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through the app



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Thank you!





Why you don't see blockchain in your everyday life....yet

Ricardo Garcia
2nd November 2018
Gotober

BigchainDB: A general purpose technology

Healthcare	X
Energy	X
Automotive	X
Public services	X
Supplychain & logistics	X
Chemicals	X
Financial services	X

IoT	X
Identity	X
Online marketing & e-commerce	X
Media & Telecommunication	X
Sport	X
Mobility services	X
FMCG	X

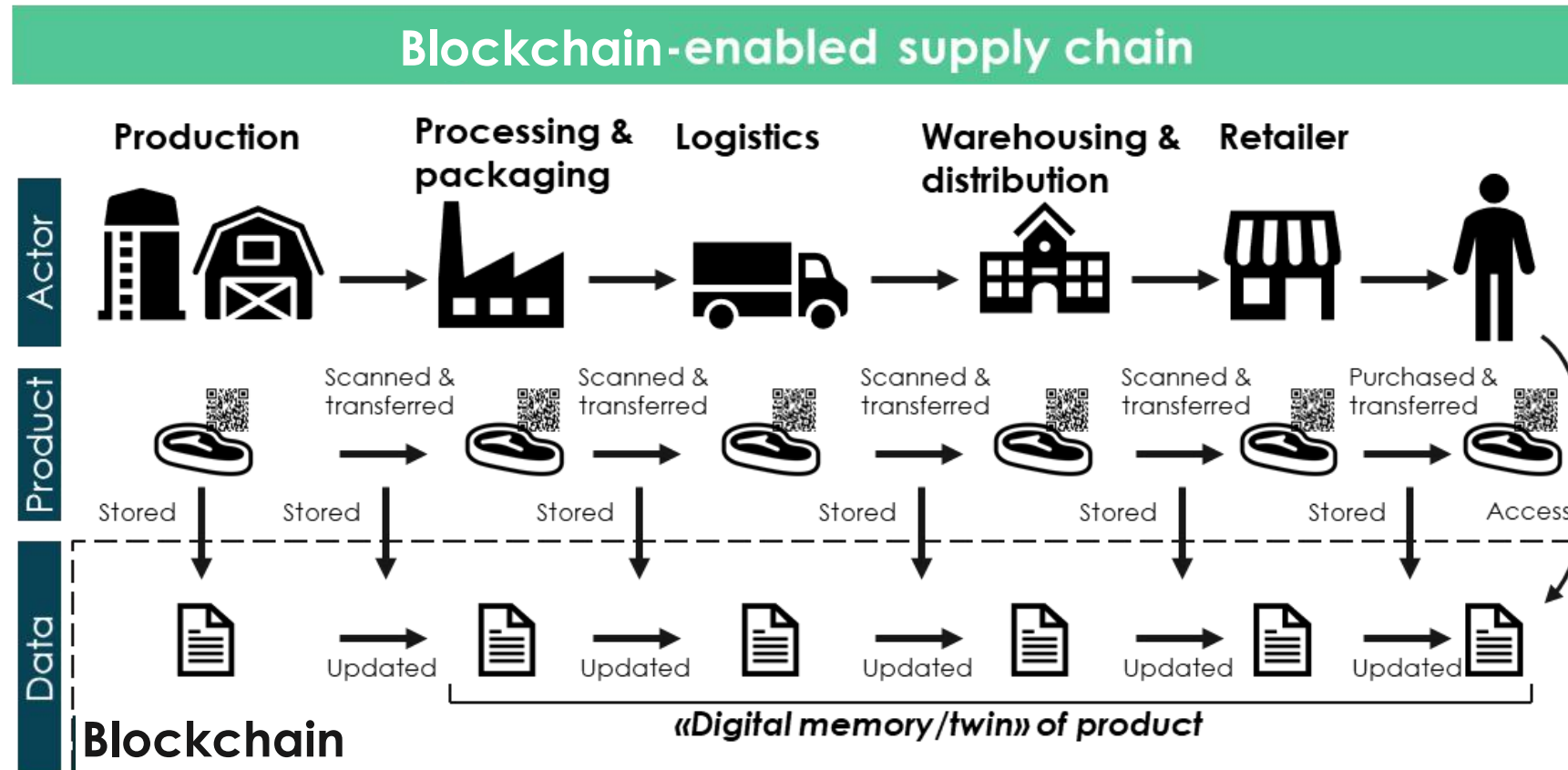
Software development	X
Audit & Consulting	X
Mining	X
Construction	X
Hardware	X
Tourism	X
Pharmaceuticals	X

