

Welcome to the Emerging Decentralized Economy.

**Peers-to-Peers Economy
P2P Economy**



PIP 2016 – Rabat – 13 July 2016

Anticipation | Disruption | Relevance

We help progressive AI-free C-level executive to Unlock, Anticipate, Design and Shape the future. We believe in AfterNow, Creativity, Simplicity, Common Sense, Collective Intelligence, Singularity & Fairness.

At the crossroads of #SinguLarity #ChIndiAfrica
#Blockchain #LifeLongLearning #TransFormation #Cybersecurity & #GlobalAffairs.

Christopher Cordey

CEO Futuratinow
Founder of Yonders

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What if we could ...

- Catch A Ride Without Uber?
- Book A Room Without Airbnb ?
- Remit cheaply money without Western Union ?
- Pay goods and services Without Paypal ?
- Store our data securely Without Dropbox ?
- Enjoy privately our social life Without Facebook ?
- Trade physical assets Without e-bay ?
- Bypass traditional retail banks ?
- Etc
 - *Brief introduction to Blockchain technology*
 - *Blockchain's current complex ecosystem*
 - *Existing emerging applications*
 - *Implications*

Au delà de Bitcoin ...



Bitcoin (BTC) est une monnaie virtuelle (crypto-currency), un système de paiement sécurisé et anonyme entre particuliers. Inventée par Satoshi Nakamoto en 2009, cette monnaie peut être considérée comme la première devise complémentaire universelle (non-étatique) disponible sur internet.

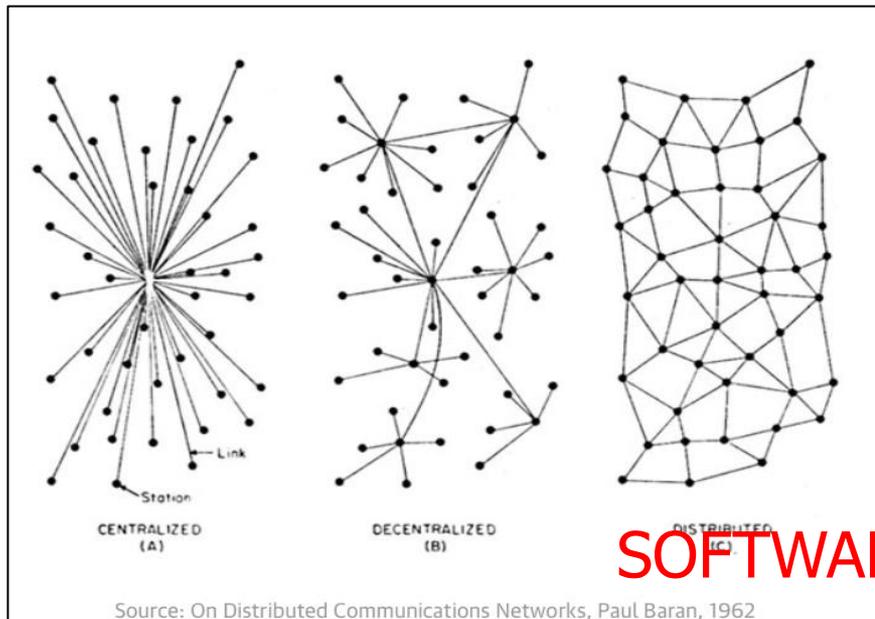
Peer-to-Peer money

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What is the Blockchain ?

**Chaînes des blocs
Grand-livre**

The blockchain is a public ledger built in a decentralized network structure based on cryptographic principles so that any kind of trading, buying and selling of assets does not need to go through a centralized intermediary.



