**An Outlier Venture** 

# **BLOCKCHAIN ANGELS**

Coming to a major European City near you. Subscribe for details.

#### hosted by @jamie247 of www.outlierventures.io

www.BlockchainAngels.eu

## **Quick Survey**

Q. Who has made a blockchain investment?

Q. Who is actively assessing an investment?

Q. Who feels they don't have enough knowledge to invest at this stage?



#### Purpose

- Increase early stage blockchain investment in Europe
- Empower entrepreneurs to connect the dots
- Increase breadth of use-cases beyond capital markets
- Provide a platform for deal-flow



#### **Event Format**

- 6 week cycle across Europe cities
- Each session 20min on the basics
- Market Overview Update
- 4+ Startup pitches



#### Who am I & what's in it for me?

- Co-founder of Europe's 1<sup>st</sup> blockchain venture builder
  - Outlier Ventures Ltd / OutlierVentures.io
  - Block Stars Ltd / Blockstars.io
- Chief Exec Europe's 1<sup>st</sup> angel investment fund & portfolio
  - Outlier Capital LLP
  - Entry level £25k



#### Agenda

(7:00 to 7:20) Introduction to blockchain technology

(7:20 to 7:40) Investment to date

(7:40 to 8:00) Investing today with case-studies

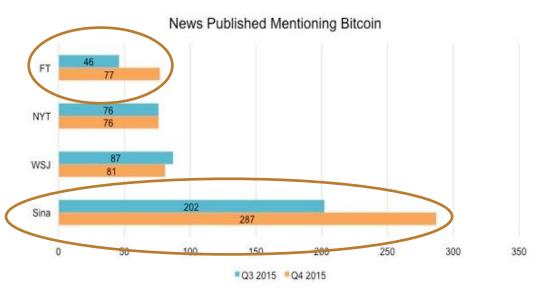
(8:00 to 8:10) Break

(8:10 to 8:30) Investment horizon

(8:30 to 10:00) Live Pitches

### Why are you here?





Note: Numbers of stories obtained by searching 'bitcoin' on respective publishers' websites Sources: Financial Times, New York Times, Wall Street Journal and Sina

### It all started with ..



Who is Satoshi Nakamoto?

Bitcoin core protocol likely created by a group in academia

The bitcoin blockchain experiment

- Protocol is free & open source

Creators profited from owning bitcoins not the protocol

#### Has the experiment worked?



Data uses USD as base currency. | Data: Dec 29, 2014 to Dec 29, 2015 (The Economist)



Bitcoin was / is an experiment ' decentralised monetary system'

It has succeeded & it has failed

Major centralisation of mining / 51% processing China

Major centralisation of wealth distribution

#### But it's now a world of many Blockchain'S'

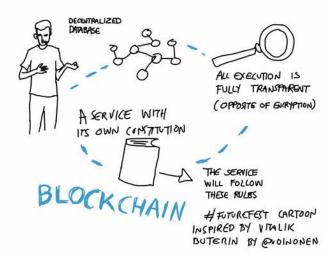






## Understanding blockchains

- 1. Distributed Ledgers
- 2. Un-Permissioned / Permissioned
- 3. Unique Digital Tokens
- 4. Smart Contracts
- 5. Cryptographically secured
- 6. Decentralisation / Disintermediation
- 7. Decentralised Autonomous Organisations



#### Paradigm Shift: The Phase of Web



#### After The Social Web, Here Comes The Trust Web

Posted Jan 18, 2015 by David Cohen (@davidcohen), William Mougayar (@wmougayar)

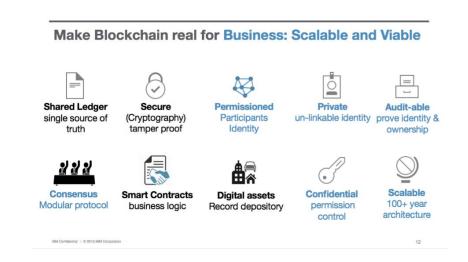


- Today trust is managed by intermediaries
- Blockchains have trust inbuilt
- Are 'trustless' or 'trustfull'
- That removes friction
- That improves liquidity
- That equals growth in trade especially crossborder

