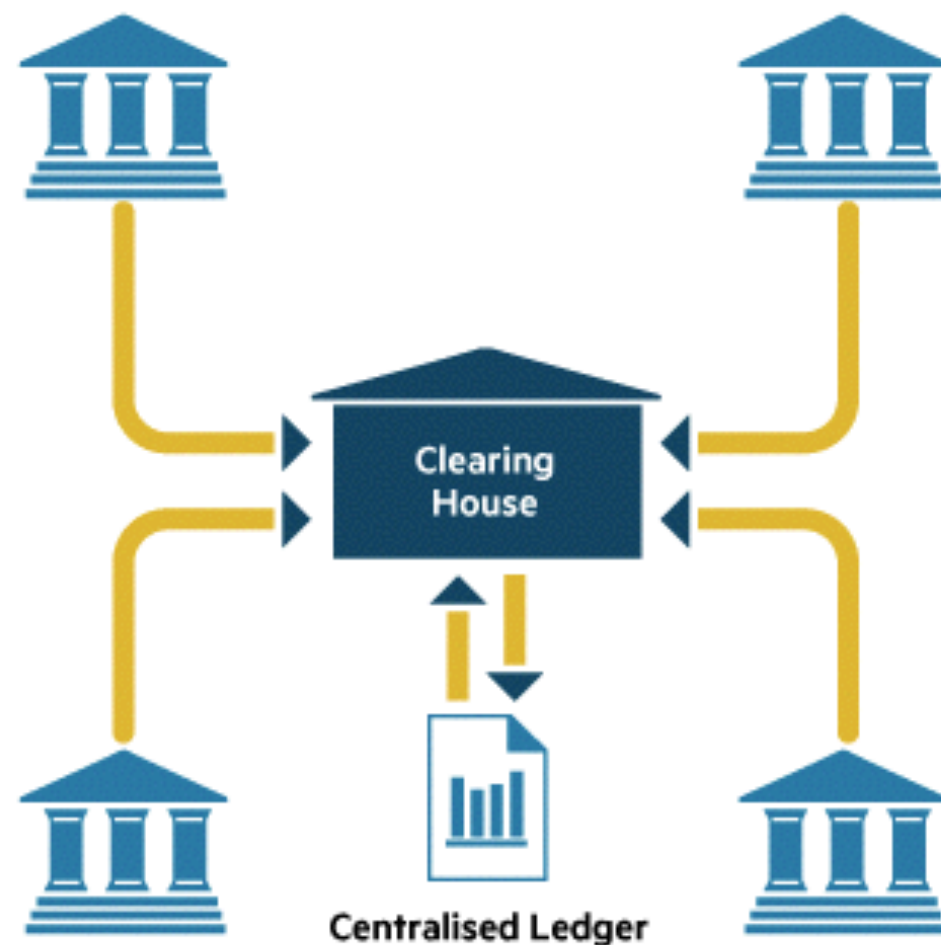
# WHY BLOCKCHAINS ? - THE **PROBLEMS** BEING SOLVED

- ⦿ **TRUST** - difficult to trust recorded data when data can easily be changed
- ⦿ **COSTS** - cloud based infrastructure & technical support can be expensive
- ⦿ **COLLABORATION** - blockchains provide a neutral standardized platform
- ⦿ **INNOVATION** - true innovation is difficult to achieve with legacy systems