HARD ASSETS

Physical property

INTANGIBLE ASSETS

Votes, ideas, reputation

Intention, health or civil data

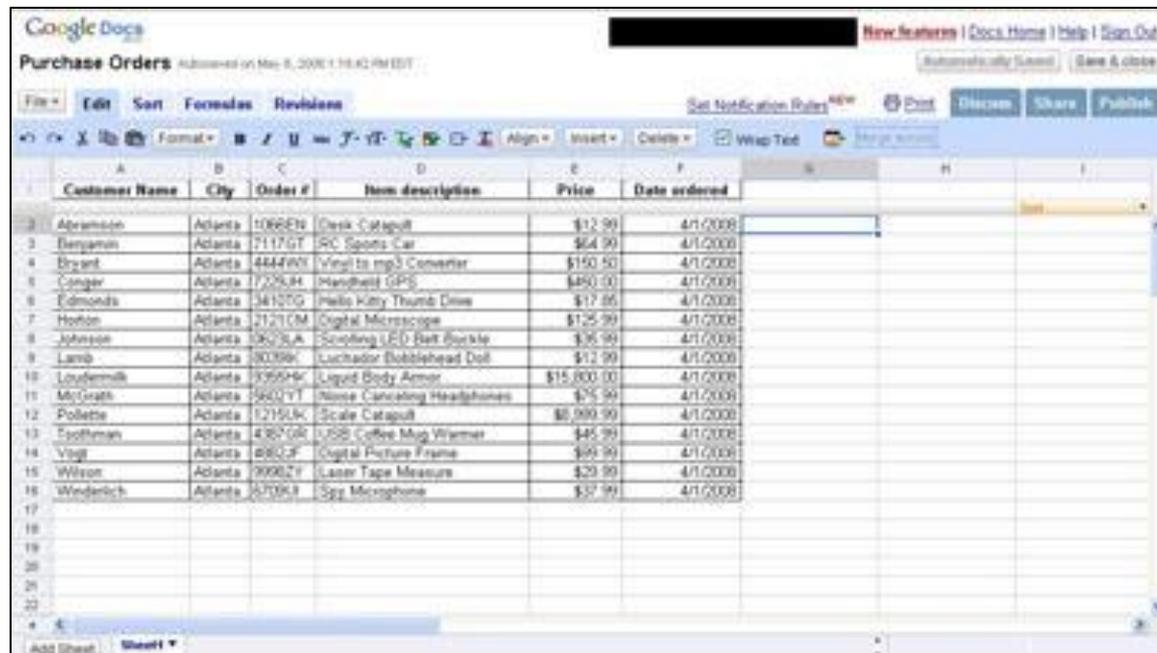
Information, etc

SOFTWARE PROTOCOL

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Blockchain : in other words

“Giant interactive Google doc spreadsheet’ that anyone can view (encrypted transaction) and administrators (miners) continually verify and update to confirm that each transaction is valid



The image shows a screenshot of a Google Docs spreadsheet titled "Purchase Orders". The spreadsheet is displayed in a web browser interface. The data is organized into a table with the following columns: Customer Name, City, Order #, Item description, Price, and Date ordered. The table contains 18 rows of data, each representing a purchase order. The interface includes a menu bar at the top with options like "File", "Edit", "Sort", "Formulas", and "Revisions". There are also various toolbars for formatting and editing. The spreadsheet is currently showing sheet 1.

| | A | B | C | D | E | F | G | H | I |
|----|---------------|---------|---------|----------------------------|-------------|--------------|---|---|---|
| | Customer Name | City | Order # | Item description | Price | Date ordered | | | |
| 2 | Abramsin | Atlanta | 1066E9 | Desk Catapult | \$12.99 | 4/1/2008 | | | |
| 3 | Benjamin | Atlanta | 7117GT | RC Sports Car | \$64.99 | 4/1/2008 | | | |
| 4 | Bryant | Atlanta | 4444W1 | Vinyl to mp3 Converter | \$150.50 | 4/1/2008 | | | |
| 5 | Conger | Atlanta | 1726JH | Headset GPS | \$480.00 | 4/1/2008 | | | |
| 6 | Edmonds | Atlanta | 3412TG | Hello Kitty Thumb Drive | \$17.85 | 4/1/2008 | | | |
| 7 | Holton | Atlanta | 2121CM | Digital Microscope | \$125.99 | 4/1/2008 | | | |
| 8 | Johnson | Atlanta | 0K73A | Scrubbing LED Bath Bubble | \$35.99 | 4/1/2008 | | | |
| 9 | Lamb | Atlanta | 80306 | Luchador Bubblehead Doll | \$12.99 | 4/1/2008 | | | |
| 10 | Loudermill | Atlanta | 3356H4 | Liquid Body Armor | \$15,000.00 | 4/1/2008 | | | |
| 11 | McGrath | Atlanta | 960VT | Noise Canceling Headphones | \$75.99 | 4/1/2008 | | | |
| 12 | Pollette | Atlanta | 1215LK | Scale Catapult | \$5,000.99 | 4/1/2008 | | | |
| 13 | Spoffman | Atlanta | 4870R | USB Coffee Mug Warmer | \$45.99 | 4/1/2008 | | | |
| 14 | Vogt | Atlanta | 6802F | Digital Picture Frame | \$99.99 | 4/1/2008 | | | |
| 15 | Wilson | Atlanta | 9990Z7 | Laser Tape Measure | \$29.99 | 4/1/2008 | | | |
| 16 | Wunderlich | Atlanta | 327063 | Spy Microphone | \$37.99 | 4/1/2008 | | | |
| 17 | | | | | | | | | |
| 18 | | | | | | | | | |
| 19 | | | | | | | | | |
| 20 | | | | | | | | | |
| 21 | | | | | | | | | |
| 22 | | | | | | | | | |

