

Praktyczne zastosowania #blockchain

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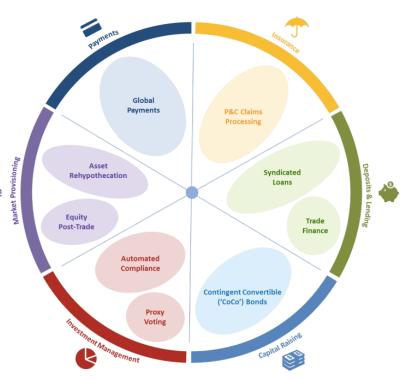


8.06.2017, Politechnika Warszawska

Financial Industry Use Cases - Overview

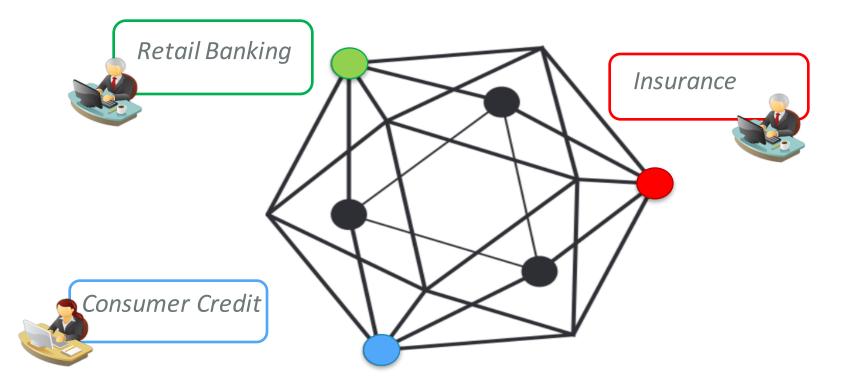


1.	Know Your Customer (KYC)	11.	Syndicated Loans
2.	Audit & Compliance: Financial	12.	Commercial Financing
	Restructuring	13.	Securities Lending
3.	Global Payments	14.	Trade Finance
4.	Digital Fiat	15.	Low Liquidity Trading
5.	Car Leasing Experience	16.	Smart Bonds
6.	Contract Placement & Signature	17.	Automated Compliance
7.	Credit Card Rewards		•
8.	High Value Item Insurance	18.	Proxy Voting
	riigii value item insurance	19.	Equity Post-Trade
9.	Claims Processing	20.	Edge Computing
10.	Freight Transportation	20.	Decentralized Networks



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Client: **Credit Mutuel Arkea**Domain: **Compliance**Use Case: **Common KYC Data Sharing**

Link: http://ibm.co/29i1dy3



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What

- Bank was fragmented into multiple business units and had more than 50 branches across France without a unified customer registry
- There was a need to create a client on-boarding process streamlined for all business units and branches

How

- Blockchain was used as a KYC register holding customer profile
- Client filled-in onboarding documentation once, later reused by all LoBs

Benefits

- . Increased ability to verify customer identity
- 2. Decreasing client onboarding process to a single application
- 3. Standardisation of customer profile across all LoBs solves siloing, conflict reconciliation & duplication
- 4. Transparent profile access request process, visible to the client

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Customer creates public identity on the blockchain, then puts certain documents to prove identity on the blockchain.

Financial Services
Provider A verifies
identity and signs
the person's
identity on the
blockchain.

A business network of financial services providers cooperate to cut down KYC costs in the long run. Customers are saved from having to enter thousands of forms in their life.











Customer gives Company A permission to view the documents – the permission is recorded on the blockchain. Customer applies. Instead of filling out all of the forms required, the customer simply permissions the bank to access the verified identity. The bank trusts Financial Services Provider A and therefore accepts the identity attestation and saves on KYC verification cost.

