

BLOCKCHAIN

Bureaucracy Killer

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CONTENT

01 BLOCKCHAIN

Distributed Ledger
Cryptocurrency

02 DEVELOPMENT

Progress
Investments

03 APPLICATIONS



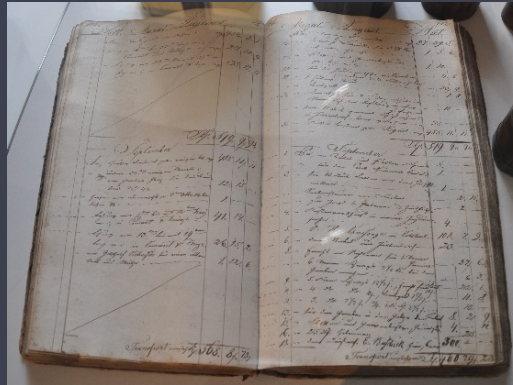
BLOCKCHAIN 1.0

BLOCKCHAIN 2.0

BLOCKCHAIN 3.0

BLOCKCHAIN

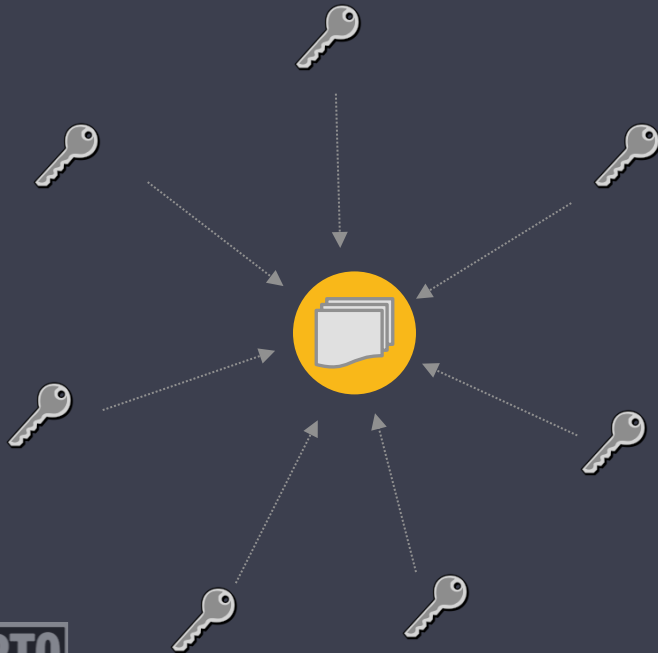
History of Ledger



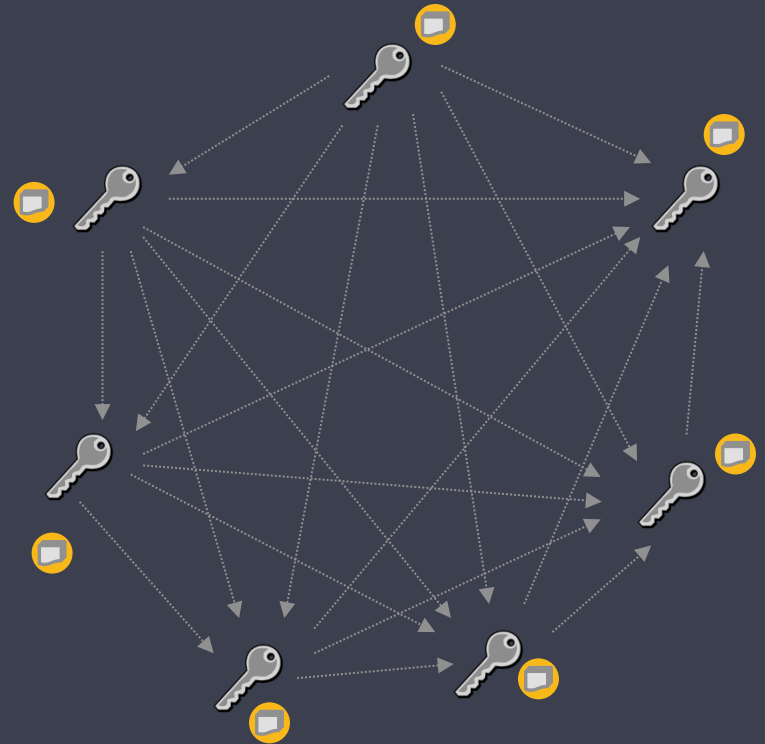
BLOCKCHAIN

Distributed Ledger

Centralized ledger
(OLD)



Distributed ledger
(NEW)



BLOCKCHAIN

What is Blockchain?

■ Coded internet protocol

```
/** Capture information about block/transaction validation */
class CValidationState {
private:
    enum mode_state {
        MODE_VALID,    //!< everything ok
        MODE_INVALID,  //!< network rule violation (DoS value may be set)
        MODE_ERROR,    //!< run-time error
    } mode;
    int nDoS;
    std::string strRejectReason;
    unsigned int chRejectCode;
    bool corruptionPossible;
    std::string strDebugMessage;
public:
    CValidationState() : mode(MODE_VALID), nDoS(0), chRejectCode(0),
    corruptionPossible(false) {}
    bool DoS(int level, bool ret = false,
        unsigned int chRejectCodeIn=0, const std::string
        &strRejectReasonIn="",
        bool corruptionIn=false,
        const std::string &strDebugMessageIn="") {
        chRejectCode = chRejectCodeIn;
        strRejectReason = strRejectReasonIn;
```

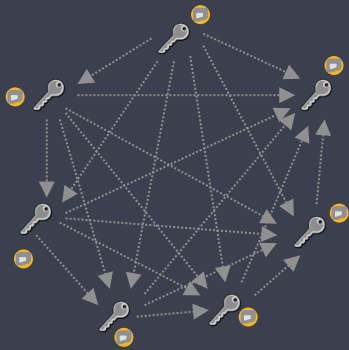
■ Highly secured and encrypted data

```
63c018582731ff54dc72c7d67e858c002ae298863c018582731ff54dc72c7d6
