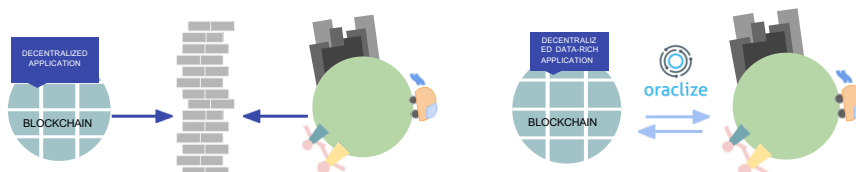# oraclize

Blockchain - moving forward on regulation

University College London, 26 April 2018
Thomas Bertani

Preamble: the "walled garden" limitation and the Oraclize solution

Due to technical limitations, decentralized applications are walled in their own garden and cannot fetch external data directly. Still, data-rich smart contracts are enabling decentralized applications to have a concrete impact on the real-world.

Practically speaking, blockchain oracles provide a connection between blockchain applications and any other context, like the Web.
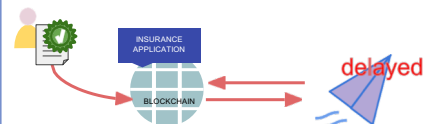
Oraclize implements an high security layer which enables the delivery of data to blockchain applications. Along with data, Oraclize delivers "authenticity proofs" - strong cryptographic guarantees protecting against data tampering.

Preamble: use-cases

DECENTRALIZED GAMBLING GAMES

DECENTRALIZED INSURANCE

DECENTRALIZED EXCHANGE SCALABILITY

DERIVATIVES ON THE BLOCKCHAIN

VAT: from Oraclize srl to Oraclize LTD

Oraclize operates a service relying on innovative technologies (Blockchain and Trusted Computing), that face a variety of open challenges from a regulatory perspective.

United Kingdom	HMRC policy paper on Bitcoin and other cryptocurrencies (2014)
Italy	Unregulated (2015)
Italy	No answer from "Agenzia delle Entrate" (2015)
Oraclize srl becomes Oraclize LTD	
Italy	Agenzia delle Entrate policy paper (2016) - but no general answer on VAT applicability

FCA Sandbox: our experience
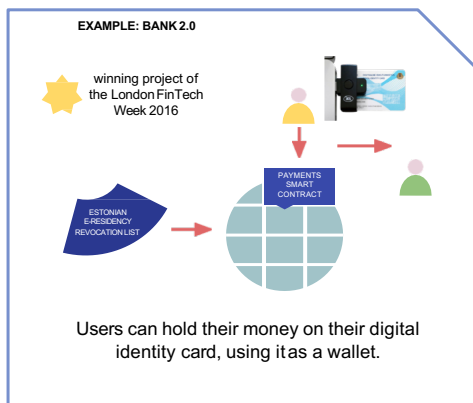
HSBC
NAME
ACCOUNT
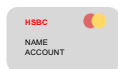
Sterling-backed ERC20 token

Using digital identity cards to send payments would facilitate the KYC process on both the business and user sides.

Linking the funds to a given identity is a safe solution to get rid of key management complexities.

Simple P2P payments without intermediaries.

EXAMPLE: BANK 2.0

winning project of the London FinTech Week 2016

ESTONIAN E-RESIDENCY REVOCATION LIST

PAYMENTS SMART CONTRACT

Users can hold their money on their digital identity card, using it as a wallet.

What about Switzerland?

The guidelines from FINMA are addressing (fast) most of the major challenges the blockchain industry has to face

exchanges	centralised / decentralised (?) / ..	KYC?
wallets	custodial / non custodial -> implications	KYC?
ICO / tokens	classification of tokens, requirements, .. (evolving)	KYC?

oraclize

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Questions?