Agriculture	X
Aerospace	X
NGO	X
Travel	X

What are reasons blocking adoption?

Reason 1: Consortium set-up and governance

Blockchain: collaboration of multiple companies needed



Blockchain governance: not always easy



Consortium set-up: data points



Set-up time: **~12 months**
Members at launch: **37**



Set-up time: **~9-10 months**
Members at launch: **23**

Even IBM is struggling

Homepage

Features

Business News

Distributed Ledger Technology

Supply Chain

Europe

IBM and Maersk Struggle to Sign Partners to Shipping Blockchain

By Ian Allison - 5 days ago



It's hard enough to get enterprises that compete with each other to work together as a team, but it's especially tricky when one of those rivals *owns* the team.

Reason 2: Every blockchain project is also a digitization project

11

[illegible]

Case study: the Swiss healthcare system



- ~**300 mn.** A4 sheets of paper per year
- ~**820'000** A4 sheets per day
- ~**220 tons** of paper per small hospital
- ~**7 trucks** of weight per hospital

Reason 3: Legacy systems are complex and hard to integrate with

ERP and CRM systems: they're everywhere

ORACLE®

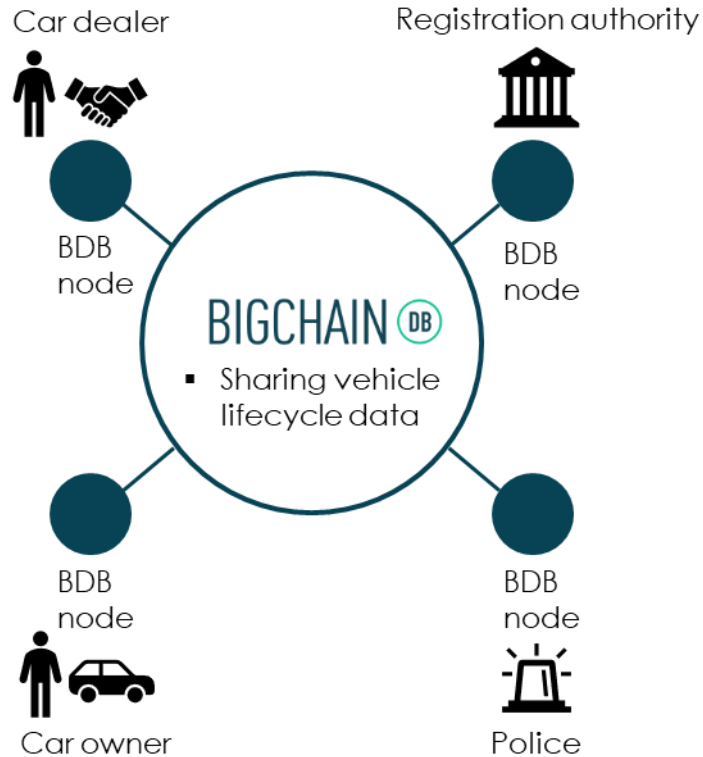