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2731ff54dc72c7d67e858c002ae298863c018582731ff54dc72c7d67e858c00
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2c7d67e858c002ae298863c018582731ff54dc72c7d67e858c002ae298863c0
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8c002ae298863c018582731ff54dc72c7d67e858c002ae298863c018582731
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c002ae298863c018582731ff54dc72c7d67e858c002ae298863c018582731ff
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863c018582731ff54dc72c7d67e858c002ae298863c018582731ff54dc72c7d
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82731ff54dc72c7d67e858c002ae298863c018582731ff54dc72c7d67e858c0
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dc72c7d67e858c002ae298863c018582731ff54dc72c7d67e858c002ae29886
3c018582731ff54dc72c7d67e858c002ae298863c018582731ff54dc72c7d67
```

BLOCKCHAIN

Cryptocurrency

Distributed ledger



Transaction confirmed



Transaction inserted into ledger



- The core asset of blockchain network infrastructure
- Completely distributed digital money

- Stored in e-wallet (address and private key)
- Most popular cryptocurrencies: Bitcoin, Ethereum, Litecoin

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BLOCKCHAIN 2.0

BLOCKCHAIN 3.0

DEVELOPMENT

Progress

■ Cryptocurrency exchanges,
Bitcoin variants created
(altcoins, colorcoins)

2008



■ Blockchain whitepaper released.
First implementation of bitcoin (open source software) in 2009