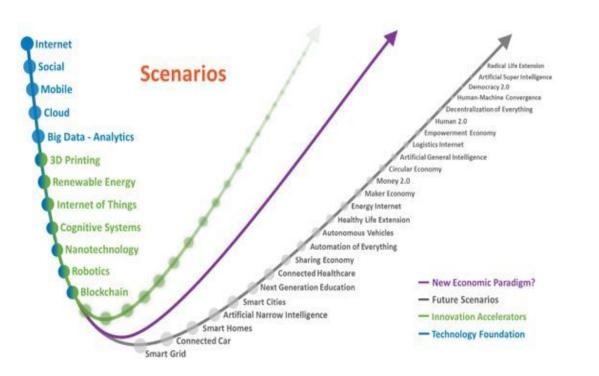


### Blockchains, what are they good for?

- 1. Secure digital assets value
- 2. Secure 3<sup>rd</sup> party data
- 3. Automate manual tasks
- 4. Remove trust barriers
- 5. Expedite processes
- 6. Enable true p2p marketplaces
- 7. Secure supply-chains



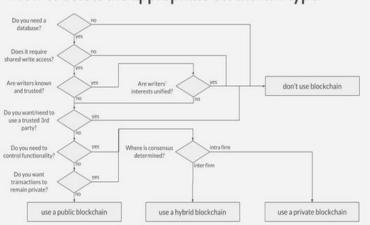
#### Blockchain as accelerator & combinator





#### When is a blockchain appropriate + Limitations today

- 1. Smart contracts are only as good as their connection to the real world
- 2. Legal state of smart contracts unclear:
- 3. Limited capacity / performance: smart contracts are extremely limited in storage and speed.
- 4. Usable security and identity: giving end users autonomy over their data comes with responsibility.
- 5. Slow evolution of capability so far..



How to select the appropriate blockchain type

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# \$1 Billion in Bitcoin & Blockchain Infrastructure (end of 2015)

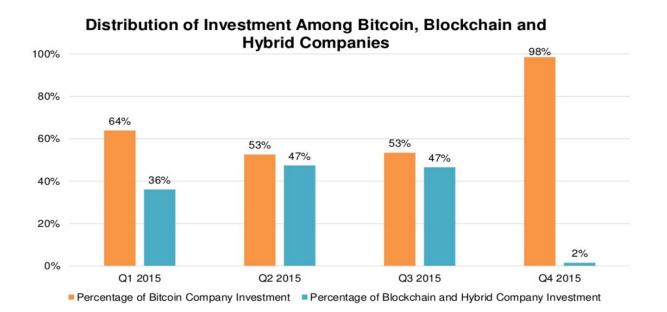


#### Silicon Seed (50 VCs & 30 Angels)



## Blockchain invest lags behind Bitcoin

The Valley's got a lot riding on Bitcoin..



Data source: CoinDesk

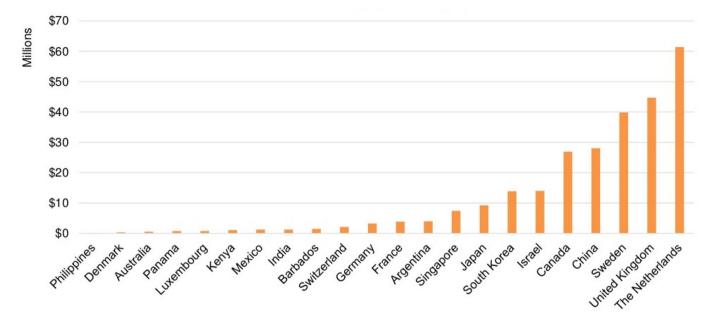
## 2nd Half of 2015 Funding by Region



- No VC investment in Middle East, Latin America and Africa for three consecutive quarters
- · US continues to dominate bitcoin VC investment

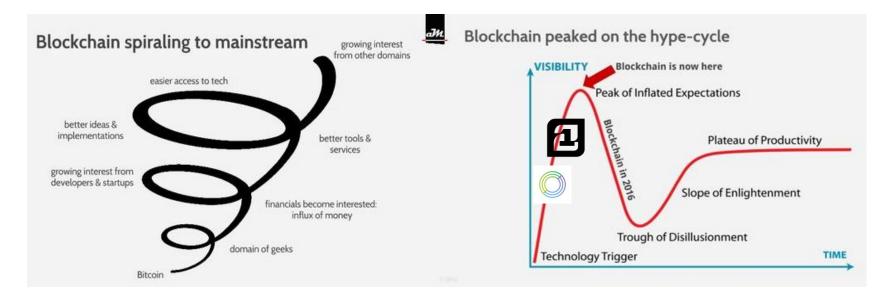
Note: \$ invested represents all-time total bitcoin VC investment at the end of each quarter. Data sources: CoinDesk, CrunchBase

