



WHAT IS BLOCKCHAIN?

Answer...



WHAT IS BLOCKCHAIN?

Answer...

A LEDGER



WHEN WAS THE
FIRST
BLOCKCHAIN
PATENT?

Answer...



WHEN WAS THE
FIRST
BLOCKCHAIN
PATENT?

Answer...

AUGUST 16, 1996

(Developed in 1995)



WHO FILED THE PATENT?

Answer...

a. Bitcoin

b. US D.O.D

c. NET1 Inc



WHO FILED THE PATENT?

Answer...

NET1 Incorporated



THE INTENTION?

NTERNET BASED
PAYMENTS

ORIGINAL NAME?

NetChex™

"CRYPTOGRAPHIC PAYMENT SYSTEM"

PCT

REQUEST

| PCT | For receiving Office use only |
|--|---|
| | International Application No. |
| REQUEST | , |
| | International Filing Date |
| The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty. | Name of receiving Office and "PCT International Application" |
| | Applicant's or agent's file reference (If desired) (12 characters maximum) NET09 003 |
| PUBLIC/INSECURE COMMUNICATIONS MEDI | SMISSION OF SENSITIVE INFORMATION OVER A |
| Box No. II APPLICANT | |
| Name and address: (Family name followed by given name; for a legal er The address must include postal code and name of country. The country of Box is the applicant's State (i.e. country) of residence if no State of residen | ntity, full official designation. I the address indicated in this nee is indicated below.) This person is also inventor. |
| NET 1 Incorporated 3236 E. Chandler Blvd. #2051 | Telephone No. 602 706 8200 |
| Phoenix, AZ 85044 US | Facsimile No. |
| | Teleprinter No. |



FUN FACT

RSA

Conducted The First Review and Audit Of The Cryptography

FUN FACT

RSA

Still Uses A
Variation Of This
Cryptography With
SecureID™ Soft
Token





2018 CNBC Report

Blockchain Bandwagon

INSTITUTIONAL INTEREST

(Banks, FI's, Credit Cards, Exchanges)

