

Blockchain in de praktijk

UPDATE – Van Hype naar ...

18 april 2018, Seminar Robotic accounting GBNED

Martin de Bie, adviseur innovatie

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MEER DAN CIJFERS

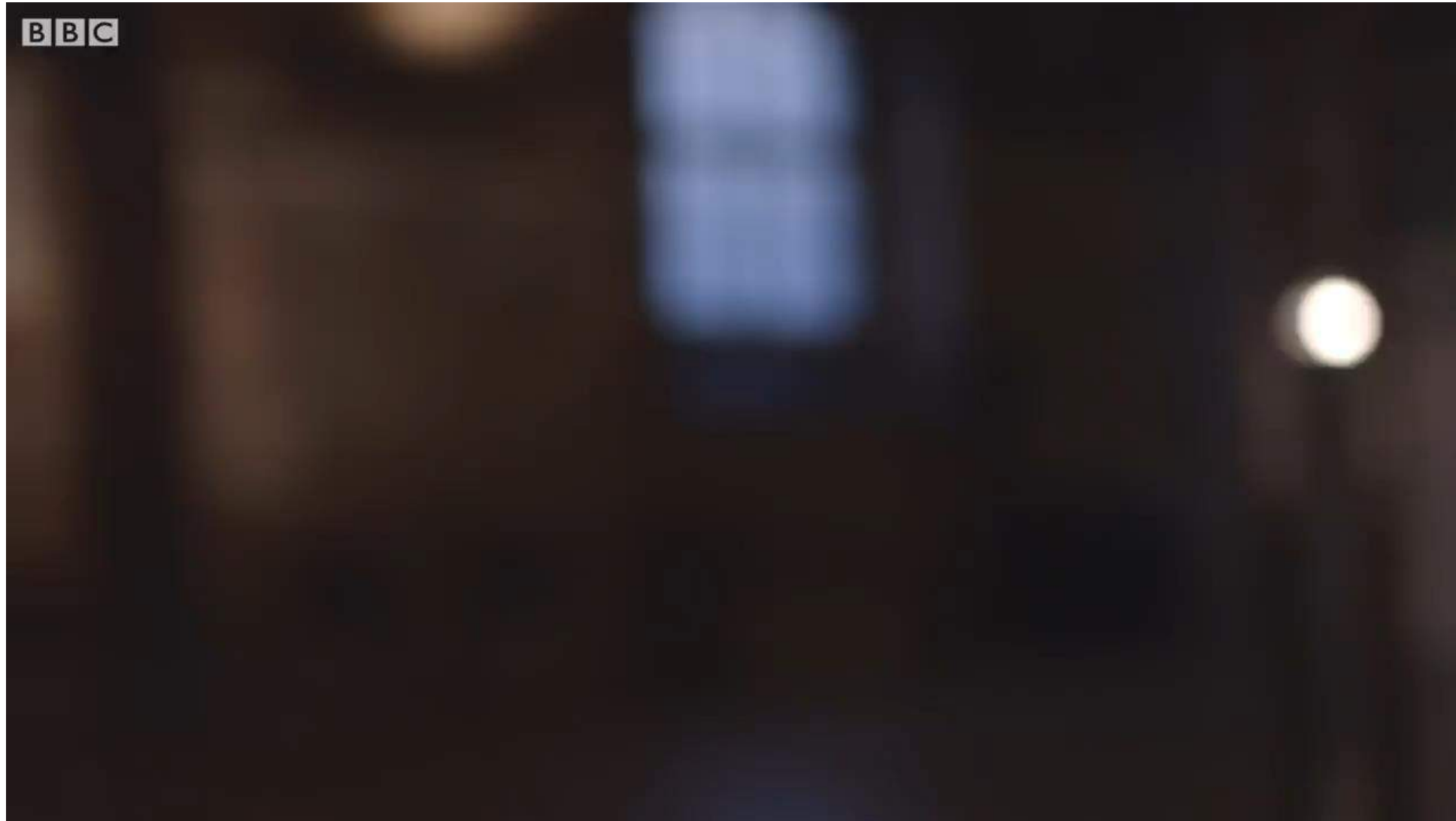
De Hype



De gekte rondom cryptocurrency in 3min37



Cryptocurrency in de Praktijk in 2min21 ?



Crowdfunding NEW STYLE....

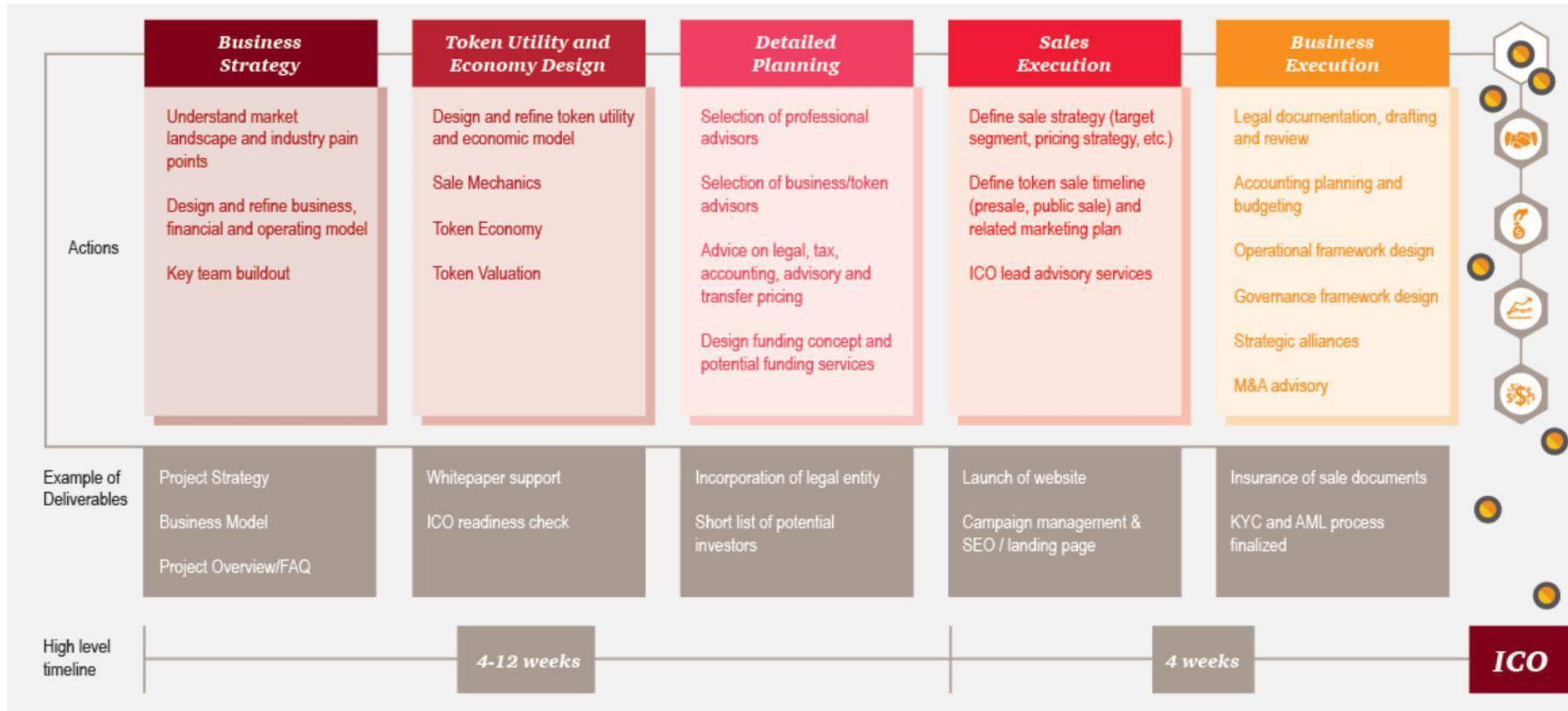




What are ICOs?

Initial coin offerings (ICOs) are a means of raising capital using the blockchain technology. On the side of the issuer, the collected funds are typically used to finance a project (e.g. the building of a software).

In exchange for the financing, the investor receives a token which may be connected with the right to receive, e.g. a dividend, a voting right, a license, a property right or a right to participate in the future performance of the issuer.



De hype... ICO (Initial Coin Offering) als crowd funding




Token Sales: Number of Sales and Amount Raised



Source: Smith + Crown analysis. Includes all sales that raised over \$25,000 USD and did not return funds to investors according to exchange rates on the day the sale closed. Some sales from August 2017 have not confirmed the total amount raised.

