# Regulatory Sandboxes Digital ID's

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#### What is the Core of Our Business?

# Security: Data Oracles with Proof of Authenticity

- 1. Mathematically prove where data came from
  - 2. Mathematically prove authenticity of data

**BYOB:** BE **YOUR OWN BANK** 

I want to make prompt, low cost, secure payments







Here is my **eID** 



**eID** verified



Please pay XYZ



DONE!



Ethereum public blockchain (distributed record-keeping, almost real-time settlement)























## Why do you want to do this?

To build a business and make a profit

# BUT ALSO... (The Economist's Explanation)

# Innovation = Increase in Productivity = GDP Growth

Innovation is vital for the growth of an Economy

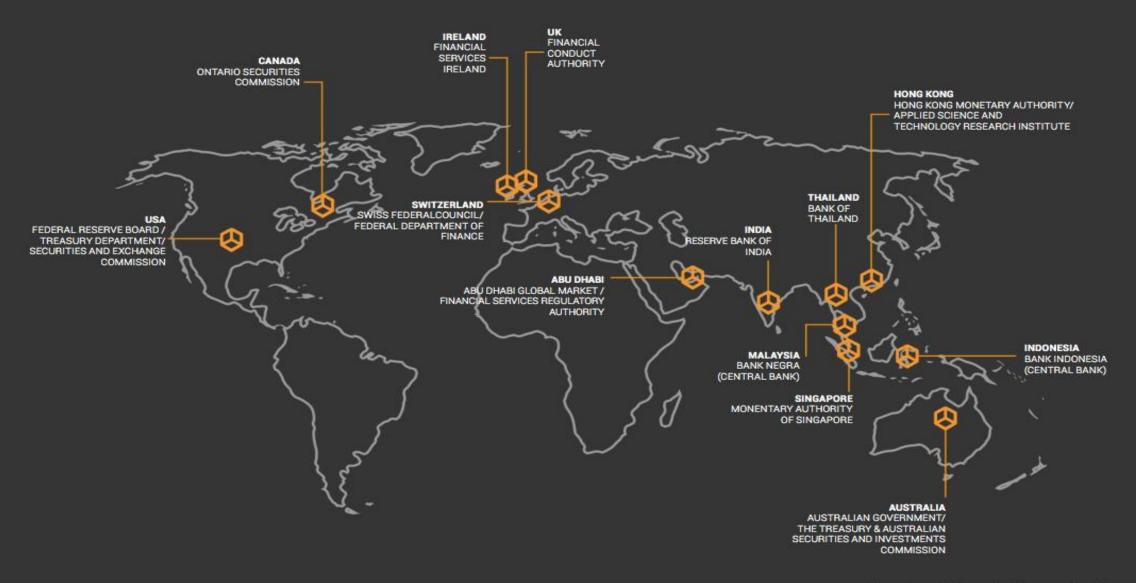
#### How to do this in the real world?