Reason 4: Regulation, Regulation, Regulation

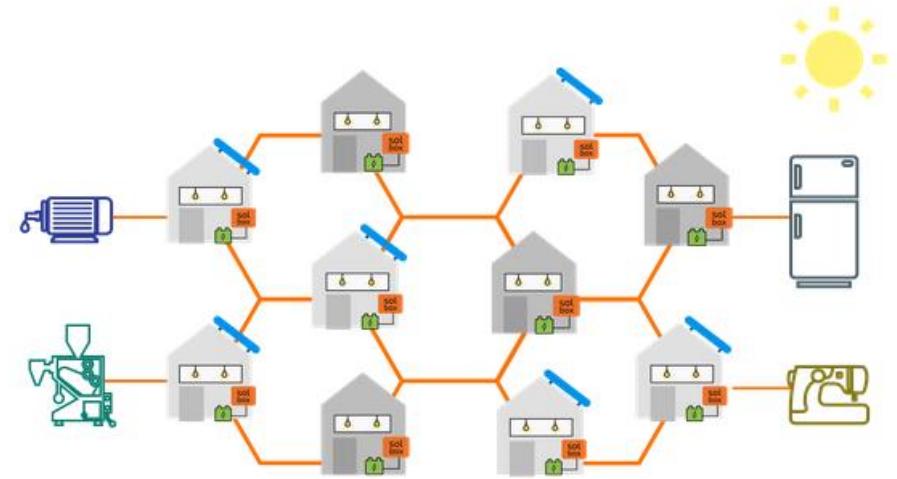
Regulation: the devil lies in the details

Vehicle lifecycle management



Nice digital process, but: physical car documentation required by law!

P2P energy trading



P2P trading challenging with German regulation

Source: <https://medium.com/le-lab/solshare-the-startup-for-sharing-solar-energy-in-bangladesh-en-377002b21716>

Reason 5: Immaturity of blockchain technology

Blockchain technology: evolution needed

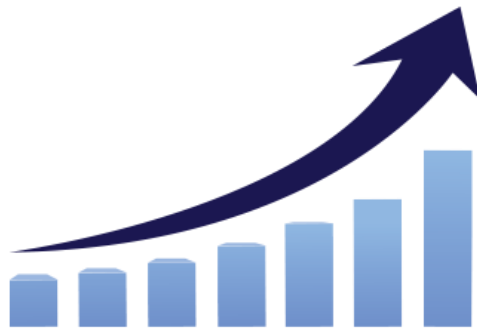
Key & identity management

Public Key: Au2mCkcgZKJQQ9qs27LK2uCXibvQvsNE6oPayDhsJcj4
Private Key: F5PnCmsSgvz1tCWU2b9QZwHA1trriSU3Qpb6a6UjQkEA
User Id: dd53a80a86f88f4d96a34411793bf85396d79edbbbc335148e0c5361260e2859
Pass Phrase: sniff auction radio shadow capable truth chicken knee attend mix year screen

Encryption & privacy



Scalability



Interoperability



Image sources:
https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcRaR85E6w_UP2uWelogU0L_B1CPt8MqUV3wWo2tEXIVAEENTBK-
<https://www.masseycloud.com/wp-content/uploads/2015/01/Intacct-Scalability.png>
<https://hitinfrastructure.com/news/lack-of-ehr-interoperability-standards-challenges-health-it>

