Modern Times: Blockchain for Real Estate

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BLOCKCHAIN AND REAL ESTATE

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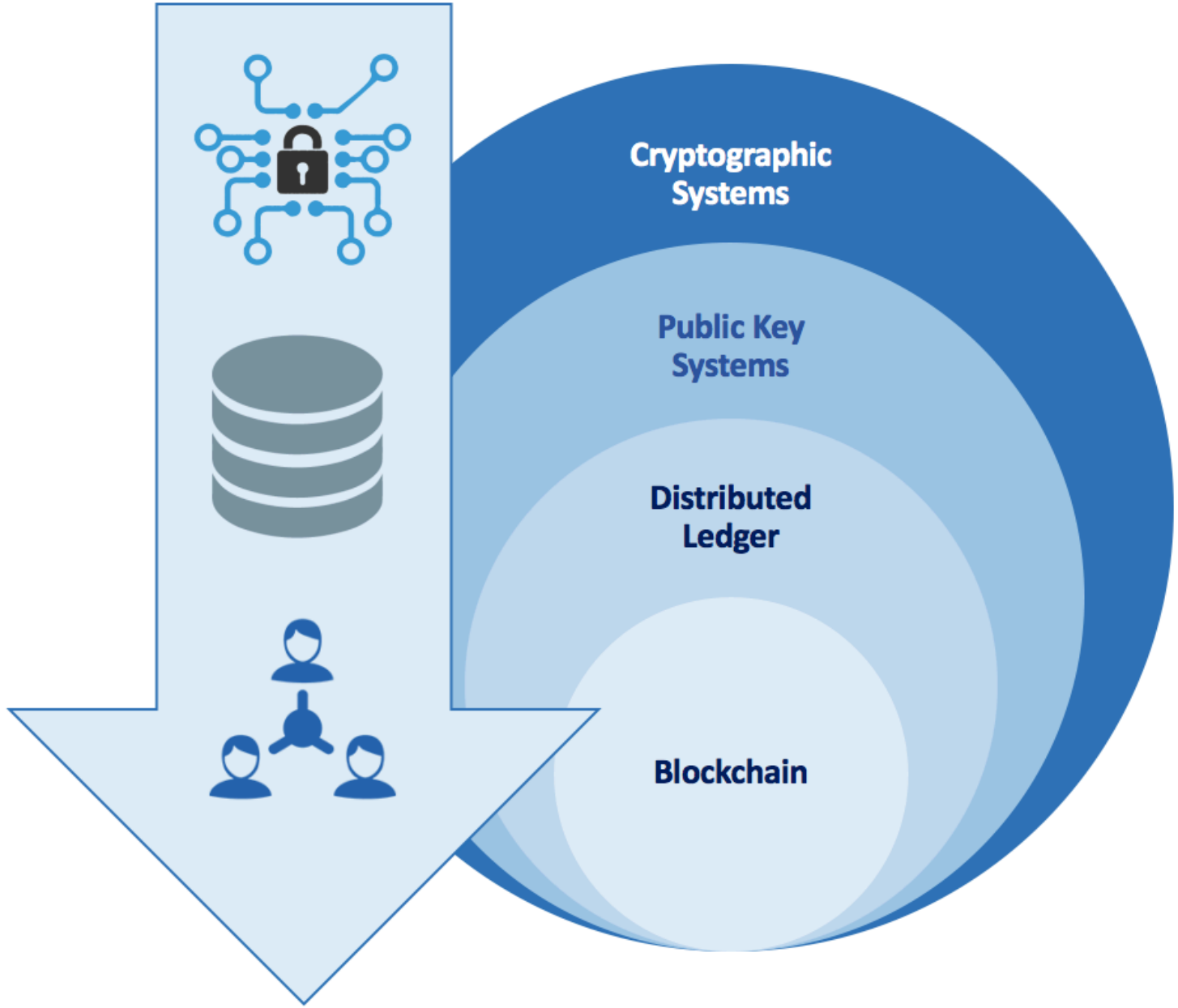
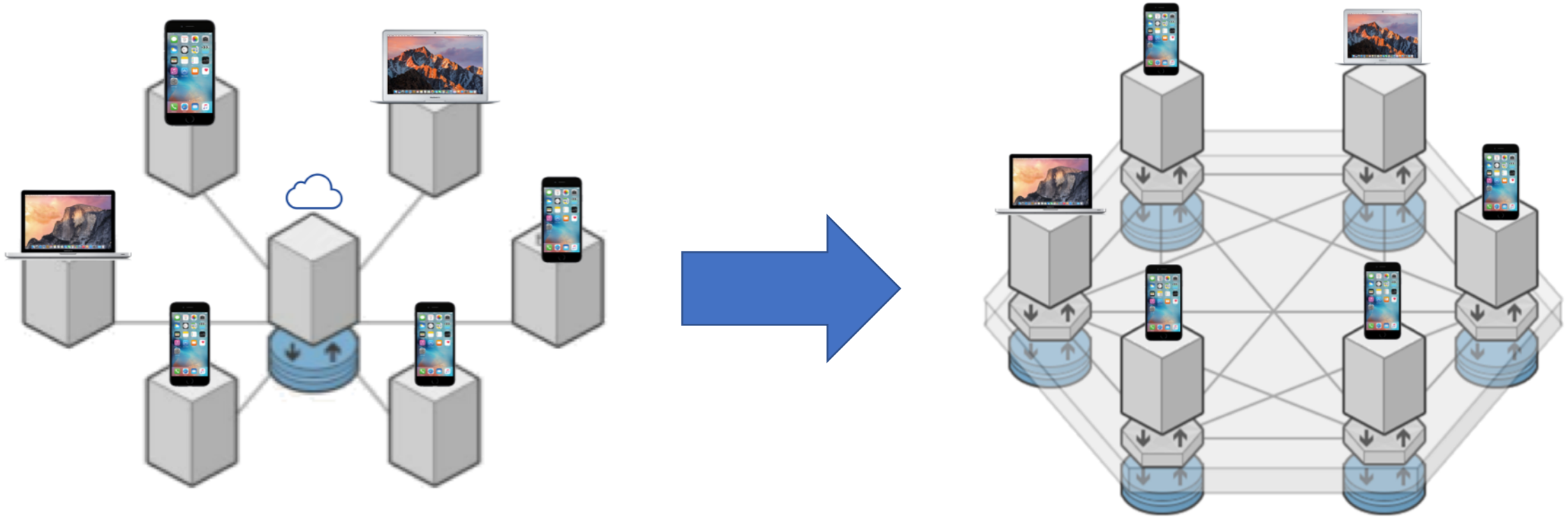
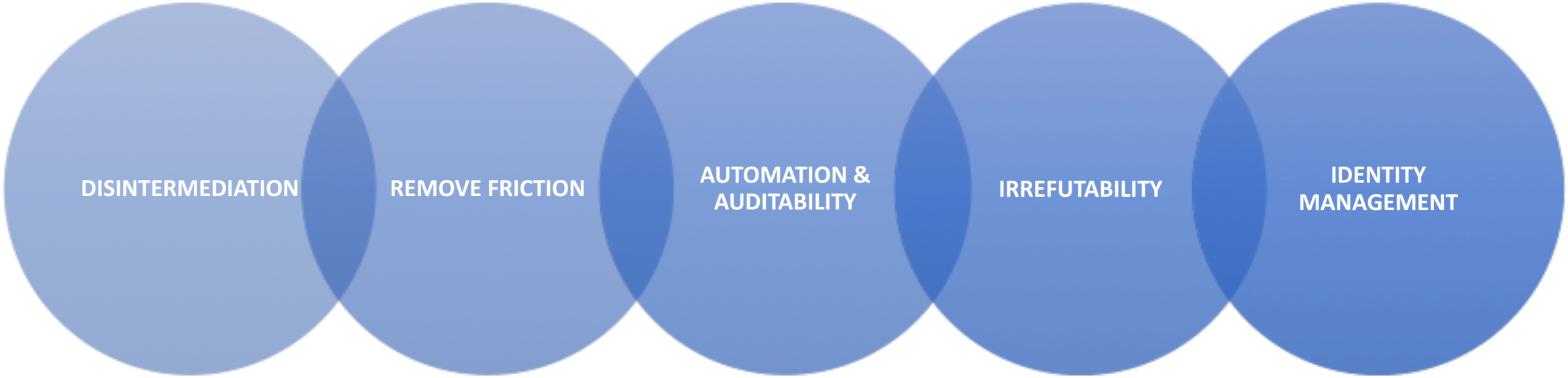

