



neuroware

**BLOCKCHAIN INFRASTRUCTURE PROVIDERS**

BITCOIN

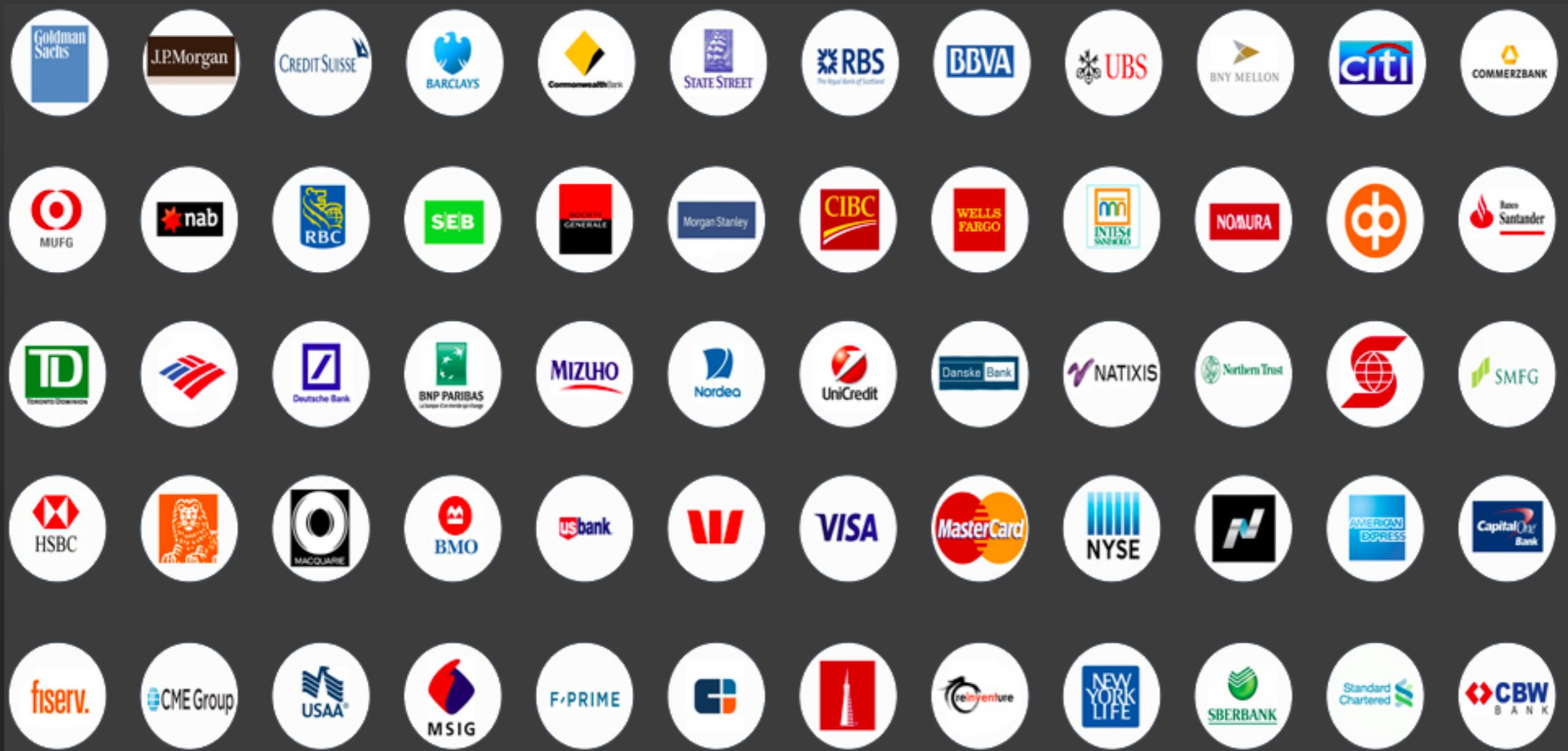
VS

BLOCKCHAINS



# BLOCKCHAINS - THE FASTEST GROWING TECH OF OUR LIFETIME

In 2016 alone, over 100 banks and leading financial institutions started working on blockchain projects - with the eco-system receiving over US\$1 billion in funding



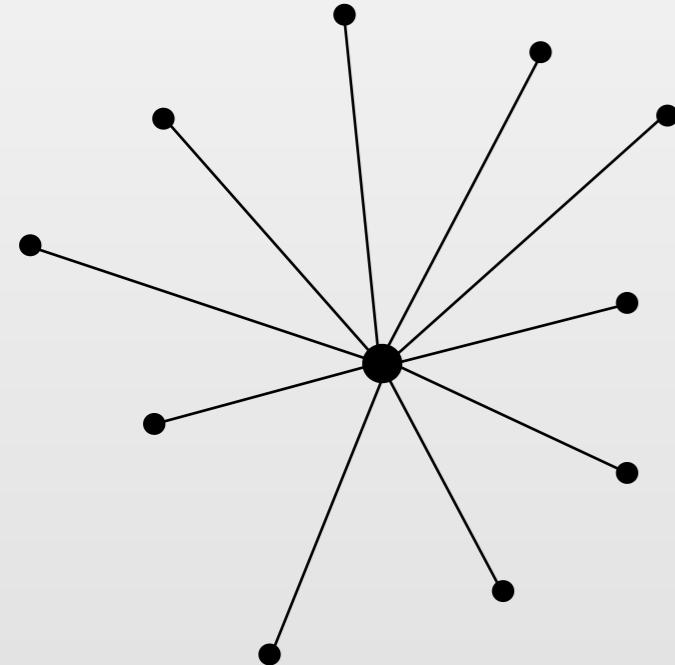
# WHY THE FUSS...? WHAT DO BLOCKCHAINS DO...?

- They provide an **immutable** tamper-proof audit-trail of the truth
- Data can be easily **shared** and independently verified by third-parties
- Vastly increased security that is much less vulnerable to attack or outage
- Programmable contracts that can radically reduce human errors and costs

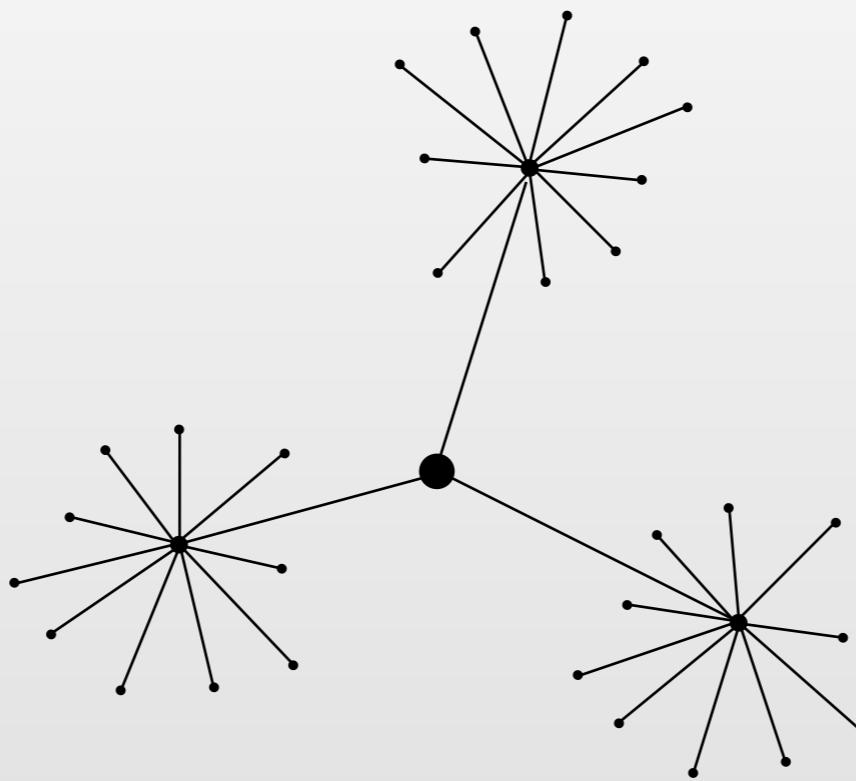


“While FinTech Disrupts Banks,  
the Blockchains Disrupt FinTech”

