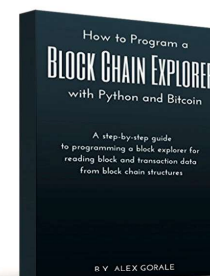
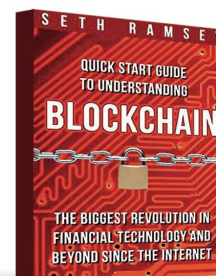
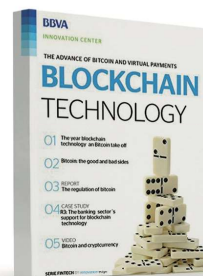
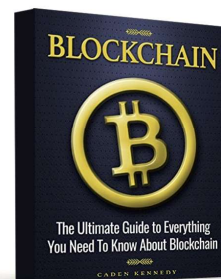
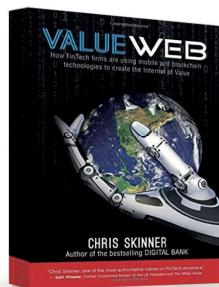
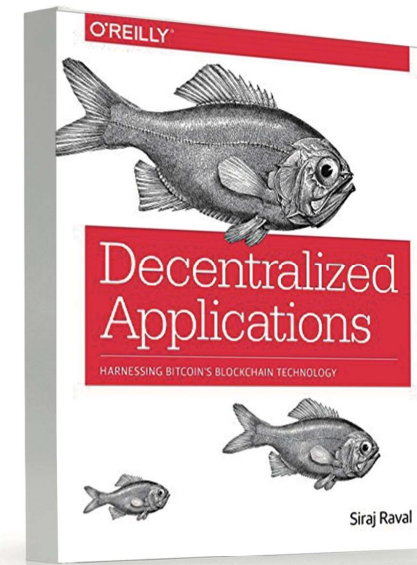
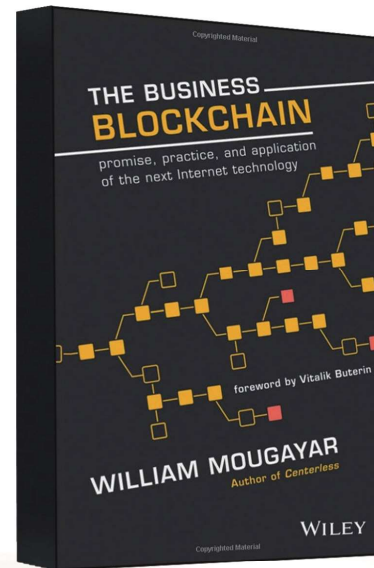
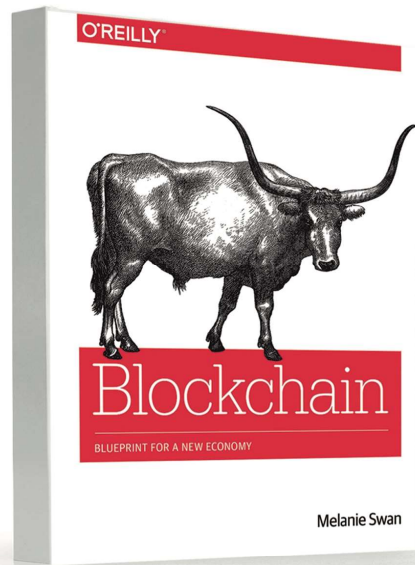




# Blockchain in the local sector!

Dieter Rehfeld | 13.06.2017

## Current books and studies



## Blockchain reaches the press

### theguardian

07.07.2016

#### Blockchain: the answer to life, the universe and everything?

Have you heard the good news? The blockchain is here – and it's going to save everything.

### Mortgage Finance Gazette

01.05.2017

#### HOW BLOCKCHAIN CAN IMPROVE THE MORTGAGE PROCESS

Blockchain is in its infancy in the mortgage industry but has the potential to turn the mortgage process into a slick, secure and fast end-to-end solution connecting all elements of the home loan chain.

### FINANCIAL TIMES

16.01.2017

#### Database move gives blockchain its first big test case

The world's main repository for data on credit derivatives deals will move its database on to the blockchain, in the first big test case for whether the emerging technology can be employed across the finance industry.

### FINANCIAL TIMES

11.10.2016

#### Blockchain starts transition from hype to everyday use in markets

The technology behind digital currency bitcoin has been much discussed in finance. But so far a lot of the talk falls into two categories: education – understanding what the technology is and how it might work in different areas of banking and markets – and hype. Some of blockchain's most zealous supporters and early investors argue it could bring significant change.