- public visibility of encrypted transaction
- private inspection via personal code **futurati**now™
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How a blockchain works

1

A wants to send money to B



2

The transaction is represented online as a 'block'



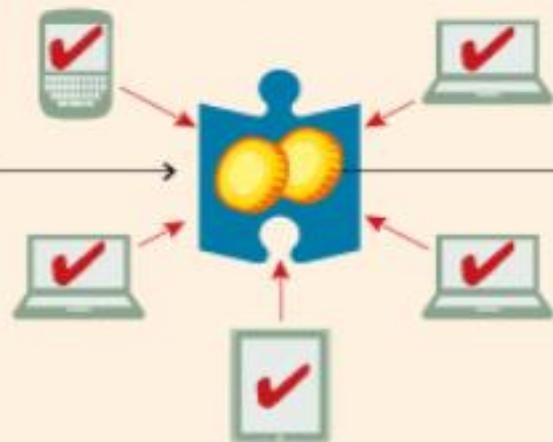
3

The block is broadcast to every party in the network



4

Those in the network approve the transaction is valid



5

The block then can be added to the chain, which provides an indelible and transparent record of transactions



6

The money moves from A to B



Balancing the Benefits

Blockchain Benefits

- Ecosystem simplification
- Faster interbank clearing & settlement
- Lower transaction costs
- Reduced counterparty risk
- Transparency & auditability
- Ease of software development/integration

Vs.

Risks

- Unproven technology
- Untested capacity/scalability
- Low transaction speed
- Possible consensus protocol flaws
- Cryptocurrency price volatility
- Uncertain regulatory status

- ① **Empowered users**
- ② **High quality data**
- ③ **Process integrity**
- ④ **Transparency and immutability**
- ⑤ **Ecosystem simplification**
- ⑥ **Faster transactions**

- ① **Large energy consumption**
- ② **Control, security, and privacy**
- ③ **Integration concerns**
- ④ **Cultural adoption .**
- ⑤ **Cost**

<http://www2.deloitte.com/nl/nl/pages/innovatie/artikelen/blockchain-technology-9-benefits-and-7-challenges.html>

2016 The Blockchain Ecosystem

Market Insight • Proposition Development • Customer Engagement • Product Launch

FirstPartner

Introduction

The blockchain combines cryptography & distributed computing to deliver secure, direct peer to peer transactions without the need for a central party. At its heart is the Distributed Ledger. This is a tamper proof, public, network-hosted, record of all consensus verified transactions. Initially realised via Bitcoin & similar "cryptocurrencies", focus & investment is now shifting to the potential of blockchain technology to revolutionise the infrastructure & processes of established Financial Institutions & other enterprises. This Map summarises the key principles behind the blockchain & the emerging ecosystem addressing payments, banking & other potential use cases.

Blockchain numbers

- \$921 million** Cumulative VC investment in Bitcoin & blockchain companies to Oct 2015. \$462 million of this in 2015 alone.
- \$121 million** Largest cumulative funding total - raised by Bitcoin computer developer 21inc.¹
- 805** Number of early stage Bitcoin & blockchain companies identified by Venture Scanner²
- 30+** Banks & Financial Institutions known to be testing, analysing or investing in the blockchain technologies³
- 11m** Number of registered Bitcoin wallets in Sept 2015 - up from 6.6m in Sept 2014⁴
- 106,000** Number of merchants who accept Bitcoin⁵
- \$4.9bn** Bitcoin capitalisation for Nov 2015. Bitcoin accounts for around 90% of the capital value of all cryptocurrencies⁶
- \$2.7bn** value of Bitcoin trading in Sept 2015⁶
- 475** Bitcoin ATMs installed worldwide⁷