But: many smart engineers working on it

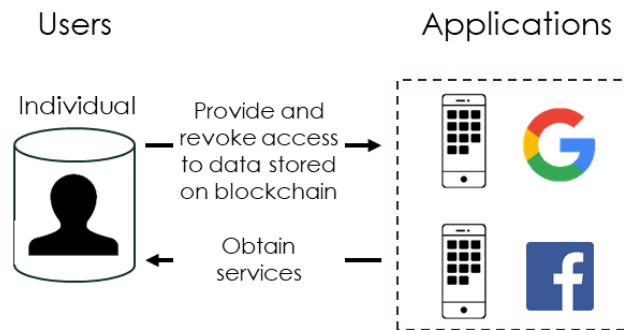


Image source: <https://www.google.de/imgres?imgurl=http%3A%2F%2Fwww.business-review.eu%2Fwp-content%2Fuploads%2F2017%2F01%2Fmillenials.jpg&imgrefurl=https%3A%2F%2Fengineersnow.com%2Fleadership%2Fsmart-engineers-handle-people-dislike&docid=wYWyAnAYRfJHBM&tbnid=fyGV-aWkKcM%3A&vet=10ahUKEwi854H7I6jcAhVGzaQKHRWmALIQMwhzKDAwMA..i&w=1200&h=776&bih=566&biw=1280&q=smart%20engineers%20working&ved=0ahUKEwi854H7I6jcAhVGzaQKHRWmALIQMwhzKDAwMA&iact=mr&uact=8>

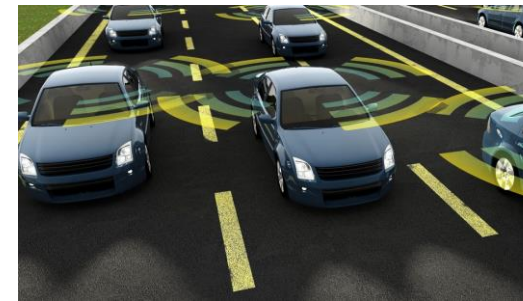
Reason 6: Blockchain makes sense in a world we «might»
move into, which takes time

The future we might move towards

Users caring about their data



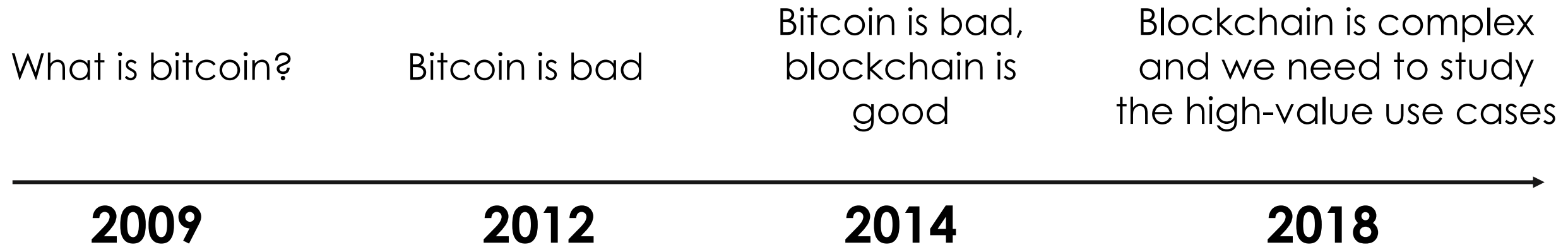
Autonomous devices that transact with each other