84%

Exploring and Experimenting

MAJOR ADOPTION

BY

2025

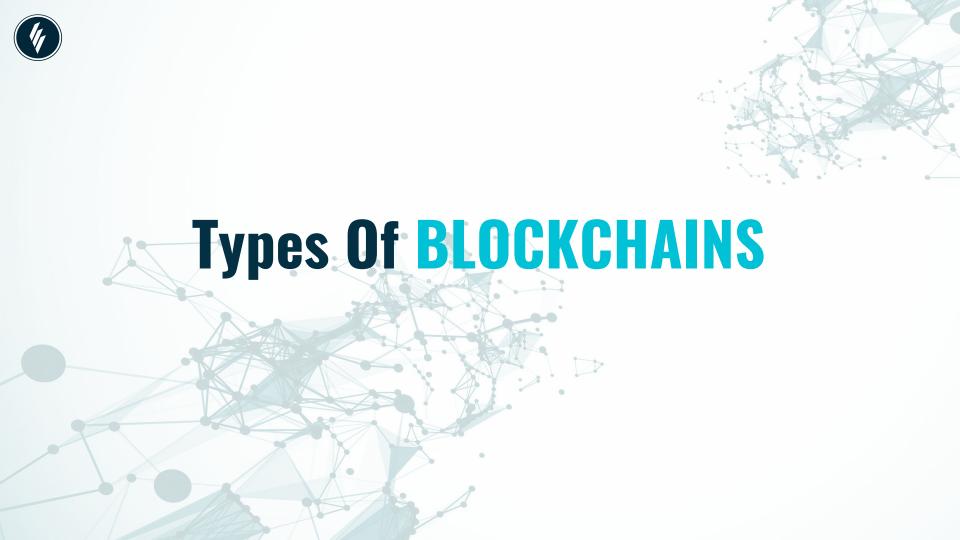
INDUSTRY INTEREST

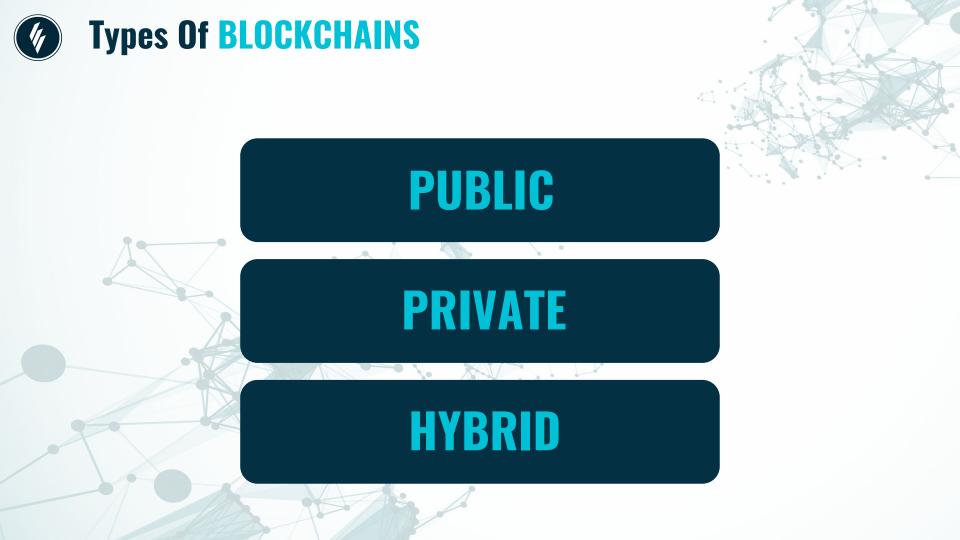
COMMERCIALLY

PAYMENTS
BANKING
INVESTMENT
FINANCE
REAL ESTATE
ENERGY
SMART CITIES
TRADE and FINANCE

ENTERTAINMENT

GAMING MUSIC GAMBLING REWARDS ROYALTIES PAYMENTS







Types Of BLOCKCHAINS: PUBLIC

PUBLIC BLOCKCHAINS

Complete Transparency

TIME STAMP

Tx DETAILS

SECRETS

PARTICIPANTS



Types Of BLOCKCHAINS: PUBLIC

| Height | Time | Relayed By | Hash | Size (kB) |
|---------------------|---------------------|-----------------|--|-----------|
| 570359 (Main Chain) | 2019-04-05 17:50:52 | BTC.TOP | 00000000000000000010b6a7800c1d2385612071620daac6355b8771f15cc421 | 1,265.04 |
| 570358 (Main Chain) | 2019-04-05 17:36:28 | Unknown | 0000000000000000000027c21df803308ebebc82ce71ddcb314552e26152fa652 | 1,143.93 |
| 570357 (Main Chain) | 2019-04-05 17:36:12 | Unknown | 00000000000000000016663a885818bdb25944507e8be0964aa3f3b3126c107f | 1,208.06 |
| 570356 (Main Chain) | 2019-04-05 17:32:52 | Unknown | 0000000000000000001b9635a929b6ee7cd12178d3b4dd50c05e315870921122 | 1,369.9 |
| 570355 (Main Chain) | 2019-04-05 17:30:43 | BitClub Network | 000000000000000000018657d677427e03b9046ecb7a2f9b0aaa073f255f09a3 | 1,215.82 |
| 570354 (Main Chain) | 2019-04-05 16:53:48 | ViaBTC | 000000000000000000028b9d9955f935eee0e6880644e6c72b31cee0c5c5e417e | 1,300.68 |
| 570353 (Main Chain) | 2019-04-05 16:44:45 | BitClub Network | 000000000000000000029bb03c0f678ed5e1e77fc956524d534282514b28a692b | 1,326.35 |
| 570352 (Main Chain) | 2019-04-05 16:17:37 | Unknown | 00000000000000000000000000000000000000 | 1,426.45 |
| 570351 (Main Chain) | 2019-04-05 16:15:07 | Unknown | 000000000000000000009fe7b3883c869ce3f007e3f6806a45afaf7f22042575d | 1,379.83 |
| 570350 (Main Chain) | 2019-04-05 16:13:56 | BTC.com | 0000000000000000000279117f2f7e1f09039bf05d5917239d197ce60d0b0d5f3 | 1,253.22 |
| 570349 (Main Chain) | 2019-04-05 16:11:52 | KanoPool | 00000000000000000110dc47d36f3b493b60ca4ed5b7a93b2af029f0adfa8c6 | 1,280.8 |
| 570348 (Main Chain) | 2019-04-05 16:04:36 | Unknown | 000000000000000000000020842093cbaddf9118c661224dcbe7b4122ddd10fce02b | 1,159.75 |
| 570347 (Main Chain) | 2019-04-05 16:01:02 | F2Pool | 000000000000000000000658ece9be0ad55d64cace67481a87e1ae9ae7a2628403 | 1,289.57 |
| 570346 (Main Chain) | 2019-04-05 15:59:36 | Unknown | 000000000000000000131cde639f1f40c2807eb3fea207b45ac510274c5e9f46 | 1,189.47 |
| 570345 (Main Chain) | 2019-04-05 15:55:11 | BitClub Network | 00000000000000000000b238f250e4f9a0c189bb7c768c9bcdae5774c80b950c8 | 1,433.7 |
| 570344 (Main Chain) | 2019-04-05 15:53:56 | BTC.com | 0000000000000000000008edfca957aebb52f9896d02107f1a796508f708fc23af | 1,220.03 |
| 570343 (Main Chain) | 2019-04-05 15:46:39 | Unknown | 00000000000000000117cfcad398084b74830bd36708c7484d1c45d1810f85e | 1,260.39 |



