BLOCKCHAIN SOLUTIONS ®

Unleashing the Potential of Blockchain Technology

Agenda

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Company
Background

Company Background

"**Solve it, Block to Block**"

Founded in 2017

Offices in Hong Kong and Guangzhou

Team with 7+ years experience

4

Our Team

Leo Chan

Head of IT

19+ years of IT experience involvement in various mission critical systems in different business sectors

Jesse Co

General Manager

10+ years of experience in finance and real estate industries

Jase Leung

Founder & CEO

10+ years of managerial experience 4+ years leading as an entrepreneur. Committed in pioneering disruptive technology in the Asia Pacific Region

Kanson Ng

Strategic Consultant

11+ years of managerial experience in Business Development and Marketing in leading companies in Asia. 7+ years of experience in IT and Engineering industry

Ernest Lo

Advisor

Founder of Future Impact Lab Limited, President of the Hong Kong Internet of Things Alliance, Awardee of 3 Best Paper Awards at IEEE international wireless communications conference

Media Exposures

科學園特使- 捷克外交部舉辦的

ICT / Cyber Security Sector

HK Government and University Projects

- **2021 : Completing 2 projects of Hong Kong Gov't and University**

- **2019: Won 2 of 3 Hong Kong Gov't pilot blockchain projects**

機電工程署
EMSD
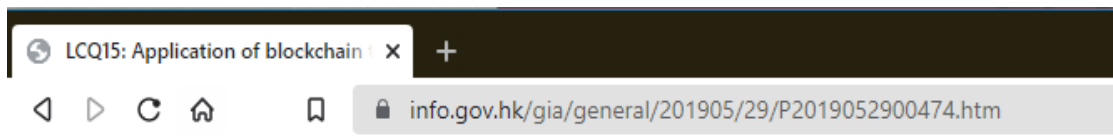
Blockchain Record Management System (BRMS)

Department of Health

Traceability of Pharmaceutical Products

知識產權署

Transfer of Trademark Ownership

LCQ15: Application of blockchain

info.gov.hk/gia/general/201905/29/P2019052900474.htm

(2) and (3) As the Government understands, the adoption of blockchain technology in public services is still at the exploratory and initial stage. The Office of the Government Chief Information Officer (OGCIO) commenced in end 2018 a pilot application of blockchain technology project to explore the applicability and benefits of adopting blockchain technology in government services. The OGCIO is discussing with four departments (the Intellectual Property Department, the Companies Registry, the Environment Protection Department and the Department of Health) on the implementation of pilot projects in areas including the transfer of intellectual property ownership, change in registered company information, etc. These pilot projects will be completed in phases from end 2019 to 2020.

Source: HKSAR Press Release May 29, 2019
https://www.info.gov.hk/gia/general/201905/29/P2019052900474.htm

Our Project - CerTraze

Project Highlights CerTraze

A blockchain-based product tracing platform

- Tracing products easily, meanwhile benefiting from blockchain
  - immutability, traceability and security.

- Different ways to utilize the platform:
  1. Tracing product origin
  2. Gathering product status data from supply chain
  3. Ownership verification
  4. Tokenizing the product in long run
  5. Facilitating Secondary market
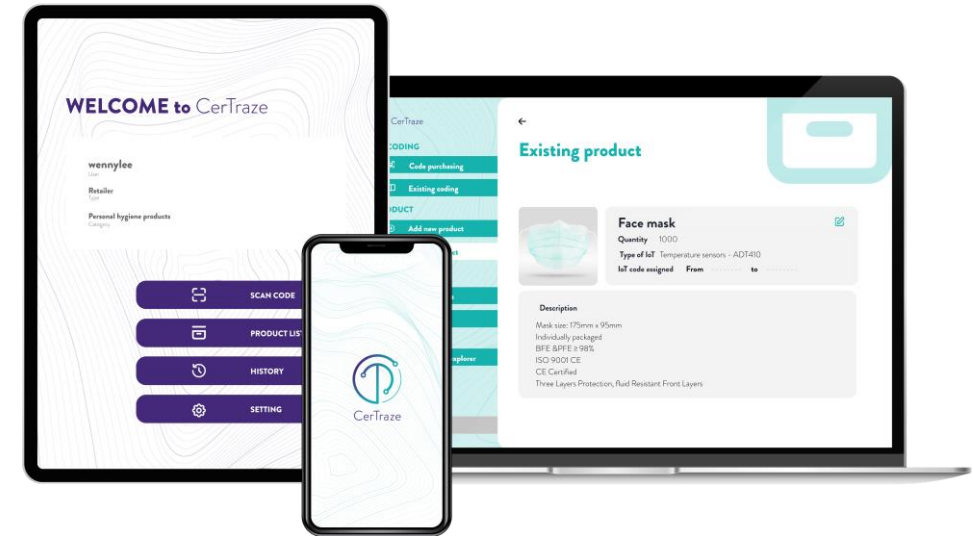
DEMO

