Blockchain Highlights

June 2016

EY
Building a better working world

Key attributes of blockchain and distributed Infrastructure

What is Blockchain technology and Distributed Infrastructure?

Database & Network

Blockchain is a database and a network which means it can store and transmit data

Synchronised

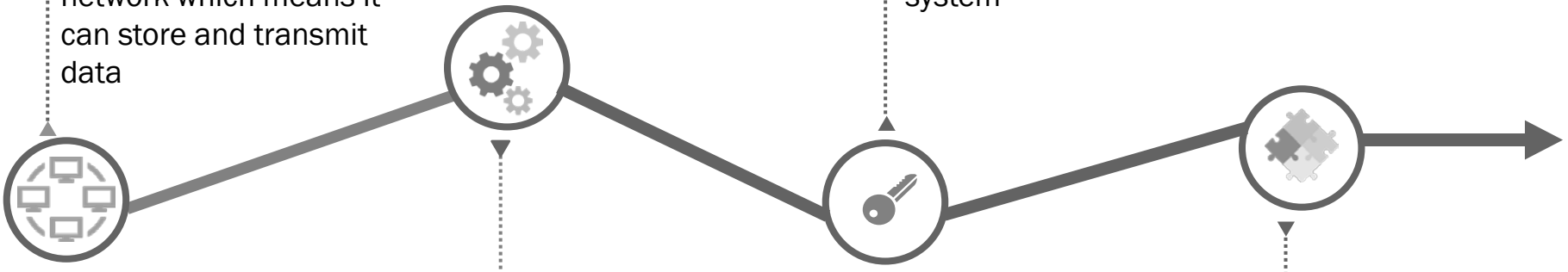
All activity on the blockchain is automatically reflected across the network

Secure

Data cannot be changed once committed to the system

Smart transactions

Code can be added to transactions that allows autonomous execution of functions under predefined conditions, known as ‘smart contracts’



The value of distributed infrastructure is seen in its attributes

Distributed technology allows distribution of trusted value transfer and execution without requiring intermediaries: **the network is the intermediary**

Characteristics of Distributed Infrastructure

Digital Identity

Participating party can be uniquely identified digitally

Provable Transactions

All transactions can be proven to have taken place at particular times

Autonomous Executions

Transactions occur automatically on predefined conditions/smart contracts

Characteristics specific to blockchain technology

Immutable Golden Source

One version of data which cannot be altered

Transparent

Visibility into historical transactions by permissioned parties

Rapidly Scalable

Nodes (clients) can rapidly be added

View of competitor financial services investment ecosystem 2010-2016*

Cryptocurrency (Bitcoin)

Digital Asset Holdings

Payments

GOPAGO

Square

clearXchange

Tapjoy

Risk & Security

Derivix

Insurance

digital insurance
Simplifying the health care journey

Capital Markets

chi-x GLOBAL

CODE Advisors

Payments – E-Commerce

LAZADA
Effortless Shopping

seamless

JUMIA

ZALORA

lamoda

zalando

LINIO

dafiti

NAMSHI

home 24

THE ICONIC

Leading global initiatives and Blockchain providers in payments

Banks are evaluating/experimenting and participating in multiple options for Blockchain use cases in cross border payments

Vendor / Initiative	Level of Blockchain Coverage
R3 CEV	●
GPII	◑
Ripple	●
Earthport	◑
Symbiont	●
Tipalti	○
Hyperledger	●

Implementation Challenges and Considerations

Internal Factors	The technology is not the solution, but an enabler Industry wide standardization of protocols Technical complexity
External Factors	The transparency paradox Acceptance by regulatory authorities