Cryptographic Systems
Public Key Systems
Distributed Ledger
Blockchain



Transactions, data storage, and communications travel directly and are hosted on individual devices, rather than using a third party host.



“A ledger – a way of recording transactions and recording ownership of assets – is what real estate is all about”

- Stuart Appley, CTO of Shorenstein Co.

WIDER INDUSTRY BENEFITS

REDUCING FRAUD, ERRORS, AND UNKNOWNS

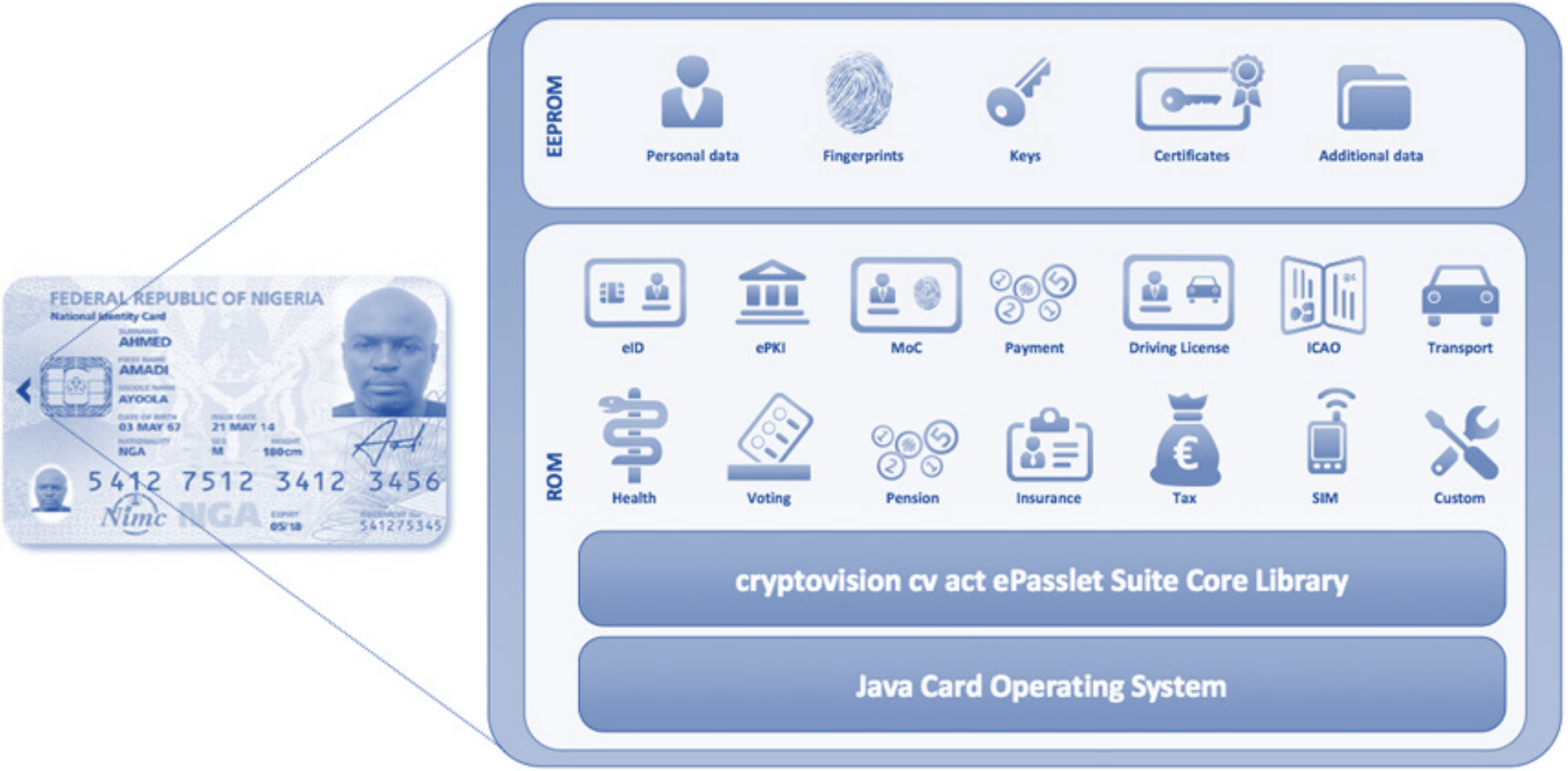
Digitally-stored documents

Unique and immutable

Removal of trust

Disintermediation

TRANSPARENCY THROUGH DIGITAL IDENTITY



SPEED THROUGH AUTOMATION

IN-BUILT SECURITY