- Can merge with different technologies (such as IoT, RFID, NFC, QR Code, etc.)
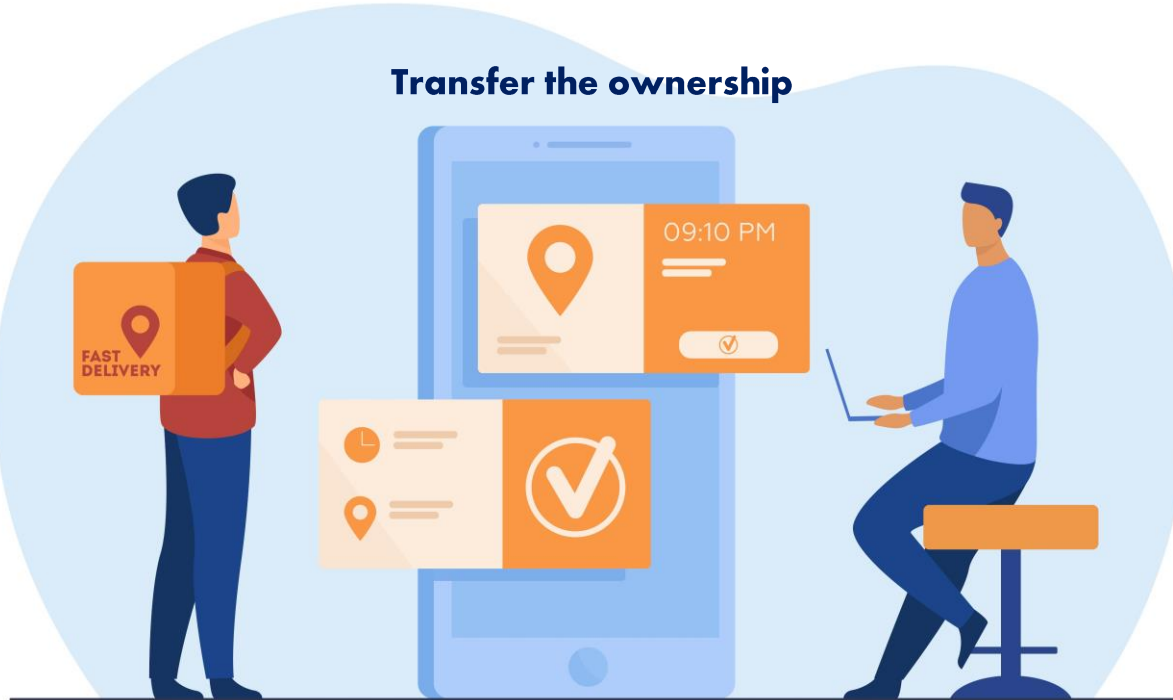
Project Highlights CerTraze

Example: Gathering the product status data through the supply chain

Manufacturer / Supplier

Uploads the product details to the backend system and stick QR Code and/or IoT devices onto the product/package

Logistic

Scan the QR Code on the product/package in every check points

Distributor Warehouse

Scan the QR Code on the product/package

Retailers

Scan the QR Code on the product/package

Blockchain

Product manager can view the product status (e.g. the humidity, temperature, route, etc.) and download the data on chain for analytical purposes.