2011



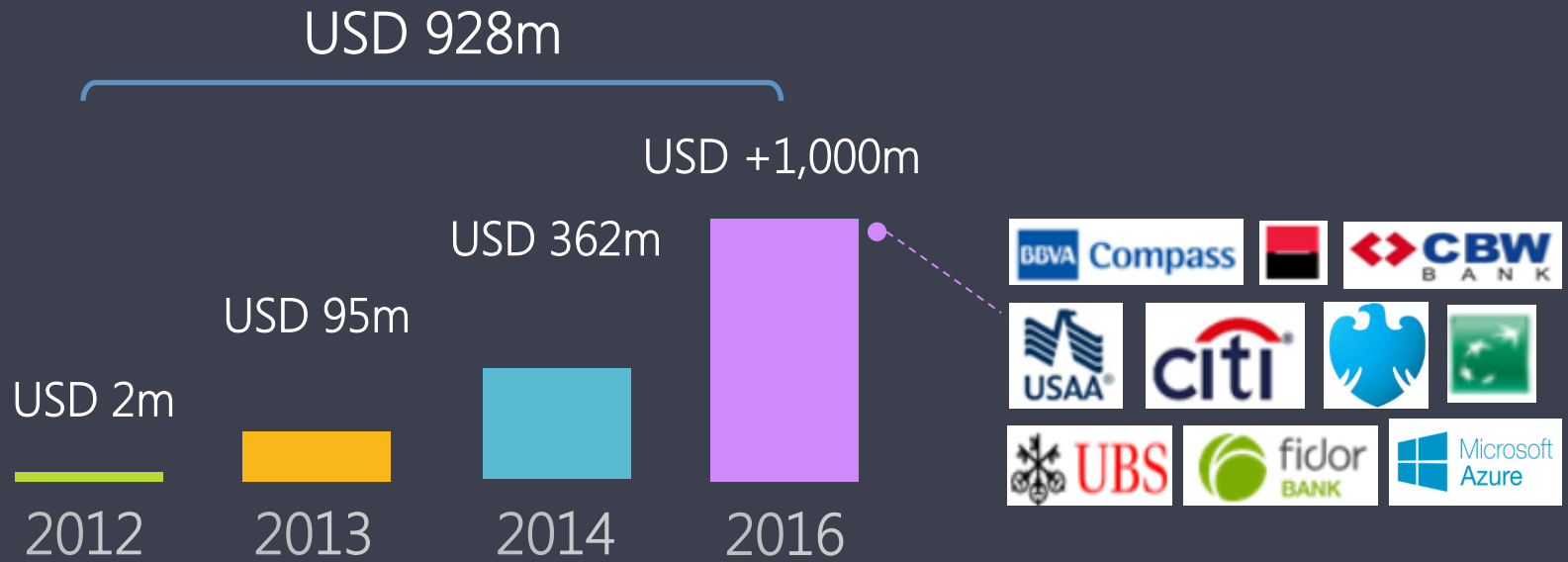
2015



■ Intense development and investment into blockchain (smart contracts, DAO/DAC, government / public services)

DEVELOPMENT

Investments



Leading VC firms investing into Blockchain:

Khosla Ventures
 IDG Capital Partners
 Ribbit Capital
 Boost

Digital Currency Group
 Digital Asset Holding
 C3





DEVELOPMENT

Investments

R3 CEV - Bank driven company

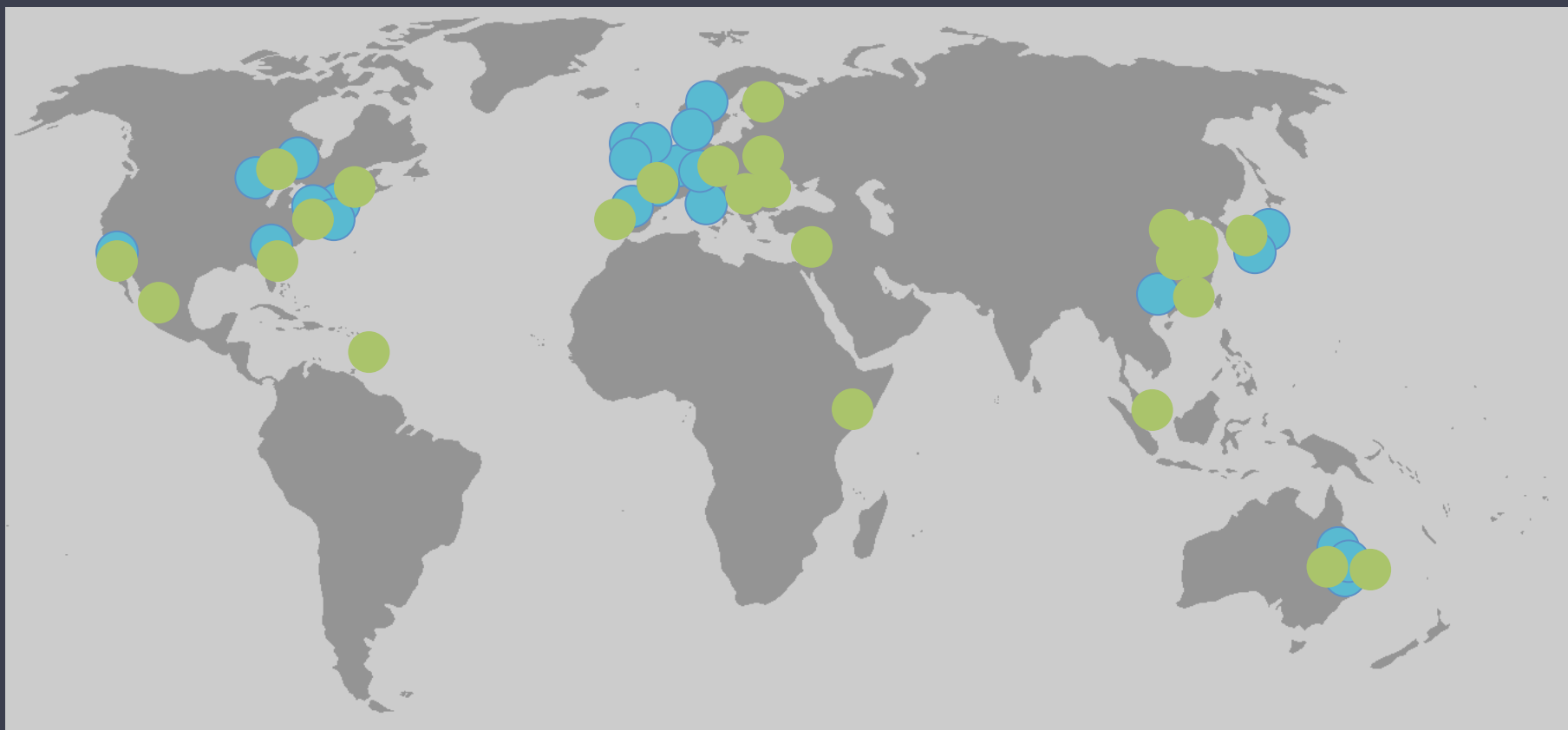
Barclays	HSBC	Macquarie Group
BBVA	Mitsubishi UFJ Financial Group	Canadian Imperial Bank of Commerce
Commonwealth Bank of Australia	Morgan Stanley	BMO Financial Group
Credit Suisse	National Australia Bank	Danske Bank
Goldman Sachs	Royal Bank of Canada	Intesa Sanpaolo
J.P. Morgan	Skandinaviska Enskilda Banken	Natixis
Royal Bank of Scotland	Société Générale	Nomura
State Street	Toronto-Dominion Bank	Northern Trust
UBS	Mizuho Bank	OP Financial Group
Bank of America	Nordea	Banco Santander
BNY Mellon	UniCredit	Scotiabank
Citi	BNP Paribas	Sumitomo Mitsui Banking Corporation
Commerzbank	Wells Fargo	U.S. Bancorp
Deutsche Bank	ING	Westpac Banking Corporation

