We engrave your credentials.

Blockchain Digital Contract Platform



Provides digital contract and signature, sensitive data transmission storage by blockchain

D-ENGRAVER'S BLOCKCHAIN DATABASE CHARACTERISTICS

General Database

(Centralized Ledger)

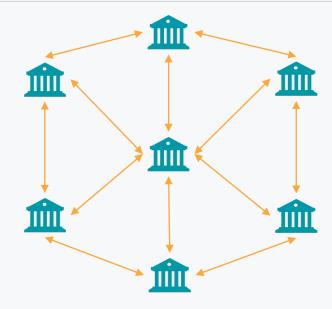
- Data is not persistence & changeable
- Data isolated in each point
- Data history cannot be traceable and audited

*

Blockchain

(Distributed Ledger)

- · Data is permanent and unchangeable
- Data can be safely shared between parties
 - Data history can be verified and notarized



How does "Work From Home" affect the work of civil servants and government service?



Difficult to provide government service

- Application that needs signed by a Civil Servants or approves by multiple departments delay
- Decrease work efficiency in dealing with applications



Difficult to sign the contract at home

- Civil Servants cannot sign paper contract at home
- Decrease work efficiency

What if we can provide a safety and secure online contract signing platform provide government to accomplish signing contract and document online?





Blockchain digital contract platform



Digital contract/ Digital signature



Full life cycle management of digital contract



Blockchain data storage certificate



Blockchain document depository



Be able to sign contracts and documents:



Without paperwork

At anywhere

At anytime

✓ Improve the efficiency of application approval
 ✓ Reduce the need for civil servants to work in entities

In order to sign or approve reliable digital contracts involving multi-parties efficiently, three problems need to be overcome:



Validity of Contract

- Whether the contract is signed with the approval of subjective will
- The possibility of contract being counterfeited
- Does the electronic signature provide a certificate of recognition?

real identity and real wishes



Reliability of Contract

• When there is doubt about the digital contract, can the original contract prove that it has not been tampered with?

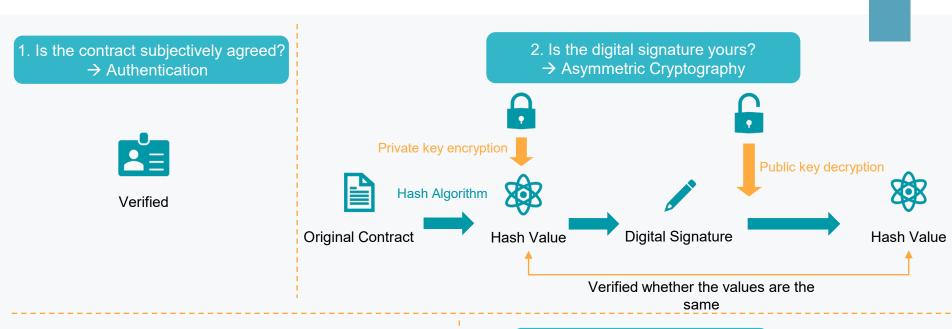
The original text and signature of the signed contract is unchangeable



Legality of Contract

Can the digital contract prove as an evidence when tracking back?