Product Manager

End user scans the QR Code on the product/package. Getting the information from the blockchain.

Transportation / Giving to

End Users

Project Highlights CerTraze

Example: Serve as an ownership verification of the asset

Transfer the ownership

09:10 PM

CerTrace Platform

Owner Name: Chan Man
Product Name: Red Wine
Product Origin: HK
Transfer Date: 23/3/2021
Blockchain number: BLK001

01 **Assets Owner/Seller**

Enter the platform and submit ownership transfer application

02 **New Owner/Buyer**

Enter the platform to accept the ownership transfer and input personal information

03 **Authenticate the product**

Owner can check the ownership history

Project Highlights CerTraze

Example: Tracing the product origin - enhancing the credibility of the product

Product with QR Code

Delivery

QR Code Scanning History Checking

Scan Log History

QR Number: 46234234
Product Name: Red Wine
Product Origin: HK
Previous Location: HKSTP
Blockchain number: BLK001
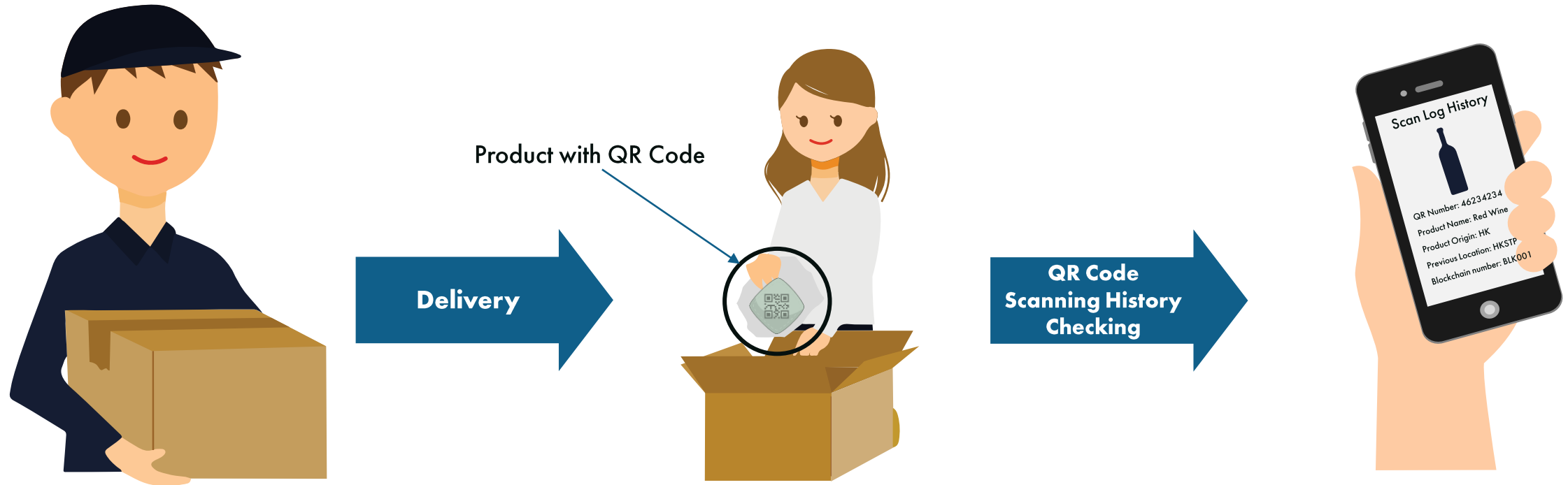
01 Manufacturer/Supplier

Insert a QR Code inside the product package.

02 End user

Open the package and send the QR code

03 Authenticate the product

Check if there were other scanning history.
If yes, the product package was compromised.