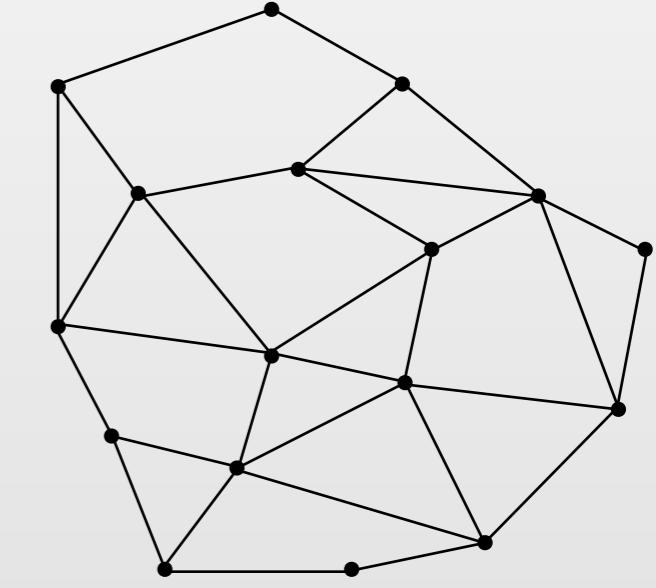
# COMPARED TO WHAT...?



**CENTRALIZATION**  
**DATABASE**

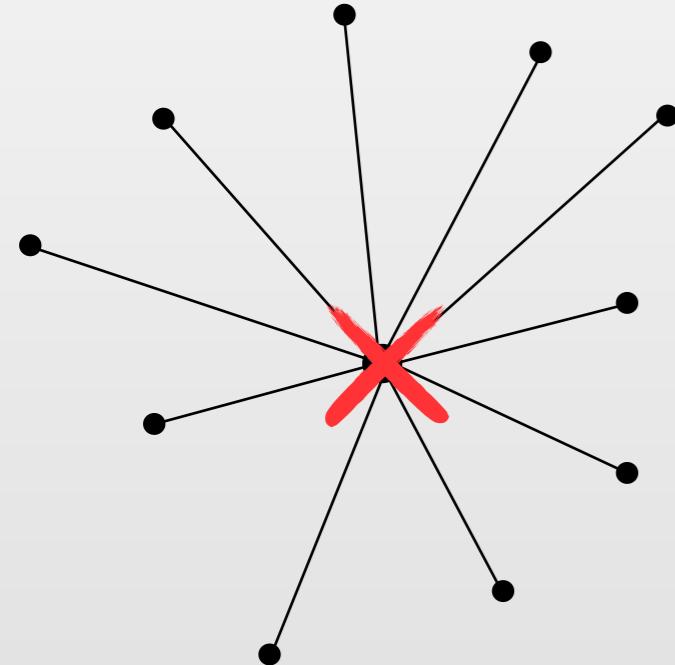


**DECENTRALIZATION**  
**THE CLOUD**

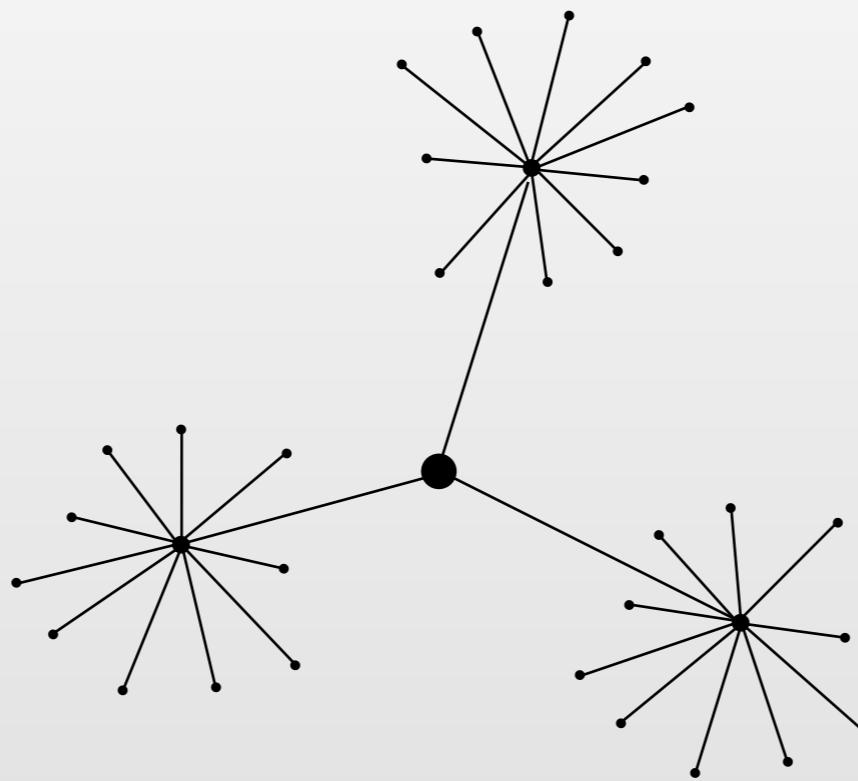


**DISTRIBUTION**  
**BLOCKCHAINS**

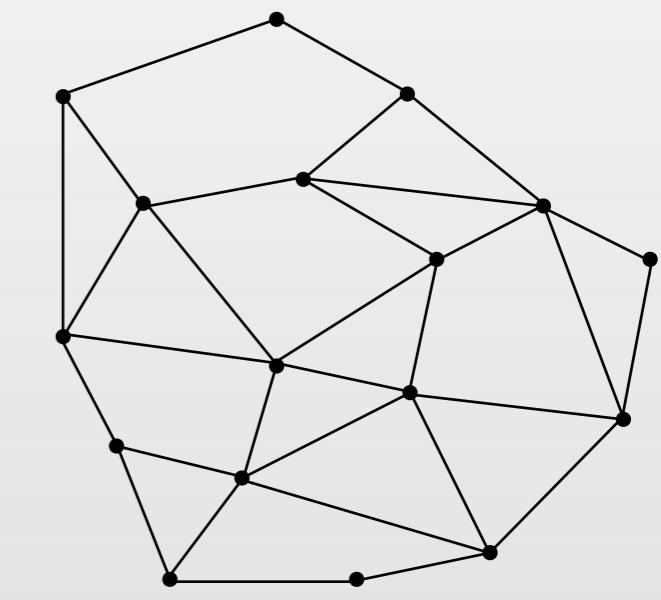
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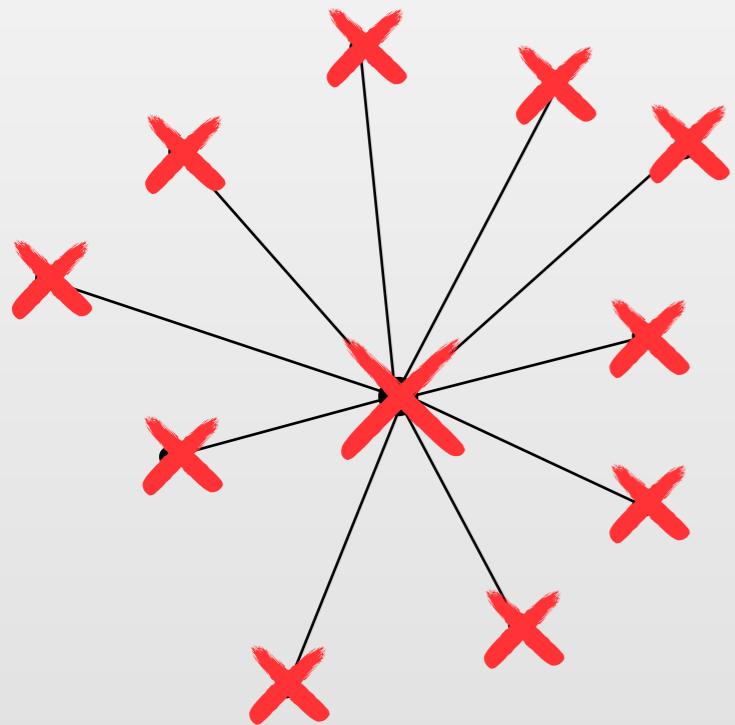


