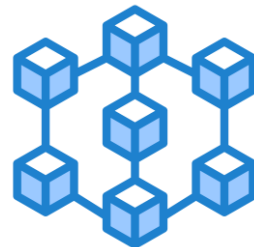


FinTech-ho2020: A Financial supervision and Technology compliance programme

Blockchain in Finance

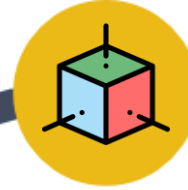
Prof. Dr. Jörg Osterrieder
ZHAW Zurich University of
Applied Sciences



The RESEARCH

BIG DATA ANALYTICS

P2P lending; Credit and systemic risk



BLOCKCHAIN

ICO and crypto-assets;
Fraud detection, money laundering and operational risk

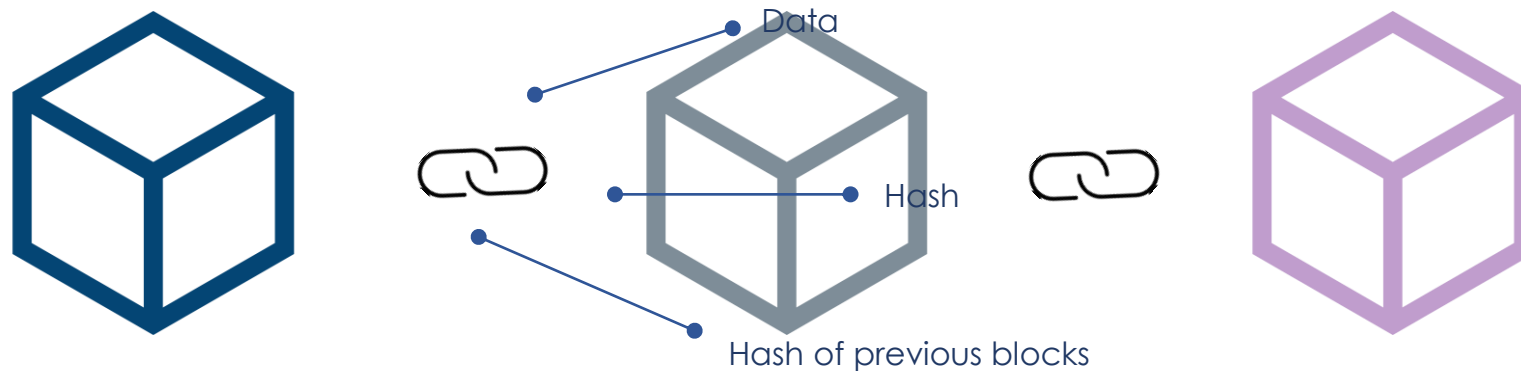


ARTIFICIAL INTELLIGENCE

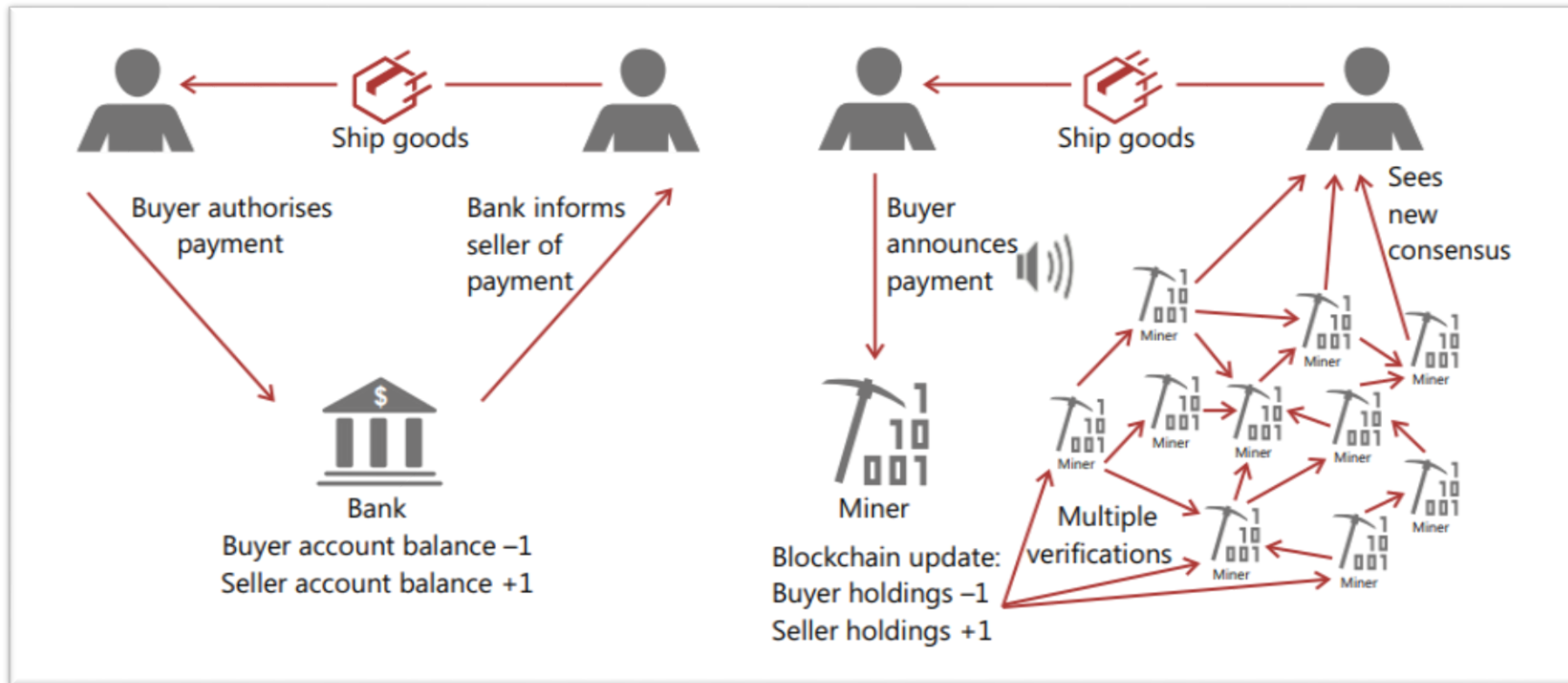
Robo-advice;
Compliance and market risk



A **blockchain** is a distributed database of records of all transactions or digital events that have been executed and shared among participating parties



Making a payment transaction via a bank account and via Bitcoin

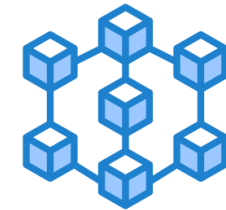


Source: BIS Working Papers No 765 (2019)

Let's imagine a **world**:

- where everyone was perfectly honest and trustworthy when it came to money;
- with a single, universal absolutely trustworthy and completely indestructible financial ledger;
- global financial infrastructure that is slim, trim, safe and secure;
- where you can download your own personal bank onto your phone;
- where all sales involve immediate transfer of funds and businesses have instant access to cash;
- where ownership of assets was always crystal clear;
- where money could be neither laundered nor embezzled.

... it might be a world we never see



... but the **blockchain technology** has spurred a movement which may take us a long way down such the road

ICO Stats

- ICOs raised a total of almost \$11.4 billion last year.
- A total of 3,782 ICOs opened last year.
- Last year, an average of 482 ICOs were open every day.
- ICOs have raised a cumulative \$22.5 billion total in five years.
- Filecoin raised \$257,000,000 with its ICO—the most successful ICO to date
- The cryptocurrency with the highest ICO return on investment is Ethereum



Source: <https://www.fundera.com/resources/ico-statistics>

- ❑ **Our project goal:** Identify the main risk concerns and propose risk management tools that can address those risks