Types Of BLOCKCHAINS: PUBLIC

Transaction View information about a bitcoin transaction

9a9aa587c509a3efeea133a0650333d0ca43b0840dbc95903c16fbaf311d5621

3Pjh14b9PdBL6gPM2TWgTRKyqi5mmUYkgv 31nvUjmGe9i8miY9drwEbyAywn8R1MRK66 328CoQVWNxVLnzasHpCBQwuYp1N3V6TCNv



32NPBpWcRVhzKkpenvm8HkXyenLFecmJAA 3JAZPhHg2BaAii3FFpPaF69D8aKgjeZAsG 3MQrkgzygKspihtk8y4KJhw1t45Mvb16KV 37D2pV6bWnuSvUaBFvMSi59yjdHHyy1nap 3E6bsSzQZpkceyemvf2GcMfMbmwgB5oVQ3 0.04409729 BTC 11.86651819 BTC 11.86651819 BTC 16.46226837 BTC 11.86651819 BTC

1 Confirmations

52.10592023 BTC

| Summary | |
|-----------------------|--|
| Size | 686 (bytes) |
| Weight | 1772 |
| Received Time | 2019-04-05 17:48:53 |
| Included In Blocks | 570359 (2019-04-05 17:50:52 + 2 minutes) |
| Confirmations | 1 |
| Visualize | View Tree Chart |

| Inputs and Outputs | |
|--------------------------|-------------------------|
| Total Input | 52.10768149 BTC |
| Total Output | 52.10592023 BTC |
| Fees | 0.00176126 BTC |
| Fee per byte | 256.743 sat/B |
| Fee per weight unit | 99.394 sat/WU |
| Estimated BTC Transacted | 0.04409729 BTC |
| Scripts | Show scripts & coinbase |