### Total Funding by Country \$m



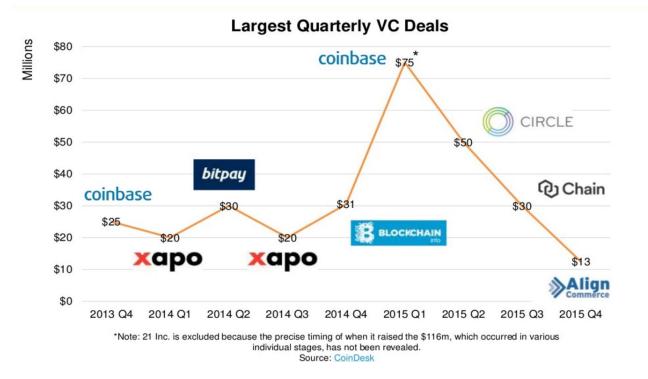
Note: US is excluded from above chart. Data sources: CoinDesk, CrunchBase

## Where are we in the hype?



Big investments: Circle & 21inc

#### VC Deal Size Declining

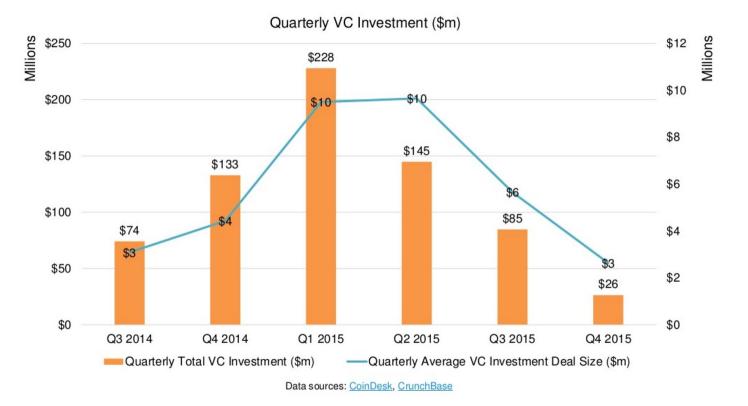


#### Internet VC investment did the same

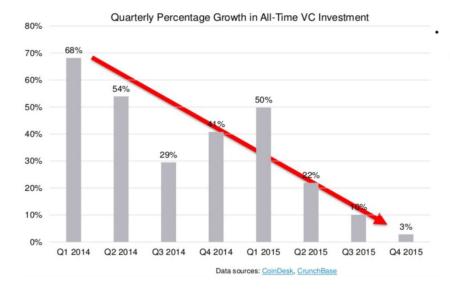
**Annual Internet VC Investment** 

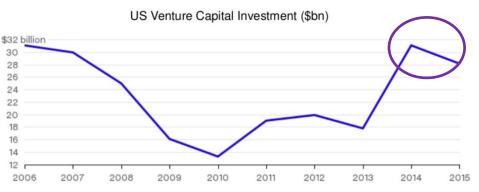


#### Total VC Investment & Average Deal Size Dropped



# Blockchain VC Investment Growth Decline in line with general

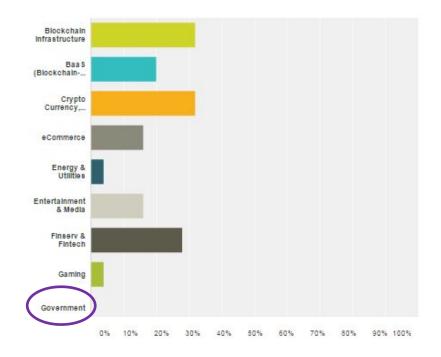


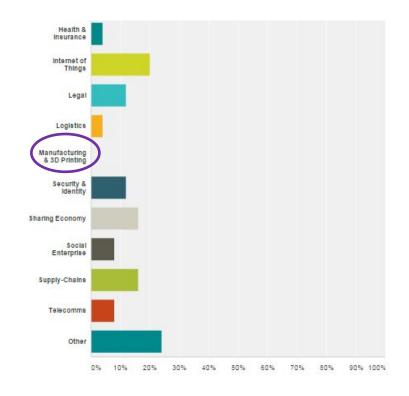


 Total VC investment across all tech sectors decreased 9% from \$31.1bn in 2014 to \$28.2bn 2015; number of deals decreased 13% from 2014

