



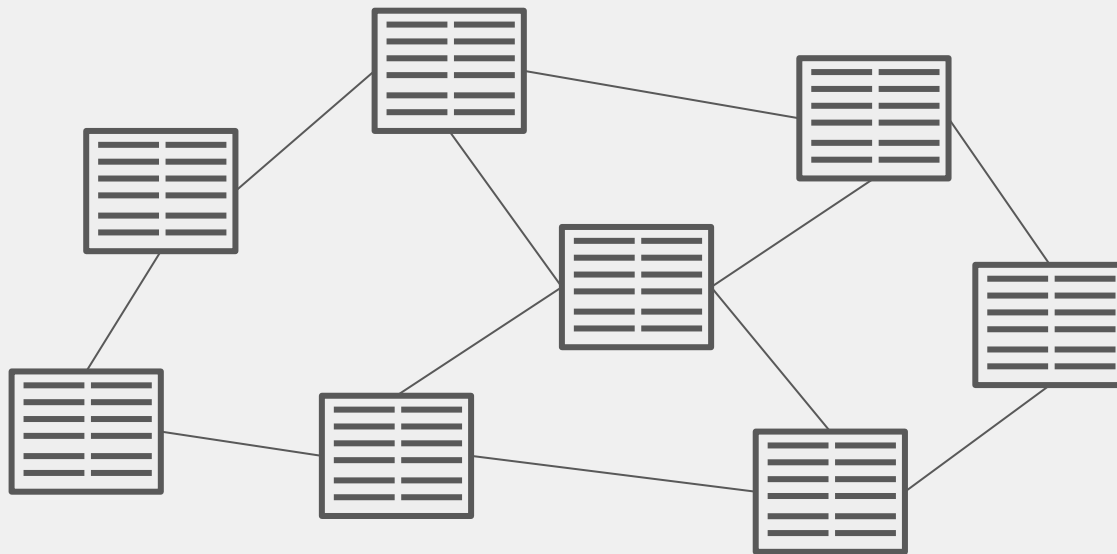
# BLOCKCHAIN: HOW TO IDENTIFY GOOD USE CASES

A step by step approach

Bruno Ciscato  
Senior Solutions Architect  
May 9, 2018



# Blockchain



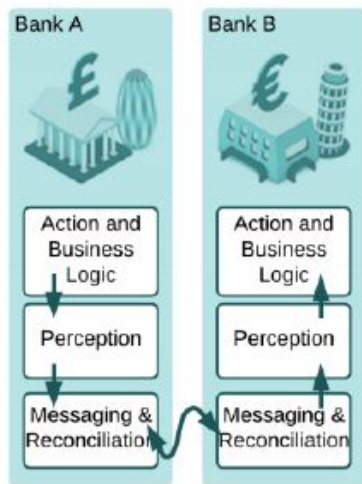
Immutable, shared, distributed ledger

# Multiple parties

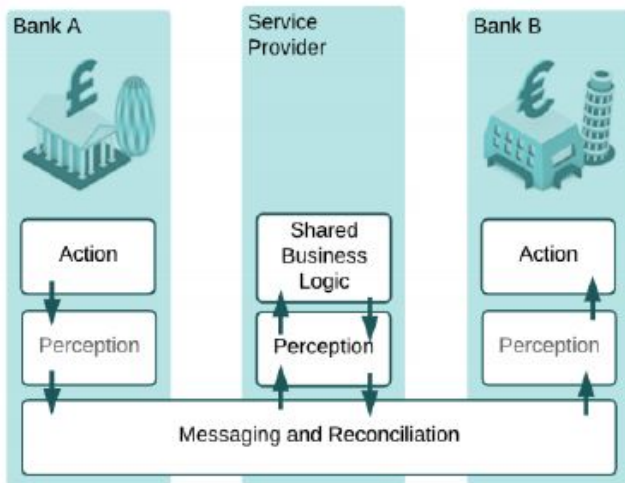
“It is now possible to build systems that are operated by multiple parties, none of whom fully trust each other, that nevertheless come into and remain in consensus as to the nature and evolution of a set of shared facts”\*

\*A Simple Explanation of Enterprise Blockchains for Cryptocurrency Experts

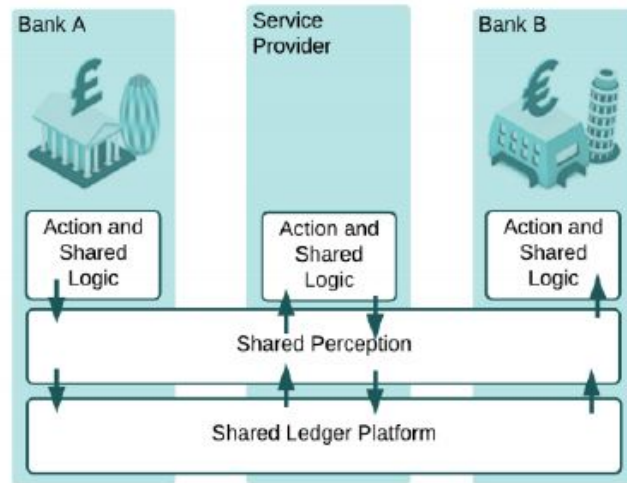
# All the use cases have been solved already



