

Blockchain: Challenges & opportunities under the current regulatory environment

Tuesday 7th June 2016

Peter Oakes

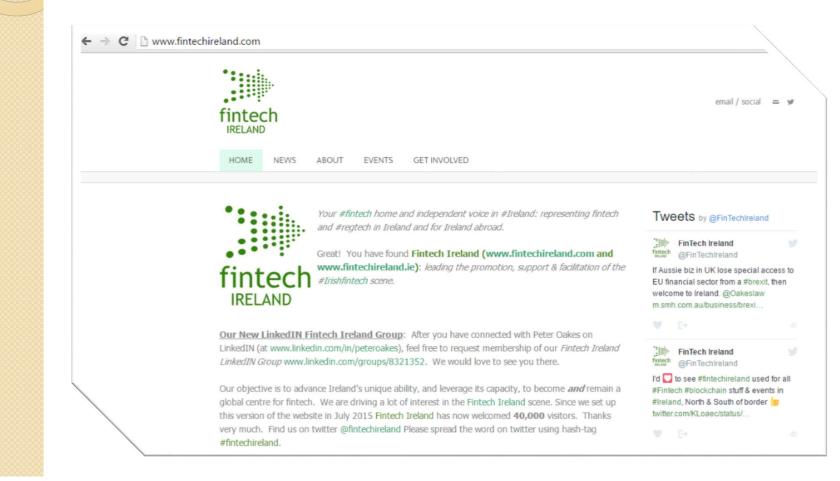
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- groups support 'fintech' & 'regtech' initiatives in Ireland & the UK 2014-2016: Board Director & Chief Risk Officer for Bank of America Merchant Services Europe (based in London)
- 2010-2013: Central Bank's first Director of Enforcement and AML/CTF Supervision in October 2010. Member of the Senior Leadership, Operations, Policy & Supervisory Risk Committees
- Over the past 25 years Peter has worked as a regulator (Ireland, UK & Australia) and in the investment management, payments, funds & fintech industries (UK & Ireland) in Board, C-Suite, Legal and Compliance/Risk roles. He has also advised Central Banks, Regulators and their senior management on a wide range of supervisory and enforcement issues

Purpose of 30 minute session

Focus on blockchain

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- what we are seeing and hearing from:
 - large finserv incumbents
- active key regulators; and
- EU Parliament
- Not examining the wider scenes of: digital or virtual currencies; or regtech or fintech



Some examples of what is happening in blockchain (not attempting to cover everything, including the Ethereum Project or smart contracts)

Must be adopted on consistent fintechstandards (1/2)

- <u>http://ftalphaville.ft.com/2016/06/03/2164713/shared-database-anarchy-blockchain/</u>
- We apply this framework within the context of equity markets and believe the biggest challenge is aligning the interests of the various stakeholders, including regulators, in the value chain
- Unless blockchain technology is broadly adopted on consistent standards, the network benefits that unleash efficiency and innovation are at risk of not being realised [Morgan Stanley]

Must be adopted on consistent fintechstandards (2/2)

- the industry is at risk of repeating the past and creating countless new siloed solutions based on different standards and with significant reconciliation challenges essentially a new system with the same challenges we face today [Depository Trust & Clearing Corporation]
- BNY Mellon has been involved in a wide range of blockchain proofs of concept
- Others have pitched their readiness to supply their clients with flexible blockchain solutions that address both their needs and those of other suppliers
 e.g. Nasdaq, State Street and ICAP

Are we ready to regulate?