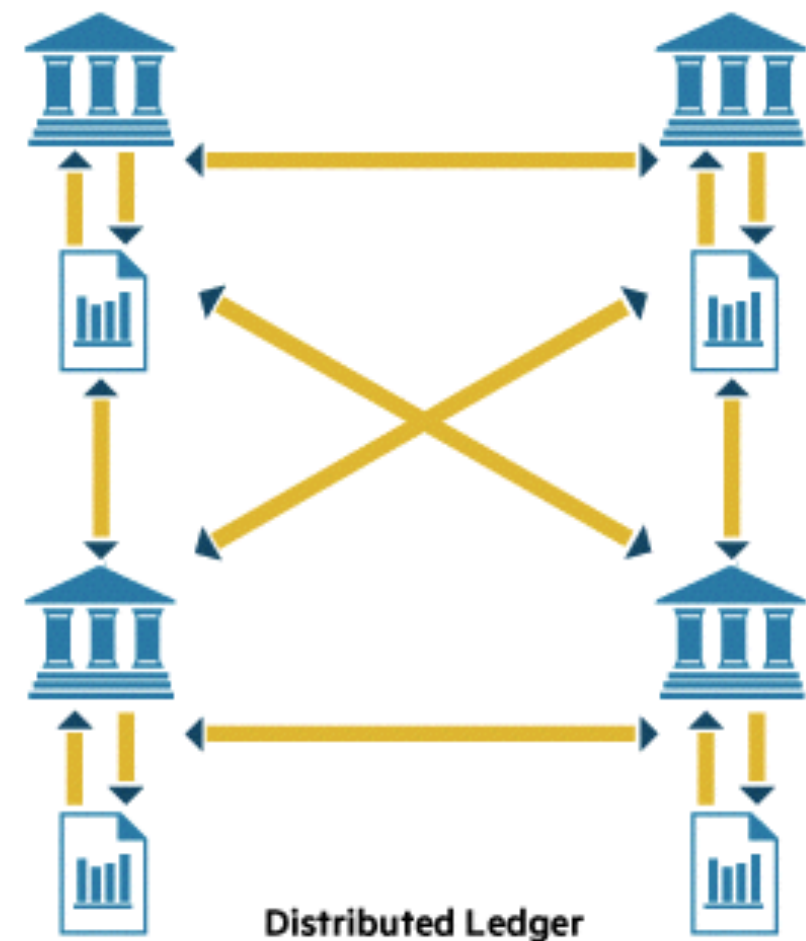


“While Fintech Disrupts Banks,  
the Blockchains Disrupt Fintech”