Certificate to prove the digital signature is legal





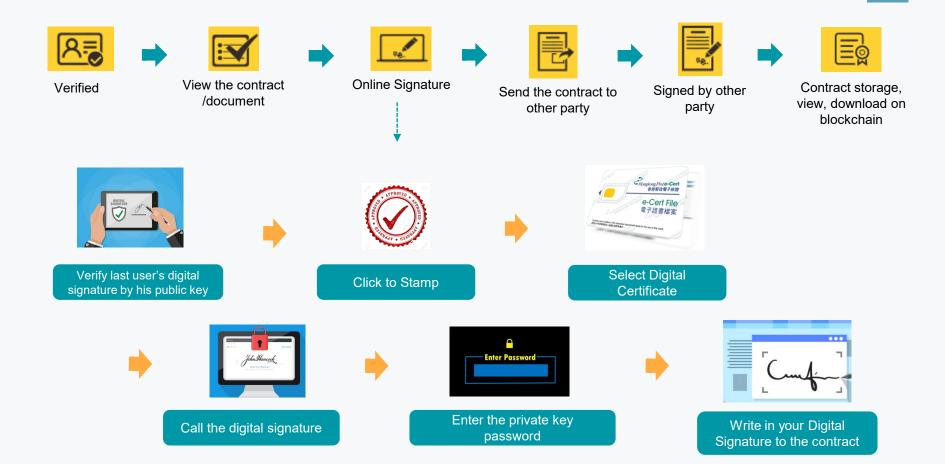
Hash Algorithm
Original Contract

Hash Value

4. Is the contract forged?

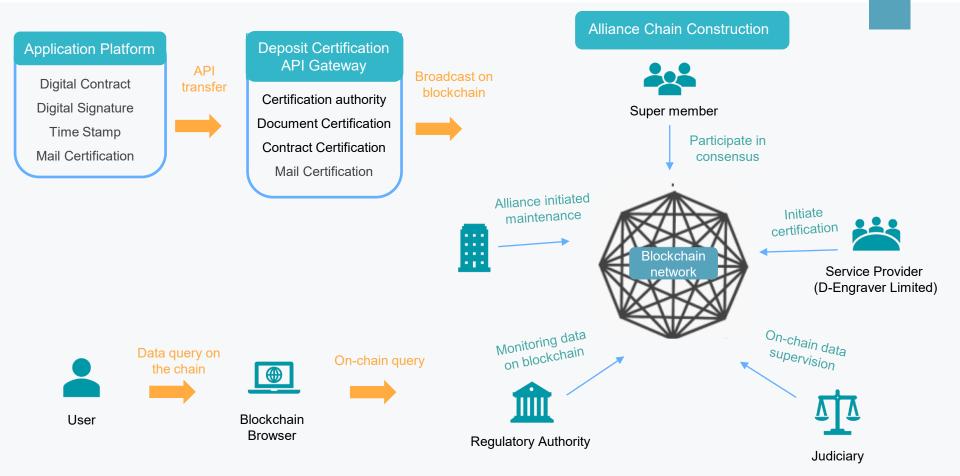
→ Verify the hash value

FLOW CHART OF DIGITAL CONTRACT & SIGNATURE



Reliability of Contract

BLOCKCHAIN EVIDENCE PRESERVATION PLATFORM



According to the Electronic Transactions Ordinance: Part III Electronic Records and

Give electronic records and signatures the same legal status as their paper counterparts

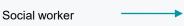
Why our solutions meet legal requirements?

- 1. An electronic signature of the signer generated by the transformation of the electronic record using an asymmetric cryptosystem and a hash function
- ✓ Our Solutions: Asymmetric Cryptography (Private key and public key) + hash algorithm
- 2. Electronic record is accessible to be usable for subsequent reference: the information which enables the identification of the origin and destination of the electronic record and the date and time when it was sent or received, is retained
- ✓ Our Solutions: Record all the information on blockchain with contract initiator, signing time, contract receiver and contract content
- 3. Avoid any endorsement or any change which arises in the normal course of communication, storage or display
- ✓ Our Solutions: All the data in blockchain is unchangeable
- 4. Digital Signature should be supported by a recognized certificate
- ✓ Our Solutions: Apply the certificate from Hong Kong Post by government itself

SCENARIO: COMPASSIONATE REHOUSING



Sign a recommendation letter to discuss the urgent housing needs of the relevant case





His/Her director of affiliated center





District Social Welfare Officer





Hong Kong Housing Authority



Verify the identity of social worker



Create and sign a digital recommendation letter by digital signature



Send the signed digital recommendation letter to his/her director of affiliated center