Sources:
 1 CoinDesk & Churchill
 2 VentureScanner.com reviewed Nov 2015
 3 FirstPartner research
 4 CoinDesk State of Bitcoin Report Q3 2015
 5 Blockchain.info checked 14th Nov 2015
 6 Blockchain.info
 7 Coin ATM Radar checked Oct 2015

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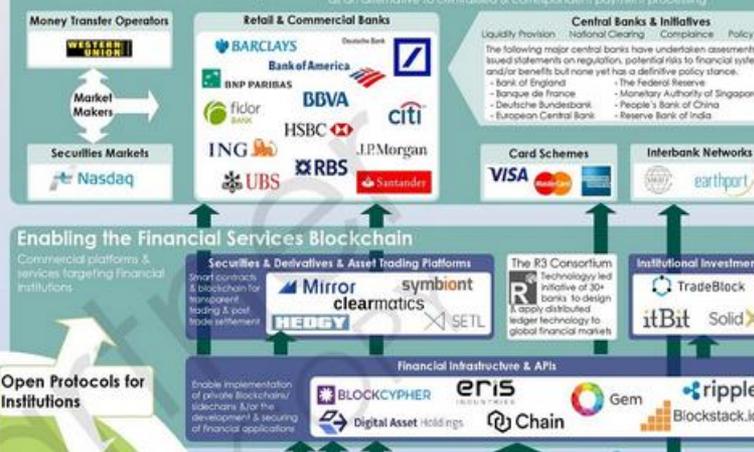
Payment Use Cases