Public Institution Project

HKUST - Traditional Chinese Medicines (TCMs) Production

- **The First** Traditional Chinese Medicine production tracing in Hong Kong

- **Cross-border** tracking

- Merge with **IoT** devices

- Tailor-made UI/UX for **HKUST** and **Farmers**

- Mobile **App** and **Web** Portal

Public Institution Project

HKUST - Traditional Chinese Medicines (TCMs) Production

Video

Blockchain and its potential in the Government

Blockchain and its potential in the Government

- Important feature of Blockchain – **Immutability**

- Using blockchain can bring **Convenience** and **Confidence** to citizens

- iAM Smart x Blockchain?

  - A certification involves different parties / non-governmental certifying entities

  - Combining certificates into one blockchain platform

Blockchain and its potential in the Government

iAM Smart x Blockchain

- Becoming a **card/license wallet** that could hold all certification and license of a person (including car plate, car insurance, HKID, student certification etc.)

Zero-Knowledge Proof

- Entities does not require to access said license/certification directly to acquire the information

- Blockchain's immutability: Reducing the necessity of face-to-face meetings for application / documentation (such as Student Loan application)

Thank You

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Appendix

Project Highlights BitBro

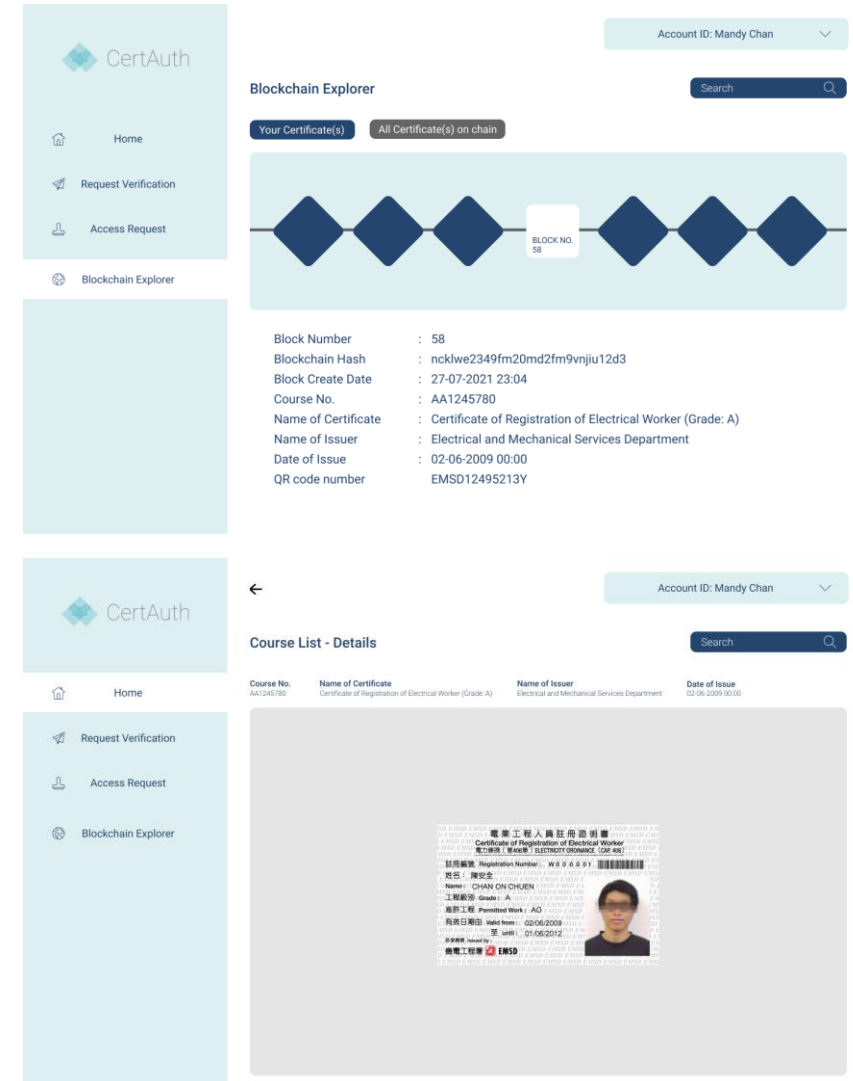## A Blockchain based Referral System for Financial Institution

- Provides safe, reliable, traceable and immutable ledgers for all stakeholders (the investment banks, recommenders, investors).