DEVELOPMENT

Investments – World Map

● R3 CEV

Other companies ●



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BLOCKCHAIN 1.0

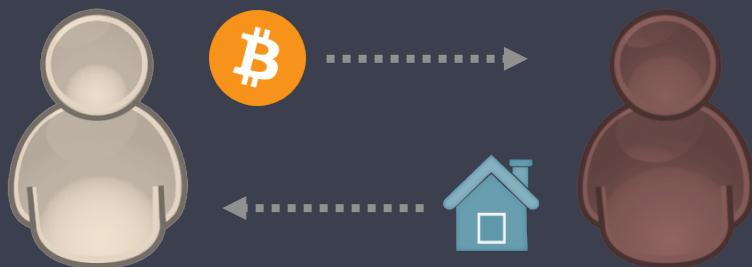
BLOCKCHAIN 2.0

BLOCKCHAIN 3.0

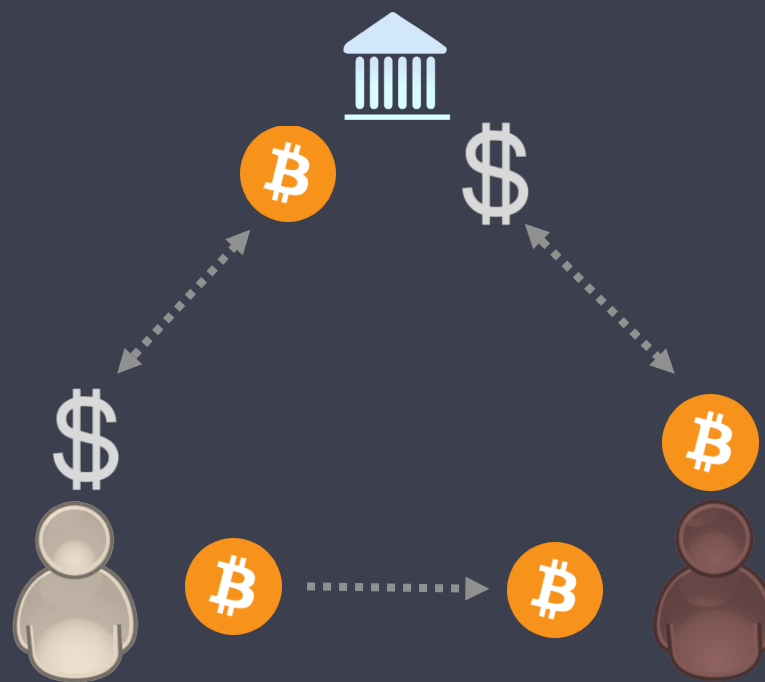
APPLICATIONS

Blockchain 1.0

Service / goods payment platform



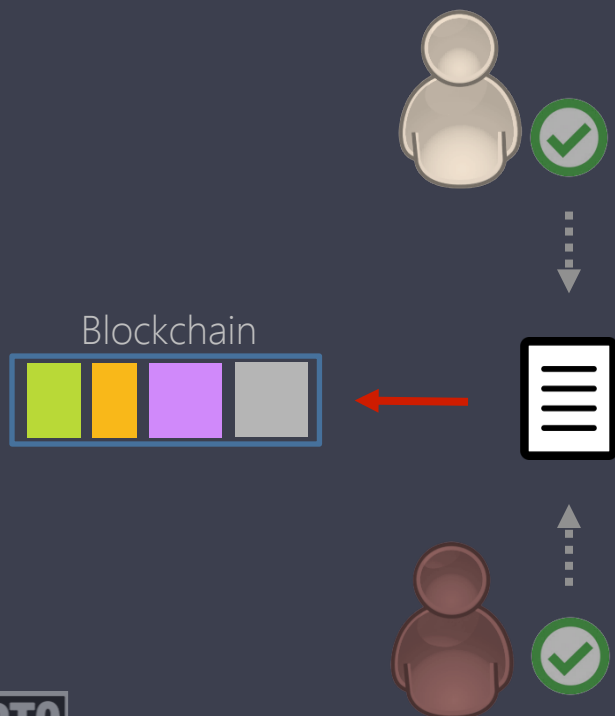