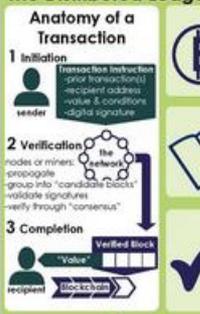
The Cryptocurrency Ecosystem



Established Financial Ecosystem



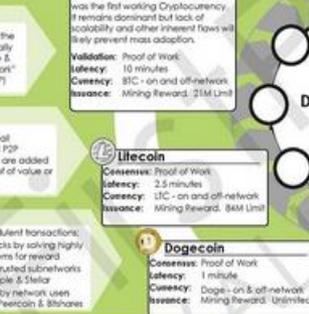
The Distributed Ledger



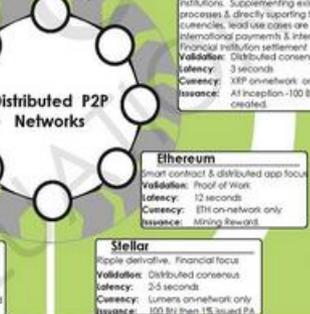
Protocol Components



Blockchain



Enabling the Financial Services Blockchain



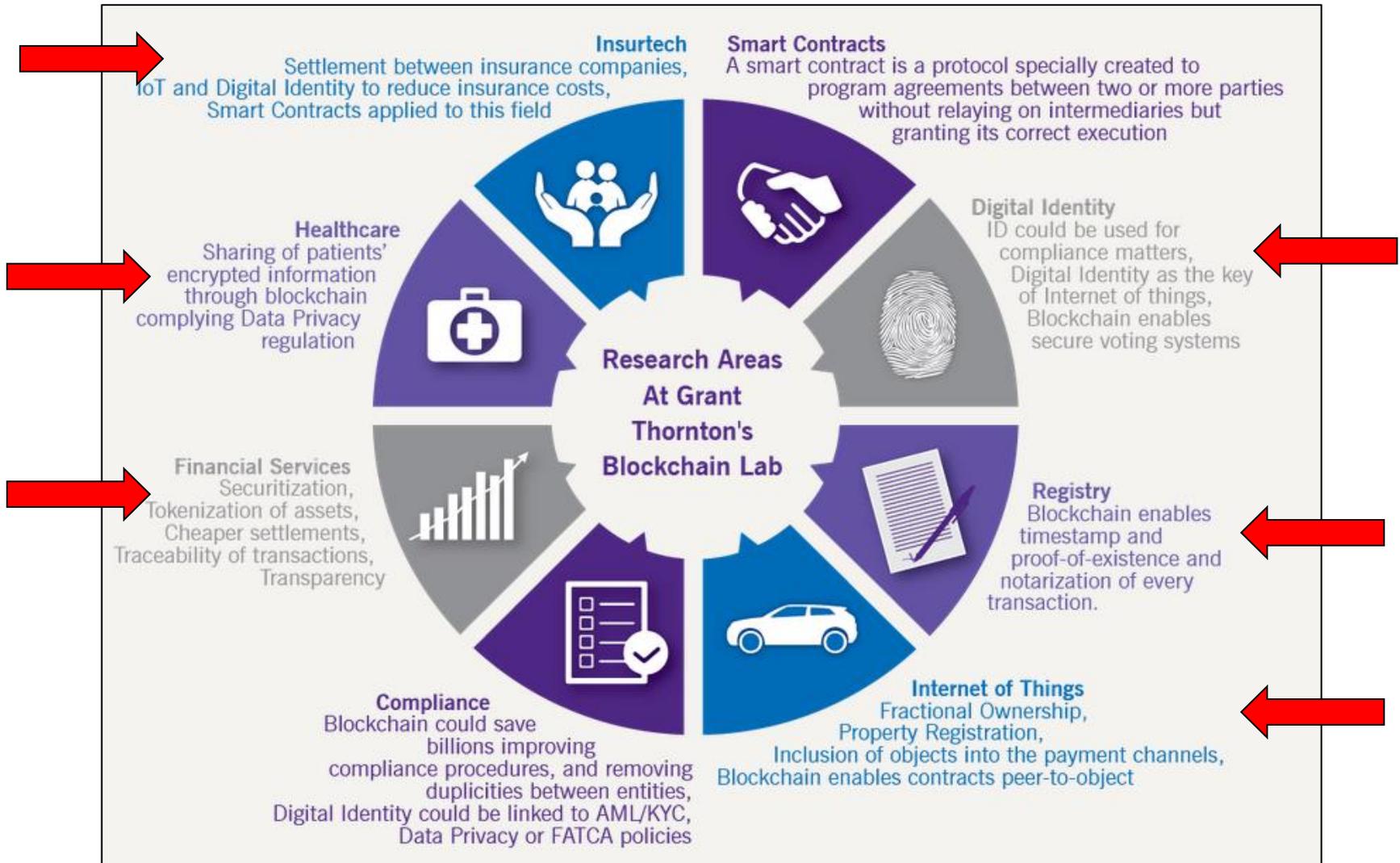
Financial Infrastructure & APIs



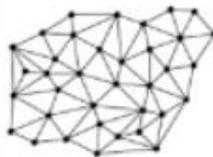
Crypto 2.0 - Building on the Blockchain



Numerous area of potential uses



Blockchain Startups

|  <p>PAST</p> |  <p>PRESENT</p> |  <p>FUTURE</p> | <h2>Blockchain Startups</h2> <p>Top Blockchain startups disrupting non-financial markets</p>  <p>Venture Radar</p> |
|--|---|---|---|
|  <p>THE WALL STREET JOURNAL</p>  <p>THE NEW YORK TIMES</p>  <p>HM Government</p>  <p>Hilton</p> |  <p>facebook</p>  <p>twitter</p>  <p>Dropbox</p>  <p>UBER</p>  <p>airbnb</p> |  <p>Social Networking</p>  <p>synereo</p>  <p>GEMS</p> <p>Digital Identity</p>  <p>ONENAME</p>  <p>ShoCard</p> <p>Art & Ownership</p>  <p>VERISART</p>  <p>Bitproof.io</p>  <p>MONEGRAPH</p>  <p>colu.</p> | <p>Cloud storage</p>  <p>Filecoin</p>  <p>TIERION</p>  <p>STORJ.IO</p> <p>Smart Contracts</p>  <p>TRUST</p>  <p>EP</p>  <p>appliedblockchain</p> <p>Anti-Counterfeiting</p>  <p>everledger</p>  <p>BLOCKVERIFY</p> <p>Supply Chain</p>  <p>thingchain</p>  <p>Trade</p> <p>Governance</p>  <p>OTONOMOS</p>  <p>Swarm</p>  <p>followmyvote</p>  <p>BITNATION</p> <p>Prediction Markets</p>  <p>augur</p> <p>Internet of Things</p>  <p>FILAMENT</p>  <p>More: https://www.ventureradar.com/</p> |

The New DROPBOX ?

Encrypted Cloud Storage

Blockchain-based, end-to-end encrypted, distributed object storage, where only you have access to your data.