Bilateral - Reconciliation



Third Party / Market Infrastructure



Shared Ledger Vision

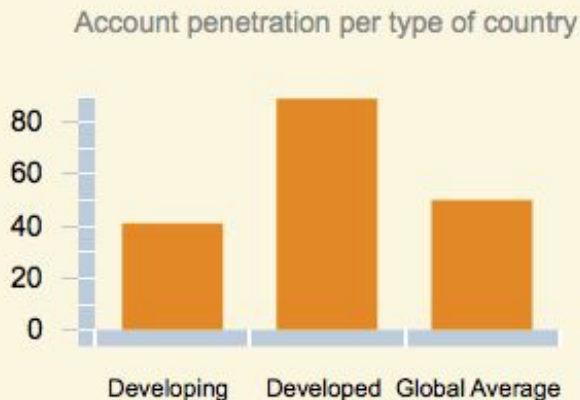
\*Corda: an Introduction

# MULTIPLE PARTIES



# When a trusted intermediary is not available

**2.5 billion adults are unbanked**



10% of the adults in  
NYC are unbanked

<http://www.worldbank.org/en/programs/globalindex>

# When you can improve on the existing tech

May 2017

## A blueprint for a new RTGS service for the United Kingdom



BANK OF ENGLAND



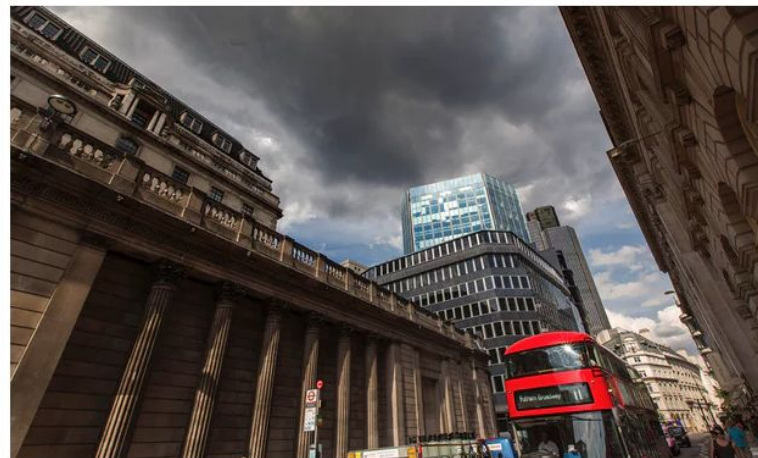
# When you can improve on the existing tech

CHAPS processes about 140,000 transactions a day, worth on average £277bn

On October, 20 2014 the system went down for a whole day

## Bank of England payment system crashes leaving homebuyers in limbo

Bank apologises for failure of system used for large transfers as governor Mark Carney orders urgent investigation



▲ The Bank of England's behind-the-scenes payment system deals with transactions as they happen. Photograph: Graham Turner/Guardian



# MULTIPLE PARTIES



# Backing

“Who stands behind the assets represented on the blockchain?”\*

Remember, the Blockchain only stores a digital representation of your assets or facts!

\*Avoiding the pointless blockchain project

# Backing Land registry



[Home](#)[About our app](#)[How it works](#)[Screenshots](#)[FAQ](#)[Download](#)

# Get explicit about sexual consent

## Secured in the blockchain

This showcase is powered by [LiveContracts.io](#)

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# Sweden plans change in law to require explicit consent before sexual contact

**Under proposed legislation rape could be proved if accuser had not given verbal agreement or clearly demonstrated desire to engage in sexual activity**




▲ People take part in a demonstration against rape in Malmö, Sweden, on Tuesday. Photograph: Johan Nilsson/EPA

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# Prenuptial Agreement FAQ - United States



A [prenuptial agreement](#)  is a contract entered into by two people who are about to marry. A prenuptial agreement (often called a 'prenup' or 'prenupt') is used to specify how property and debts will be divided in the event of a breakup.

Ready to create a free Prenuptial Agreement?

[Get Started](#)



# MULTIPLE PARTIES





# Immutability

“Is immutability a desirable property  
for your use case?”

# Immutability

## User reviews ICO

### How It Works

User feedback on the ██████████ platform will be sent to the blockchain where it remains immune to change. All reviews will be available for a request from a smart contract.