Types Of BLOCKCHAINS: PRIVATE

PRIVATE BLOCKCHAINS

ZERO Public Transparency Permissioned Parties Only **TIME STAMP**

TX DETAILS

SECRETS

PARTICIPANTS



Types Of BLOCKCHAINS: HYBRID

HYBRID BLOCKCHAINS

1 Blockchain 2 States: Private and Public

PUBLIC

TIME STAMP

X

X

X

PRIVATE

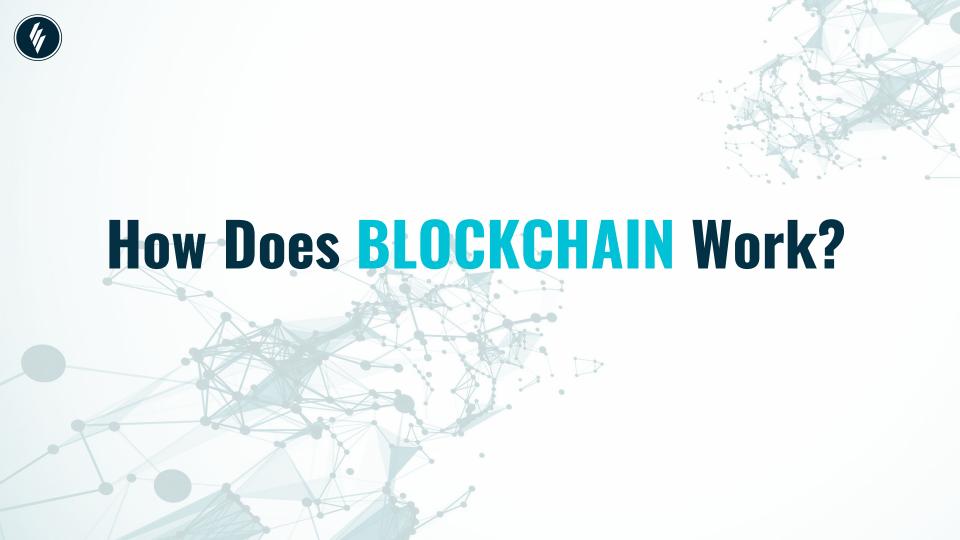
TIME STAMP

Tx DETAILS

VS

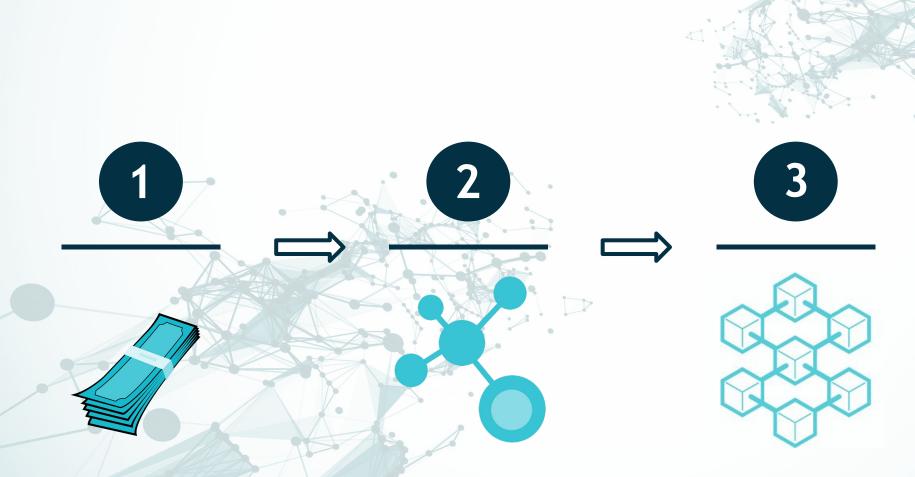
SECRETS

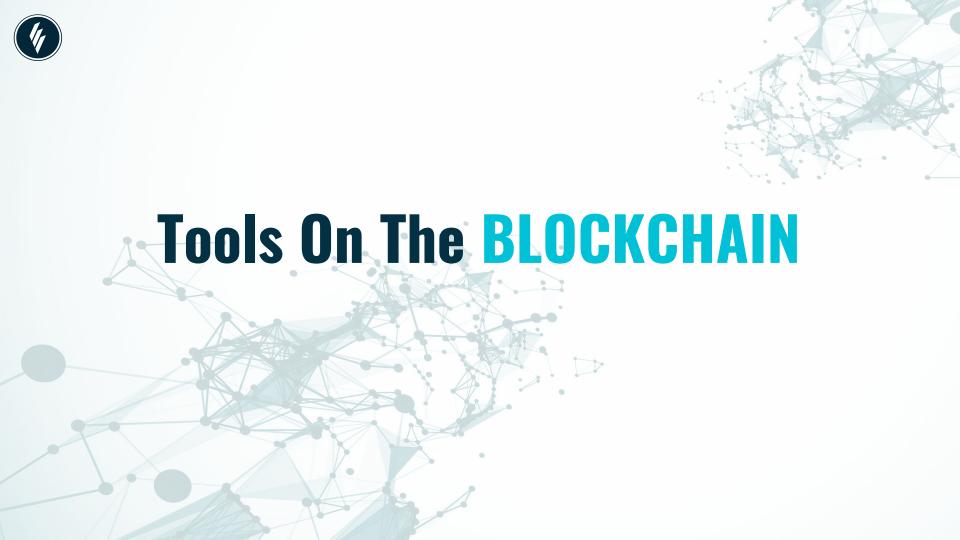
PARTICIPANTS





How Does BLOCKCHAIN Work?







1. Smart Contracts

FUNCTION:

- 1. Fully Programmable Contracts
- 2. Self Executing Automated

BENEFIT:

- 1. Reduced Human Error
- 2. Saves Manpower
- 3. Saves Cost
- 4. Saves Energy
- 5. Saves Money

Example -Post Trade Processing

Currently There Are 12 Steps in Clearing and Settling.

T+2 Settlement Is Standard. T+1 is slowly integrating.

Smart Contracts are being experimented with by the DTCC and Barclays reduce Trade Settlement to T+0.

GOALS:

- 1. Eliminate Redundancy (front to back end)
- 2. Fully Automate The Clearing Process
- 3. End User Has Quicker Access To Capital
- 4. More Liquidity To Capital Markets



2. KYC - AML Nodes

FUNCTION:

- All Existing Participants Approve New Members
- 2. Real Time AML Scan

(Scans: Global Sanction Lists, Red Flags from World Check, LexisNexus, Dow Jones and others.)

BENEFIT:

- 1. Regulatory Compliance
- 2. Visibility To Regulators
- Ease Of Mind
- 4. Time Efficient

Example -XinFin Full Nodes

XinFin's nodes come equipped with KYC enforcement built in, thus solving substantial problems with traditional Enterprise KYC providers. The Self-KYC feature enables corporate clientele to manage their own identity by uploading all documentation and allowing participants access to the KYC data.

GOALS:

- 1. Enterprise Peace of Mind
- 2. Regulatory Compliance
- Private Network Hosting







How Is BLOCKCHAIN Used

1. Digital Bonds

FUNCTION:

- 1. Sovereign Backed Assets
- 2. Asset Tokenization

BENEFIT:

- 1. Immutable Proof of Ownership
- 2. Less Write Offs and More Profit
- 3. Transparency



Tokenized infrastructure bonds provide direct liquidity access to global institutional investors regarding infrastructure projects such as: Power, Water, Energies and Transportation.

Estimated at \$250- \$400m of AAA rated, sovereign backed, post-risk infrastructure bonds from both Development Banks and Government Treasuries.

Benefit: De-Risked Loans Become Tradable Assets (Projected \$10-\$20 Billion in Volume)



11:00 PM EST

Showcase of Bond Digitization begins with:

rz. c·rda

Invitation to all **200+ Finance Members** to take part over a 7 week period during the Corda Trials. Bond Digitization as a solution to offload derisked loans will play a major role in the future of Blockchain.



Tokenized infrastructure bonds provide direct liquidity access to global institutional investors regarding infrastructure projects such as: Power, Water, Energies and Transportation.

Estimated at \$250- \$400m of AAA rated, sovereign backed, post-risk infrastructure bonds from both Development Banks and Government Treasuries.

Benefit: De-Risked Loans Become Tradable Assets(Projected \$10-\$20 Billion in Volume)



2. Trade and Finance

FUNCTION:

- 1. Platform for the Beneficiary, Supplier and Financier
- Smart Contract based Payments and Processing
- 3. Eliminates Intermediary
- 4. Shortlisted Participants Only

BENEFIT:

- Minimized Cost
- 2. Lower Transaction Fees
- 3. Transparency and Automation Improves Participant Trust



TradeFinex, launched in 2017, is the World's First Blockchain Based Trade and Finance Platform.

With a hedge pool to protect from price volatility, Beneficiaries, Suppliers and Financiers can enjoy instant settlements, automated processing without the need for Intermediaries, all in a completely trusted environment.