[Sign Up for Free](#)

Storj is free during the beta testing.



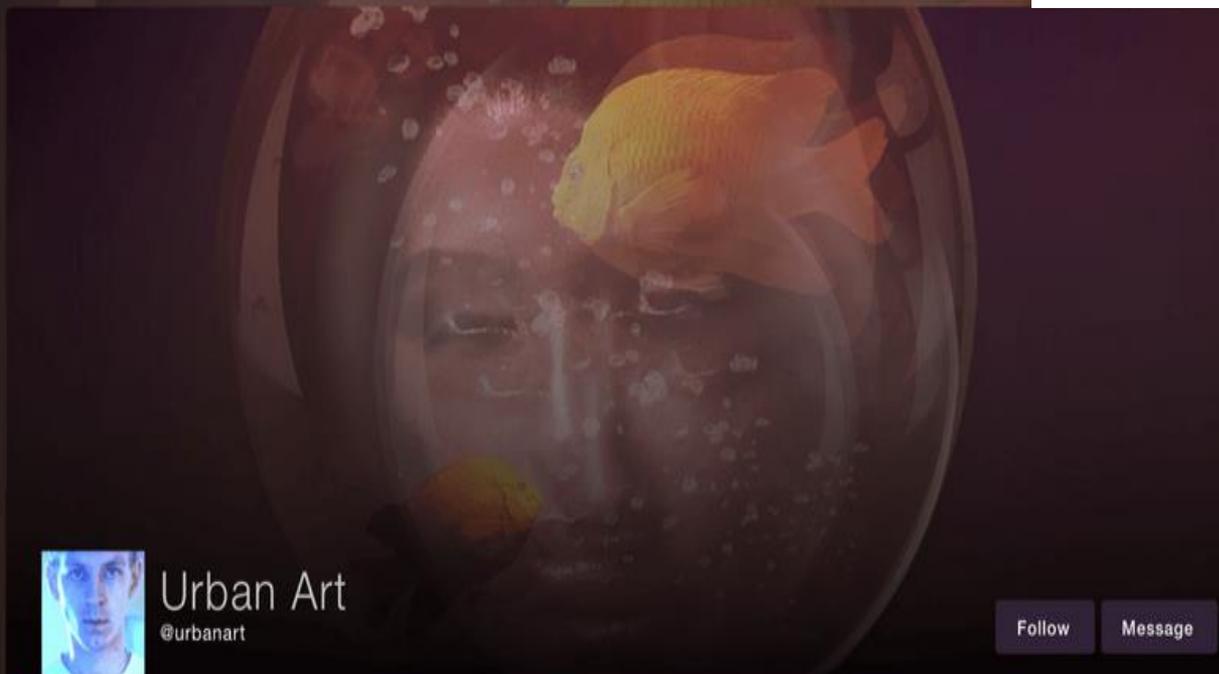
A Free Market for all.

No Fees. No Restrictions.

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It's open source

The New e-bay ?



Urban Art

@urbanart

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Message

About

Followers 37

Following 12

Store



ABOUT US

La`Zooz

A Decentralized Transportation Platform owned by the community and utilising vehicles' unused space to create a variety of smart transportation solutions. By using cryptocurrency technology La`Zooz works with a "Fair Share" rewarding mechanism for developers, users and backers.

RideSharing vision

La`Zooz platform will synchronize empty seats with transportation needs in real-time, matching like-minded people to create a great ride-sharing experience for a "Fair fare".

The Road

is being paved by people like you and me.
Taking part makes La`Zooz come alive.

The New UBER ?





Synereo is a fully decentralized and distributed social platform
OWNED BY THE PEOPLE WHO USE IT.



Next-gen social platform

Your attention is scarce, precious and powerful.
It's time for it to work for you.



Fully decentralized

There's no single point of failure.
The network cannot be taken down or hijacked.



Be who you want

Your self-expression varies across networks. Construct and present your identity as you see fit.



Your data is yours

Completely spy-proof.
Only you decide who can view your profile and content.

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WINNER OF

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FESTIVAL 2015

The New Paypal or Western Union ?

FREE YOUR MONEY

*TRANSFER MONEY WORLDWIDE
INSTANTLY AND SECURELY.*

GET THE APP

Migrants paid an average of 5.9% in fees on money transfers in 2014.