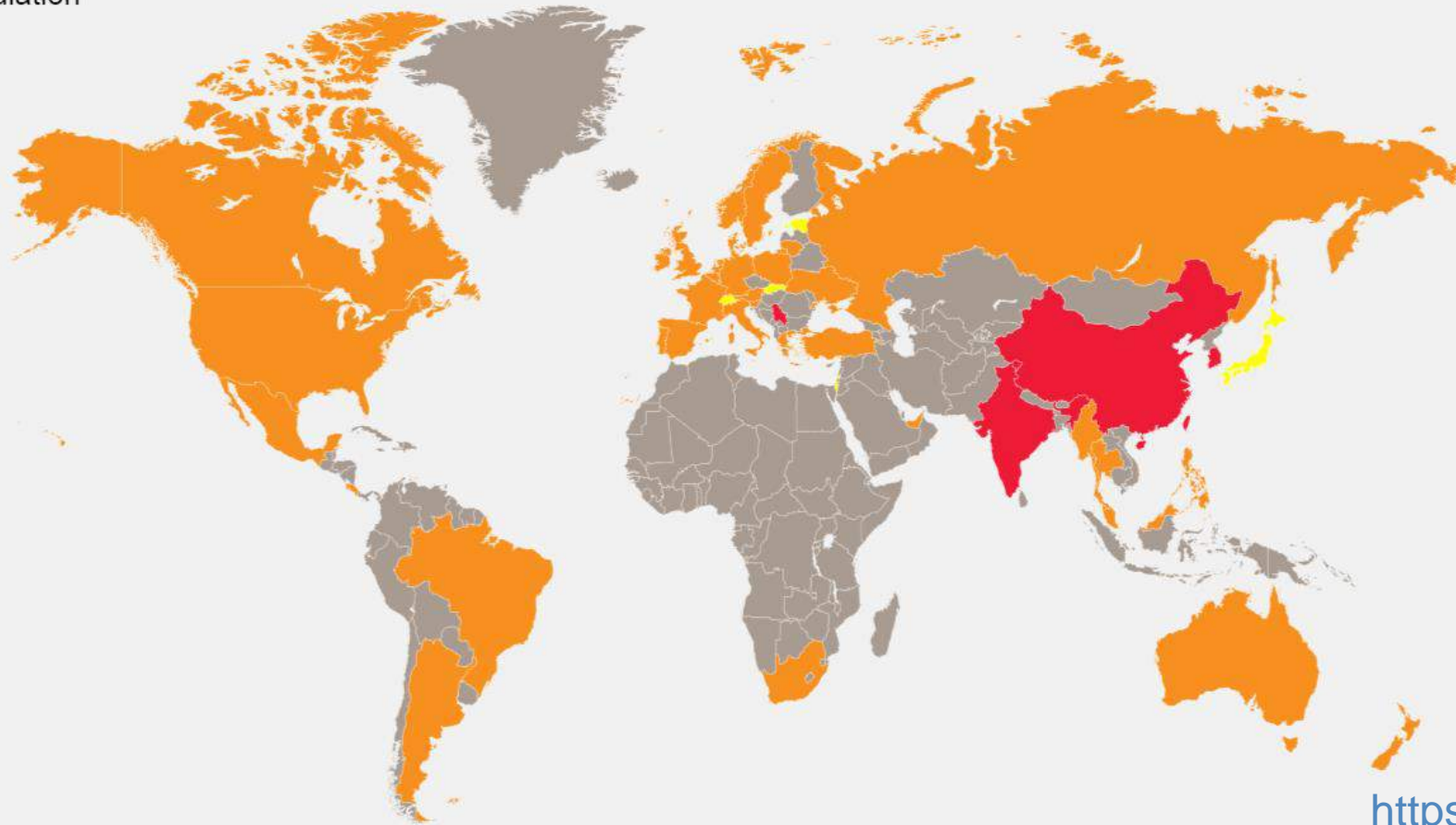
PwC Global ICO Compass

Treatment of ICOs worldwide

-  Favorable regulation
-  Wary/existing regulation
-  Ban of ICOs

Continent

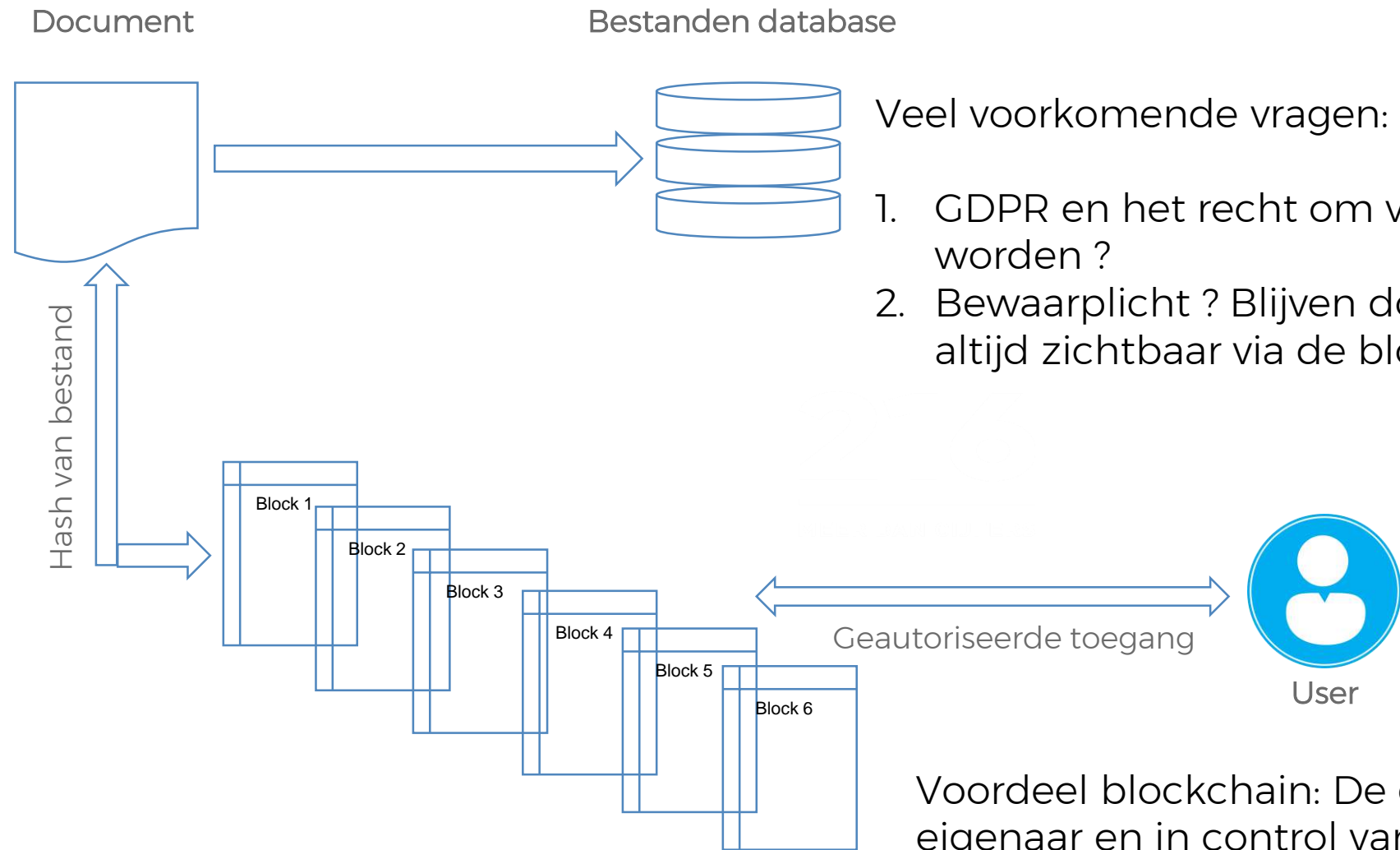
Country

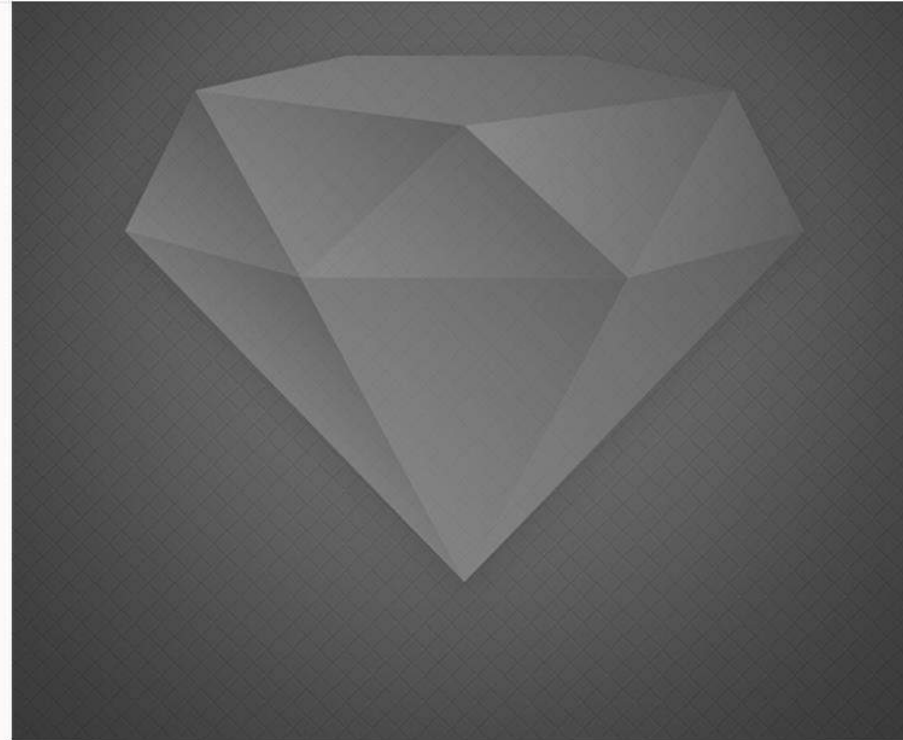


Documenten en blockchain



Bestanden opslaan op de blockchain ?