Data source: Bloomberg

#### Where are the next start-ups innovating?





#### Size of new ventures

50%

40%

0%

10%

20%

30%

60%

70%

80%

#### How many are in your team? 1 to 5 Below £100k (Pre-seed) 5 to 10 £100k to £500k (1st Round... 10 to 25 £500k+ to £2m (2nd Round... 25 to 50 £2m-£10m (Series A) 50+ £10m+(Series B to C)

90% 100%

0%

10%

20%

30%

#### How much have you raised to date?

50%

60%

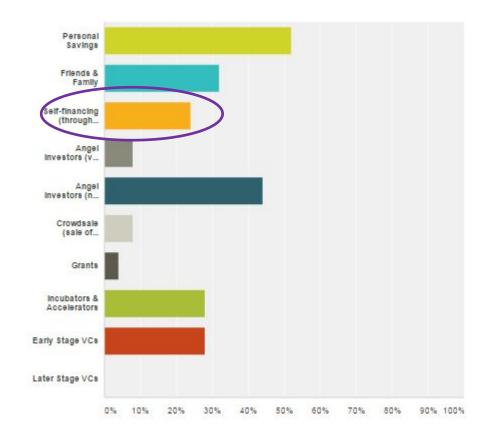
70%

80%

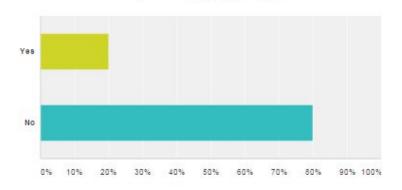
40%

90% 100%

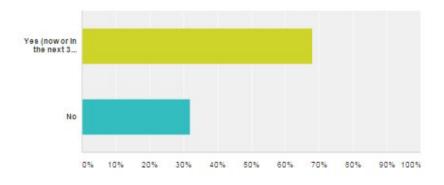
#### How have they been funded?



#### Are you profitable?



#### Are you actively fundraising now?



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## Predictions: \$10 Billion Will Be Invested in 2016

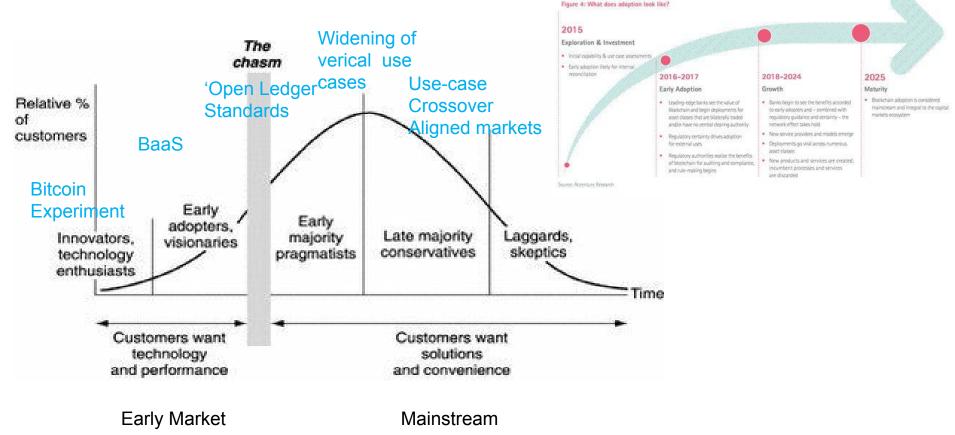


My view:

•That isn't necessarily from the same people going to same places as pre ' 16

- More Northen Europe and Asia (particularly China)
- More from Corporates both venturing & internal
- Capital Markets, Insurance, Health & Govt

## Crossing the chasm



#### The Chasm Deepview



#### Ethereum DevCon & EthBaaS



Devcon Zero





Devcon One



#### 'BaaS' & Professionalisation of Industry

Gray indicated the plan is for the Azure BaaS platform to scale up into a "<u>certified blockchain</u> <u>marketplace</u>" by this spring and that, at this stage, the technology providers undergo a more serious security vetting.