Blockchain technology could streamline the process and reduce infrastructure cost for remittance companies, which could mean lower transfer rates for consumers.

Education

- Education
- Knowledge works

KnowledgeWorks Forecast 4.0

Learning on the Block:

**Could Smart Transactional Models
Help Power Personalized Learning?**

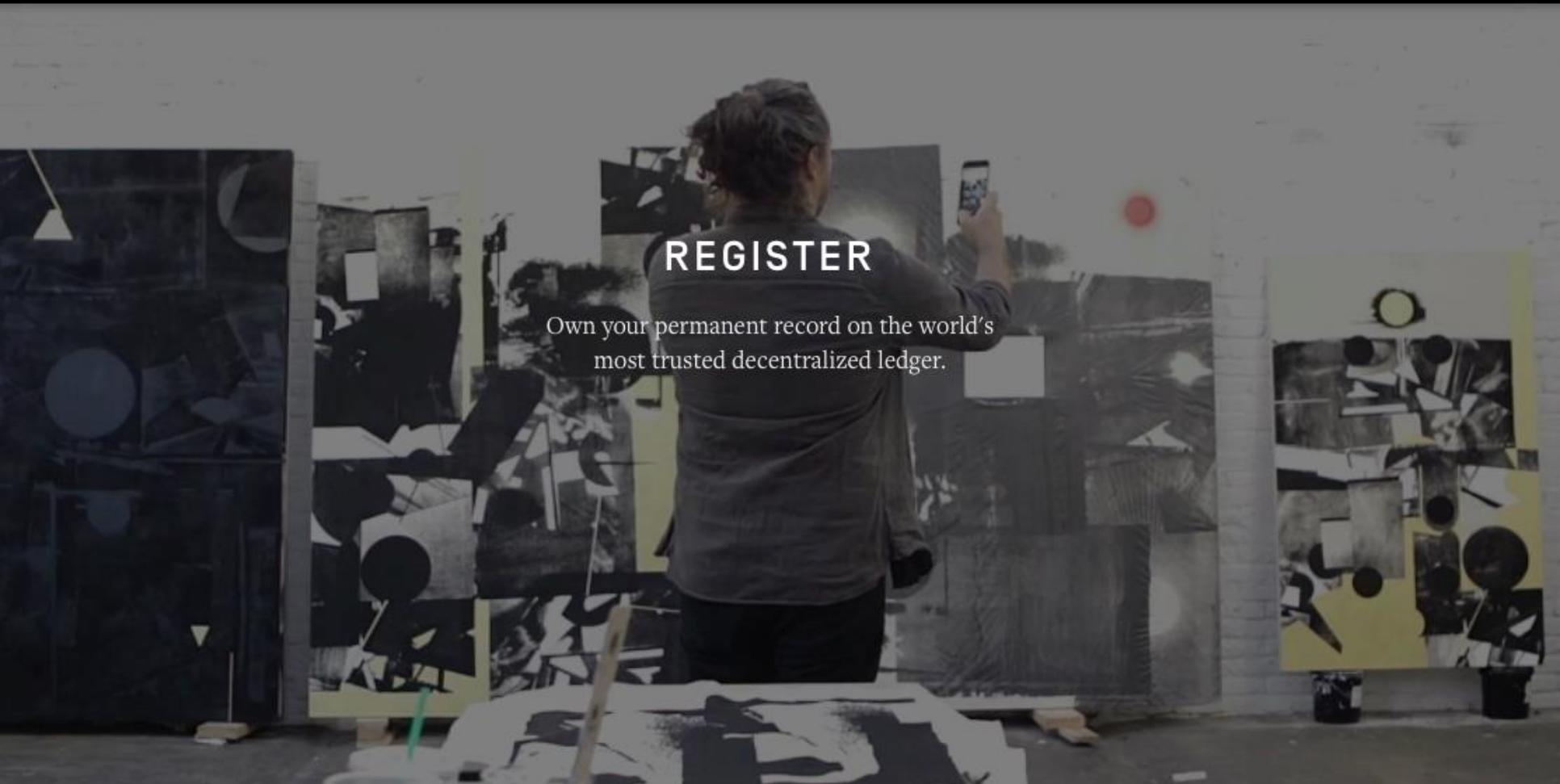


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Welcome to the future of forecasting

Augur combines the magic of prediction markets with the power of a decentralized network to create a stunningly accurate forecasting tool - and the chance for real money trading profits