Money transfer



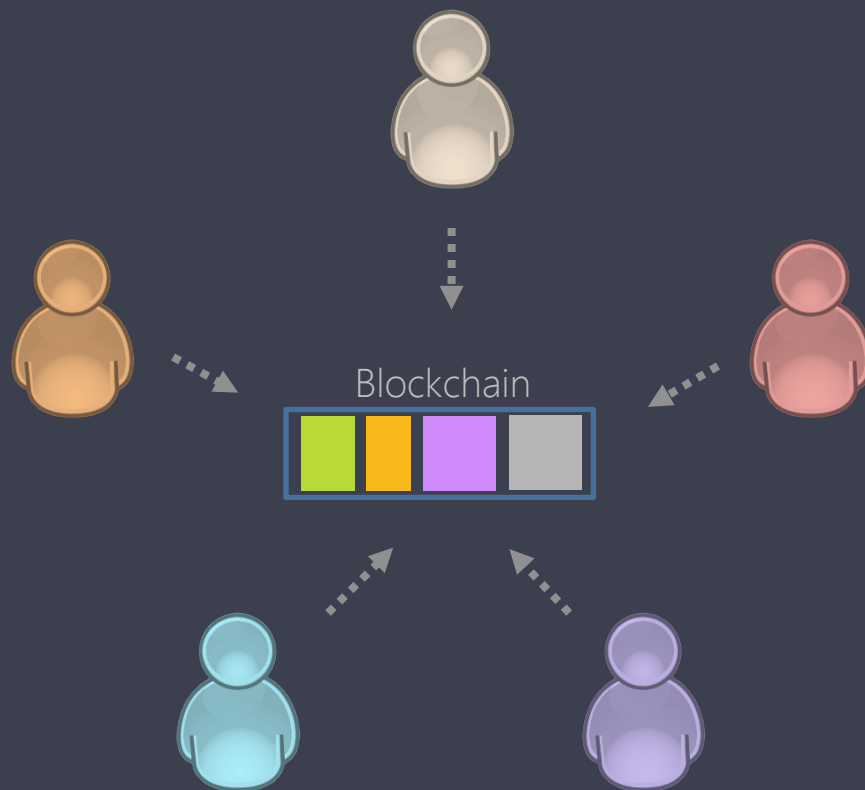
APPLICATIONS

Blockchain 2.0

Smart contracts



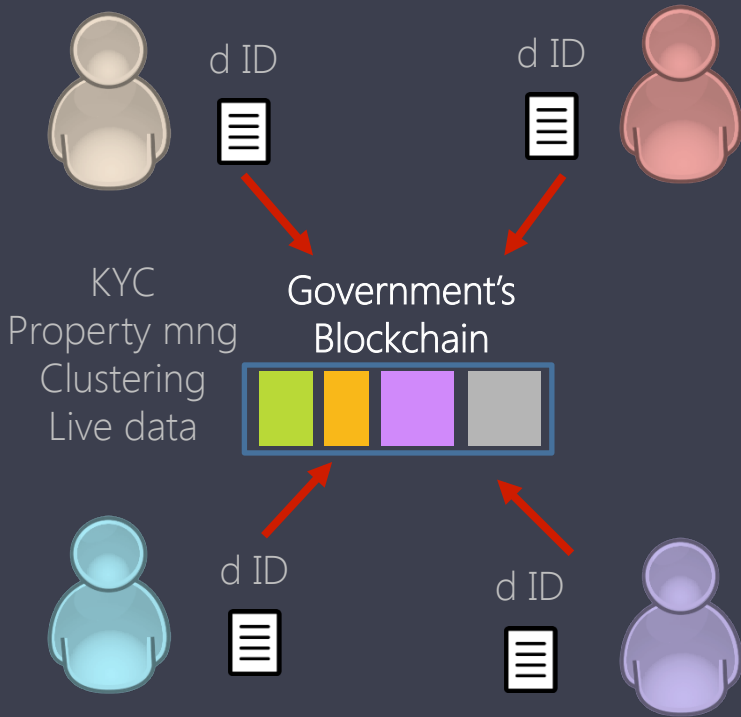
Voting system



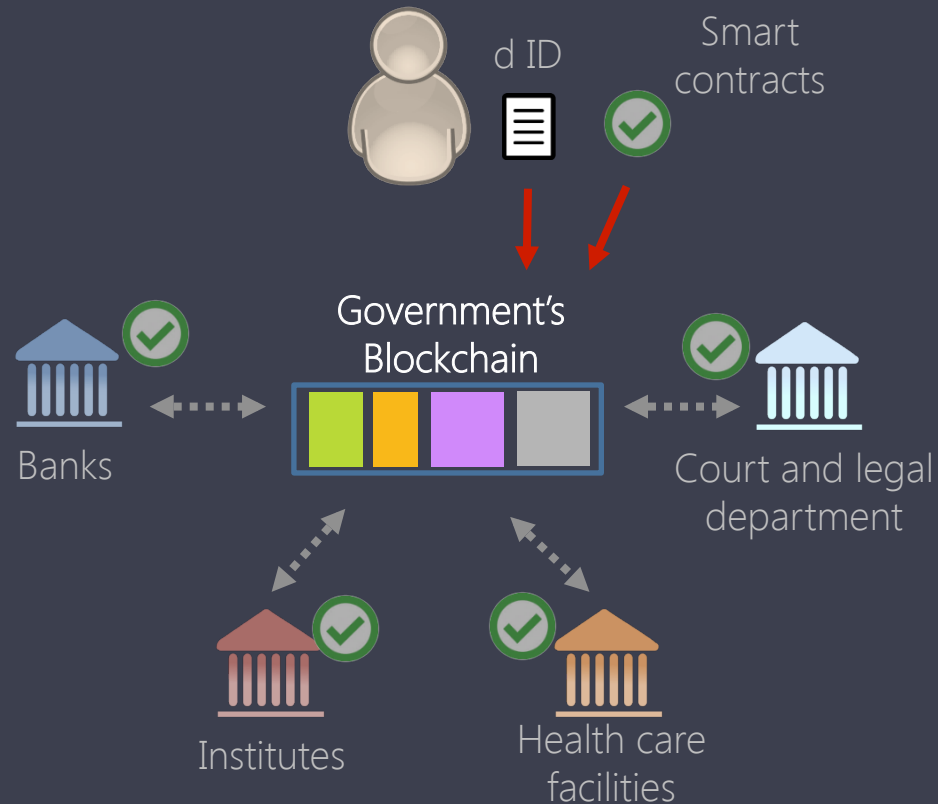
APPLICATIONS

Blockchain 3.0

Digital identification



Digital administration



APPLICATIONS

And more ...

Proof of property / asset

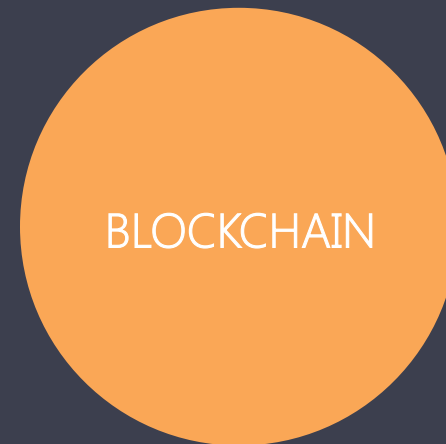
Smart organizations /
companies

e-Residency

Book of complaints

Internet of Things

Healthcare



Food chain production



Almost everything what is digitalized or can be in some way digitalized, blockchain can be of help. In terms of lower cost of business, higher security or more compliant company process development.