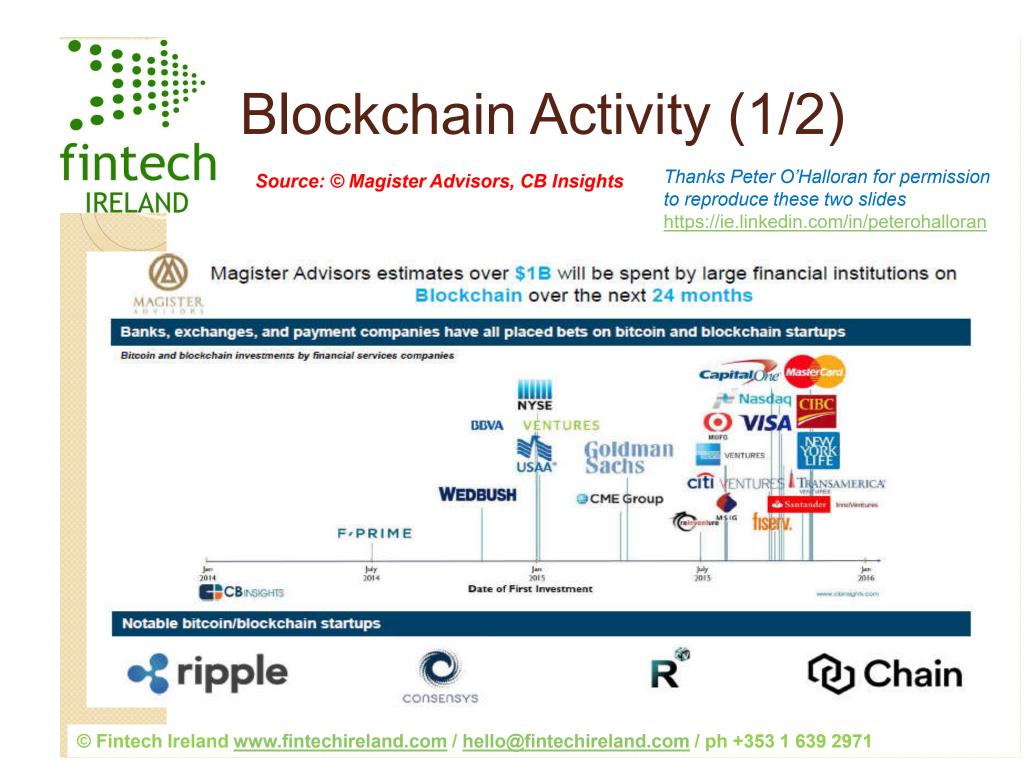
 If the technology is still largely in proof of concept stage, a further key hurdle is whether it can be scaled to service an entire market

 Other risks evaluated and over which controls need to be demonstrated include security, economics and regulation

Bank of Ireland and BNP Paribas announce blockchain breakthroughs

05 April 2016 | 18149 views | 0

- New use cases for the adoption of blockchains in finance are appearing every day, with Bank of Ireland and BNP Paribas the latest to <u>demonstrate the disruptive potential of the</u> <u>technology</u>
- Working with Deloitte, Bank of Ireland has completed <u>a joint</u> <u>proof-of-concept trial</u> which demonstrates how financial institutions can <u>combine the technology with their existing</u> <u>systems</u> to provide new client experience and regulatory oversight at a <u>lower cost</u>





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Source: © SVB Financial, Santander

Blockchain (continued) 2016 will be about developing test cases

📣 Santander

Santander estimates that the blockchain could save banks \$15-\$20B per year in infrastructure costs

	Use Case	Benefits of Blockchain
	International Payments	 Using a distributed ledger could reduce costs and improve the speed of settlement in international remittance and correspondent banking
	Securities Trading	Securities could settle close to real-time, a significant improvement vs. the current three-day cycle
	Recordkeeping	A decentralized ledger could improve the transparency and accuracy of ownership data
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- European investment banks continuing to lose marketshare to US peers since the 2007/9 financial crisis
- Given the cost of transformational change in implementing blockchain, the question is:

"How will the large number of actors in this industry makes it possible to pass the additional cost of capital that regulators are imposing on to their clients"?

- All this talk of innovation/transformational change is wonderful, but <u>who is writing the cheque</u>?
- Thus why should regulators be expected to invest time and effort adopting global standards for blockchain regulation?