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Hotel ransomed by hackers as guests locked out of rooms

28 January 2017
10:42 CET+01:00

Photo: CEN

One of Europe's top hotels has admitted they had to pay thousands in Bitcoin ransom to cybercriminals who managed to hack their electronic key system, locking hundreds of guests out of their rooms until the money was paid. (Updated)

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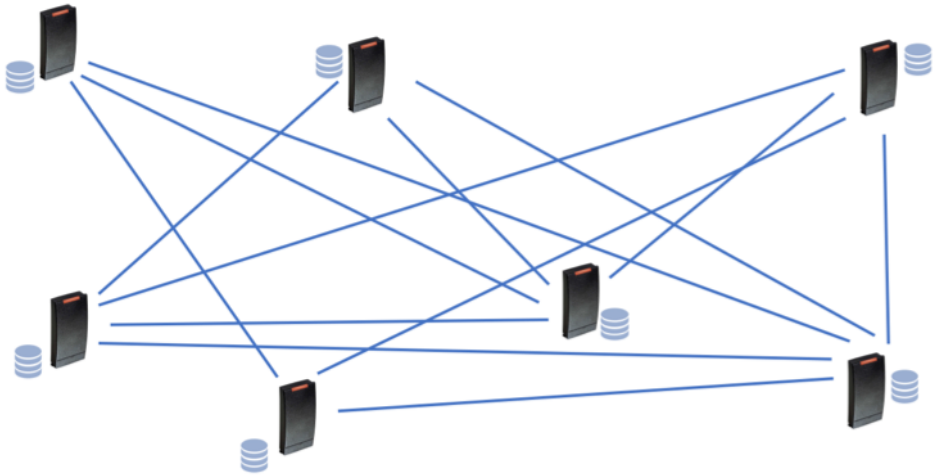
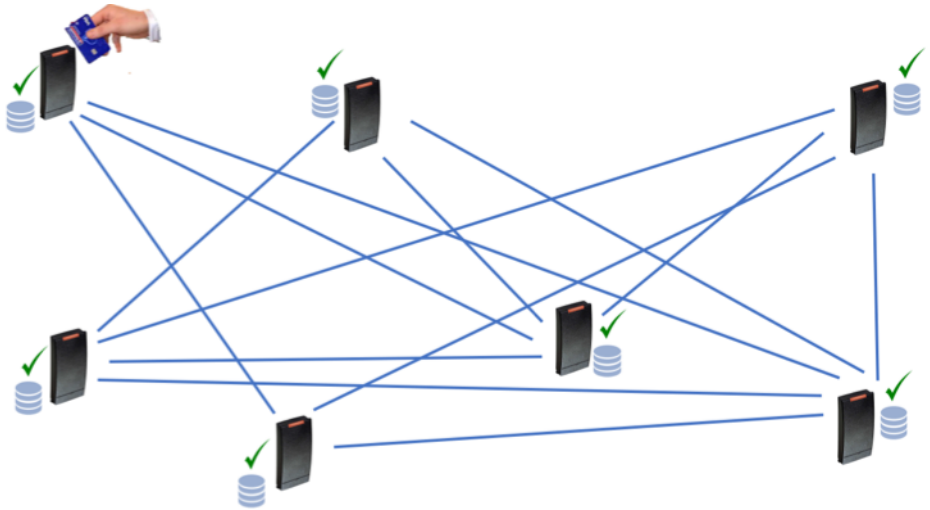
In a centralised model, the entire system can be disabled by hacking the centralised database or control system