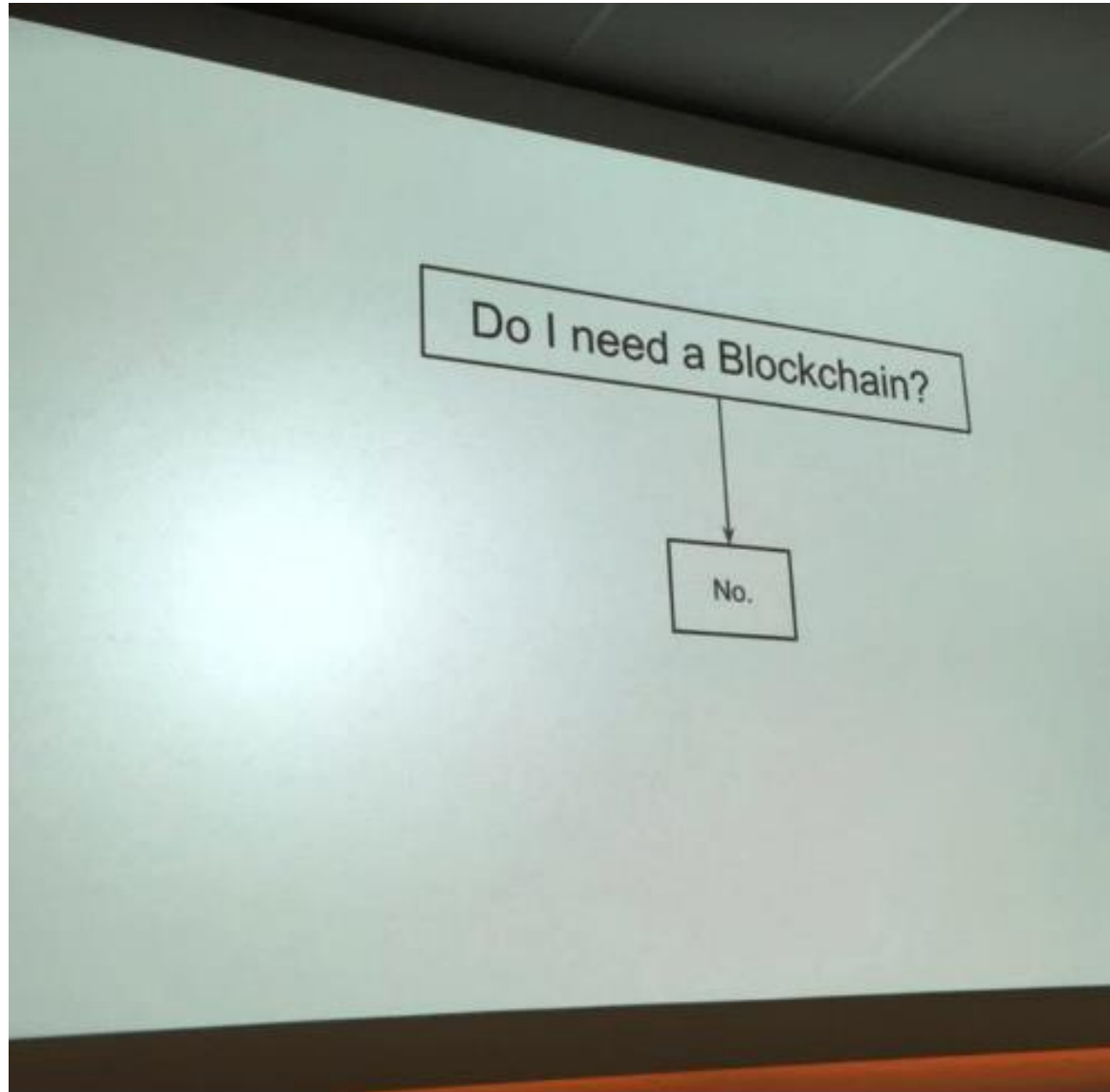


Adoption takes one generation



To sum it up: where we stand today?