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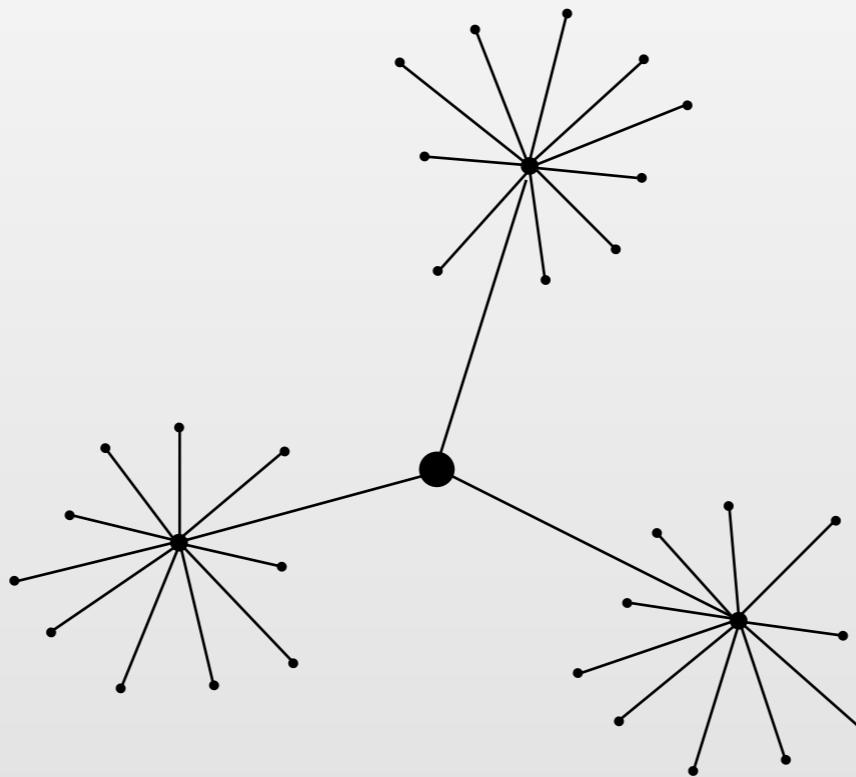


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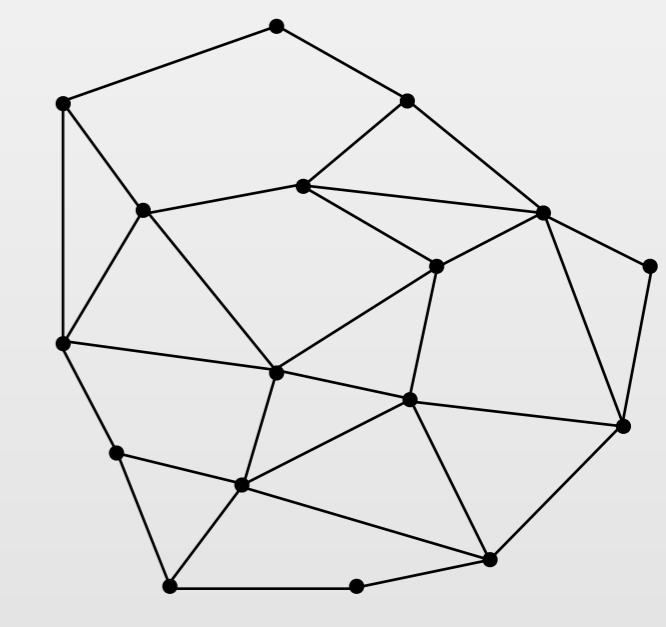
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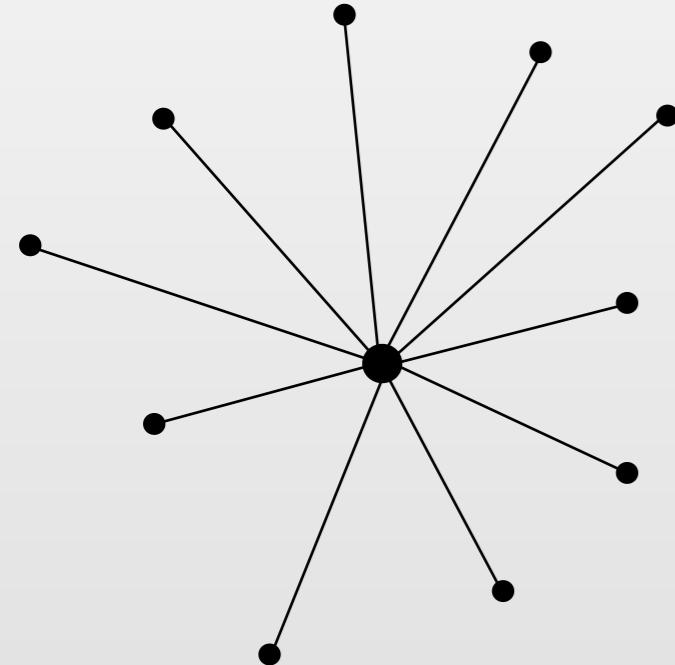


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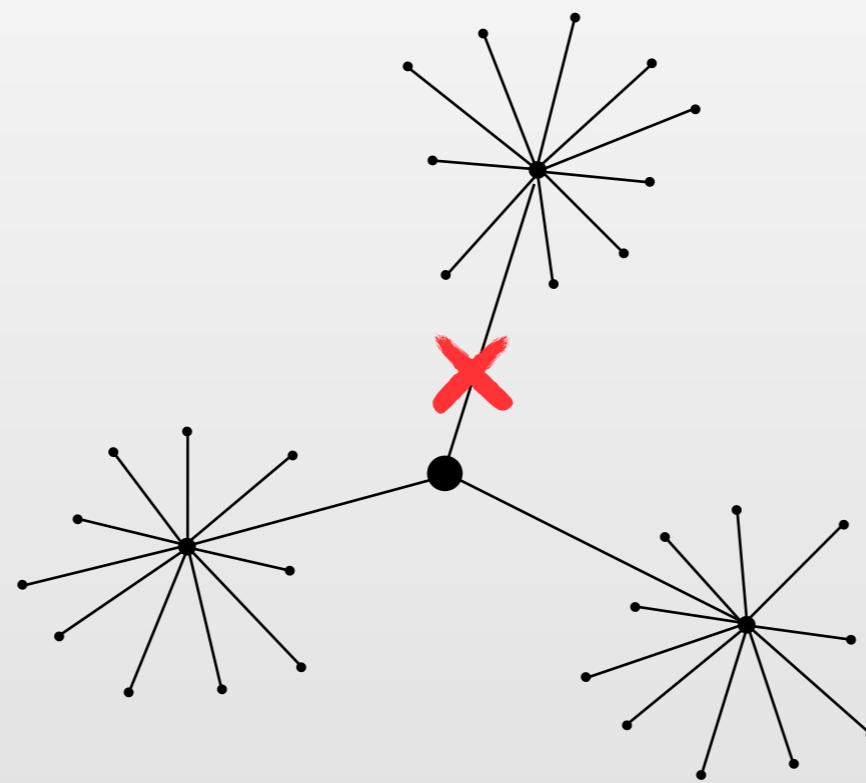