Having made those points, let's look at what is happening in the world of regulation and spotting opportunities



 One key regulatory issue is whether blockchain applications require registration under existing Commission regulatory regimes, such as those for transfer agents or clearing agencies. We are actively exploring these issues and their implications. [31 March 2016]

Mary Jo White, Chairwoman Securities & Exchange Commission



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- If Allowed to Thrive, Blockchain May Finally Give Regulators Transparency - Speech
- I was on Wall Street, serving as a senior executive of one of the world's major trading platforms for credit default swaps, then the epicenter of systemic risk [12 April 2016]

Christopher Giancarlo, a Member of the US Commodity Futures Trading Commission



Australia - ASIC

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ASIC Chief: Blockchain Will Have 'Profound Implications' for Regulators

- We will need to find the <u>right balance</u> between speed of execution and streamlining of business processes
- As regulators and policy makers, we need to ensure what we do is about harnessing the opportunities and the broader economic benefits – <u>not standing</u> <u>in the way of innovation and</u> <u>development</u> [December 2015]



Greg Medcraft, Chairman, ASIC (& ex-IOSCO)



IOSCO

- One of the big failures of global financial reform has been the trade repositories ...in the middle of those 29 trade repository complexes, you've got commercial interests, privacy issues, data protection, <u>distrust among regulators</u> and <u>no</u> <u>harmonization of the underlying data</u>
- You know who's bought the particular product, so <u>that's</u> <u>good from a market abuse</u> perspective, of controlling market abuse [December 2015]



David Wright, Secretary-General, IOSCO



- Might the blockchain transform the way the regulators work? I absolutely agree with that. I think there are a lot of benefits to be harnessed from distributed ledger, in terms of traceability and tracking, that makes it easier for us
- I think regulators do now perceive this to be important; the degree of importance will probably differ between regulators [21 January 2016]



Makoto Seta, Senior Associate, FCA



UK - FCA (2/2)

- some key opportunities .. include managing regulatory requirements more efficiently, and, an opportunity for us to understand how we can best support developments <u>and potentially adopt some RegTech solutions</u> <u>ourselves</u>. One <u>example could be distributed ledger</u> <u>technology</u>, sometimes more popularly known as 'block chain'
- The current development of distributed ledger technology has the potential to revolutionise financial services; whether it is the panacea of all ills in the financial world is yet to be seen



Christopher Woolard, Director, Strategy, FCA



- Role of the PSR is interesting
- How about making *blockchain* a 'designated payment system', like Bacs, Cheque & Credit, CHAPS, Faster Payments Scheme, LINK, Northern Ireland Cheque Clearing, MasterCard, Visa Europe
- Lack of a long term UK strategy for Blockchain could result in the UK missing an opportunity [January 2016 – Horizontal Scanning Working Group]





 EU Parliament held 4 day conference on virtual currencies, blockchains & distributed ledgers

 EU Parliament passed (542-51 votes) a report on virtual currencies and blockchain also supports a <u>new task force</u> to be overseen by the European Commission
 <u>some initial confusion</u> from press releases headlines as to whether MEPs were voting in a <u>heavy-handed approach</u> to blockchain technology regulation

EU Parliament (2/2)

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- One reason why regulating now in detail would be difficult is that we don't know yet what the most important use of blockchain might be.
- We don't want pre-emptive regulation, but we do want precautionary monitoring Jakob von Weizsaecker (German member of the European Parliament) and author of proposal put to EU Parliament on previous slide



Recent Article on Fintech Ireland

Powering forward

The growth prospects for innovative disrupters is immeasurable, writes **Peter Oakes** as he discusses the prospects for Ireland's fast growth fintech industry.

FUNDING FINTECH

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First and foremost, the question which every entrepreneur must consider is whether proposed funding terms are fair. Many start-ups obtain their first round of financing, in addition to the founders' own pockets, from family and friends. After that, things are not necessarily easy in Ireland, leading many to look to London and further a field where investors don't seek as much equity as those in Ireland.

To me this is critical. Ireland really needs to up its game in this space if it wants to keep local talent local.