# INNOVATING HAS TYPICALLY REQUIRED **TRUSTING** OTHERS



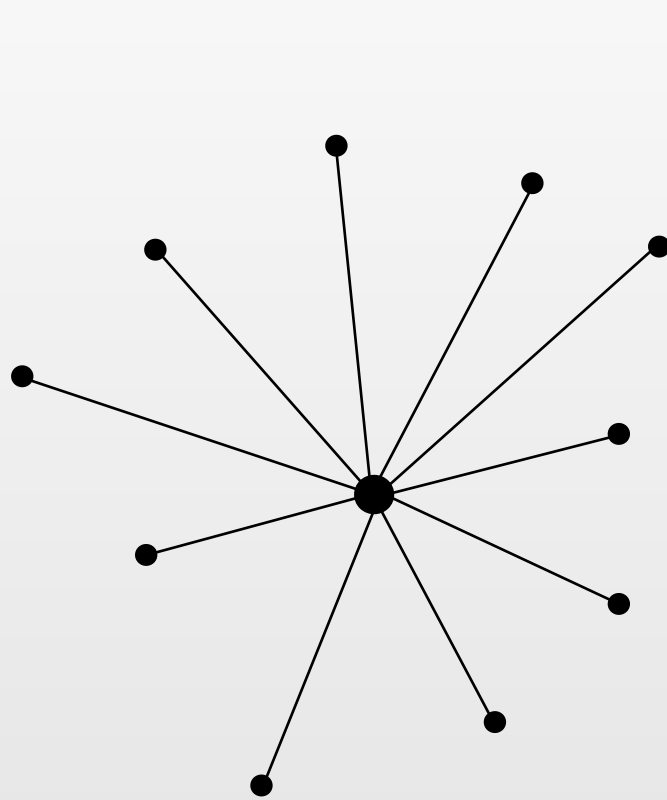
**THE OLD WAY**



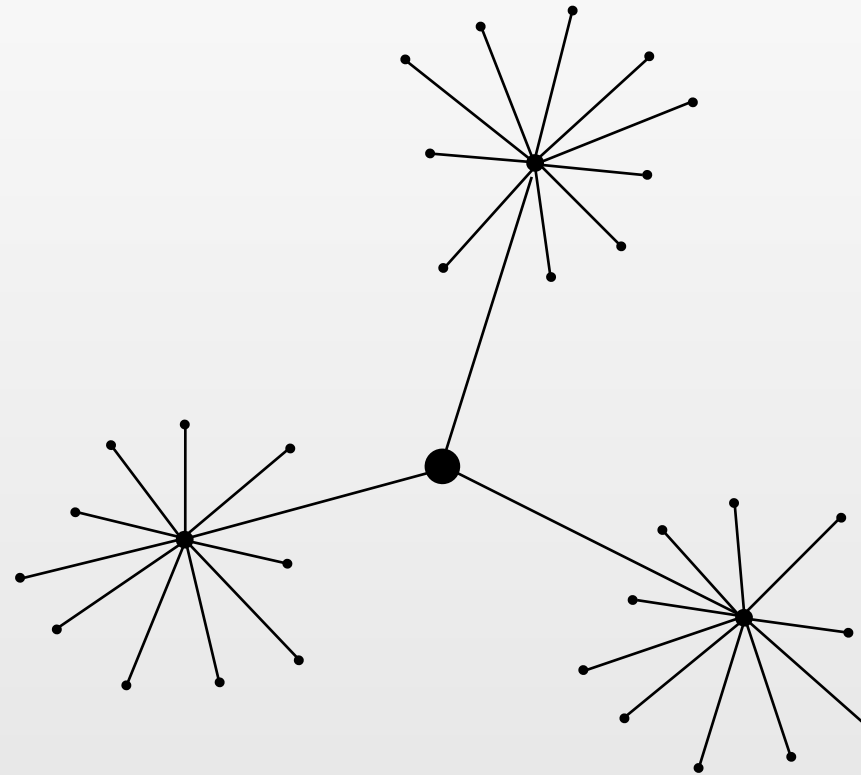
**THE NEW WAY**

- Reconciling Multiple Central Ledgers Vs Auto-Audited Distributed Ledgers?
- Batch Processing CSVs every 24 Hours Vs Really Real-Time Settlement?

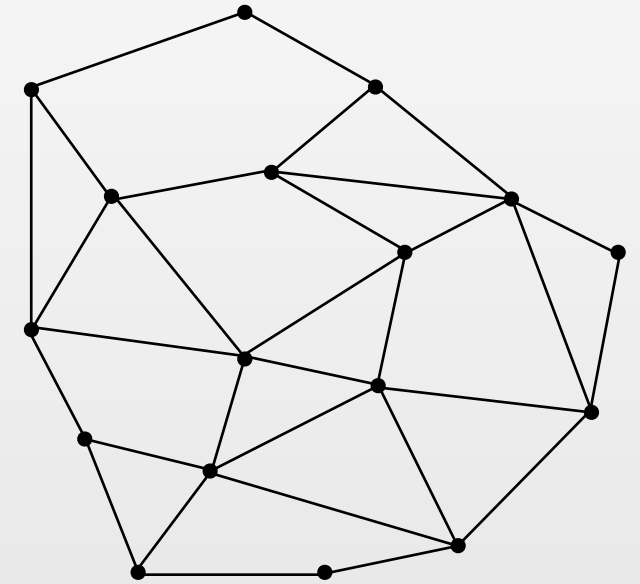
# NETWORK **EVOLUTION** - STORING DATA & SERVING CUSTOMERS



**CENTRALIZATION**  
**DATABASES**



**DECENTRALIZATION**  
**THE CLOUD**



**DISTRIBUTION**  
**BLOCKCHAINS**



**HILTON / TAXIS**

**AIR BNB / UBER**

**OPEN BAZZAR / LAZOOZ**

# HOW NEUROWARE HAS BEEN HELPING BUSINESSES IN MALAYSIA

Our parent company (R1) has been operational for 5 years - providing:

- 🕒 **EDUCATION** - from corporate innovation training to technical workshops
- 🕒 **CONSULTING** - brainstorming business use cases and product roadmaps
- 🕒 **DEVELOPING** - full stack product design, development and support

Our blockchain specific product range includes:

- 🕒 **WALLET FRAMEWORK** - easily deploy customized keyless HTML5 wallets
- 🕒 **DISTRIBUTED PROTOCOLS** - store data and identities on any blockchain
- 🕒 **CORTEX & SPINAL** - blockchain based operating system with APIs

# HOW BLOCKCHAINS COULD BE APPLIED TO SUNWAY GROUP

Standalone prototypes could quickly be developed in the following areas:

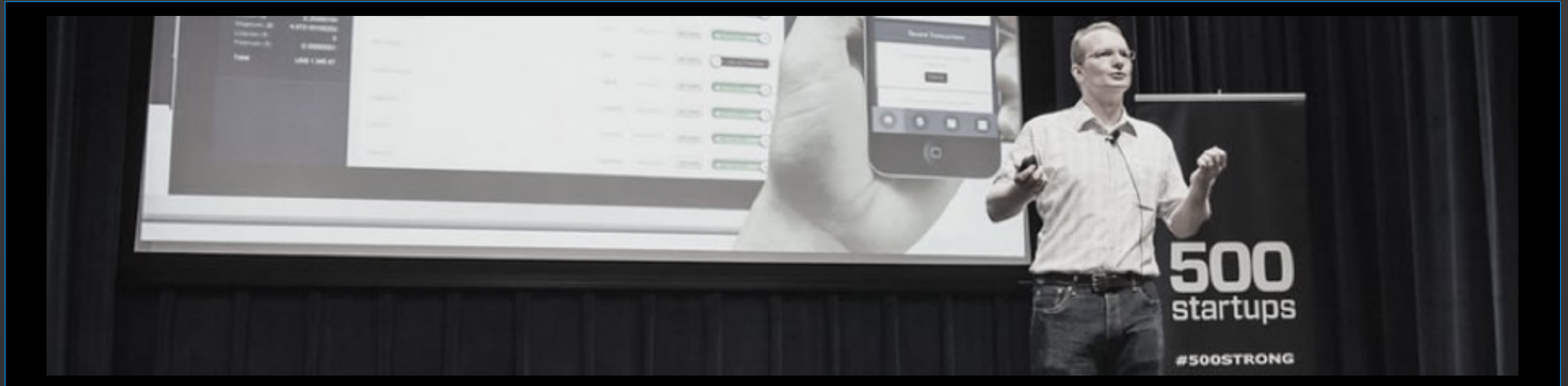
- 🕒 **HOSPITALITY & LEISURE** - from loyalty points to smarter IoT payments
- 🕒 **EDUCATION & HEALTHCARE** - tamper proof permanent public records
- 🕒 **SUPPLY CHAINS** - providing a secure neutral platform for multiple partners

Other organizations and institutions applying this technical for similar use cases:

- 🕒 **DISNEY** - released their own blockchain (dragonchain) in Q4 of 2016
- 🕒 **MIT & NHS** - both organizations exploring blockchains for public records
- 🕒 **WALMART & IBM** - both have invested heavily into blockchain supply chains



# WHY CHOOSE **NEUROWARE** TO EXPLORE BLOCKCHAINS ?



- 🕒 **Only Malaysian Company** to Graduate from 500 Startups in Silicon Valley
- 🕒 **1st Company in Asia** Providing Public Blockchain APIs & Developer Toolkits
- 🕒 **1st in The World** to Develop Non-Financial Blockchain Agnostic Protocols
- 🕒 Helped Organize World's 1st Bank-Backed Blockchain Hackathon (DBS)
- 🕒 Over 15 Years of Collective Blockchain Development Experience



# WHO FOUNDED THE **FIRST** BLOCKCHAIN MSC COMPANY ?



**Mark Smalley - CEO**

Living in Malaysia for the past 20 Years

Building Web Applications for 15 Years

Spent 10 Consulting with Government

Developing on Blockchains for 5 Years



**Ruben Tan - CTO**

Building Web Applications for 10 Years

Community Builder & Event Presenter

Early Developer at MyTeksi and OnApp

Studying Distributed Systems for 5 Years

# WE HAVE A TRUSTED TEAM OF VESTED-ADVISORS



**Colin Charles**

MariaDB Founder



**Adam Giles**

Ex Standard Chartered



**Hanson Toh**

Axiata / Ex Google



**David Barton Grimley**

Sapient Nitro



**Johnny Mayo**

Forbes 30 Under 30



**Wu Han Ngeow**

Maxis



**Gabey Goh**

Campaign Asia-Pacific



**Gareth Davies**

Mindvalley

# WE'VE BEEN WORKING WITH INSTITUTIONS AROUND THE WORLD

## REGULATORY TRAINING & WORKSHOPS



## INSTITUTIONS FUNDING US



## REGULATED INSTITUTIONS WE HAVE DONE BUSINESS WITH





# EXPLORING SEVERAL DIFFERENT INDUSTRIES OVER THE YEARS

## BANKING

From AML & KYC cost reductions to reward schemes & reaching the unbanked or general key-signing