- **Solve** the problems of **traditional contracts**:
  Easy to be tampered, deleted, forged, leaked and hard to recover the information once was damaged.

- Virtual bank and related technology will be **linked-up**

- **Smart Contracts** are embedded to handle the commission placement process.

- Equalizing **bargaining power** between parties on the platform.

Hence, contracts are signed more intelligently, following credible cooperation, and eventually creating a **positive business environment**.

Investment Bank

Blockchain Network

Recommenders

Investors

Project Highlights
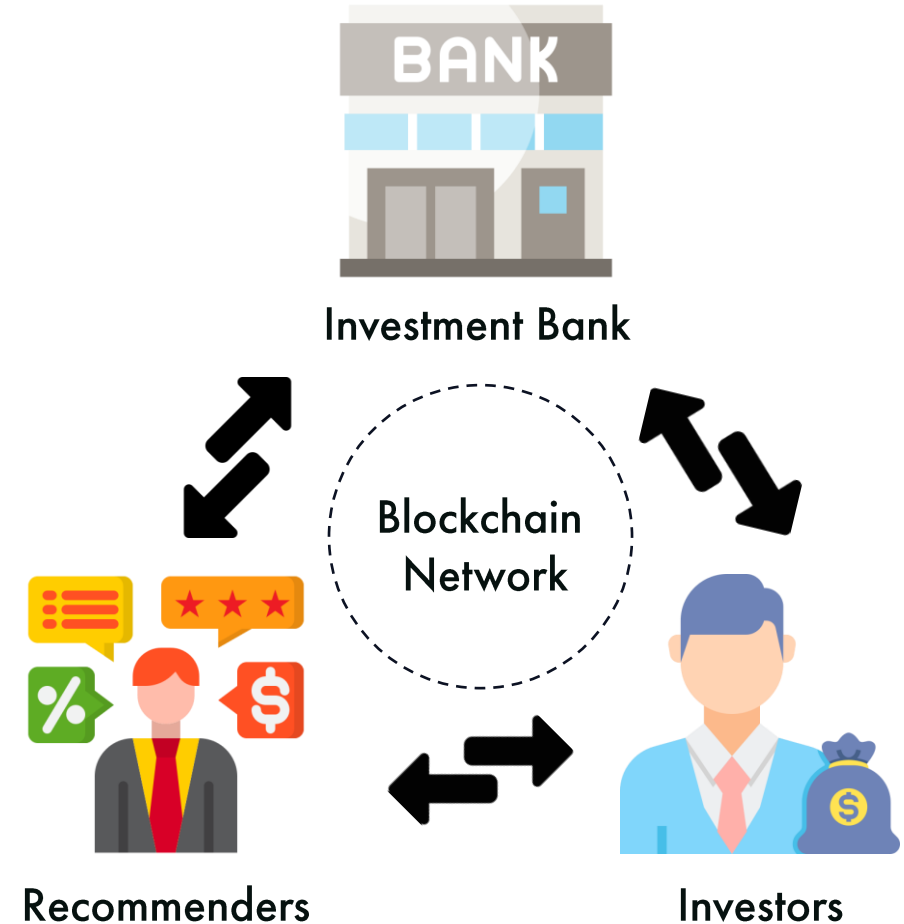
A Blockchain-enabled Certificate Verification Platform

- Convert traditional paper certificate and transcript into

  digitalize certificate secured into blockchain

- Prevent Fake Certificate in the market

- Provide permission and control to data owner

  (Student and University)

- Adopt **XML signature technology** to digitally sign the data

  before storing in blockchain

- Link up job seeker and employer

Project Highlights

BankBLock

The power to secure your business

- Shortlisted in API Eco-booster organized by HSBC and HKSTP

- Adopting Hyperledger Fabric Blockchain Network to build a consortium network for data collaboration across different parties.

- Aim to enhance data security and privacy.

- Simplifying the manual work of HSBC

Intra-bank blockchain network

Inter-bank blockchain network

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