Peter Oakes, founder, Fintech Ireland

See article from Business & Finance Magazine attached



Examples of other opportunities

Fintech-Blockchain is the future of ID



Kyckr Limited

Proposed ASX code: KYK

Proposed listing date: TBA

Company contact details	<u>www.kyckr.com</u> Ph: 61 2 9276 1271 Fax: 61 2 9276 1284
Principal Activities	Provision of corporate data
GICS industry group	Not yet allocated
Issue Price	20 cents per ordinary share
Issue Type	Equity
Security code	КҮК
Capital to be Raised	\$8,000,000
Expected offer close date	30 May 2016
Underwriter	N/A

 David Cassidy, the managing director of Irish float hopeful <u>KYCkr says</u> <u>blockchain is the future</u> of its business identity <u>check business</u>

 We are being pressured by the banks to have this competency; they want this yesterday ... Blockchain is a given, you have to do it

Central Securities Depositories

- Note the comments above from securities markets regulators, i.e. SEC, IOSCO & ASIC
- Morgan Stanley anticipate that blockchain presents a threat / opportunity to the <u>\$77</u> <u>billion post-trade market</u>
- Within the equities value chain, <u>central</u> <u>securities depositories seem best placed to</u> <u>drive innovation</u> as they maintain a record of ownership

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Potential solution to structural fintechproblems (view of ASX)

- Blockchain represents a potential solution to structural (<u>not cyclical</u>) problems:
 - 1. costs are increasing
 - 2. the capital and collateral required to do business is now higher
 - 3. revenues are under continuing pressure



• The potential of the technology to improve post-trade efficiency and reduce costs is genuine

Peter Hiom Deputy CEO, ASX

^w What problem is blockchain fintechsolving? (view of ASX)

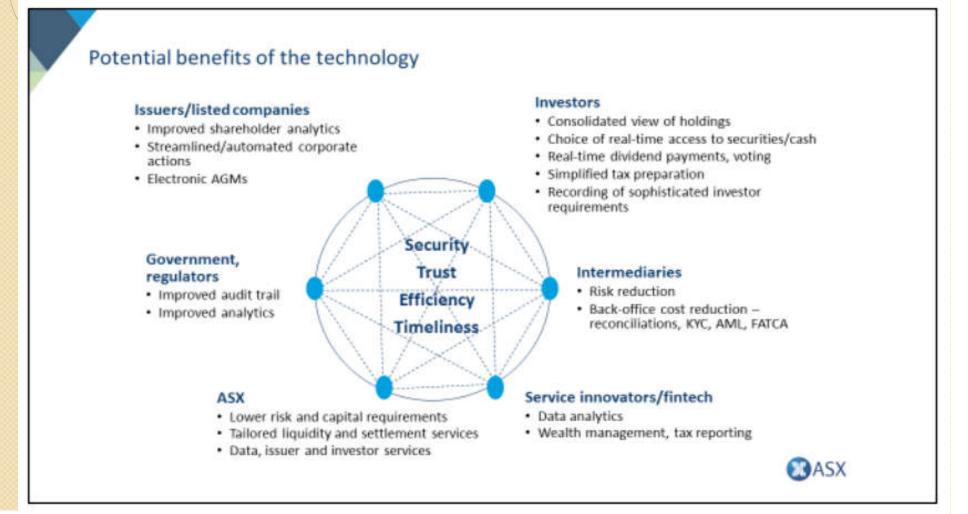
What problem is blockchain solving? The problem with traditional databases



- Digital data = copyable
- A feature for digital media, but a bug for digital assets: if a photo is copied and shared, that's great; if a share is copied, it breaks market integrity
- 'Double spending' problem
- Digital assets are a unique kind of data



Fotential benefits of blockchain fintech technology (view of ASX)





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SIMON COCKING # JUNE 7, 2016

FinTech 20 Ireland

Business Name *

Sectors *

How would you best describe your sectors, eg: payments, FX, lending, Insurance, etc?

Year Founded *

Website *

format: http://www.name.com

Where are you based? *

 Fintech20 Ireland call for submissions City / Country - we can only include businesses whose HQ (and parent, if applicable) is based in Ireland

Business Bio *

 <u>http://irishtechnews.n</u> <u>et/ITN3/fintech-20-</u> <u>ireland-apply/</u> *Tell us about your business in 100 words*

Why will your business do well? *

What's different about your company? What problem do you solve?

What have you achieved so far this year? *

Final thoughts

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1. Regulators are cautious

- focus on ideas which help deal with financial stability, market integrity and/or consumer protection and you should get an audience
- 2. Entrepreneurs, incumbents & investors are not always aligned vision, purpose, strategy, execution and funding
- 3. Don't agree to write a presentation on "the challenges & opportunities under the current regulatory environment", unless you really like a challenge!