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Link: http://abn.com/1NOFYz9

Client: ABN Amro
Domain: Compliance
Use Case:
Asset Audit Trail in
Real Estate Rehypothecation
Link: http://abn.com/2h2jOnW



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What

- There was a need to share critical information about property valuation around a network of partners involved in rehypothecation process (eg. Bank, Property Owner, Valuer)
- Updates to the property owner profile need to be agreed by all parties and an audit trail maintained - a lengthy and bureaucratic process which locks assets & capital over a considerable period of time

How

• Blockchain used as a shared ledger of critical information about the property status and audit trail

Benefits

- Up to date information about property audit trail shortens the rehypothecation process
- Data inconsistencies across partner network is reduced to minimum
- 3. Enables efficient lower-cost Asset Quality Reviews (AQR)



IBM Global Financing



Client: IBM Global Financing Domain: Corporate Finance Use Case:

Conflict Reconciliation

Link: https://youtu.be/0DSNdL/DOZ5w



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What

- IGF finances more than 4000 partners, continuously locking around \$100M
- Circa 25K disputes per annum with a single invoice value of 31K\$ and reconciliation time extended to 44 days
- Circa 2.9M invoices per year

How

 Blockchain used for a comprehensive view of key operational data: Purchase Order > Transaction Approval > Shipments > Invoices > Remittances

Benefits

- 1. Fewer disutes and faster settlement process
- 2. Reducation in dispute resolution time from 40+ days to under 10 days
- Improved capital efficiency and freer flow of capital

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Link: https://vimeo.com/183710850?cm_mc_uid=63805503527414843915938&cm_mc_sid_50200000=

Client: China UnionPay
Domain: Corporate Finance
Use Case:
Loyalty Points Exchange
Link: http://ibm.co/2cX88xH



What

- Bonus points cannot be freely exchanged among different banks and go unused because of strict policies and limited selection of goods for exchange
- Bonus points from flight mileage, mobile phone bills, gas cards and food and beverage purchases

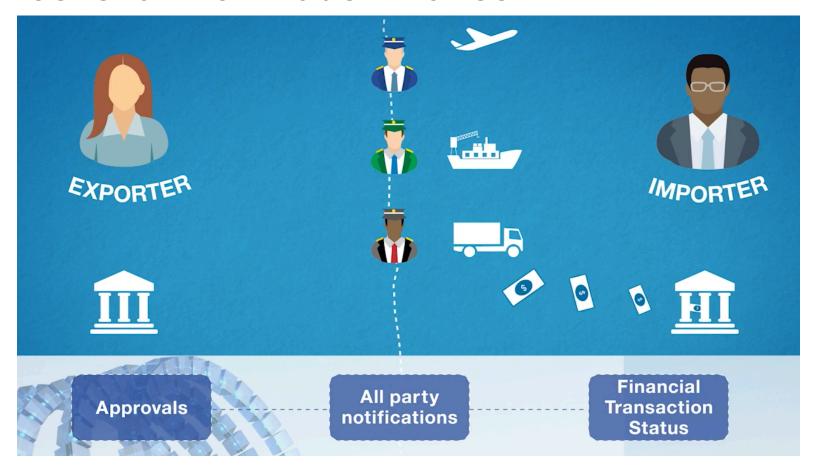
How

- Blockchain used as loyalty bonus points exchange platform
- Integration of partner institutions into the new platform

Benefits

 It is now possible for card holders to go to any offline supermarket equipped with POS devices to exchange bonus points for commodities by direct scanning

Blockchain for Trade Finance



"Diamonds are a global problem, in terms of document tampering and fraud... in London it's a \$2 billion problem."





a joint governments, industry and civil society initiative to stem the flow of conflict diamonds



https://youtu.be/96Rq2iCymQo

Additional Materials

Blockchain, smart contracts and DAO: http://bit.ly/2gzoJse

Blockchain, DLT, digital money: https://innovationthinkers.com/2016/10/07/blockchain-dlt-digital-money/

Future of Financial Infrastructure https://www.weforum.org/reports/the-future-of-financial-infrastructure-an-ambitious-look-at-how-blockchain-can-reshape-financial-services

https://www.hyperledger.org/

http://www.ibm.com/blockchain/

Dziekuję

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