## HEALTHCARE

Complete and immutable family histories of every related diagnosis and condition available from one key

## ACCOUNTING

Creation of programmable processes and automated auditing trails that increase transparency and efficiency

## LEGAL

Cryptographically secure document notarization, copyright protection, and dispute settlement

## GOVERNANCE

Increase the accountability of public officials and offer total transparency in voting and elections

## LOGISTICS

Tracking of shipping cycles and provenance systems that autonomously verify actions

## GAMING

Share digital assets between an entire network of games, or use the blockchains to create immutable persistent open-worlds

## ASSETS

Track possession of your property in the digital economy by creating, managing, storing, or sharing multiple asset classes

## INSURANCE

Integrated insurance and medical services can be intelligently designed to quickly and contractually settle claims with cryptographically

# EDUCATING AND TRAINING ORGANIZATIONS HAS BEEN KEY

“Having finally seen Cortex in action, I can safely say these guys have something truly special on their hands, my only disagreement is that they should be based in Singapore!”

“Neuroware have been our ‘go to’ guys with respect to blockchains and critical in raising the understanding of distributed ledgers for our senior leadership teams and partners”

“Neuroware have consistently been our key consultants with regards to blockchain technology. Their participation provided us with use cases that weren’t first obvious”



**Anson Zeal - CEO**  
**Bitcoin Remittance Company**



**Amran Hassan**  
**Head of Innovation**



**Max Tiong**  
**Head of FinTech**

# THE BLOCKCHAIN EMBASSY OF ASIA - MADE IN MALAYSIA



BlockChain Embassy Asia

AMBASSADORS

USE CASES

CONTACT EMBASSY

TOOLBOX

NEWS

our mission is to educate organizations throughout asia in both  
the legal and technical implications of distributed ledgers