██████████ will ensure maximum organic response, providing adequate feedback from real users of its system.

When a user posts a review, they can trust the platform will not change it.

# Immutability

From the New York Daily News, 2009:

**Correction: It has come to the attention of the Daily News that a number of statements in this article written for the Daily News by a freelance reporter are, or may be, false.** Cornell University has told us that Shante did not receive any degree from it under either her birth or stage name[...]

# Immutability

“What happens if it is not?”

You now need an ancillary mechanism to change the facts and you need to secure it.

It becomes the weakest link in the chain (pun intended).

# MULTIPLE PARTIES



# Blockchain



# Consensus



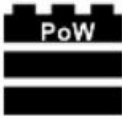




Rules and procedures that allow to maintain and update the ledger and to guarantee the trustworthiness of the records

- speed of transactions
- energy efficiency
- scalability
- censorship resistance
- tamper-proof

\*Ontology of Blockchain Technologies. Principles of Identification and Classification



# Consensus

Main Component	Sub Component	Layout 1	Layout 2	Layout 3	Layout 4	Layout 5
						
Consensus	Consensus Immutability and Failure Tolerance	Proof of Work	Proof of Stake	Proof of Authority	Proof of Capacity Proof of Storage	Hybrid

\*Ontology of Blockchain Technologies. Principles of Identification and Classification

# MULTIPLE PARTIES



## Last two things to consider

1. Are we changing the business model?
2. What are we really improving?

## Where Blockchain Meets Cold Chain



Technology

## Someone Figured Out How to Put Tomatoes on a Blockchain

By Annie Massa

9 November 2017, 10:00 GMT

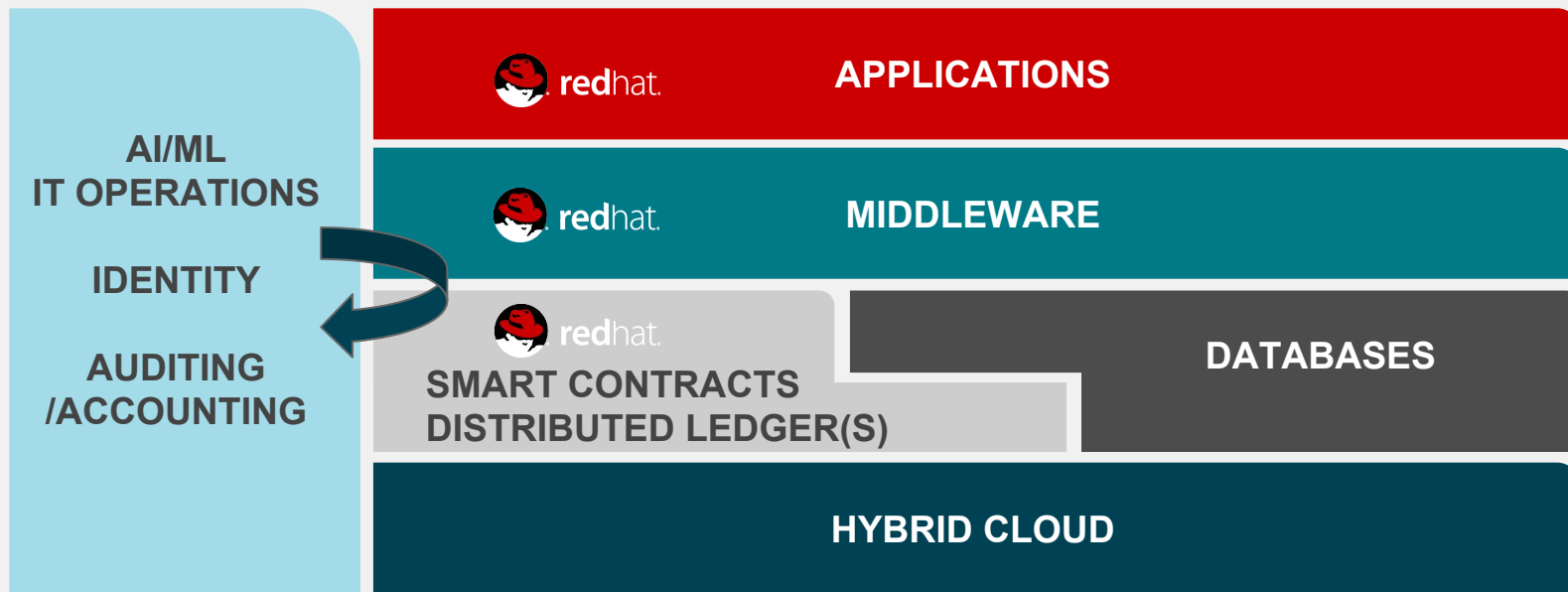
## Australian stock exchange to move to blockchain

7 December 2017

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# The Enterprise IT Stack in 2025?



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