By distributing the database across the access control devices, the system is able to detect a rogue actor and eliminate it



Every time a user tries to gain access to a room, the device checks the database to ensure that the person has permission to pass through that door`



Even when offline and unable to connect to other databases through WiFi, the device can check its database for the most recent information

QUICK ONBOARDING

PAY-AS-YOU-GO

REAL-TIME PERMISSIONS

DATA AWARENESS

OFFLINE SYNCHRONICITY

CRYPTOGRAPHICALLY SECURE

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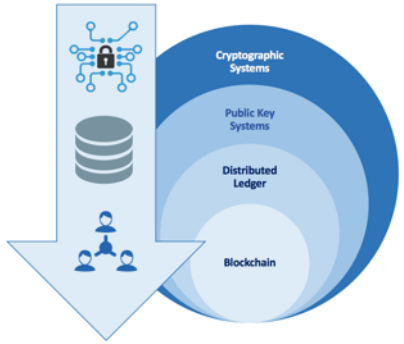
CONCLUSIONS

TRUST



BLOCKCHAIN

(CRYPTOGRAPHIC TECHNOLOGIES)

ENABLES A **PEER-TO-PEER** SYSTEM, LEADING TO **DISINTERMEDIATION**
AND A REMOVAL OF RELIANCE ON **TRUST**

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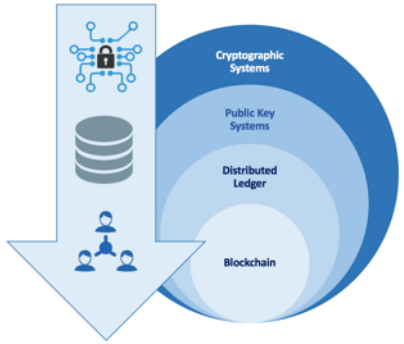
SECURITY



BLOCKCHAIN

(CRYPTOGRAPHIC TECHNOLOGIES)

IS A MORE **SECURE** WAY OF CONTROLLING PERMISSIONS AND **EXCHANGING** INFORMATION BETWEEN **MULTIPLE PARTIES**

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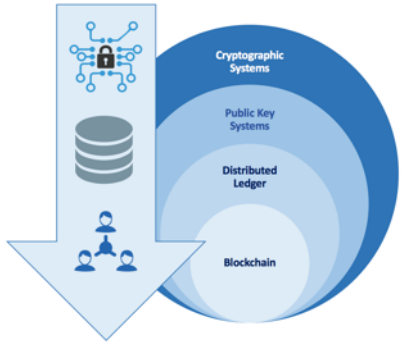
EFFICIENCY



BLOCKCHAIN

(CRYPTOGRAPHIC TECHNOLOGIES)

ENABLES GREATER **EFFICIENCY** AND **AUTOMATION**
WITHIN PROCESSES, REDUCING **COSTS**

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