### PYMNTS.com

19.04.2017

#### IBM'S BLOCKCHAIN LANDS AT JAPAN'S MIZUHO FOR TRADE FINANCE

BM's blockchain technology has landed at yet another financial institution, this time in Japan for the purpose of facilitating trade finance transactions.

### Laredo Morning Times

03.05.2017

#### CAN BLOCKCHAIN TECHNOLOGY HELP POOR PEOPLE AROUND THE WORLD?

A blockchain system, though, inherently enforces rules about authentication and transaction security. That makes it safe and affordable for a person to store any amount of money securely and confidently. While that's still in the future, blockchain-based systems are already helping people in the developing world in very real ways.



# The IT world gains its position



IBM Blockchain

Understand the fundamentals of IBM Blockchain

Blockchain technology presents opportunities for disruptive innovation. It enables global business to transact with less friction and more trust.

Blockchain is a shared, immutable history of transactions. It fosters a transactional applications that establish transparency.

IBM Blockchain has joined The Linux Foundation and improve upon earlier forms of blockchain. It is built on the exchange of cryptographic network (e.g. Bitcoin), a blockchain for business network, with known identities, without the need for a central authority.

Blockchain in 3 minutes

**Blockchain in 3 minutes**

John McLean - VP Global Blockchain Labs Engagement



R3 TACKLES TRADE FINANCING CHALLENGES WITH DISTRIBUTED LEDGER TECHNOLOGY



Microsoft Azure

Blockchain as a Service

Develop, test and deploy blockchain applications

Getting started >



Deloitte

Role of blockchain in the energy and resources industry

The blockchain revolution has gone beyond the financial services industry and is evolving as the next same character for many businesses across many sectors. Is blockchain ready for energy and resources industry? Is it a hype—or a genuine agent of change? Digging into how blockchain could impact the energy and resources.

Explore Content

Blockchain could have an impact on energy and gas transformation or payment.

Blockchain enables the potential applications for the oil and gas market.

Blockchain applications in energy trading.

Blockchain, but will be the next big industry technology has had little impact on the oil and gas industry. However, blockchain could be an enabler for the industry's digital transformation.

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Blockchain, but will be the next big industry technology has had little impact on the oil and gas industry. However, blockchain could be an enabler for the industry's digital transformation.

What is blockchain?

Blockchain is an emerging way for businesses, industries and public organisations to almost instantaneously make and verify transactions – streamlining business processes, saving money and reducing the potential for fraud. At its core, a blockchain is a data structure that's used to create a digital transaction ledger that, instead of resting with a single provider, is shared among a distributed network of computers.

The result is a more open, transparent and publicly verifiable system that will fundamentally change the way we think about exchanging value and assets, enforcing contracts and sharing data across industries. The applications using blockchain are almost limitless, ranging from loans, bonds and payments to more efficient supply chains, and even to identity management and verification.

Read more about blockchain

WHAT IS THE HYPERLEDGER PROJECT?

The Hyperledger Project is a collaboration effort between business, industry, academia, government and open source communities to create a new generation of enterprise-grade distributed ledger technologies.

EY

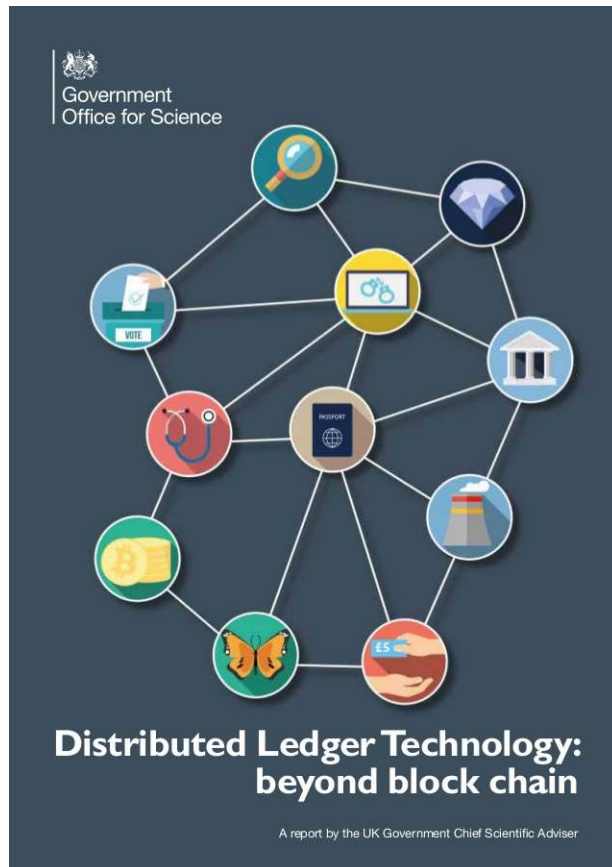
Blockchain technology as a platform for digitalization