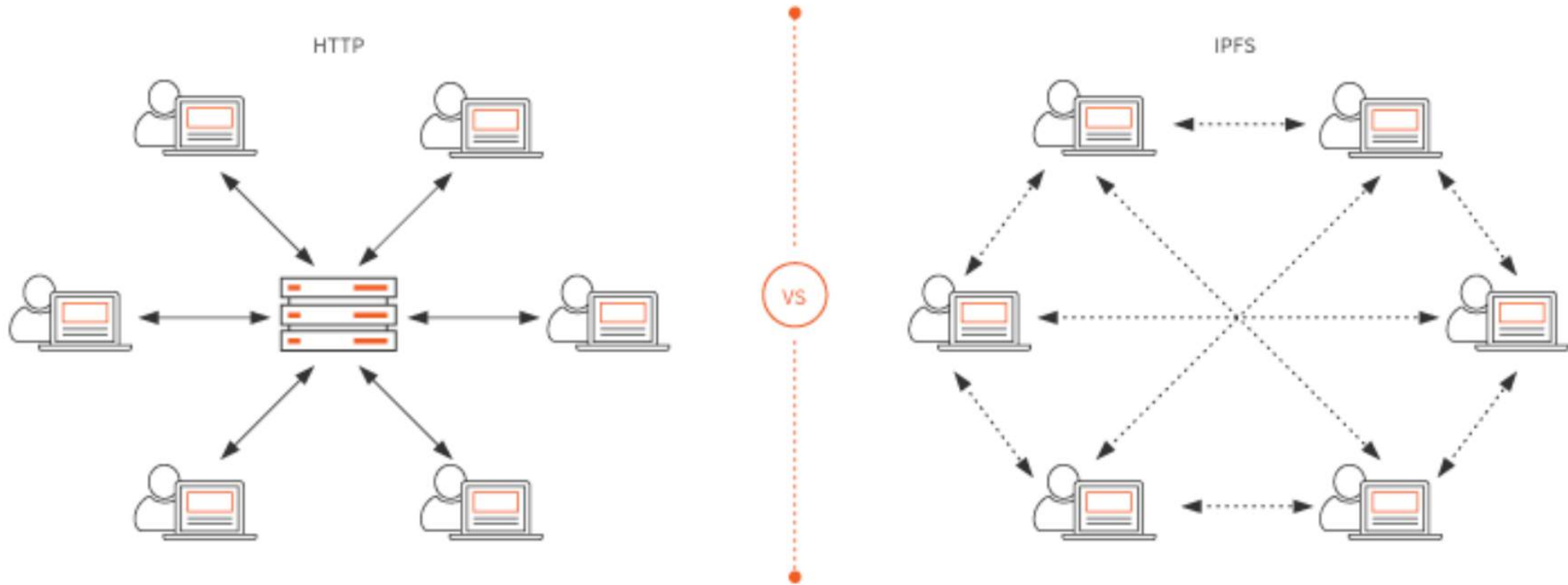




Log de ondertekening in LegalSignings's BlockChain

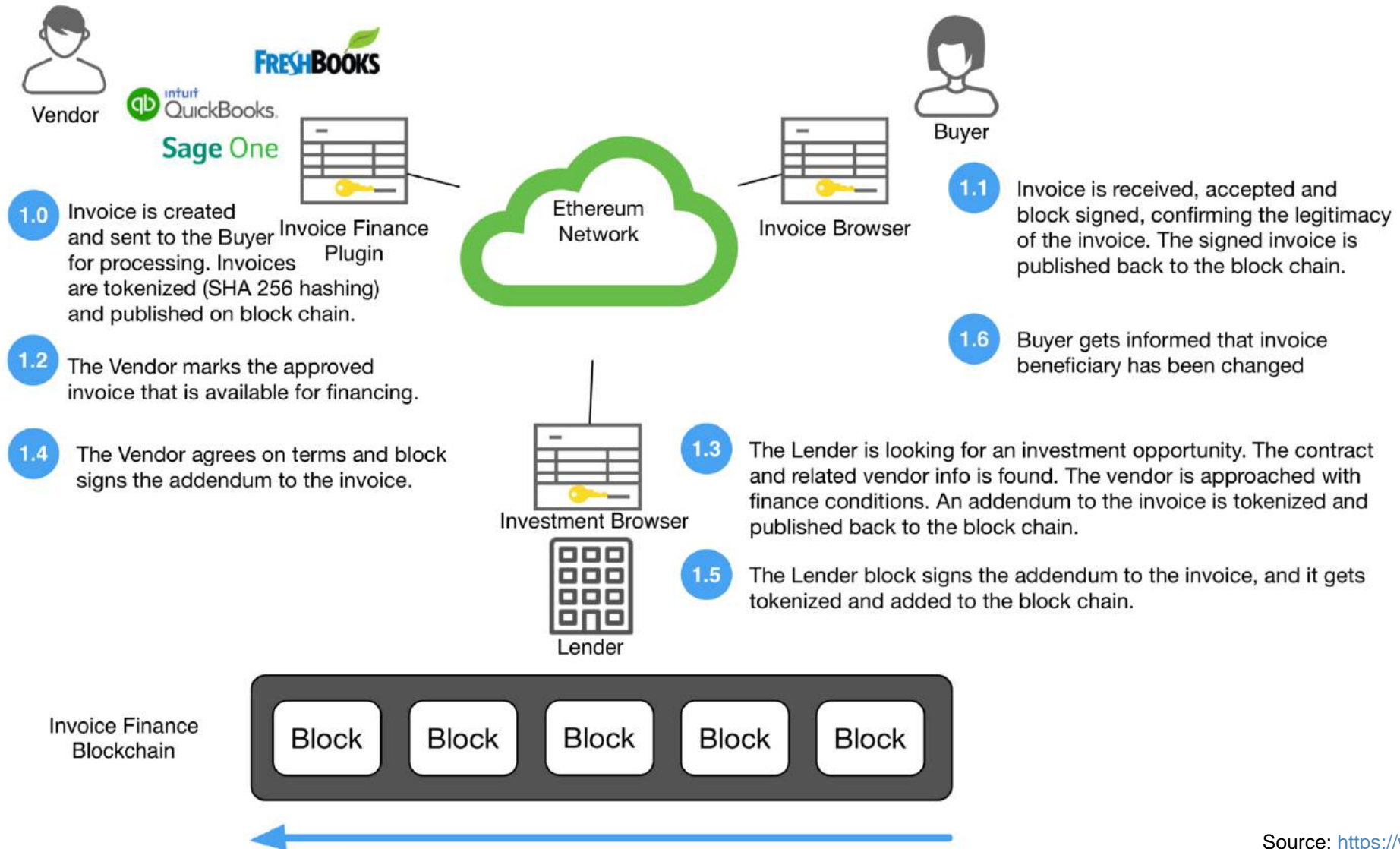
Alle metadata wordt automatisch gelogd in de BlockChain. Op deze manier realiseert u het niveau van veiligheid(of security) die past bij uw praktijk

IPFS/Swarm en de toekomst van data opslag & delen



Financiering “werkkapitaal”





Partnership model

- 9 banks across Europe joined forces to co-create a DLT solution facilitating trade
- Building a platform together with IBM on Hyperledger Fabric – end of building phase approaching
- Established a Joint Venture Company around a cutting-edge technology
- Developed a concept to allow other banks to participate
- Go live in 11 countries: Summer 2018



Issues in International Open Trade

A Catch 22 – The risk of advanced payment and shipment

- Today, access of companies to international trade is limited and involves high risk
- Companies face a trade-off between bearing the risk, purchasing complex/expensive coverage or turning down business opportunities
- This hampers expansion and puts a cap on international trade