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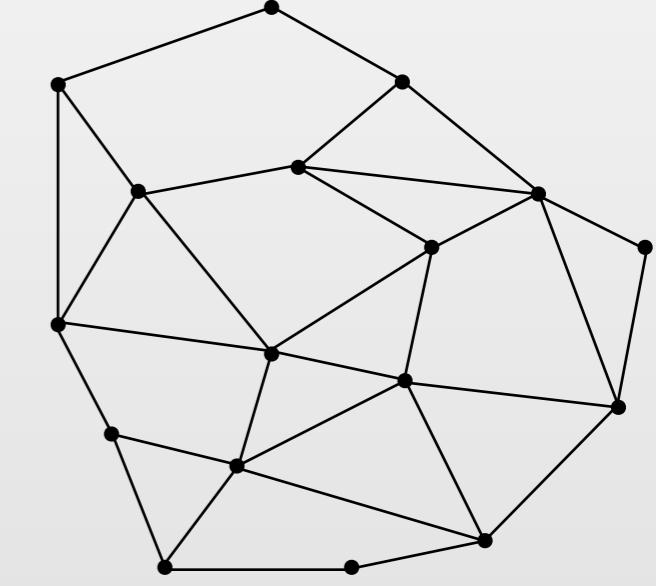
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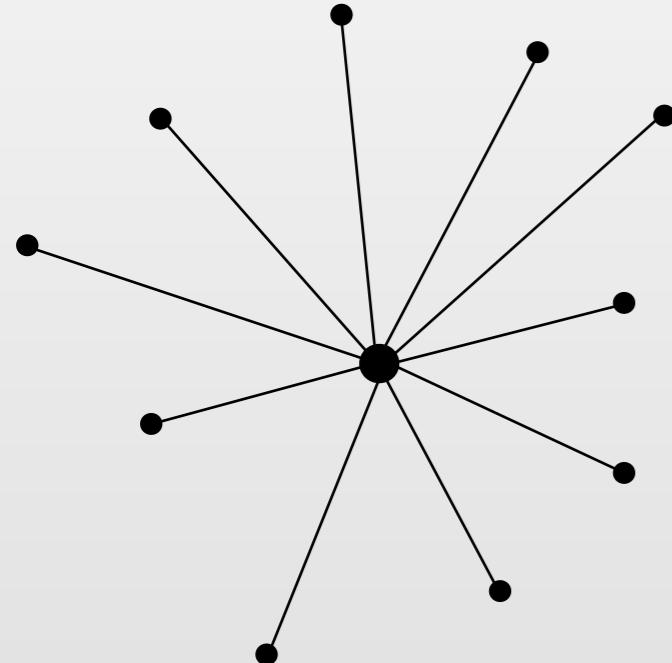


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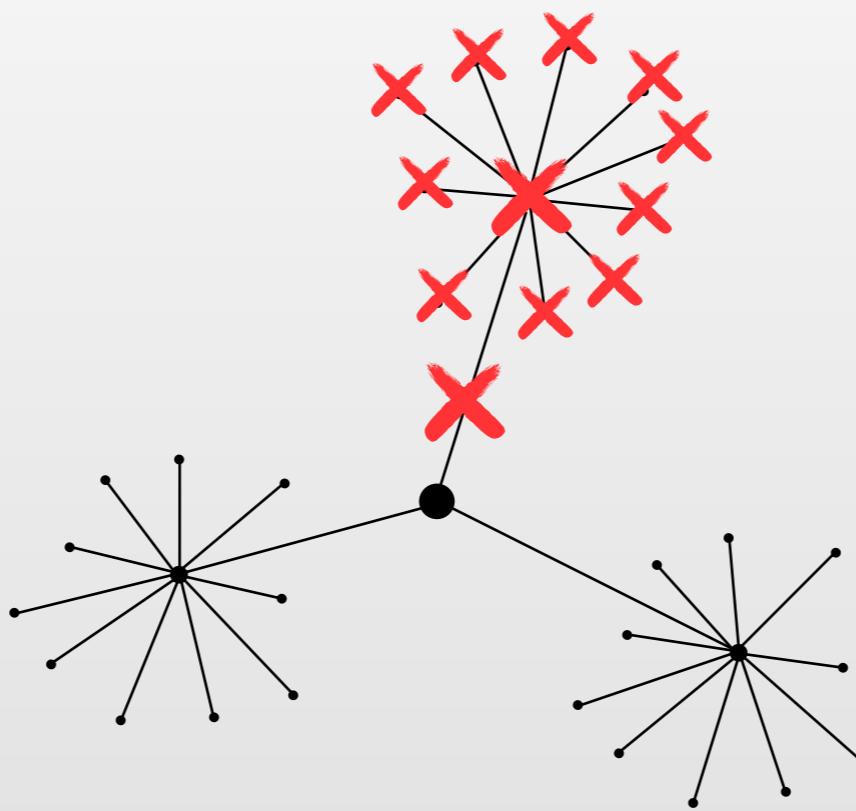


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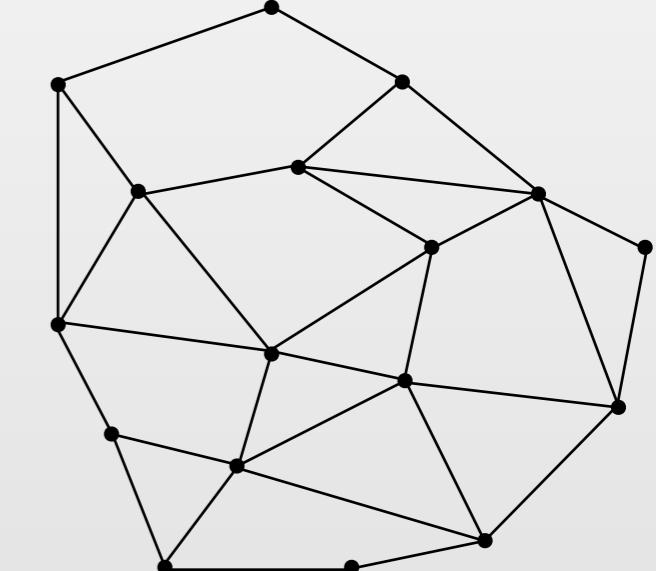
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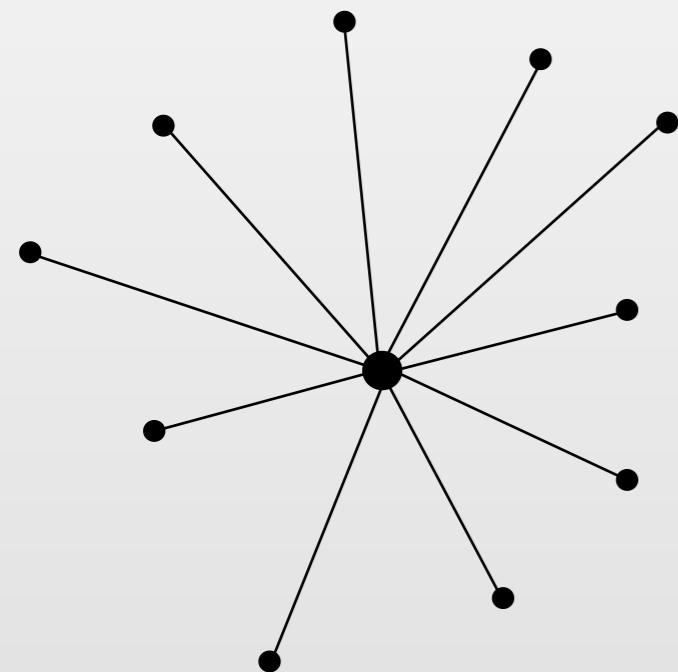