Blockchain technology as a platform for digitalization

Blockchain technology as a platform for digitalization



## Distributed Ledger Technology – The trust machine for Government

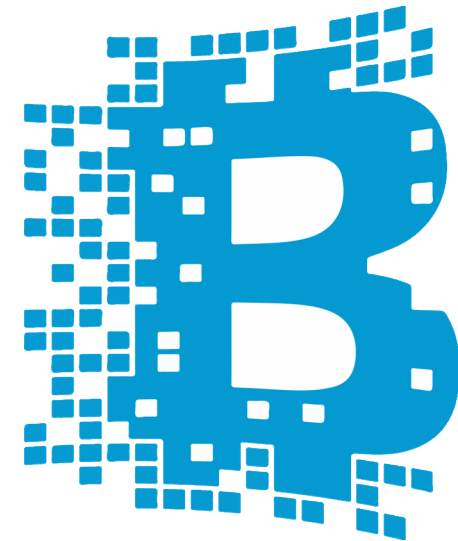


## Blockchain: Distributed Ledger Technology

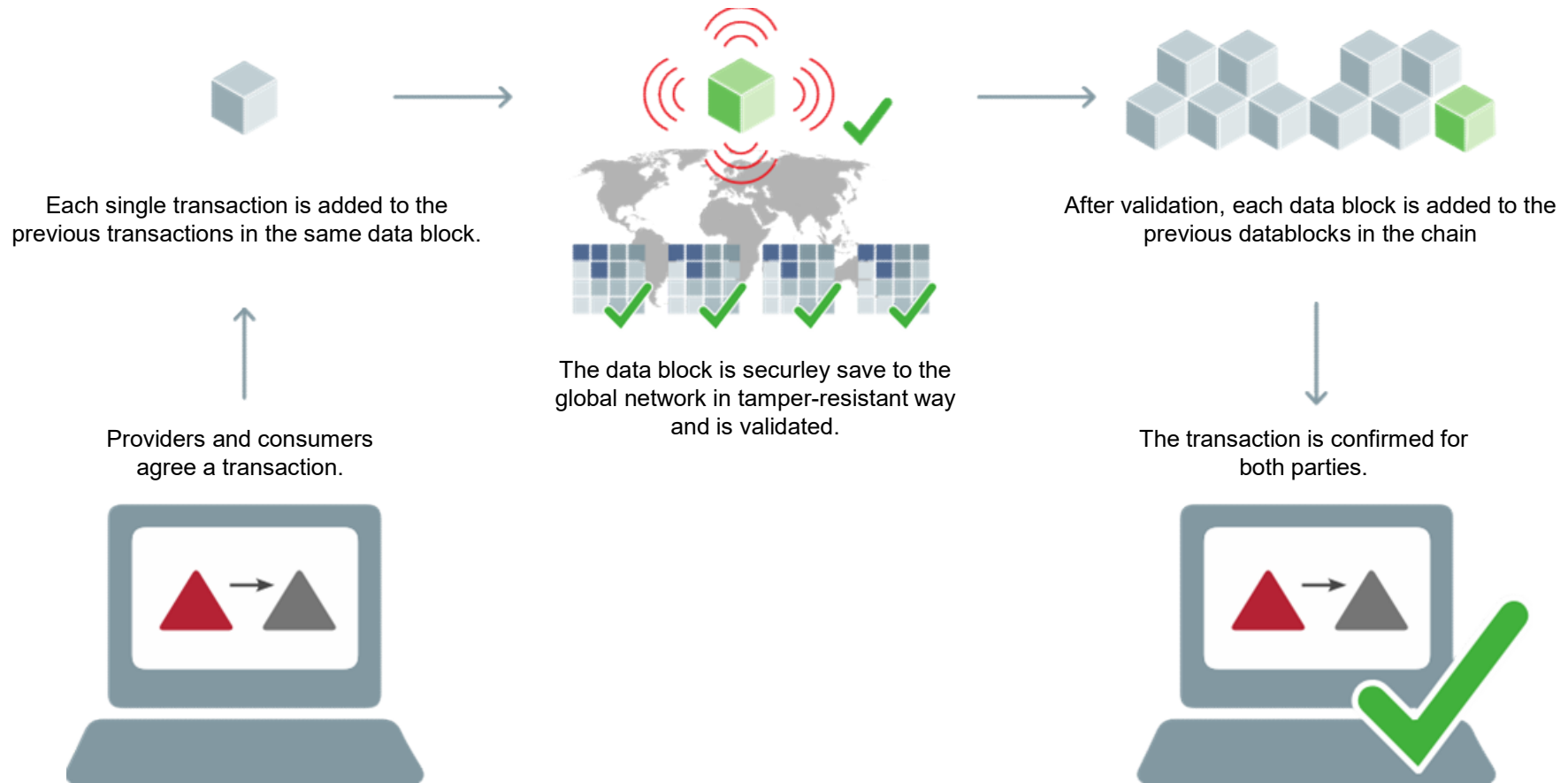
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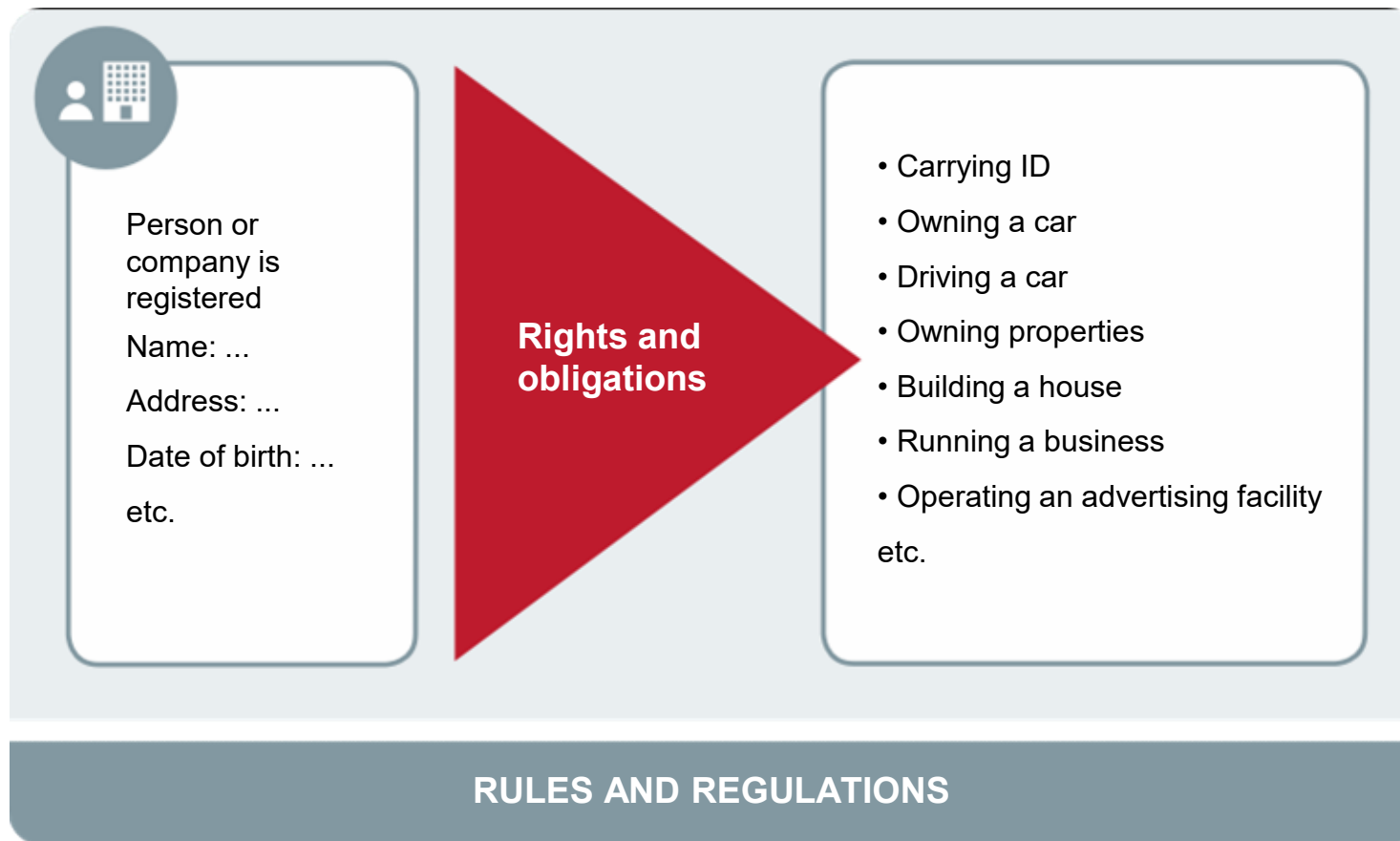
The technological  
foundations of  
**Bitcoin**  
=  
**Blockchain**