3. Invoice Finance

FUNCTION:

- Quicker Access To Cash
- 2. Smart Contract based Payments and Repayments
- 3. KYC Verified Participants

BENEFIT:

- 1. Minimized Cost
- 2. Lower Transaction Fees
- 3. Transparency and Automation Improves Participant Trust
- 4. Shortlisted Participants Only

InFactor

InFactor is an online invoice factoring platform where suppliers can factor their unpaid invoices. InFactor aims to improve security and remove operational inefficiencies in the invoice factoring process by leveraging smart contracts.

InFactor places the Supplier, Buyer and Financer on the same platform allowing visibility and real time communication between all parties.



4. Insurance

FUNCTION:

- Accurate Traceability
- 2. Interoperability
- 3. Smart Contract Automation
- 4. Reduce \$2M Deficit.

BENEFIT:

- 1. Reduced Need For Intermediary
- 2. Streamlined Process
- 3. Transparency Among Participants
- 4. Save Overhead Cost

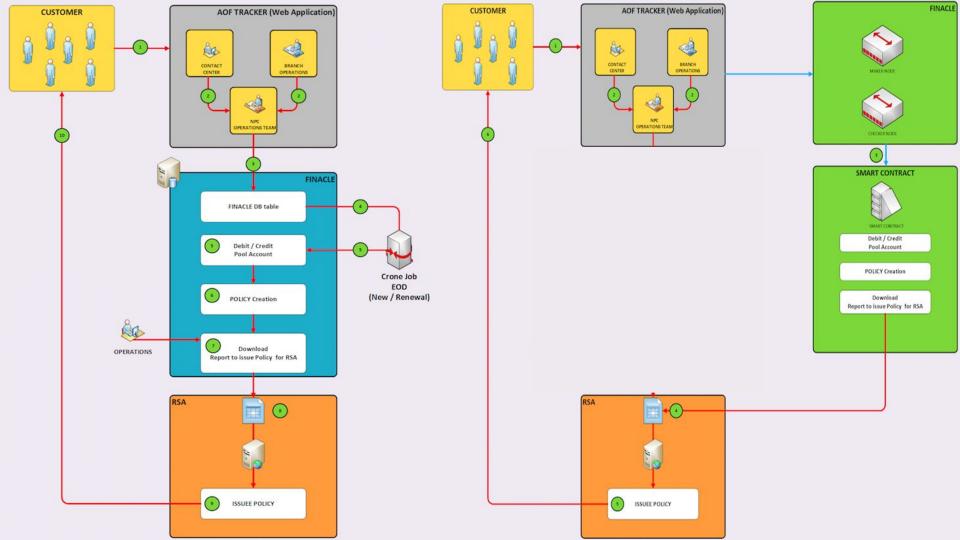
DCB Bank Ltd.

Challenges

- 1. Integration Issues
- 3. Transactional Delay
- 4. Data Sharing Delay
- 5. Poor Client Experience Due To Latency
- 6. Poor Traceability System
- 7. Errors by Intermediaries

Solution (Reduce 10 Steps to 6 Steps)

- 1. Smart Contract Automation among Maker / Checker
- Available Traceability
- 3. No Intermediary Errors
- 4. Streamline Process
- 5. Lesser Operational Overheads
- 6. Better Customer Experience





How Is BLOCKCHAIN Used

5. Supply Chain

FUNCTION:

- Smart Contracts
- 2. Real Time Tracking
- 3. Automated Processing

BENEFIT:

- 1. More Accurate Tracking
- 2. Reduced Human Error
- 3. Removing Intermediary
- 4. Fraud Prevention

MCO AIR FRANCE KLM

Global enterprise software specialist Ramco Systems and Singapore-based open-source blockchain developer XinFin will use the latter's proprietary XDC01 distributed ledger protocol to build a new architecture based on Ramco's software solutions for the three sectors and help provide blockchain led solutions to Ramco's global enterprise clients.