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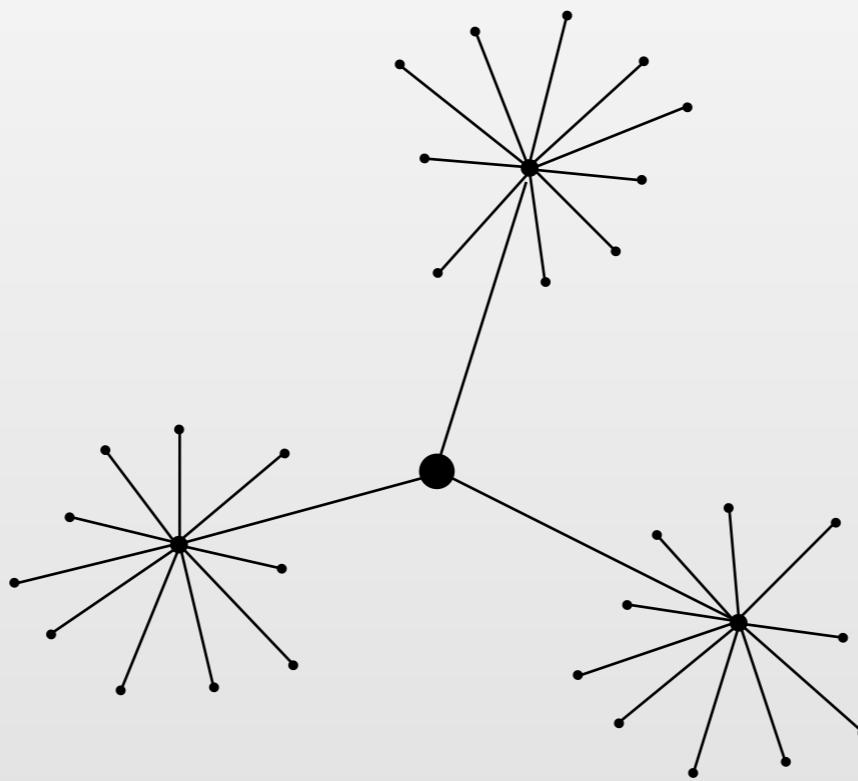


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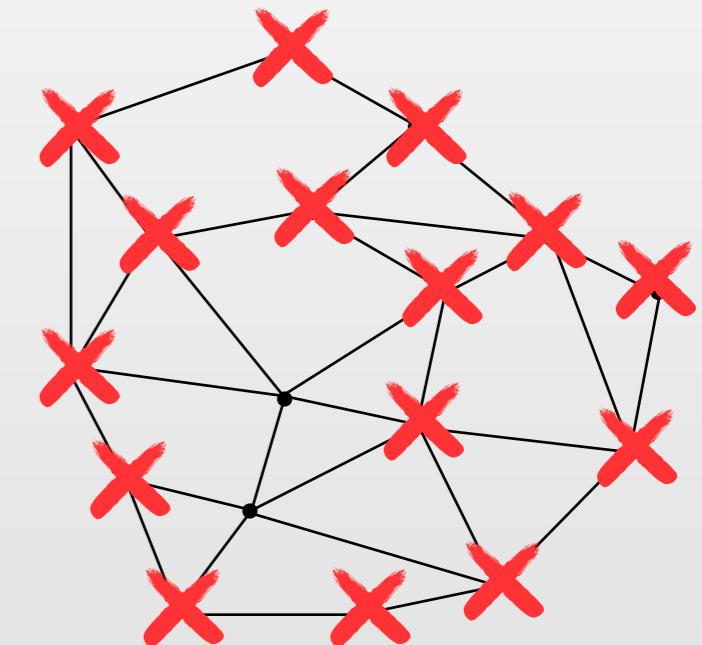
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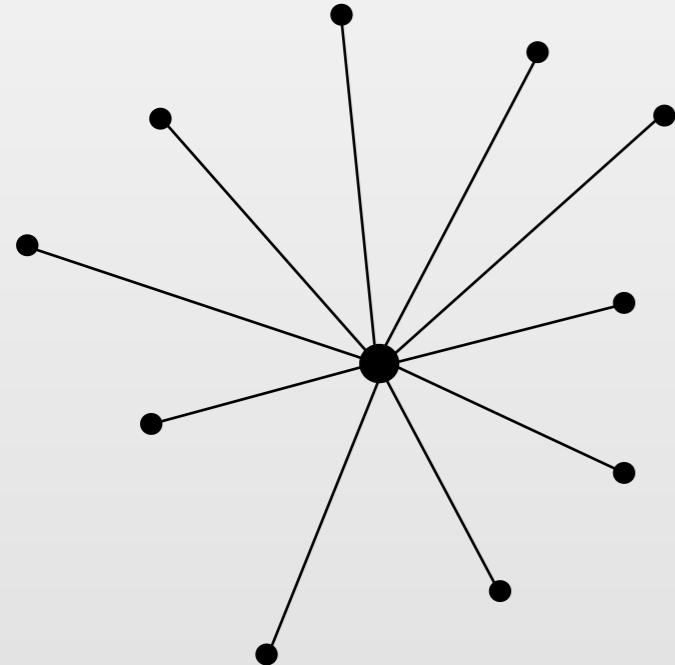


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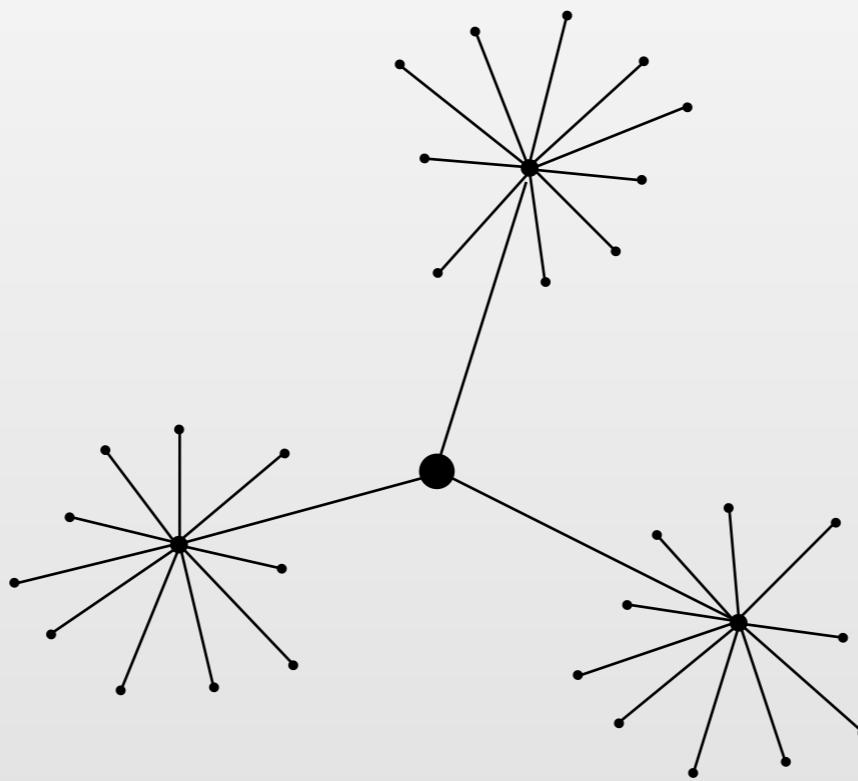