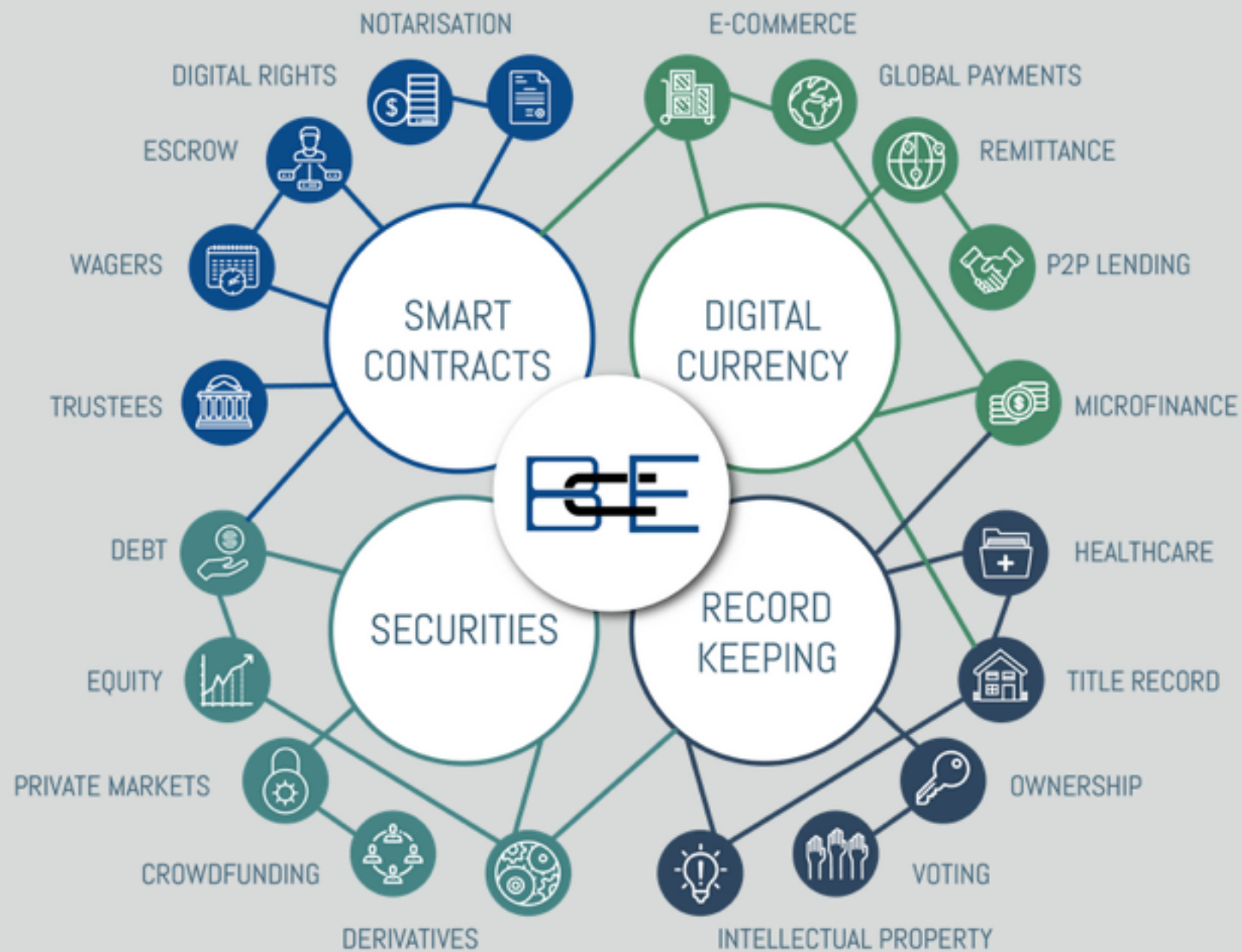
We are a non-profit digitally distributed organization that is using and promoting blockchain governance as a method for  
collaboration between various business entities and existing community efforts across Asia

REQUEST MEMBERSHIP



# BIG PROBLEMS INVOLVE MULTIPLE PARTNERS & MOVING PARTS

( now drawing attention from international banks seeking partnerships )



# 9 FOUNDING MEMBERS FORM THE STEERING COMMITTEE

## Malaysian BlockChain Ambassadors



Trustee Ambassador

MahWengKwai  
& Associates

Legal Ambassador



Banking Ambassador

CapitalBay

Invoicing Ambassador



Media Ambassador



IoT Ambassador



FinTech Ambassador



Education Ambassador



Technology Ambassador

# CORTEX USE CASE - ONE OF SIX LICENSED ECF OPERATORS

ataplus

COMMITTS

DATASTORES

ISSUERS

COMPANIES

INVESTORS

INVESTMENTS

SECTORS

ADD NEW

SCHEMA

DOCUMENTATION

powered by neuroware

Dogecoin (Testnet) Blockchain / ATA-Plus V0.0.1 / Datastores / Investments

Credits: 254.00000000 FLUSH LOGOUT

6 Months Sitewide Total Investments

RM Invested (Millions)