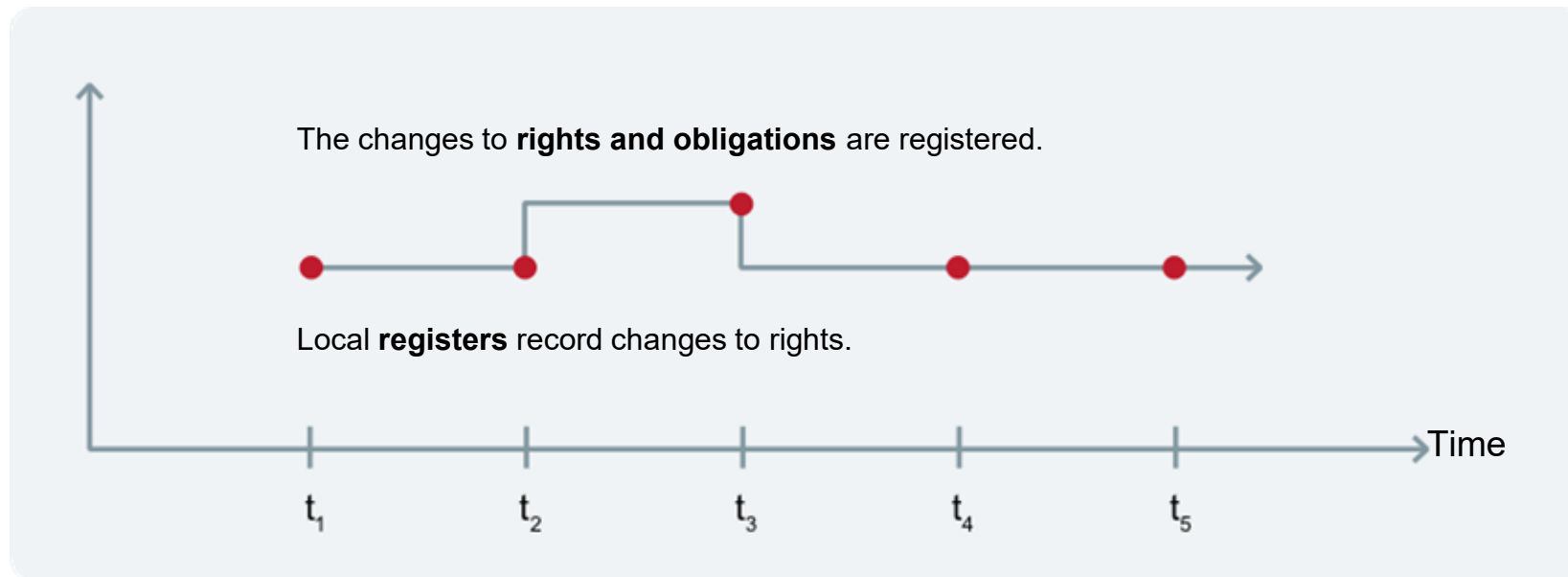
## Blockchain process



## Local administration: Rights and register



## Local administration: Rights and register



## Prove ownership of public documents

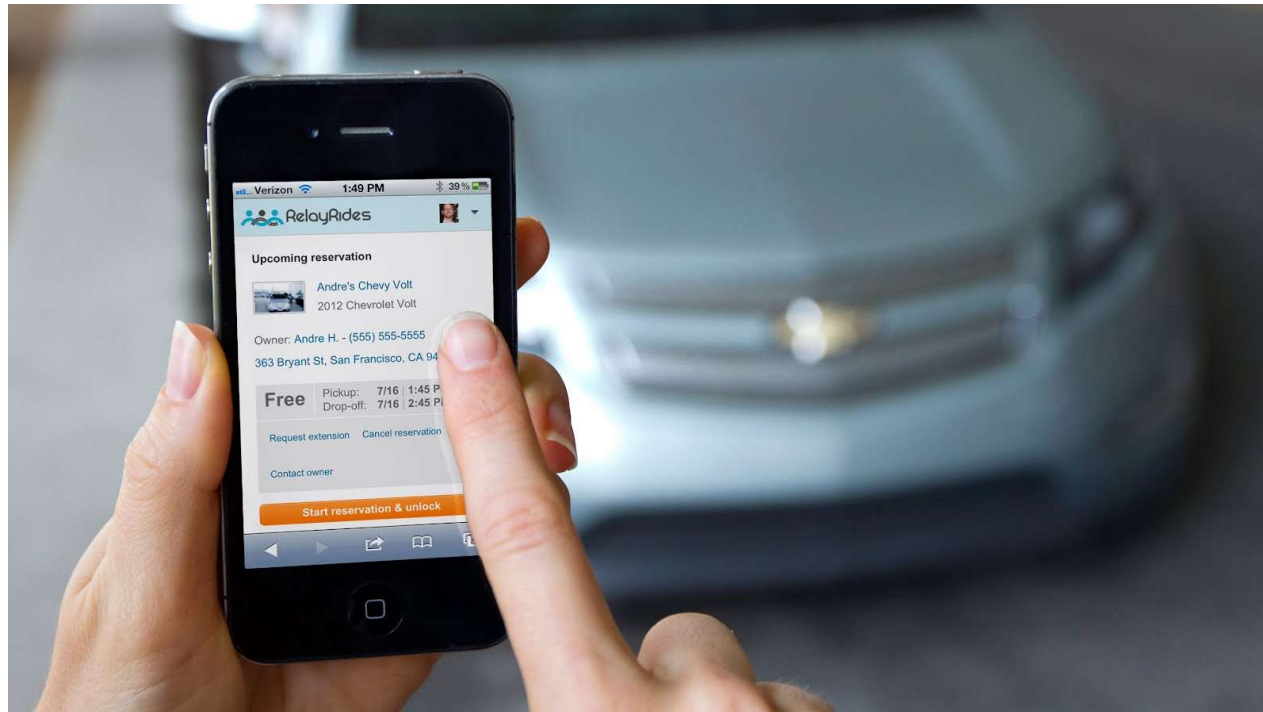