"For our clients, understanding new world applications of Bitcoin and blockchain technology, adapting it for myriad uses, and using it optimally are critical to improving financial security, efficiency and compliance," said PwC FinTech Co-Leader Haskell S. Garfinkel.



Rubix will help or allow you to prototype, test, and build your own customized blockchain and smart contract application for any use case.

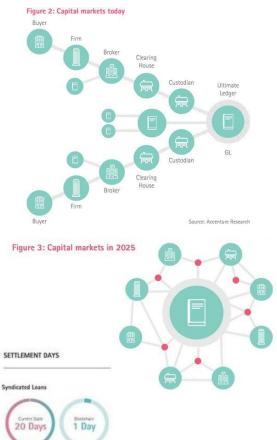


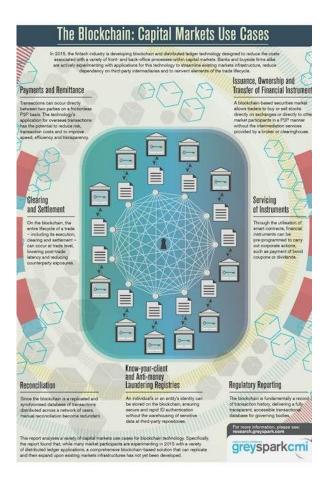
### Capital Markets & R3 Consortium

42 banks including JP Morgan, UBS, HSBC and Barclays.



Estimated bank spending on blockchain tech \$400 million 300 200 100 0 '15 '16 '17 '18 '19 A T L A S Data: Aite Group





#### Consortiums for regulated markets

• BaaS sandbox to experiment with one another alongside internal programs

Insurance Ledger

"Blockchain has the potential to improve the way insurers record risk, increasing the speed, accuracy and transparency of our processes. As part of the TOM consultation we will be interested to see how blockchain could help us resolve some of the challenges facing our industry."

Shirine Khoury-Haq (Lloyd's Director of Operations)

• Largely around market efficiencies and then into competitive innovations



#### **Open Ledger for standards & governance**

#### Linux Foundation Unites Industry Leaders to Advance Blockchain Technology

Project to drive robust, industry specific applications and platforms for broad business transactions

#blockchain #IBM

Want to get involved? ibm.biz/OpenLedgerProject Read how:

Accenture, ANZ Bank, Cisco, CLS, Credits, Deutsche Börse, Digital Asset Holdings, DTCC, Fujitsu Limited, IC3, IBM, Intel, J.P. Morgan, London Stock Exchange Group, Mitsubishi UFJ Financial Group (MUFG), State Street, SWIFT, VMware and Wells Fargo.

#### Bitcoin & Ethereum Corporate 'Brain Drain'









CBDO





CEO

Co-Founder

DONALD WILSON Co-Founder

### Entreprise Led Venturing (up to 20% of intake)

Santander

UBS

Barclays

Accenture

IBM

Cisco

Citigroup & Visa

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•ripple
Digital Asset
 Holdings
clearmatics
SCHAINALYSIS WAVE Ceverledger
crowdaura Bitspark
Digital Asset
 Holdings
(c) chain
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## Today's Industry Challenges

1) Not enough experienced developers, with senior architect grade backgrounds, to CTO projects

2) Not enough entrepreneurs exposed to blockchain beyond bitcoin or financial services to connect dots. Means limited in scope and application

3) Further compounded by the pull of large consultancies and banks feverishly mopping up talent generally.

4) Absence of an informed angel investor community so very VC and corporate led

#### UK's Setl: institutional payments & settlements



UK institutional payment & settlements infrastructure

Deliver operational efficiencies and reduce costs borne by savers & investors

Uses payments data from Bank of England and just hired ex director as Chairman

Complete transactions in seconds or minutes, instead of days.