0.9

0.8

0.7

0.6

0.5

0.4

0.3

0.2

0.1

0

January

March

March

ADD NEW RECORD

74c87dfa57a94dc86666209cd87a01b5

Date of Investment

sort by

Most Recent

search investments

f2583c4bbbc1d7f70fe776ef8de24e3e9131884de2be5ed3365fe72e53fa2177

EDIT

DELETE

SCHEMA

Key	Value
Index: Investment ID [ auto ]	bf28617205e695439c0dd2285a76d7c1

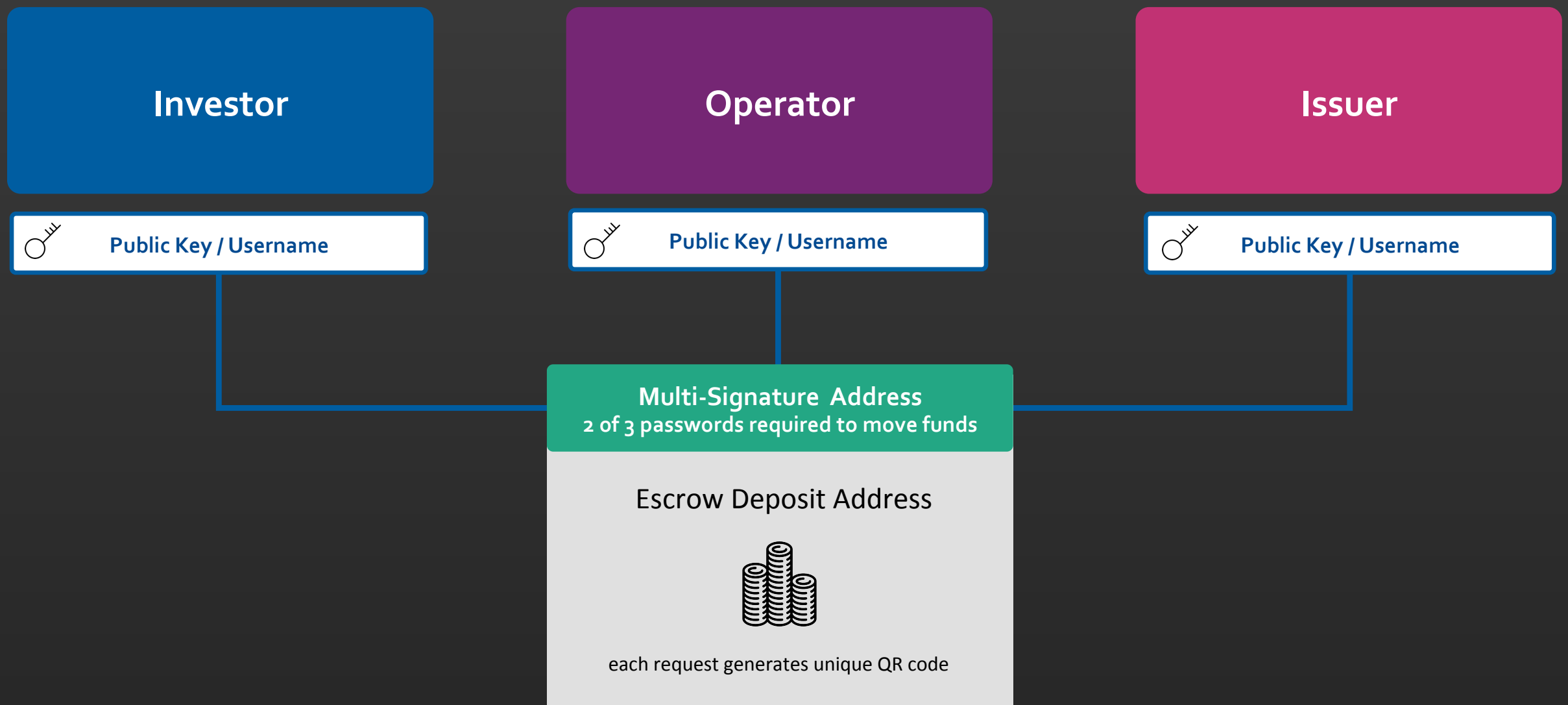
“For ECF to flourish, there must be a deep depository of trust and transparency that is frictionless & inclusive. Neuroware’s tech enables us to provide all that and more!”



Kyri - Co-Founder & Director of Licensed ECF Platform



# SPINAL USE CASE - PROVIDING KEY RECOVERY & ARBITRATION



# BREAKING THINGS DOWN INTO THREE **SMALLER** STEPS

## ◉ **STEP 1** - Conduct Relevant Training & Workshops



- ◉ - Understand Technical & Legal Implications
- ◉ - Define Suitable Roadmaps

## ◉ **STEP 2** - Design & Develop Prototypes



- ◉ - Start small with standalone projects
- ◉ - Implement basic foundations for future growth

## ◉ **STEP 3** - Integrate Existing Systems



- ◉ - Leaving the most time consuming part to last
- ◉ - Time to deploy custom digital tokens or new blockchains?

# THANK YOU

EMAIL US ( [founders@neuroware.io](mailto:founders@neuroware.io) ) ANY TIME

LEARN MORE ABOUT



neuroware

<http://neuroware.io>