[What is Augur?](#) 

Governments' interests

GOV.UK

Blog

Government technology

Organisations: [Government Digital Service](#)

Blockchain: exploring uses government

Rosie Jessop, 20 April 2016 — Technology Transformation

Dubai Establishes Gov't Backed 'Blockchain Council'

By **Jamie Redman** · February 19, 2016 · 4050 · 1



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By **Richard Kastelein** · May 5, 2016

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Dutch Government Announces Blockchain Development Campus

By **JP Buntinx** · July 4, 2016 · Crypto News, News

e-Estonia.com
The Digital Society

WEL COME TO ESTONIA

Estonian e-Residency

ABOUT SERVICES & BENEFITS APPLY FOR DEVELOPERS PRESS KIT CONTACTS HELP

Apply to e-Residency

Israel: A Hotspot for Blockchain Innovation

February, 2016

What is "e-Residency" digital identity online, unlike traditional identity, will facilitate credit business online.

The Republic of identity available business online. facilitate credit



BLOCKCHAIN / MIJIN / NEM

Japan's Trade Ministry: Government Should Promote Blockchain Use Cases

BY **BRAINOFMASSES** · JUNE 2, 2016

China Joins the Blockchain Race With ChinaLedger Alliance

May 02, 2016 03:56 PM by **Andrew Quentson**

US Department of Homeland Security Talks Blockchain R&D

Pete Rizzo (@pete_rizzo_j) | Published on July 10, 2016 at 17:08 BST

364 99 3 44



IBM Unveils Cloud-based Blockchain Services For Government And Healthcare

4:45 pm April 29, 2016 · JP Buntinx · Bitcoin, Blockchain Technology, News

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Addressing these security needs is done through a variety of means, as they aim to offer the blockchain to government, healthcare, and financial players over the coming months and years.

Public Records Applications

- Public Records
 - Land titles
 - Vehicle registries
 - Business incorporations
 - Criminal records
 - Passports
 - Birth certificates
 - Death certificates
 - Voter Registration
 - Voting Records
 - Health/safety inspections
 - Building permits
 - Court records



GHANA

Bitland is currently (also) developing a Global Blockchain Cadastral System so the Bitcoin-Blockchain Technology can be offered on a large scale .. for example all African nations. Bitland's efforts will likely (also) uncover vast amounts of money in unknown real estate rights.



Bitland Ghana
@realestateghana

MILLIONS OF GHANIANS CAN NOT RELY ON CADASTRAL LAND COMMISSION CERTIFICATES => @realestateghana
#BLOCKCHAIN !!!!

12:55 AM - 28 Mar 2016



Bitland Ghana
@realestateghana

GHANIANS CAN NOW RELY ALTERNATIVE CADASTRAL LAND CERTIFICATES WITH #BLOCKCHAIN !!!! @realestateghana

1:03 AM - 28 Mar 2016

NGO collective Start Network testing rapid response humanitarian crisis funding using blockchain



By Ian Allison

April 21, 2016 19:42 BST



ethereum



BoardRoom



CONSENSYS

Non-governmental organisation collective [Start Network](#) and [ConsenSys](#) have launched a pilot project to test blockchain technology to enable member NGOs make more efficient and transparent decisions about funding for crisis responses.

In conclusion

- ① Blockchain is an emerging, disruptive and transformative technology; a **true game-changer** with major future global implications.
- ② Blockchain is an **equality technology** that allow more possibility for individual liberties, freedoms, rights, actualization, expression, and self-determination than has been possible in hierarchical models.
- ③ A nascent technology that might **re-architect the deep structure of companies** for innovation, shared-value creation and even prosperity for many rather than just wealth for the happy few.
- ④ The most contentious conflicts (and partnerships) will be between **startups** that are completely reengineering decades-old practices, and **traditional power** players from the private and public sectors.
- ⑤ **No firms or States are immune** from the coming disruption and should have a strategy to harness the powerful advantages of the blockchain revolution.

What if ...

MERCI pour votre attention !

We were moving from an internet driven primarily by the falling costs of search, coordination, data collection and decision making – where the name of the game is **monitoring, mediating and monetizing information and transactions** on the web to...



... one driven by the falling costs of bargaining, policing and enforcing social and commercial agreements, where the name of the game will be **integrity, security, collaboration, the privacy of all transactions, and the creation and distribution of value**