The Director of affiliated center verify the digital signature from the social worker & write in the digital signature







Verify the digital signature from

the District Social Welfare Officer

Announce the approval result to

social worker (offline)















The District Social Welfare Officer verify the digital signature from the director of affiliated center & write in the digital signature

Send the signed digital recommendation letter to Distric Social Welfare Officer

- ✓ Sign the document remotely (even when "Work From Home")
 - ✓ Stored and proceed through blockchain
 - Reduce the time of compassionate rehousing approval

Mission

To eliminate the crisis of trust in the information sharing process



A Blockchain Based Asset Management Company with IoT Solutions

- Founded by HKUST Alumni & Professor
- Shortlist company of TSSSU 2019-2020



Strong Research Background

- Very strong consultant team from HKUST
- First private company invested by HKUST



Incubatee of Incu-tech program of HKSTP

Based in Hong Kong

- Founded and based in Hong Kong
 - Star Enterprise of Hong Kong
 Science Park



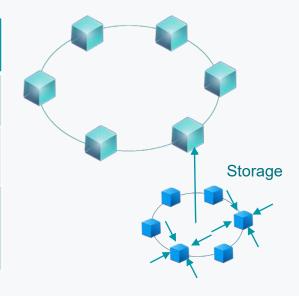
Patents in Blockchain Technology

- Granted several patents in blockchain algorithm and data encryption method
 - Minimum investment (cost of maintaining the system) + Maximum output (providing speed and security of the entire network)

The single node accounting and multi-node backup antitampering mechanism Based on our bottom-chain, a patent about the single node accounting and multi-node

Based on our bottom-chain, a patent about the **single node accounting and multi-node backup anti-tampering mechanism based on distributed network** has been conceived.

	Consensus	Transaction per second (TPS)	Smart contract
Bitcoin network	POW	7~8	Using script, though multiply signature and Timeclock, simulate asset lock and unlock processes
Ethereum network	POW	15	Directly write the smart contract into the code with Turing completeness
D-Engraver chain network	POW + Low level of consensus	Ten Thousand times faster than Bitcoin	A smart contract with single-person accounting in low level of consensus, with Turing completeness, focusing on describing more complex data processing processes and ensuring that they are not tamper-evident.



Preparation by Civil Servants:

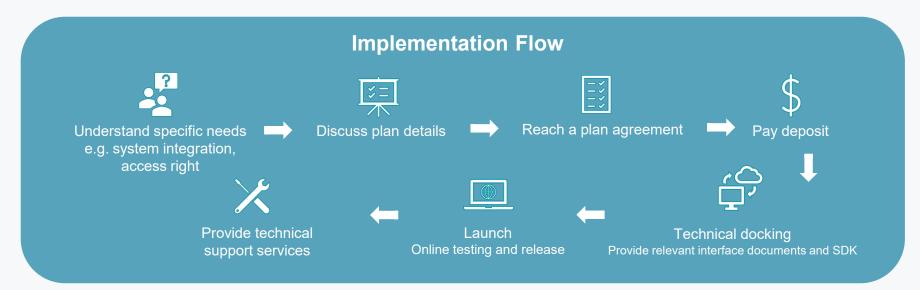


According to the Electronic Transactions Ordinance (Chapter 553)

 Digital signature issued by a recognized digital certificate is in compliance with the legal requirements for signatures



Apply through the central management communication system



BLOCKCHAIN Digital Contract Platform

When there are multiple departments / parties involve and remotely working condition cannot ensure the authenticity of digital documents and signatures, we can help you:



Digital contract/ Digital signature



Full life cycle management of digital contract



Blockchain data storage certificate



Blockchain document depository



- ✓ A secure platform to transfer sensitive data between multiple departments
 - ✓ Data are unchangeable and traceable



VISION

To breakthrough the information isolated and create irreversible certification in any topics by engraving important credentials

MISSON

To eliminate the crisis of trust in the information sharing process