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## Verification of academic qualifications



## Verification of documents around car renting



## Smart city

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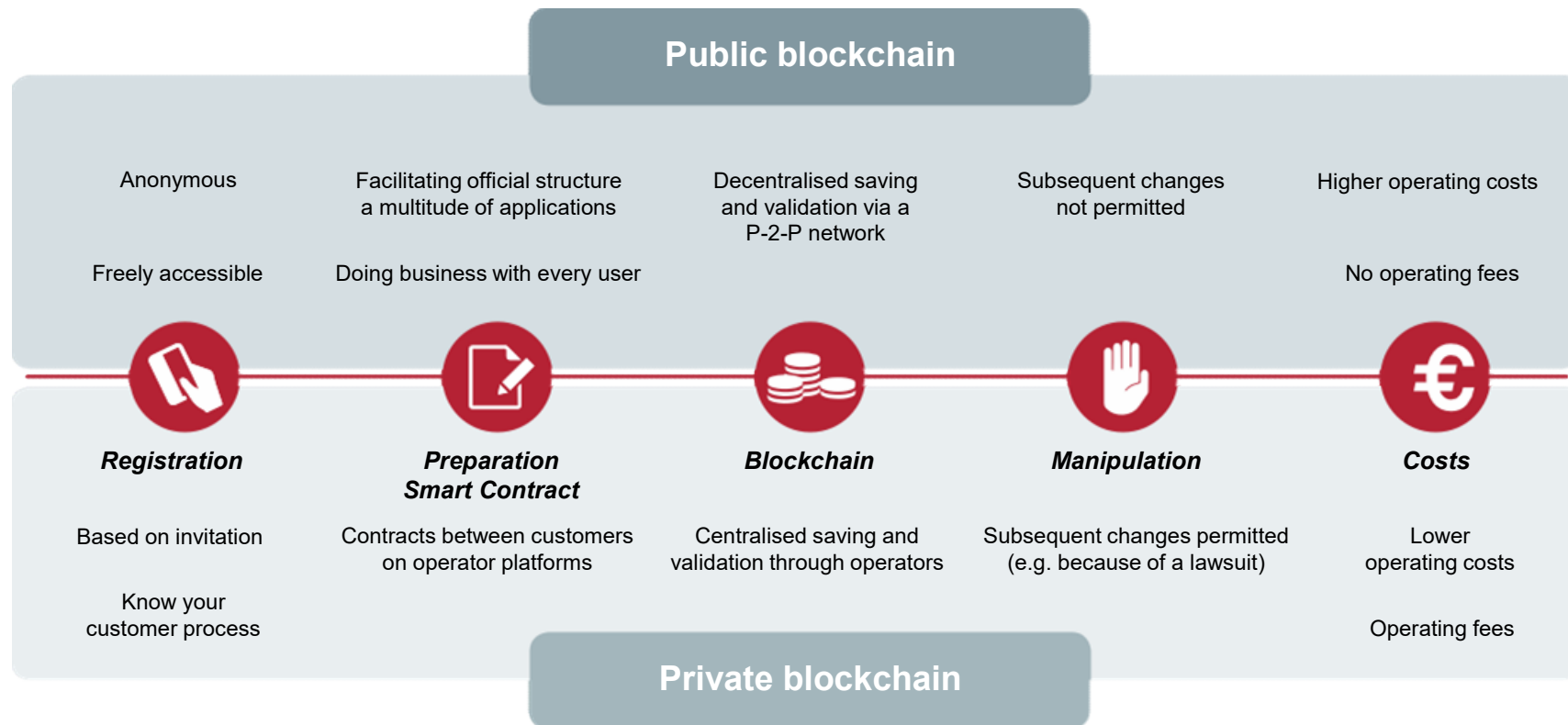


