Fujitsu World Tour 2018

Blockchain to drive innovation

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Human Centric Innovation

Co-creation for Success

Blockchain to drive innovation

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From Fujitsu latest research

- Most business initiatives on blockchain focus on current business processes and models. Projects of companies applying peer-to-peer-decentralized models without intermediaries are rare.
- There are many pilot projects in progress in several industries, but it is expected that many of these will fail in the coming years due to insufficient requirements or suitability of selected technologies.
- Financial Services and Government institutions will have the fastest adoption rate of Blockchain and will also have a more transformational impact on their businesses.
- By 2022, more than a billion people will have some data about them stored on a blockchain, but may not be aware of it.
- There are generally positive prospects about blockchain globally, but the approach and rules for crypto currencies vary greatly.
- Japan is the largest market for crypto-currency in the world, with 61% of the global trade volume of Bitcoin.

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What is blockchain?

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Distributed database in which all data modifications are chronologically ordered and cryptographically secured

Public and private blockchains

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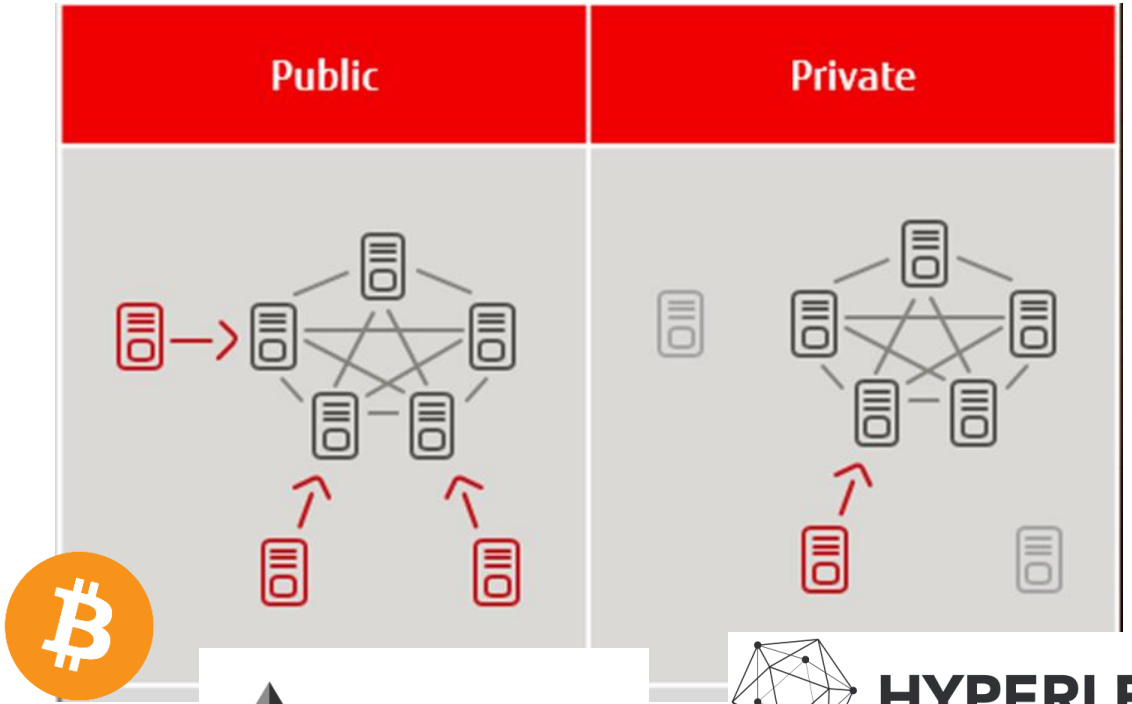

ETHEREUM

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Blockchain success factors

- Several parties involved
- Exchange of unique digital assets
- Realtime data access
- Data and transaction transparency
- Not possible to manipulate data
- Data should be traceable
- Tradtionally a third party is needed for verifying data
- 24/7 availability