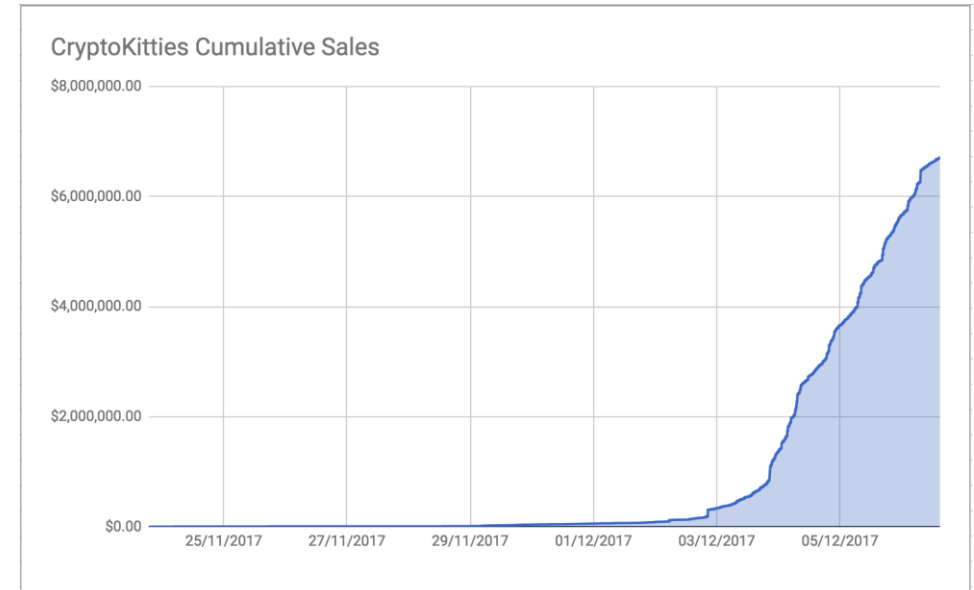




So, how can we increase adoption?

Trick 1: work with start-ups

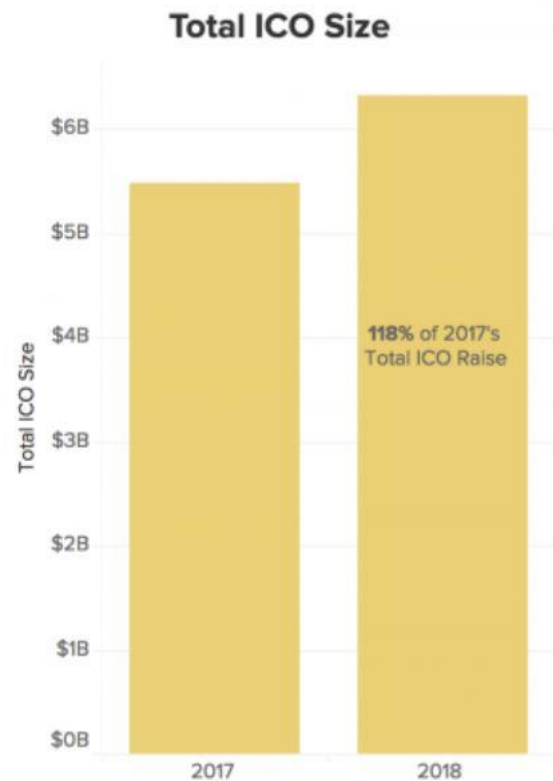
Viral blockchain use cases



Source: Niel de la Rouviere

Blockchain start-ups: Lots of funding

coindesk



Source: Coindesk

~11-12 bn USD raised in ICOs

Blockchain start-ups: building on BigchainDB

Finance

- Decentralized exchanges
- Data monetization
- Centralized exchanges

Gaming

- Scalable decentralized gaming platform

Supplychain

- QR code integration for transparency
- Decentralized manufacturing

E-commerce

- Decentralized shopping profile
- Transparent online marketing
- Data access control for online marketing information