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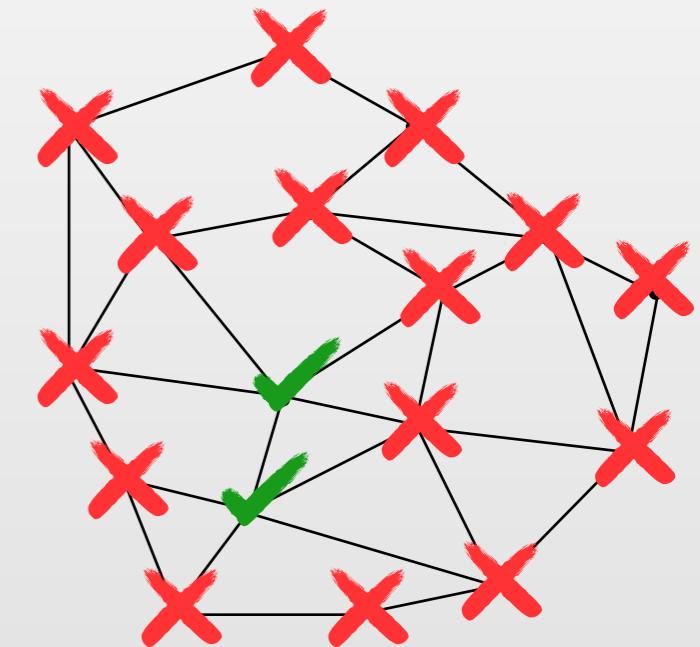
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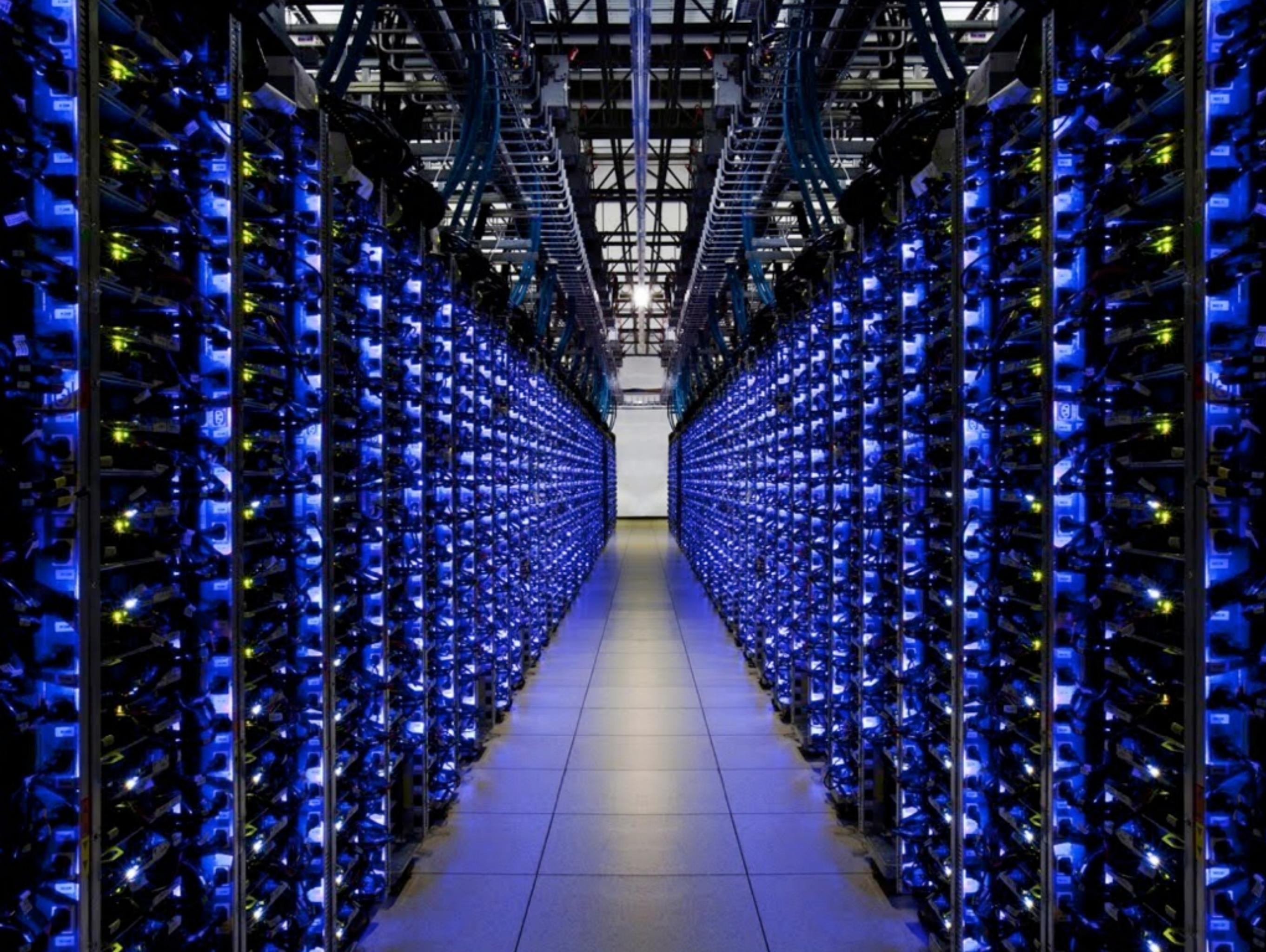
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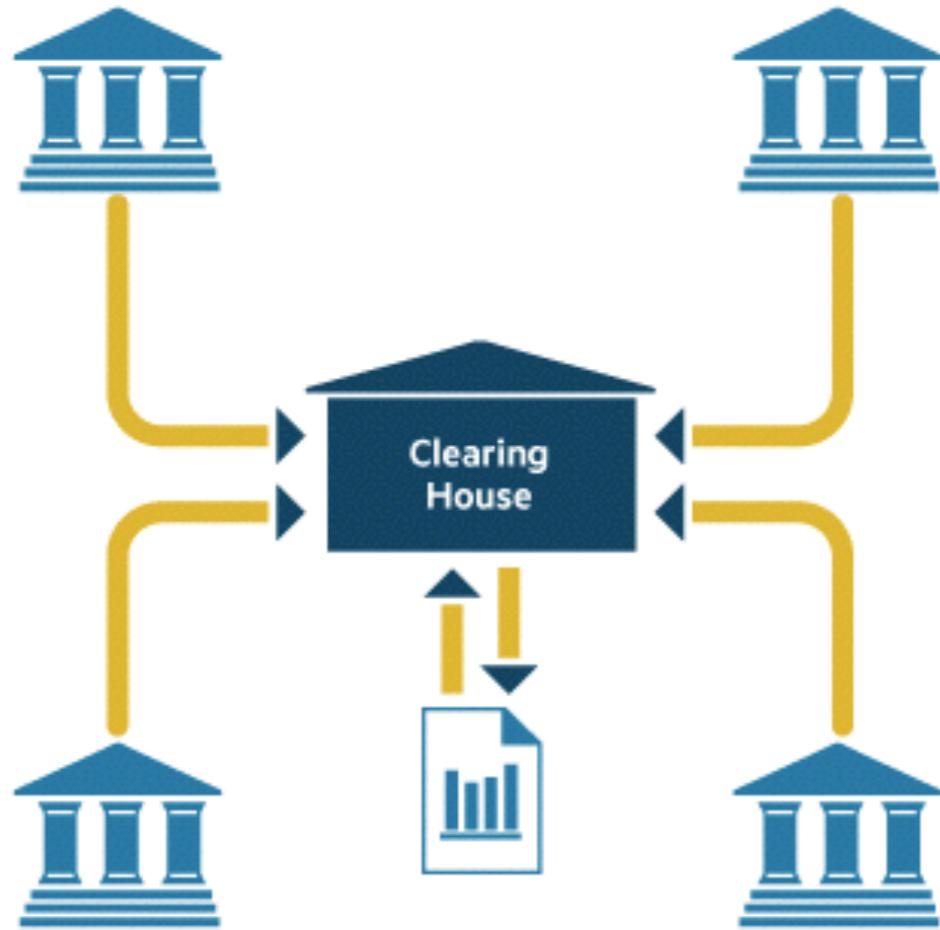
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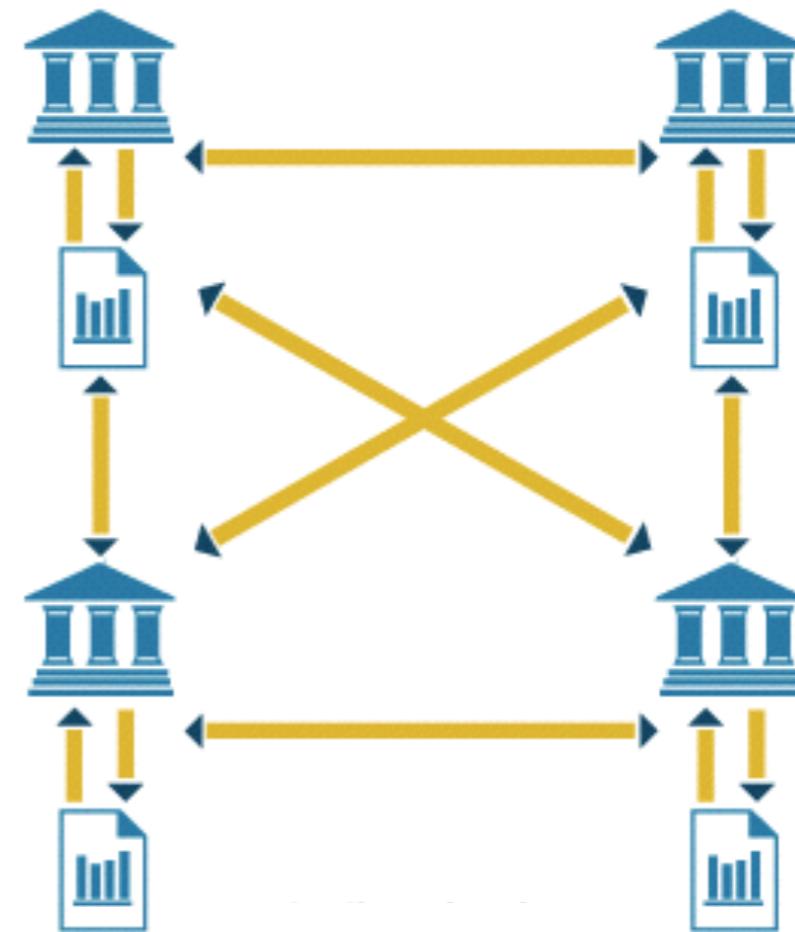
**DISTRIBUTION**  
**BLOCKCHAINS**