## Verification of the validity of all data

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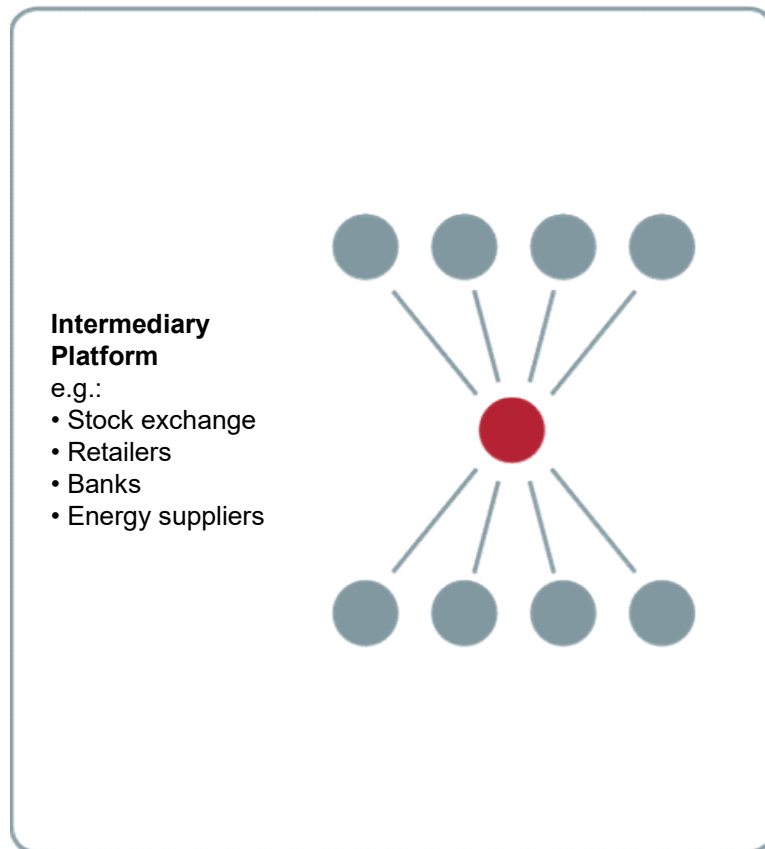