Displace out of date back-office systems

#### Uphold: remittance bigger\* than Transferwise?

Company Name	Year Launched	Funding Stage	Total Funding	Current Valuation	Total Lifetime Transactions	Year 1 Total Transactions	Capital Efficiency Ratio*
Uphold	2014	Series B	\$20M	\$124.9M	\$714.8M	\$700.4M	2.8x
TransferWise	2011	Series E	\$92M	\$1B	\$3.5B	\$20M	0.7x
Coinbase	2012	Series C	\$107M	\$475M	\$3B	\$35M	1.6x
BitPay	2011	Series C	\$33M	\$190M	\$523M	\$4M	0.6x
Circle	2013	Series C	\$76M	\$250M	<\$80M	< \$25M	0.1x
Align Commerce	2014	Series A	\$13.5M	< \$30M	< \$7M	< \$3.5M	0.1×
itBit	2012	Series B	\$82M	\$150M	< \$195M	\$45M	0.3x
ABRA	2015	Series A	\$14M	< \$25M	\$0M	\$OM	0.0x

Refer to being a platform to store, transfer 'cloud money'

Can transfer fiat money from any bank account to a wallet where it is turned into 'digital money or assets' in any one of 23 currencies or precious metals

Foreign exchange transactions for free targeting \$500bn international remittance

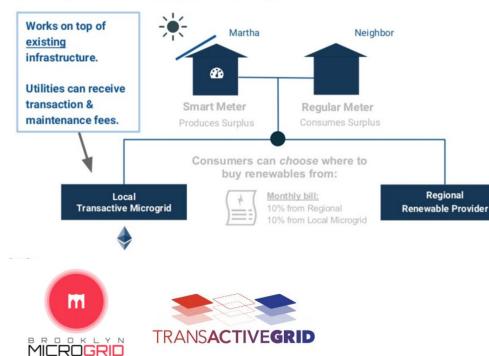
100% verifiable transparency on their reserves

Raised \$20m to date and has 3<sup>rd</sup> party app market



# Lo3: Sharing Economy for Energy Markets

#### **Transacting Local Energy with Neighbors**



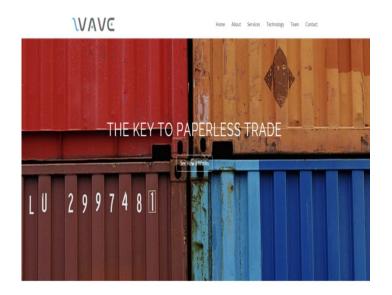
Allows neighbourhood to create a marketplace for green / surplus energy micro-grids using smart meters

Users become 'prosumers'. Producing and consuming from local / regional marketplace

Surpluses can be traded from those producing more energy than consuming

Testing in a Brooklyn community using 'energy credits' via ethereum

#### Wave: Paperless Trade



WAVE connects all members of the supply chain to a decentralized network

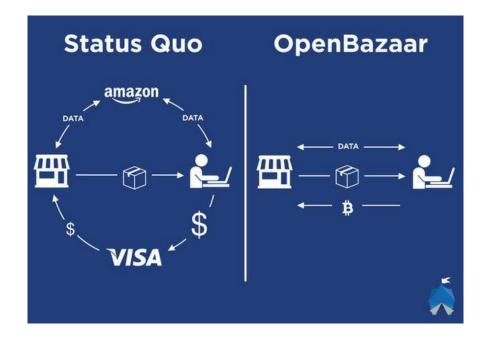
Allows them a direct exchange of documents.

Manages ownership of documents on the blockchain

Eliminates disputes, forgeries and unnecessary risks.

Will help in trade finance like fluentfunds.com

#### **OpenBazaar - dCommerce**



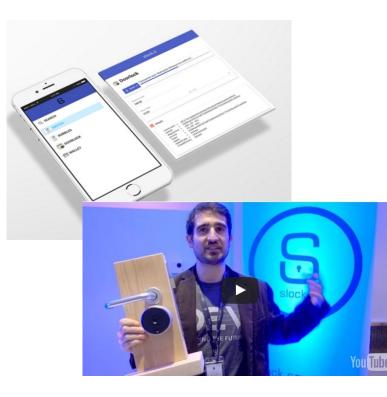
Free Market for all. No Fees. No Restrictions. With total anonymity

Opensource p2p markets without any middleman

No Amazon, eBay or Paypal payment processors ran from desktop apps

You can build various apps on-top to custom to various markets

#### Slock.it: Gateway to IoT & Sharing Economy



Rent, sell or share anything - without middlemen

Blockchains for The Sharing Economy and gateway to your IoT

Making trusting the other party as unnecessary as possible

Handling secure direct P2P payments as a DAO

Providing a mechanism of deposits, and eventually, full blown insurance

Freeing the users from having to coordinate with each other to hand over keys

Supporting almost any objects including cars, lockers, apartments, sheds, office space, etc.