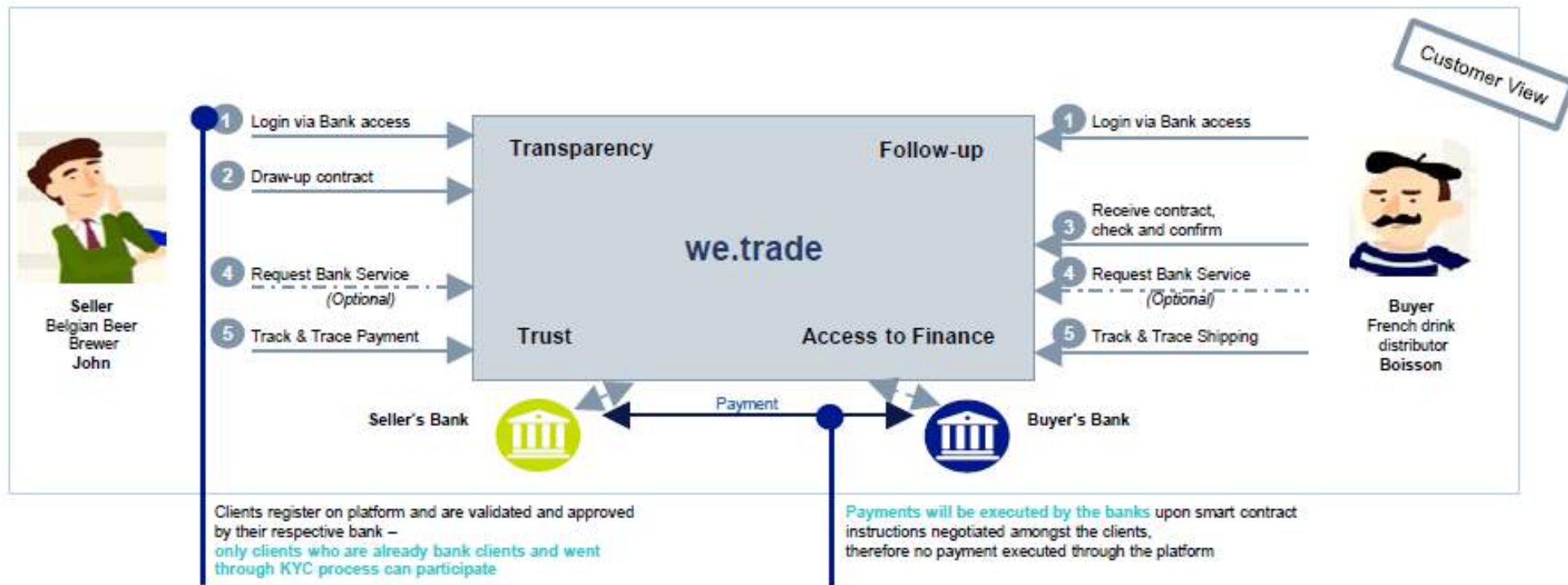


Trust

Financing

Services for Companies - continued

- One single platform: enables transparency and constant follow-up at each stage of the lifecycle
- Verified customers: buyer and seller have been verified by their respective bank
- Legal framework: increased security



Dashboard

Seller | Buyer
Seller's bank | Buyer's bank

14

New trade requests

Review your new trade requests

Details >

3

Amendments

Review your amended trade requests

Details >

18

Awaiting shipment

Orders ready to ship

Details >

5

Incoming payments

New payments received

Details >



Activities

- 03:55 PM **AJ#265126**
You have a received payment from counterparty
- 04:12 PM **PO#757124**
Invoice discounting is approved by your bank
- 04:20 PM **080-9982613**
Counterparty has amended the trade details
- 05:03 PM **PO#651934**
Your order has shipped to counterparty
- 05:30 PM **102-765131**
Trade request has been accepted

Audit



Over \$10 Billion of
Cryptocurrency changes hands
each day, with no framework
for proper tracking,
reconciliation, or reporting.



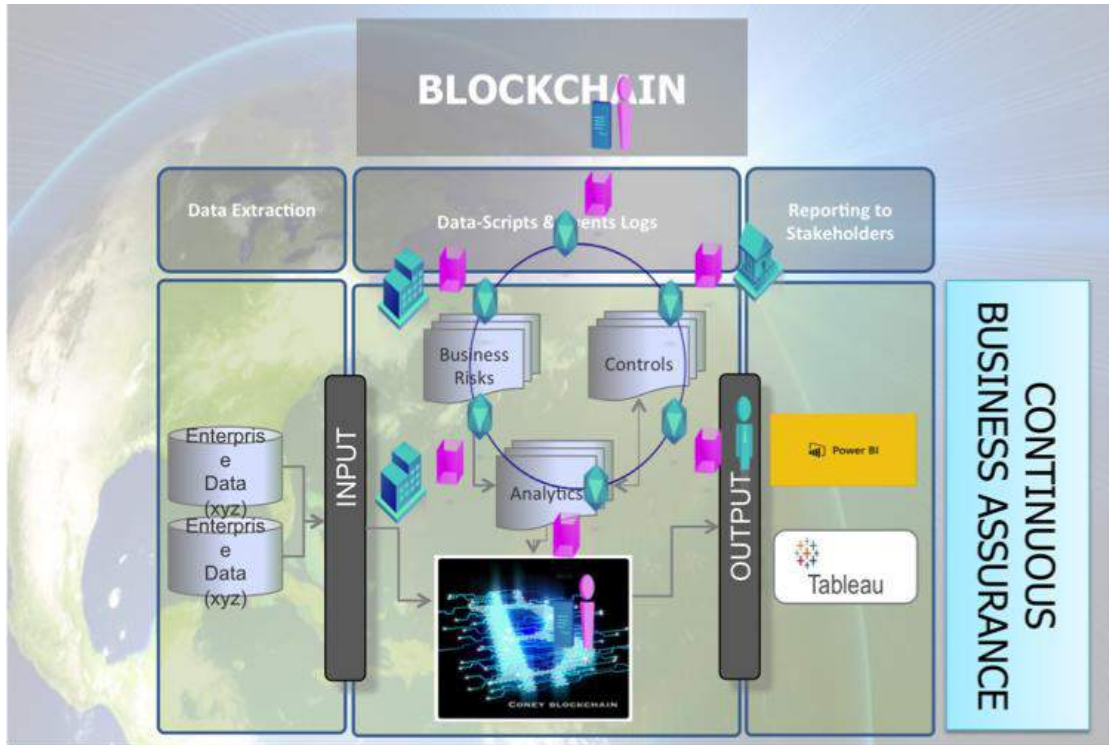
Global regulatory uncertainty
demands a flexible and
transparent solution.


```
init
  note: Simple Bet v2
  note: Mitch bets Jack that BTC will be over $2000 by Dec 5, 2014
  note: This "init" code runs one time only when the contract is first created
  note: These addresses are fake but you can see the format
  in save slot Mitch put 0xf4b7cc7faa866a2275972317598e7d936cfc9adc
  in save slot Jack put 0x52c5535efae9bd86e04c627aa5c716a392358c5e

body
  note: Grabbing outside data like the BTC price will be available eventually...
  note: ...by asking a "data feed" contract once the ecosystem evolves.
  note: Until then, we can take the data supplied to the contract as the BTC price.
  note: We use a temp slot here since we don't need to store it between runs.
  in temp slot BTC put 1st input
  note: We can use an 'OR' block here to avoid duplicating the code for each person
  when
    contract caller = data at save slot Mitch
    or
    contract caller = data at save slot Jack
  then
    note: block.timestamp will be seconds elapsed since 1970 GMT.
    note: So for 12/04/2015 that's 1449187200
    when
      block timestamp > 1449187200
    then
      if
        data at temp slot BTC > 2000
      then
        note: If BTC is over 2000 pay off Mitch
        spend contract balance to data at save slot Mitch
      else
        note: Otherwise it must not be over 2000 so pay off Jack
        spend contract balance to data at save slot Jack
  note: We don't need explicit "stop" blocks since contract will stop when it reaches the end.
```



Blockchain en audit



- Welke stappen moeten we ondernemen om concreet de blockchaintechnologie in te zetten op het vraagstuk van continuous business assurance?
- Hoe richten we deze audits in? Welke zekerheid zoekt de markt? Hoe werkt het interne beheersingsraamwerk? Welke risico's gaan we toetsten? Welke assurance gaan we afgeven?
- Welke kennis moeten we opbouwen en welke snijvlakken zijn er met data-analyse en process mining?
- Kan in een gedecentraliseerde grootboekomgeving nog wel assurance over één vennootschap worden afgegeven, of alleen over een keten van bedrijven aangesloten op een gedecentraliseerd netwerk?

VeraNet

ONLY FOR U.S.A

VeraNet is a decentralized network of financial reporting and accounting tools, targeted exclusively to the unique needs of the cryptocurrency community. The VeraNet platform is the natural extension of the tried and tested audit work the Verady team has been performing for over four years with industry leaders.

The Verady team has ambitious plans for building out the VeraNet platform in the coming months. Read below for a snapshot of our current roadmap.