Identity

- Decentralized KYC
- Self-sovereign identity

Media

- Decentralized linkedin
- Decentralized movie platform
- Data monetization

Healthcare

- Health data monetization
- Fitness data monetization

IoT

- Smart home IoT data storage
- Digital twins

others

- Decentralized software licensing

Trick 2: work with pioneers

Blockchain in enterprise and government: some pioneers

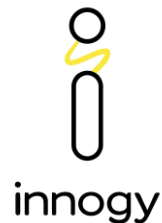
Enterprises



Multinational bank



Two multinational FMCG providers

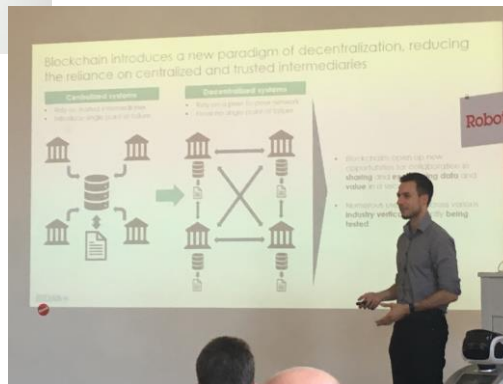


Governments



Trick 3: Educate the world

Explaining blockchain to the world

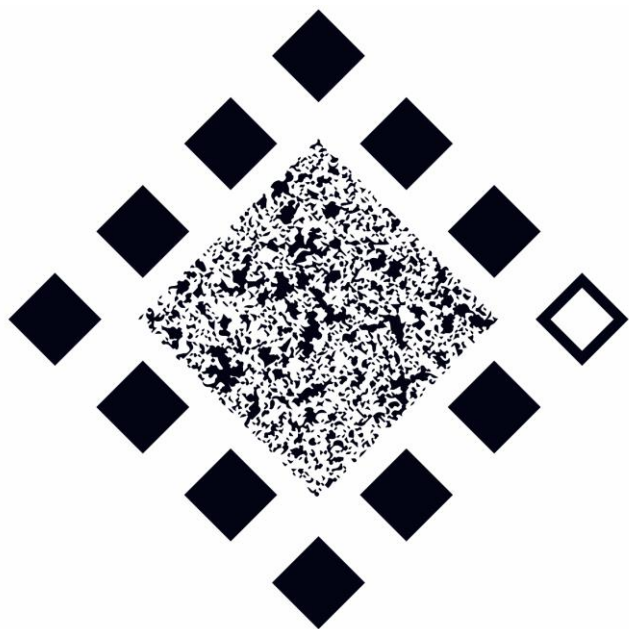


Closing the loop: who is building the future, today?

Decentralized identity for refugees



Product provenance and sustainability



SCANTRUST

Nutrition

Ingredients

Allergens

Track & Trace

More Info

Harvest Details - Peru - 2017/8

Av. Perú 430, La Merced, Peru

Shipments

To: Hong Kong, China

2017-10-29

Shanghai Customs: 118000002274937001

Ship Name: NYK LIBRA 710

Package Weight: 886 kg

From: Callao, Peru

2017-9-14

Certified Farms

Cooperativa Agraria Cafetalera La Florida

Av. Perú N 430 - 432

Pampa del Carmen

Chanchamayo Chanchamayo, Peru

EcoCert (CAC La Florida)

Valid from 2018-05-12 to 2018-05-12

MD5 Hash:

a70ca900075662fcf31a952869dfe495

Certifier Website

Please visit ecocert.com to further validate the attached certificate.

Bird Friendly Certification

Valid from 2018-05-12 to 2018-05-12

MD5 Hash:

e35023ade102deff459afed397039f93

Certifier Website

Please visit nationalzoo.si.edu to further validate the attached

Tracking Info

Link to Cert

Blockchain Hash

Your Scan

This item has been scanned 1 times

2018-06-10 15:46

Roast

Shanghai, China

2018-05-04 2:35

Harvest

Peru & China


Product Journey Overview

36

36

BIGCHAIN DB

Digital government registries



Sweden's Land Registry Demos Live Transaction on a Blockchain

264

f g+ in 1

Christine Kim Jun 15, 2018 at 16:05 UTC

NEWS

Get back control over your data

Stay tuned for updates...



Art. 20 GDPR

Right to data portability

1. The data subject shall have the right to receive the personal data concerning him or her, which he or she has provided to a controller, in a structured, commonly used and machine-readable format and have the right to transmit those data to another controller without hindrance from the controller to which the personal data have been provided, where:

Art. 17 GDPR

Right to erasure ('right to be forgotten')

1. The data subject shall have the right to obtain from the controller the erasure of personal data concerning him or her without undue delay and the controller shall have the obligation to erase personal data without undue delay where one of the following grounds applies:

Conclusion: we are on a long journey, but there is a path forward



Thank you!

Please

**Remember to
rate this session**

Thank you!