"The logistics business requires that service providers coordinate with multiple parties in the supply chain, from shipping companies to couriers, to transport goods. Blockchain provides the ability to trace the entire chain of movement and changes to each individual item throughout its lifetime. It increases trust and fights fraud by verifying product authenticity, reducing human error and improving capacity utilisation while eliminating middlemen in the system. Through our association with XinFin, we will work towards building many such Blockchain use cases to address business pain points."

-Ramesh Sivasubramanian Head, Air France - KLM – Ramco



How Is **BLOCKCHAIN** Used

6. Health Finance

FUNCTION:

- 1. Identity Creation
- 2. Automated Process

BENEFIT:

- 1. Access To Quality Education
- 2. Quality Jobs
- 3. Quality Health Care
- 4. Identity Protection

Changerine.

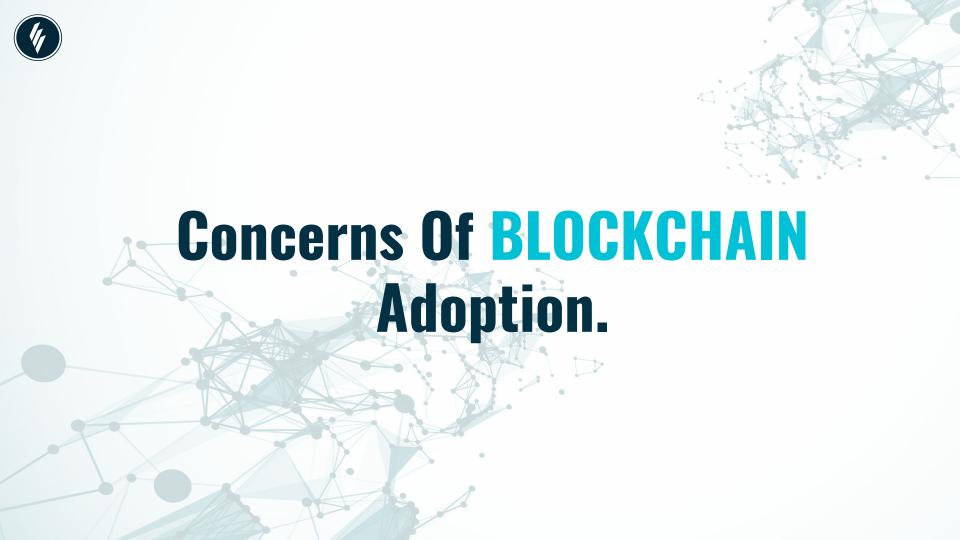
ChangerInc is the world's largest hyper-collaborative blockchain project. With over 18 companies working together to provide an identity, quality education and jobs for the Ageing HealthCare Community.

Currently there are:

- 1. 6 Blockchain Companies
- 2. 1 Philanthropic Company
- 3. 5 Strategic Partnerships, Including the United Nations
- 4. 3 Smart Technology Providers
- 5. 3 Investment Groups

All building upon XinFin's Hyrbid Network, to reach 13% of the earth's population. Which is also a **\$3.3T** market in China and the Asia Pacific region alone.

Identity protection on XinFin's private network.





A COMMON STANDARD

CONSORTIUM ISSUES

CHALLENGES

- Business Migration
 (Bringing layers of partnerships on to network)
- 2. Cost of Overhaul (Infrastructure isn't cheap)
- 3. Scaling
 (Business Economy is too small. Not worth it)

SOLUTIONS

Common Domain Model

ONE STANDARD TO CONNECT ENTIRE INDUSTRY NETWORKS



JAPAN 2018 REPORTS

Population: 126,800,000 Crypto Users: 3,000,000

Cases of Alleged Money Laundering by Source:

FINANCIAL INSTITUTIONS: 410,465

(Banks, FI's, Credit Cards, Exchanges)

DIGITAL CURRENCY: 7,000

(HNI's and Retail Users)

World's Largest Crypto Retail Market.



Only 1.7% Of All Money Laundering Schemes are by Digital Currency.



JAPAN 2018

Cases of Alleged Money Laundering Per User

FINANCIAL INSTITUTIONS

(Banks, FI's, Credit Cards, Exchanges)

1 in 314

DIGITAL CURRENCY

(HNI's and Retail Users)

1 in 428



THANK YOU

CONTACT

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