**PKI certificaat
straks nog nodig?**



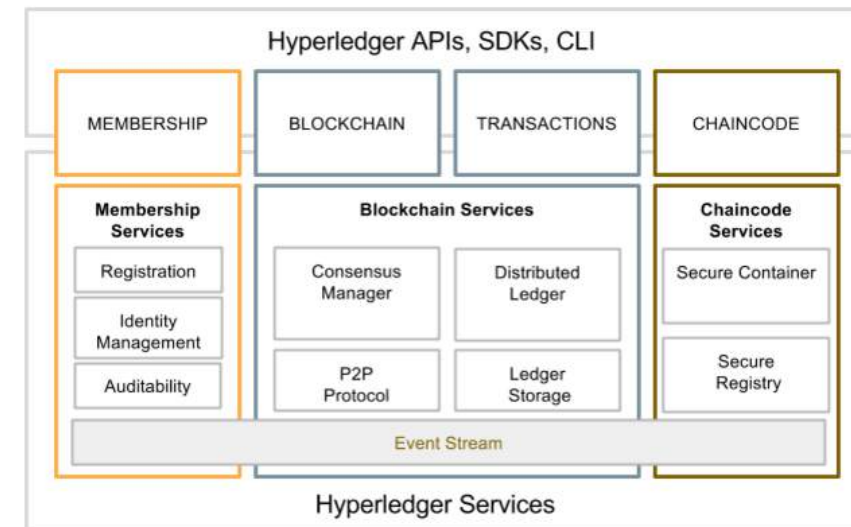
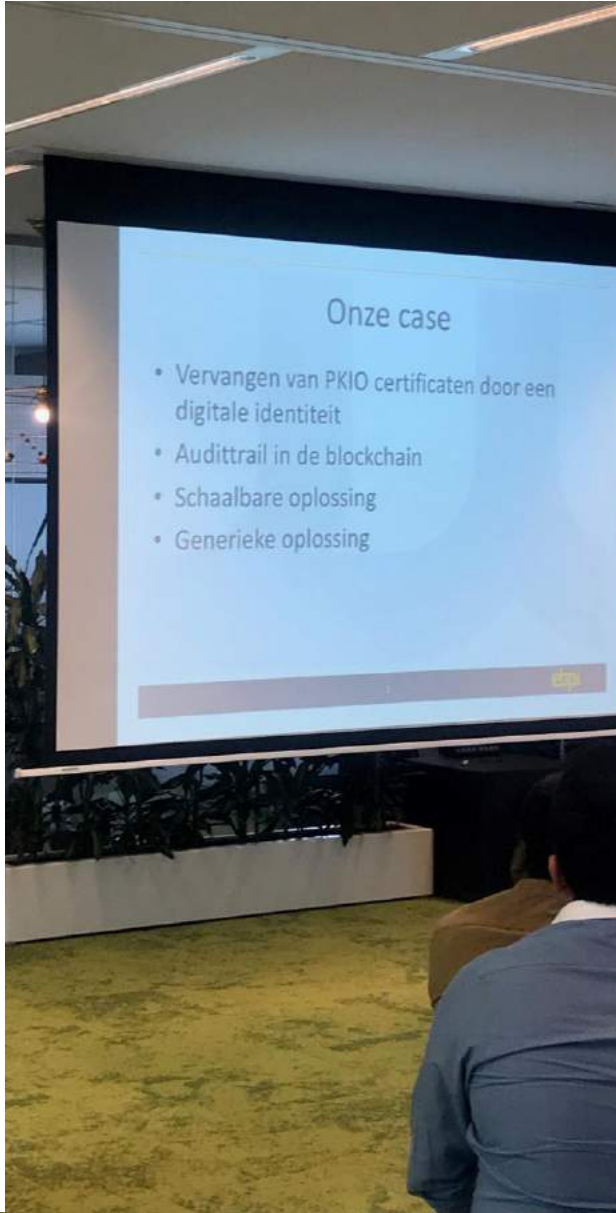


Figure 2: Hyperledger reference architecture

Blockchain en EU court of auditors...



Blockchain for audit and to Looking into ... **audit**

... as part of our technology watch activity (ECALab)

To audit:

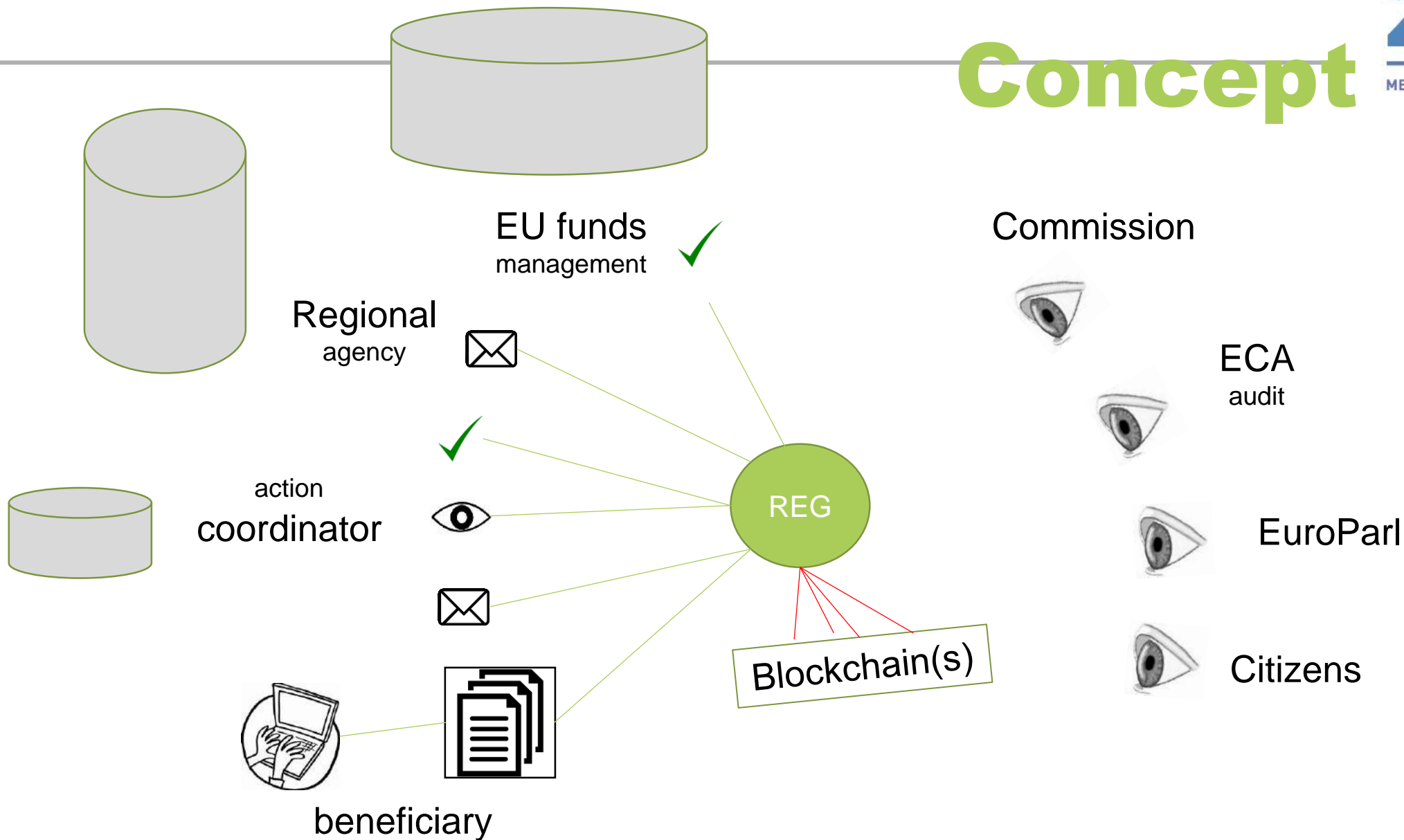
Blockchain-based financial services can reshape the way actors deal with financial transactions and contracts.

Use for audit:

Immutable registries can change the way evidence is recorded and verified (**control by design**). They can enable fully digital audits.

PoC
Proof of Concept

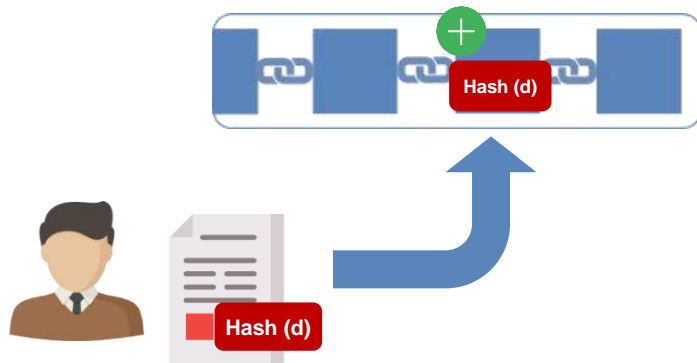
Concept



How could REG help audit?

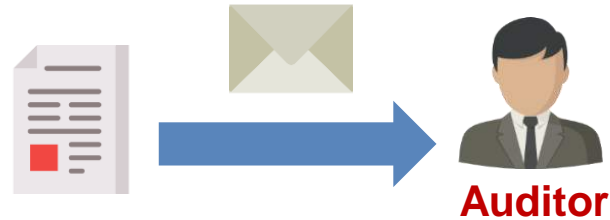
REG

- 1 The **originator** of a document stores its unique digital footprint, i.e. the hash, in a blockchain.