Unsuitable Blockchain use cases

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- High speed transaction: Limited number if transactions per seconds
- Fast finality for transaction: Potentially some delay until a transaction is finalized
- Large Document Storing: Not suitable for storing large documents
- Use in single or small organization: Blockchain technology is in general most suitable for value exchange between multiple organizations or stakeholders
- Replacement of existing system: for example databases or messaging middleware

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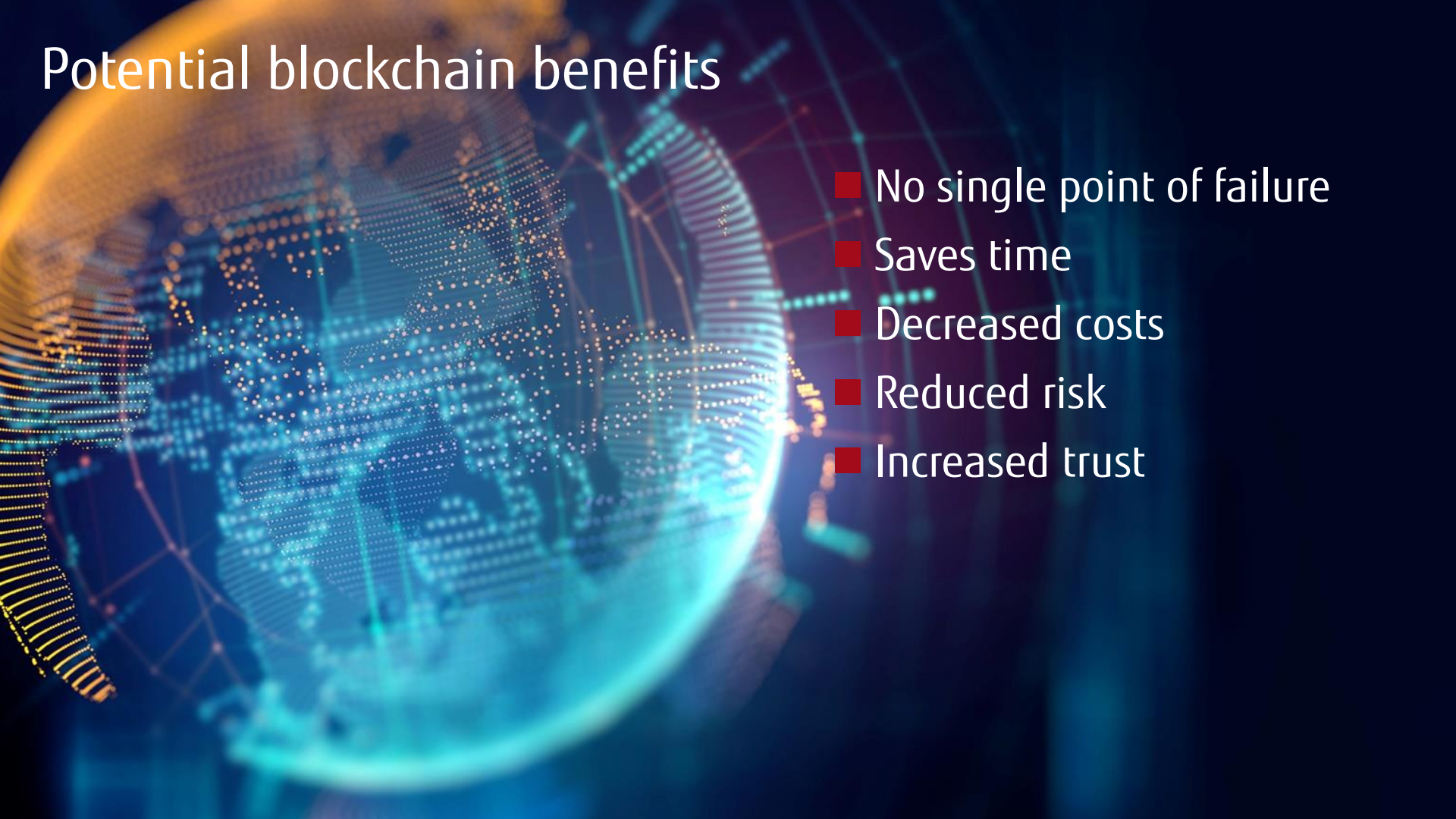
Potential blockchain benefits