# CAN CENTRAL SYSTEMS COMPETE...?



**THE OLD WAY**



**THE NEW WAY**

- Not just money - healthcare suffers major reconciliation problems too
- Reconciling Multiple Central Ledgers Vs Auto-Audited Distributed Ledgers?
- Batch Processing CSVs every 24 Hours Vs Really Real-Time Settlement?

# BLOCKCHAINS ARE NOT JUST DISRUPTING FINTECH

## 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

# WHO ELSE IS STORING DATA ON THE BLOCKCHAINS...?

Although they are arguably very different due to their lack of data types (beyond 32 byte limited MD5 hashes - known as data anchoring), Factom and Tierion are our main competitors, but they are only servicing the US & European markets. No Asian competitors.

	FUNDING	DATA TYPES	DATA SOURCE	BLOCKCHAINS
FACTOM	US\$ 5M +	1	1	1
TIERION	US\$ 1M +	1	1	1
NEUROWARE	US\$200K	20*	3*	10*

\* These are merely out-of-the-box support - since everything is either modular in nature or based upon protocols, they all have unlimited scopes

# NEUROWARE ARE FIRST MSC STATUS BLOCKCHAIN COMPANY



## Mark Smalley - CEO

Living in Malaysia for the past 19 Years

Building Web Applications for 15 Years

Spent 10 Years Building Tech Communities

Developing Blockchains Apps for 5 Years

## Ruben Tan - CTO

Building Web Applications for 10 Years

Active Community Evangelist & Presenter

Early Developer at MyTeksi and OnApp

Studying Distributed Consensus for 5 Years

## EARLY FUNDING CAME FROM INTERNATIONAL INVESTORS



Neuroware was the first Malaysian based team to attend the illustrious 500 Startups accelerator in Silicon Valley, where we received our initial pre-seed investment of RM400K



CoinSilium are the world's first blockchain investment company to IPO on a stock market (with COIN as their ticker), investing RM250K into an extension of our pre-seed round