# Enter Another Innovation: The Regulatory Sandbox



#### MAP OF EMERGING AND ESTABLISHED

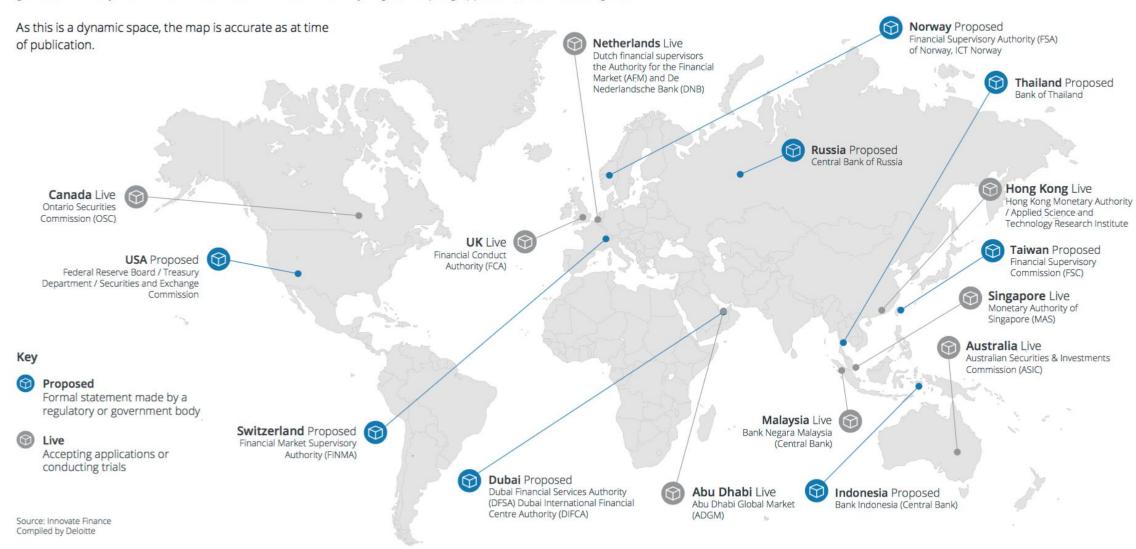
#### **REGULATORY SANDBOXES**



#### Map of regulatory sandboxes

A regulatory sandbox is a regulator-driven initiative which allows businesses to test innovative products, services, business models and delivery mechanisms in a live environment. Typically, some regulatory requirements are amended to create a bespoke framework for the duration of an on-market trial.

The map below shows all live and proposed regulatory sandboxes (and similar regulatory initiatives). Proposed sandboxes are ones on which a formal statement has been made by a regulatory or government body. Live sandboxes are ones which have already began accepting applications or conducting trials.



## Experience with the Financial Conduct Authority

"The regulatory sandbox allows businesses to test innovative products, services, business models and delivery mechanisms in a live environment."

#### Some of the Tools in the Sandbox:

- Restricted authorization
- Individual guidance
- Waivers or modifications to our rules
- No enforcement action letters

#### FCA Regulatory Sandbox Cohort 1

- Applications closed 8 July 2016
- Received 69 applications
- Accepted 24 companies
- Both multinational players and early stage start-ups
- 6 out of the 24 not ready to start and postponed
- Remaining 18 expected to complete testing by end of April 2017

#### FCA Regulatory Sandbox Cohort 1

	Description	Number of companies
Non-blockchain	Various (see next slide)	9
Blockchain	Blockchain subtotal	9
	Money transfer via bitcoin	2
	Payment using smart contracts	2
	Other payments	2
	Non-payments (voting, etc.)	3
TOTAL		18

#### FCA Regulatory Sandbox Cohort 1 (non-blockchain)

- Robo-advisory for comparing debt solutions
- Single-dashboard for managing multiple financial products from multiple providers
- IPO distribution platform
- Aligning in-branch banking experience with online and phone experience
- Travel and property insurance products
- Micro-savings apps

#### FCA Cohort 1: Lesson 1

Now we know how to do sandboxes!

#### FCA Cohort 1: Lesson 2

Is new regulation necessary for financial products that use distributed ledgers (i.e. blockchains)?

## Consultations started recently

**Current Indication:** 

No Need for New Regulation

#### FCA Regulatory Sandbox Cohort 2

- Applications closed 19 January 2017
- Received 77 applications
- Accepted 31 companies
- Companies to be announced after UK parliamentary elections (after 8 June 2017)

#### Initial Lessons from Cohort 2

- Application process was more rigorous than
   Cohort 1
- Quality of applications higher than Cohort 1

#### FCA Regulatory Sandbox Cohort 3

 "Cohort 3 of the sandbox will open for applications in June, and remain open until late July." 2017

## Moving on to Digital ID...

# What is a digital ID?

#### International digital ID

#### **Estonian E-**



"qualifies as an e-signature under EU Directive 1999/93/EC, E-SIGN law (15 USC 96) in the US and similar laws in other countries."

Source: https://e-estonia.com/e-residents/services-and-benefits/

#### National ID

#### **UK VERIFY ID**



# German elD (NFC enabled)



#### **Belgian elD**



#### **Singapore**



### Other forms of digital ID

Social Media Accounts



Aadhaar or other biometric databases





## Thank you for your attention!