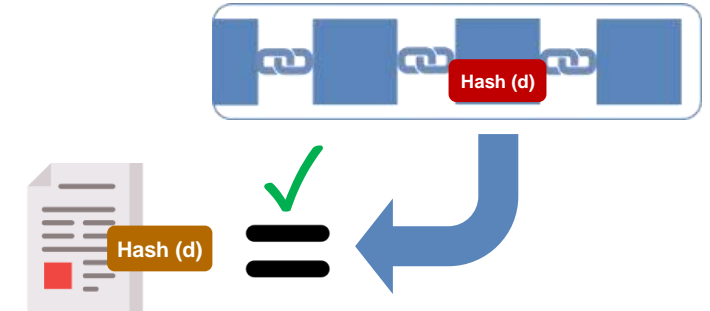


The blockchain acts as a **notarisation** service.

- 2 At a later stage, an auditor receives an **electronic copy** of the same document from an auditee or another source



- 3 The auditor independently generates the document's hash and compares it with the "original" stored in the blockchain



If the two match, the document is **authentic** and has **not been tampered with**

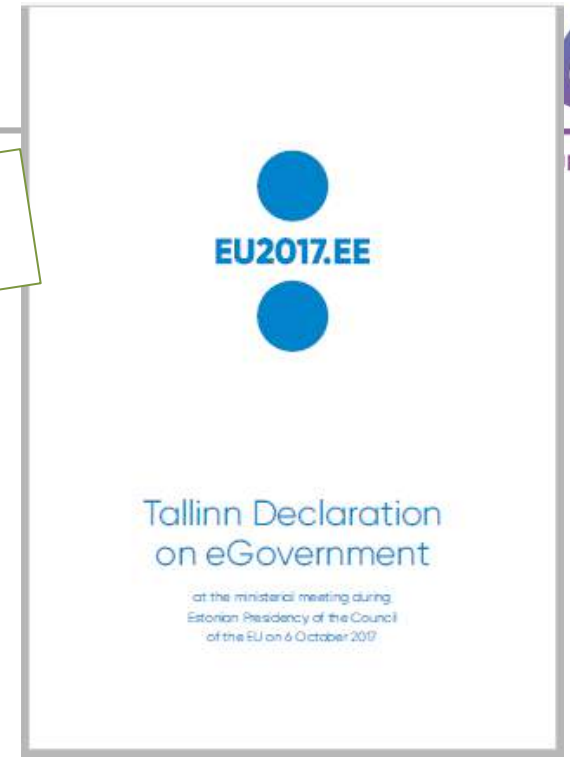
Benefits



Policy action lines

6. Horizontal enabling policy steps

1. Digital by default
2. Once only
3. Trustworthiness and Security
4. Openness and transparency
5. Interoperability by default



Blockchain en gezondheidszorg



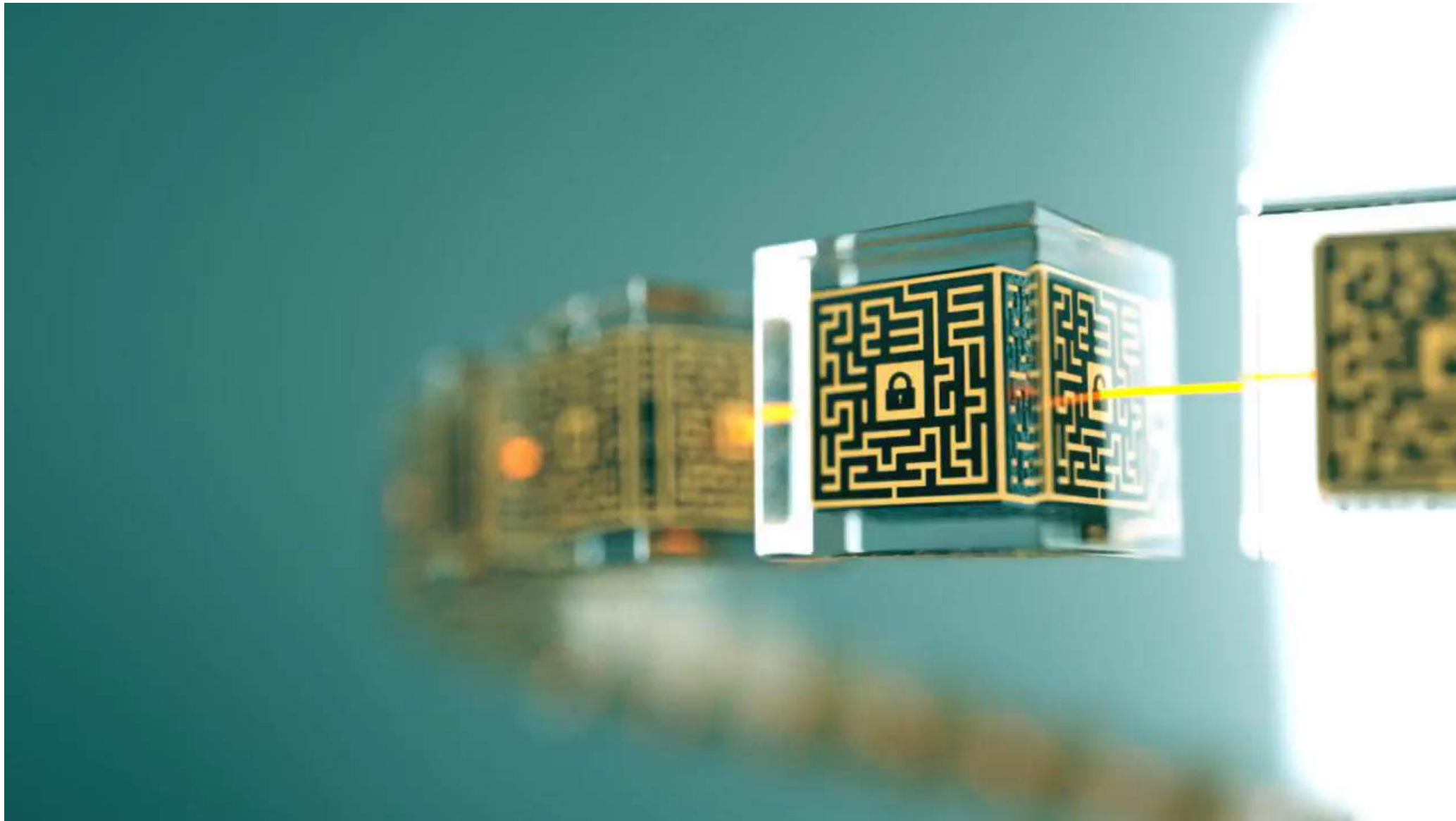


Helder, eenduidig & efficiënt

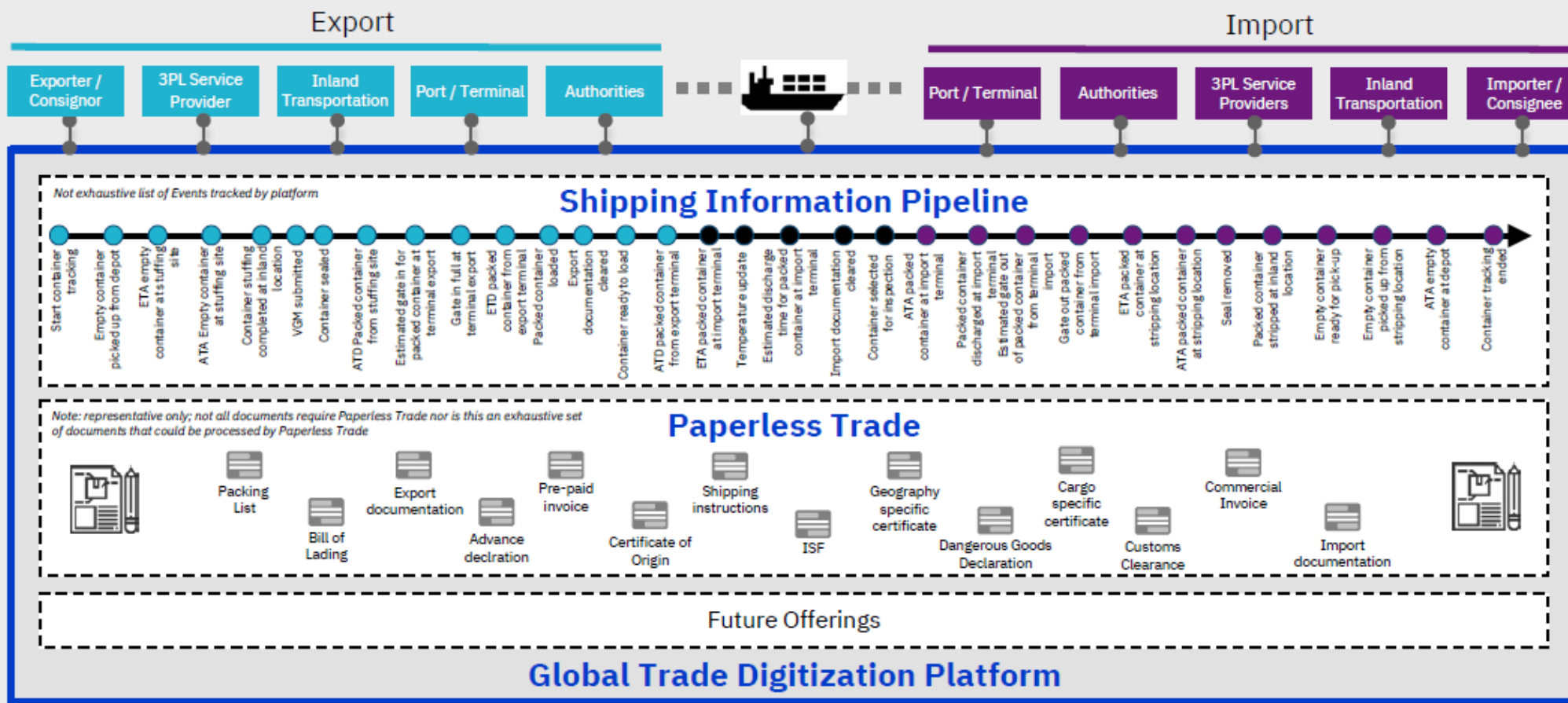
De blockchain in de Kraamzorg.