# 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

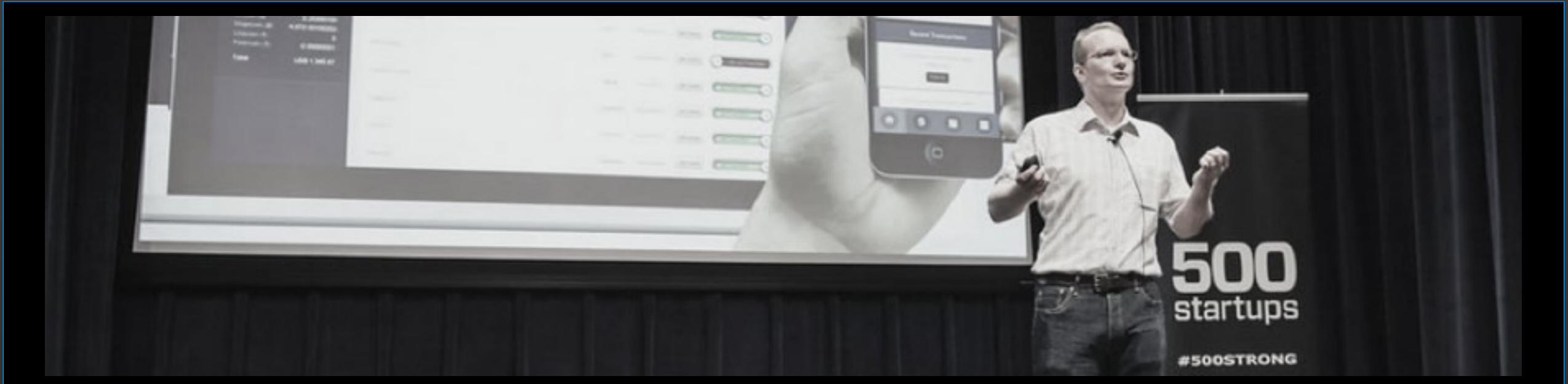


**Gabey Goh**  
Campaign Asia-Pacific



**Gareth Davies**  
Mindvalley

# WE ARE EXPERIENCED INNOVATORS IN AN EARLY ECOSYSTEM



- **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

# WE'VE SPENT TWO YEARS DEVELOPING OUR BASE PROTOCOLS

CORTEX

**EVERSTORE**

DISTRIBUTED  
STRUCTURED DATA

 blockauth

DECENTRALIZED ID &  
AUTHENTICATION

 dnkey

KEY LOGISTICS &  
BROADCASTING

## NEUROWARE'S AGNOSTIC PROTOCOLS

# WE USE THESE PROTOCOLS TO CONNECT TO ANY BLOCKCHAIN

```
-----",
"input_value": 400000000,
"input_value_disp": "4.00000000",
"output_count": 2,
"output_value": 200000000,
"output_value_disp": "2.00000000",
"inputs": [
{
  "value": 400000000,
  "value_disp": "4.00000000",
  "tx_id": "182a2c57a9969ddcdc2948aedff8486226a982a202bc3034992753c73701daba",
  "tx_pos": 0,
  "addresses": [
    "nRPH38h5hETsmxyPalXowedH9LqfTkYJKn"
  ]
},
"outputs": [
{
  "pos": 0,
  "script_hex": "76a9148ba007d09f63546bc509cb3659f70d5ad34fc91588ac",
  "script_pub_key": "76a9148ba007d09f63546bc509cb3659f70d5ad34fc91588ac",
  "script_pub_key_decode": "OP_DUP OP_HASH160 8ba007d09f63546bc509cb3659f70d5ad34fc915 OP_EQUALVERIFY OP_CHECKSIG",
  "script_type": "pubkeyhash",
  "script_data_decode": "",
  "pubkey_hash": "8ba007d09f63546bc509cb3659f70d5ad34fc915",
  "addresses": [
    "ngvRu3wkv6GWRhjiRVDwcCWlwxnVgcCaA3"
  ],
  "value": 200000000,
  "value_disp": "2.00000000",
  "spending_tx_id": "",
  "spending_tx_pos": 0,
  "is_spent": false
},
{
  "pos": 1,
  "script_hex": "6a0c4d61726b20536d616c6c6579",
  "script_pub_key": "6a0c4d61726b20536d616c6c6579",
  "script_pub_key_decode": "OP_RETURN 4d61726b20536d616c6c6579",
  "script_type": "nulldata",
  "script_data_decode": "Mark Smalley",
  "pubkey_hash": "",
  "addresses": [],
  "value": 0,
  "value_disp": "0.00000000",
  "spending_tx_id": "",
  "spending_tx_pos": 0,
  "is_spent": false
}
]
```

# CORTEX - THE WORLD'S FIRST BLOCKCHAIN OPERATING SYSTEM

 CORTEX

dashboard add domain add user add database add api key help credits : 11.00000000 flush logout

 DASHBOARD

 DOMAINS

 USERS

 DATABASES

 API

 EXPLORER

 WALLET

 SETTINGS

You are currently logged-in with your private key!  
Please remember to logout when you are done editing in order to remove the private key from localStorage.

**YOUR PROFILE** EDIT

	Name	Mark Smalley
	Title	Co-Founder & CEO
	Company	Neuroware

**CURRENT USAGE** REPORTS

Domains	3 / 10
Sub-Domains	64 / 100
User Accounts	5 / 10
Databases	72 / 100
Active Modules	2 / 7
Active Protocols	3 / 8

**RECENT ACTIVITY** MORE

-  Updated DNKey on [mark.neuroware.io](#)  
12 seconds ago by [Mark Smalley](#)
-  Added new user [johnny.neuroware.io](#)  
1 minute ago by [Mark Smalley](#)
-  New Everstore db at [team.neuroware.io](#)  
3 minutes ago by [Mark Smalley](#)
-  New wallet for [mark.neuroware.io](#)  
1 hour ago by [Mark Smalley](#)
-  Added new user [johnny.neuroware.io](#)  
2 days ago by [Mark Smalley](#)
-  New Everstore db at [team.neuroware.io](#)  
3 weeks ago by [Mark Smalley](#)
-  New DNKey on [keys.neuroware.io](#)  
3 month ago by [Mark Smalley](#)

 neuroware

SLIDE # 22

# EASILY CUSTOMISED THROUGH MODULAR THEMES AND PLUGINS

ataplus Dogecoin (Testnet) Blockchain / ATA-Plus V0.0.1 / Datastores / Investments Credits: 254.00000000 FLUSH LOGOUT

COMMITS

DATASTORES

- ISSUERS
- COMPANIES
- INVESTORS
- INVESTMENTS
- SECTORS
- ADD NEW

SCHEMA

DOCUMENTATION

6 Months Sitewide Total Investments

RM Invested (Millions)

Month	RM Invested (Millions)
January	~0.4
March	~0.35

sort by Most Recent search investments

f2583c4bbbc1d7f70fe776ef8de24e3e9131884de2be5ed3365fe72e53fa2177 EDIT DELETE SCHEMA

Key	Value
Index: Investment ID [ auto ]	bf28617205e695439c0dd2285a76d7c1

ADD NEW RECORD

74c87dfa57a94dc86666209cd87a01b6 Date of Investment

“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!”

ataplus

Kyri - Co-Founder & Director of Licensed ECF Platform

powered by neuroware

# PROBLEMS FACED BY ECF OPERATORS AND OUR SOLUTIONS

- Difficult to truly include as many retail investors as possible due to 50 limit
- Difficult to attract international investors due to current market sentiment
- Difficult to actually work in real-time due to offline financial trustee services and daily batch-based CSV transactions with other financial institutions
- Having worked with ATA-Plus now for several months, we've been able to:
  - Utilize the blockchains to store public data related to our campaign
  - Utilize the blockchains to provide an optional digital form of equity
  - Utilize the blockchains to develop an ECF loyalty reward platform
  - **World's 1st** fully licensed ECF campaign to accept Bitcoin

# EDUCATION IS THE MOST IMPORTANT COMPONENT

“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

# NOW RAISING RM 1.2 MILLION AT A RM 12 MILLION VALUATION

In order to reach annually recurring revenues of over RM70 million within 3 years, our financial projections account for obtaining 4 clients within the first 3 months and then growing at 10% month over month

	YEAR ONE	YEAR TWO	YEAR THREE
ANNUAL COSTS	RM 1,032,000	RM 1,548,000	RM 2,268,000
ANNUAL REVENUE	RM 5,903,104	RM 19,175,637	RM 59,199,966
ANNUAL P&L	RM 4,871,104	RM 17,627,637	RM 56,931,966
Nett Profits	<b>RM 4.8 Million</b>	<b>RM 22.4 Million</b>	<b>RM 79.4 Million</b>



# neuroware

**BUILDING THE FUTURE TOGETHER**

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