#### Everledger – Securing diamond supply chain



Permanent immutable ledger for diamond certification & transaction history for insurance companies, owners and law enforcement

Securing back to mining companies

Fraud detection system, overlaying big data from closed sources like insurers and law enforcement.

Targeting £45 bn lost in UE & Europe insurance fraud

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#### Next Level innovation

Coop 2.0

- 1. P2P / dCommerce
- 2. dMarkets (Uber for
- 3. Truer Sharing Economy (without the platform)
- 4. Smart Money (Programmable Money)
- 5. BaaS (3-5 year app market explosion)

## 'Developed' World

- focuses on integration into existing systems
- and gradual replacement of legacy
- firewall to disruption of regulated industries
- centralised platforms gradually disintermediated

**Reverse Engineer** Innovations

# 'Developing' World

- Blank canvas to truly innovate new models
- Greater incentive to bypass intermediaries (govt control, data)
- Blockchain becomes THE infrastructure
- Allowing for truly decentralized p2p systems
- Major breakthroughs in financial inclusion etc

#### **Public Sector Innovation**

• Estonia has created eResident program, blockchain notary service allow citizens, regardless of where they live or do business, to notarise their marriages, birth certificates, business contracts and more, on the blockchain in minutes.

• UK Govt mulls applications for DVLA, Land Registry, Voting & more







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#### The Blockchain of Real Estate.

Home About Smart Tenancy Smart Contracts Blockchain More Info



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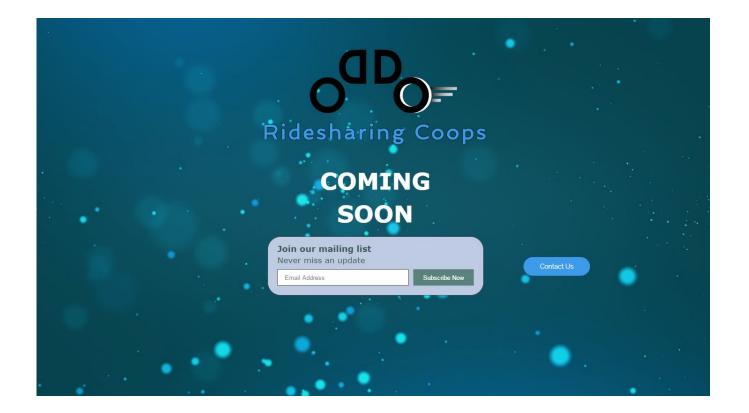
The Blockchain of Real Estate.

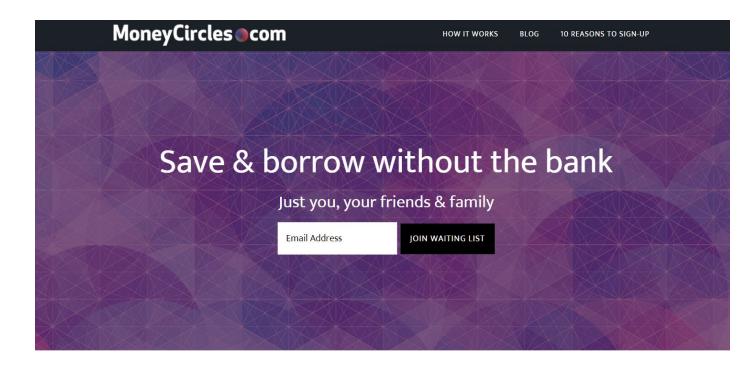
We are now taking **pre-orders** for our **Smart Tenancy** product. To become an early adopter, please register your interest:



CITIBANK CHALLENGE

Midasium is selected for the Citibank Mobile Challenge Final. Watch the presentation of our **Smart Tenancy** prototype.





Join Waiting List



BioSSL is a biometric security layer which secures online access with a biometric password.

BioSSL allows people to use their own unique body features such as their fingerprint, facial features, voice and eyes as a password to unlock important data online instead of using traditional passwords.

anks Financial Institutions Governments Organisations eCommerce eBusiness

https://www.youtube.com/watch?v=J2Kr6p9phD8&feature=youtu.be

#### Thanks! follow me @jamie247