Blockchain in de logistieke keten

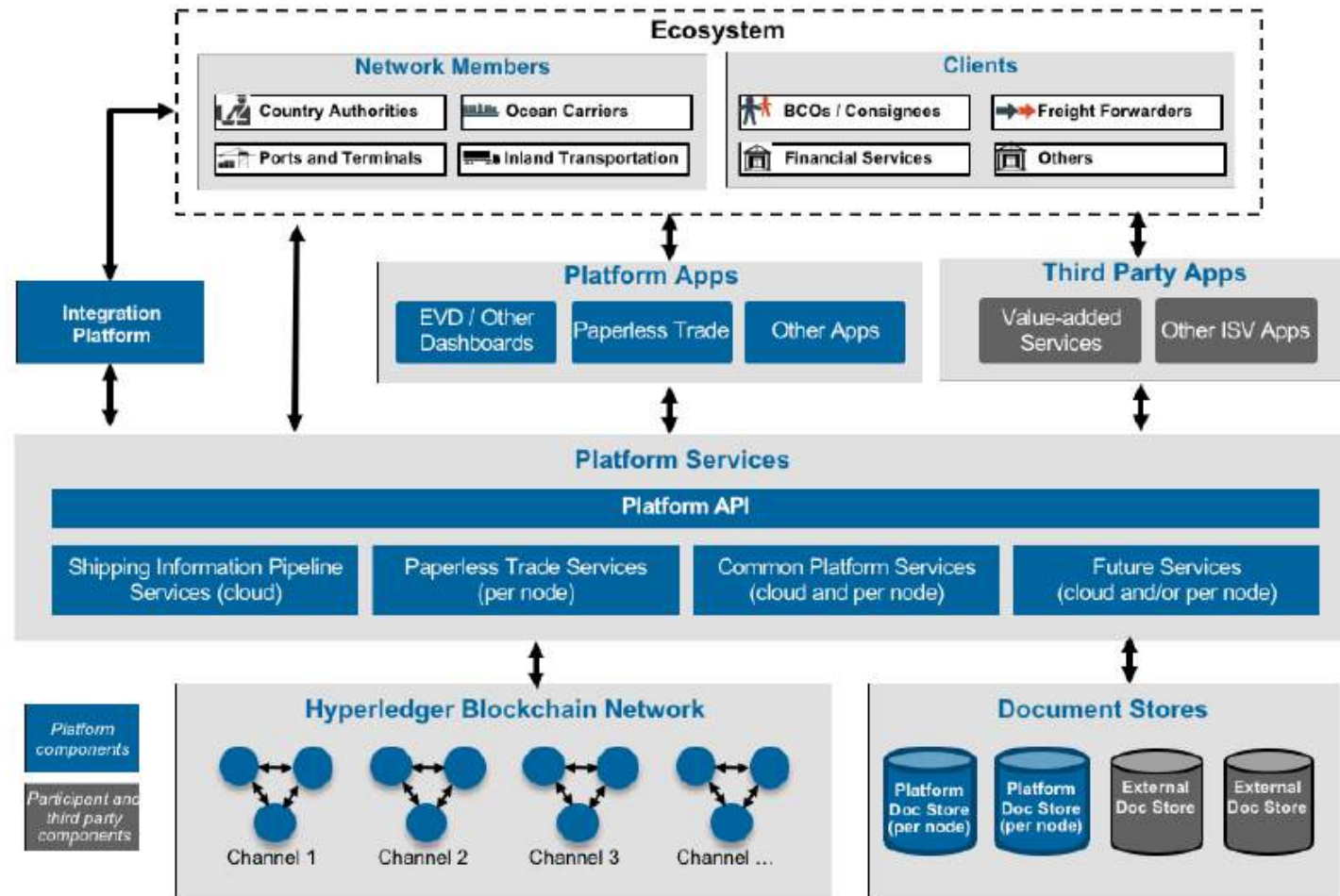




Bringing to market a global trade platform for containerized shipping connecting the entire supply chain ecosystem



Solution architecture



Van Apps naar dApps



Van Apps naar Dapps

@SuperCryptoNews

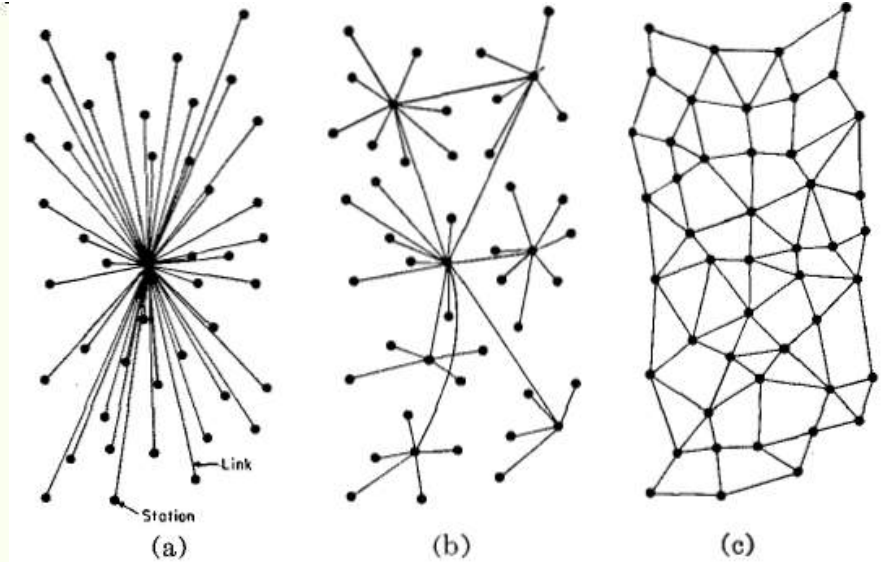
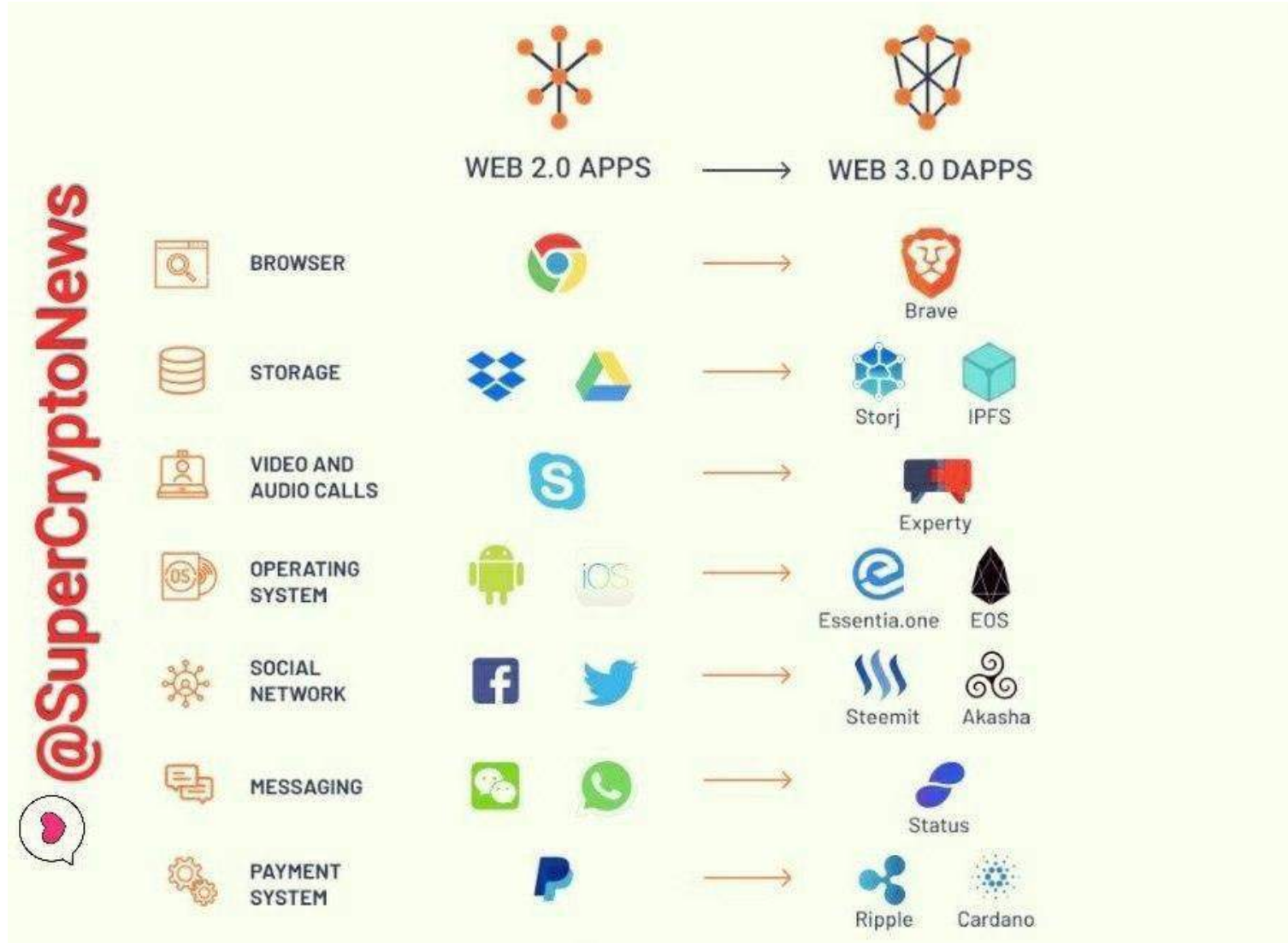
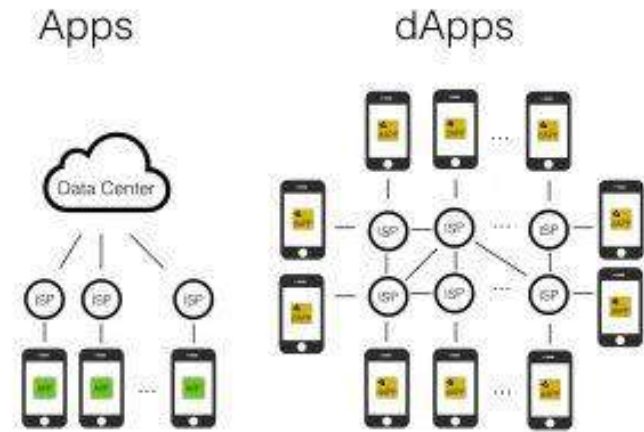