## Comparison of public and private blockchains

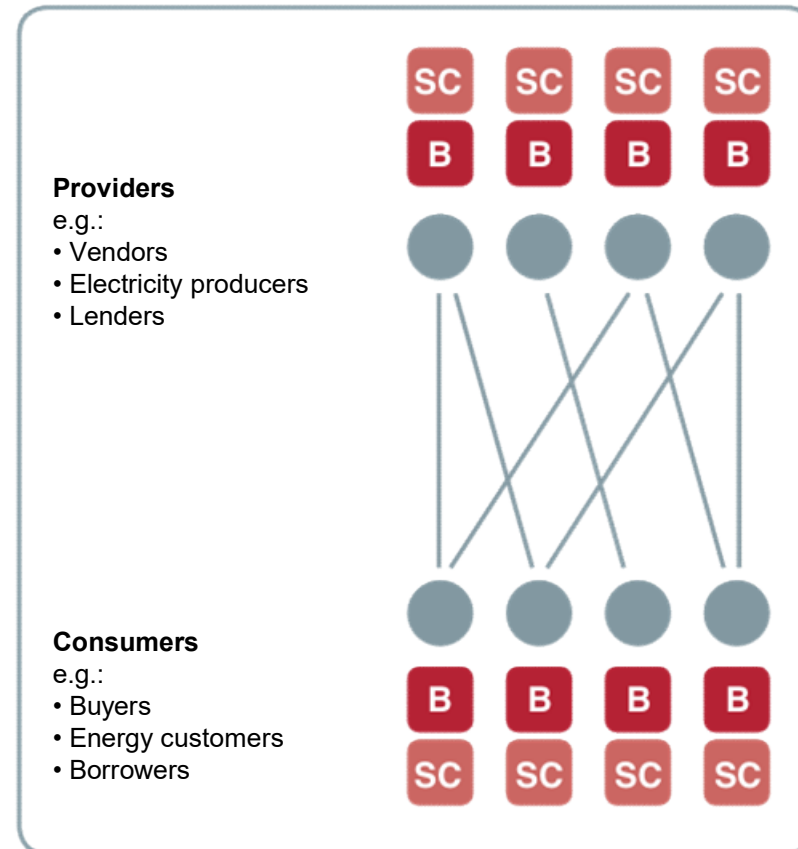


## Transaction models

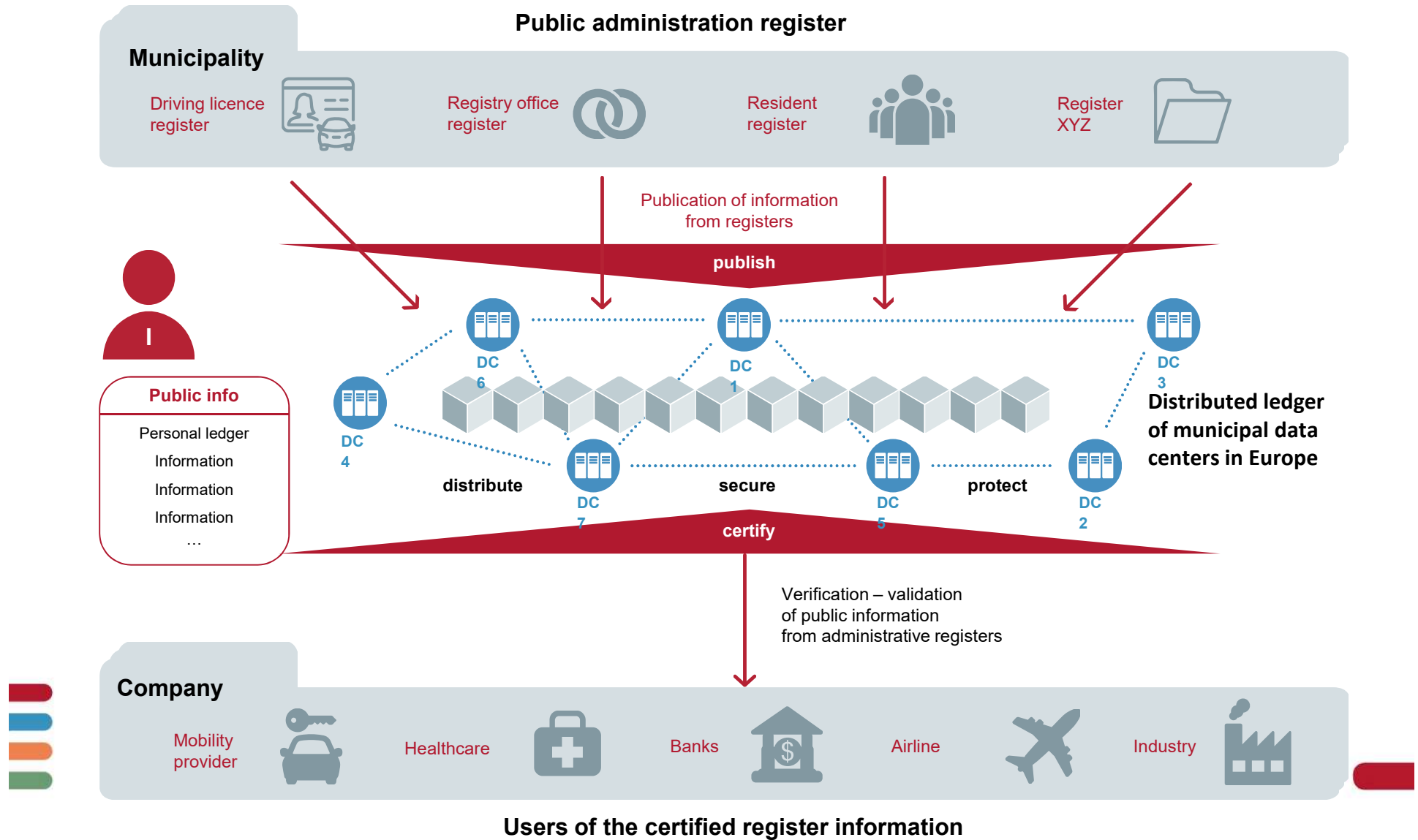
### Current transaction model



### Blockchain transaction model



## Electronic authentication based on DLT





**Thank you for your attention!**

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