- No single point of failure
- Saves time
- Decreased costs
- Reduced risk
- Increased trust

Expected use cases for blockchain

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Fujitsu Enterprise Blockchain

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- Blockchain-as-a-Service on Fujitsu Cloud Service K5
- Ready to use REST API for digital assets management in your business
- Basic functions provide as All-In-One
  - Management UI for blockchain dashboard, user control and etc
  - Data concealing function for safety transaction
  - Large data store for documents

Hyperledger Fabric

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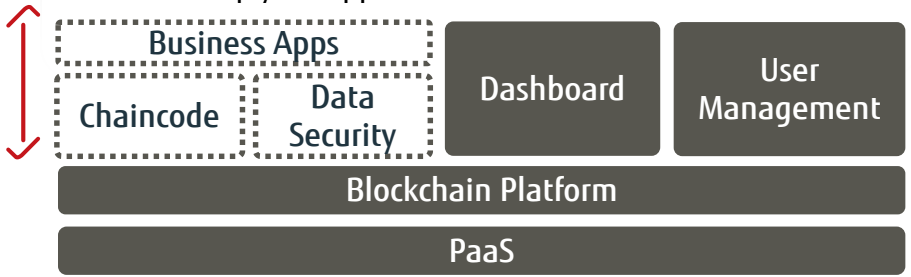
Fujitsu Enterprise Blockchain

- Able to focus on:
  - designing business model
  - developing business application

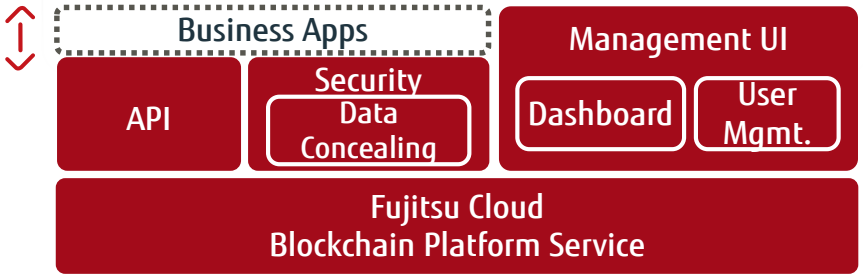
Building your own Blockchain platform

- To develop Chaincode
- To ensure Data Security
- To develop your apps



Fujitsu Enterprise Blockchain

- To develop your apps
- To engage your customers



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Blockchain Innovation Centre - Brussels

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Fujitsu Blockchain Innovation Centre

To create relevant knowledge and know-how to enable the application of Blockchain for the realization of Smart Cities

- Project is focused on technical and non-technical elements with regards to Blockchain, including:
  - Decision and process modelling
  - Business engineering
  - Use cases (City of Brussels and Citizen Participation)
  - Technical baseline (Hyperledger Fabric)
- The approach and business engineering developed will be useable in a broad spectrum of sectors (manufacturing, government, Financial, services, etc.)

http://www.fujitsu.com/be/microsite/blockchain

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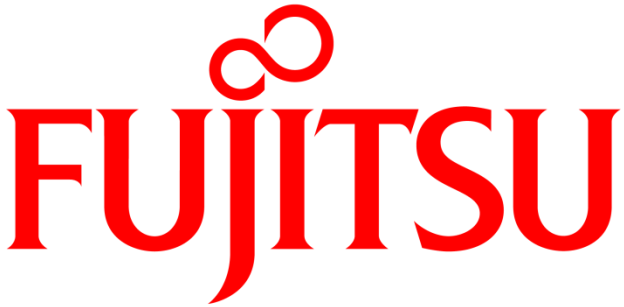

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