Fig. 1—(a) Centralized. (b) Decentralized. (c) Distributed networks.



Facebook data leak affects 87 million users

By **Euronews** [Follow @euronews](#) last updated: 05/04/2018



THE SOCIALL CLOSED BETA IS LIVE

Join the closed beta



 Sociall Whitepaper

 social.

sociall is a secure and private decentralised social network for all



LEARN MORE



Save the date
June 20 #N4A





Work That Will Really Pay Off

By becoming an ABC member and contributing to one of our four Working Groups, you will have the opportunity to tackle issues and concerns related to your specific industry. Through collaboration and a shared sense of responsibility, our intent is to develop industry wide best practices in areas including:

- Regulatory Compliance
- Auditing/Accounting
- Taxation
- Internal Controls

Working Groups are the perfect way for both you and your organization to have both knowledge and access to the latest developments within the Accounting Industry as a whole.

Kunnen wij als accountancy branche dit ook opzetten in Nederland, zoals onze Amerikaanse college's dit doen? Laten we dit bespreken op 20 juni a.s. !

Participeer nu al mee in deze ontwikkeling en meld je aan bij Mobilize, zie URL hieronder.

C4ACC

Groups Chat

#C4ACC community

#N4A Blockchain and Acco...

Create new group

#N4A Blockchain and Accounting community
n4a@groups.mobilize.io

Feed Members Events Files

Pre-registration: N4A Blockchain and Accounting

Organized by

June 20th, 4:00PM - 9:00PM

Amsterdam (location will be announced soon)

Going Maybe I'll pass

Manage Event

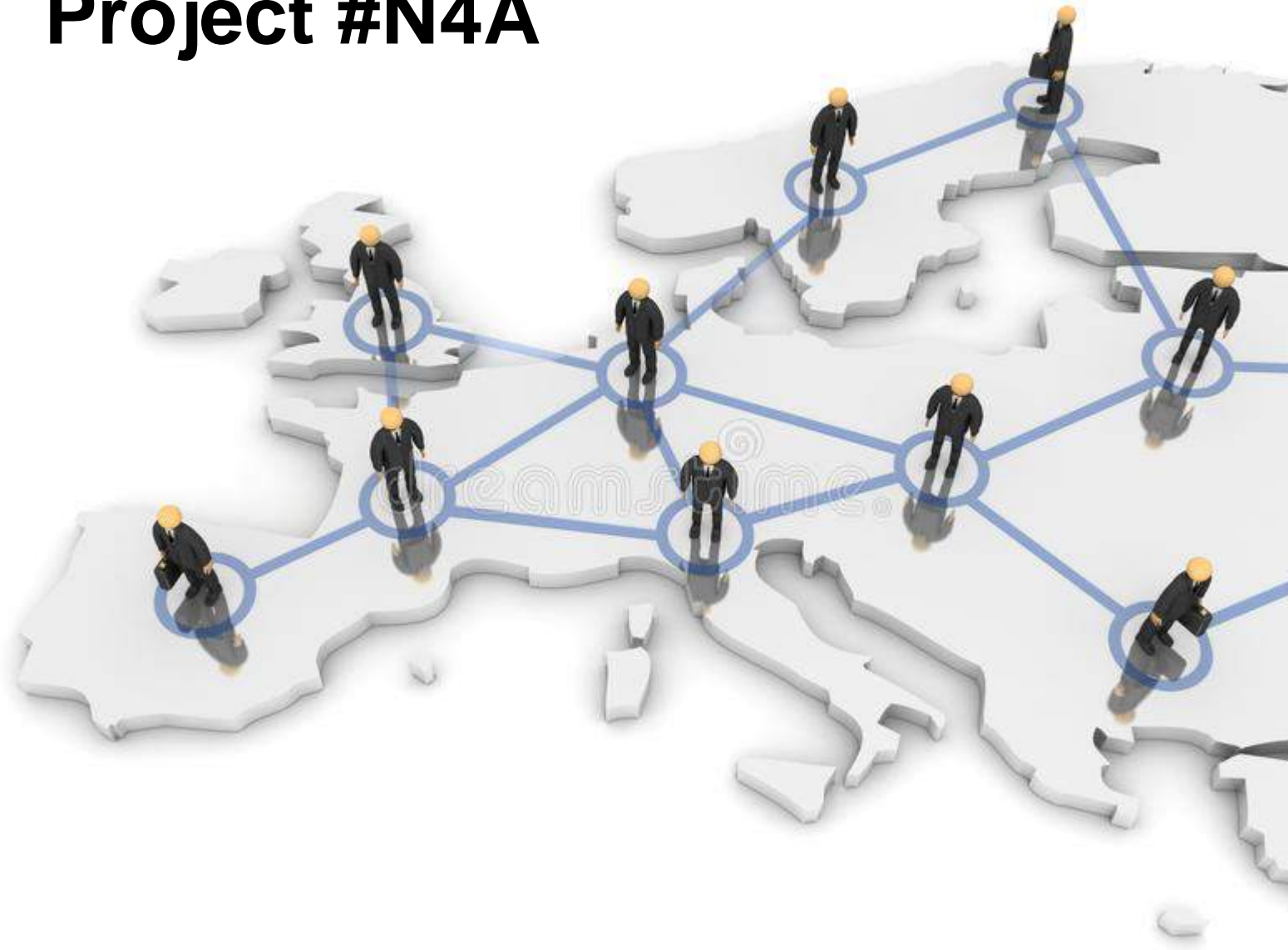
On Sunday March 18th I've posted on LinkedIn and Twitter an idea to setup an event for blockchain and accounting if enough people in the accounting industry were interested. After 5 days with more then 10k views and many messages later it's really going to happen....

On June 20 a meetup will be held for accountants about blockchain and accounting. What is the impact of this technology on their business now and the future. With demonstration(s), presentations and debates with panel members we hope to update the industry. Are you ready for the future? Topics like tax, audit and much more.

Important feedback I received on the posting of March 18th:

Partners:

Project #N4A



What if wij als beroepsgroep via nodes een sterk private blockchain network opzetten, zoals nu actief is in healthcare. What if wij applicaties kunnen ontsluiten en als trusted advisor een belangrijke schakel in de keten kunnen blijven hierdoor.

Praat mee op 20 juni a.s. !

Dank voor uw aandacht

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MEER DAN CIJFERS