

The logo features the words "BLOCKCHAIN" and "HELIX" in a stylized font. "BLOCKCHAIN" is in a bold, lime green, sans-serif font, while "HELIX" is in a white, serif font. The text is set against a dark blue background with a complex, glowing network of white nodes and lines that form a helix shape. The overall aesthetic is futuristic and digital.

BLOCKCHAIN

HELIX

Trusted Digital Identity Oliver Naegele
Founder & CEO

Why Blockchain?

01 Digital Identity

KYC, eGov, IAM, Platform



02 Entertain

Gaming, Shopping, Porn



04 Industry

Supply Chain, PPS, Airlines



03 Financial Services

Payment, Trading, Banking



The 4 Steps to Blockchain Technology

Digital Identity
Trusted Accounts



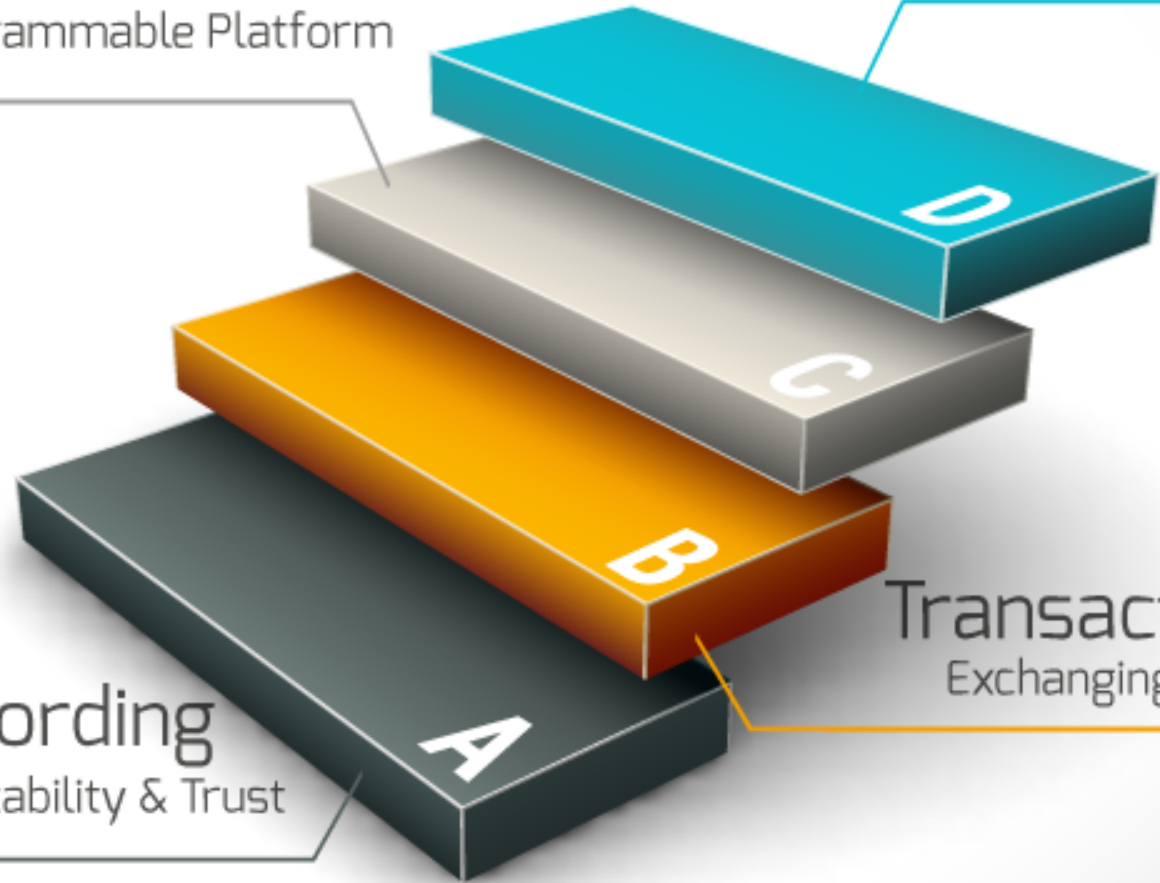
Smart Contracts
Programmable Platform

DAO & HELIX
Interoperability &
Virtual Organisations

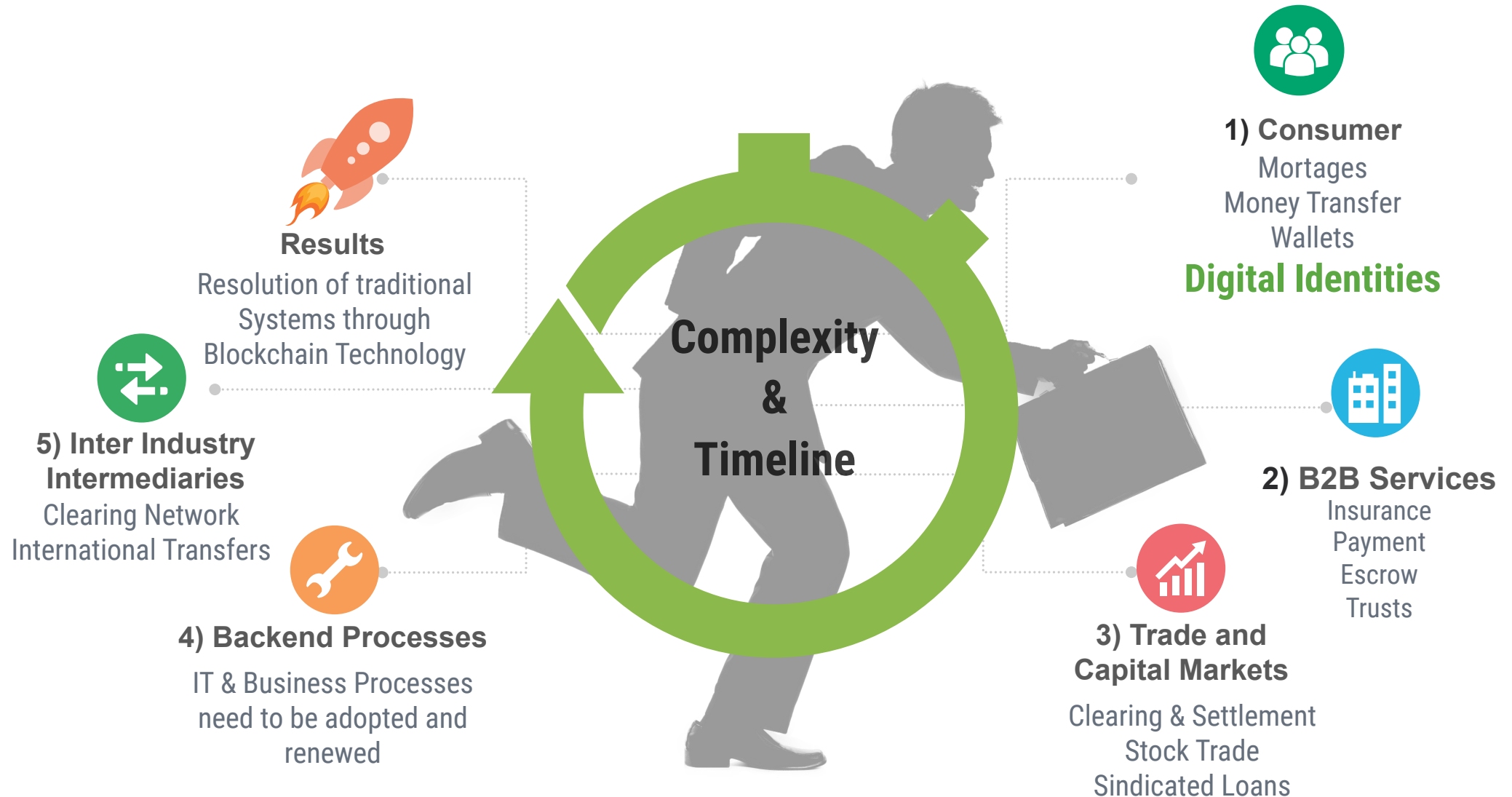


Recording
Immutability & Trust

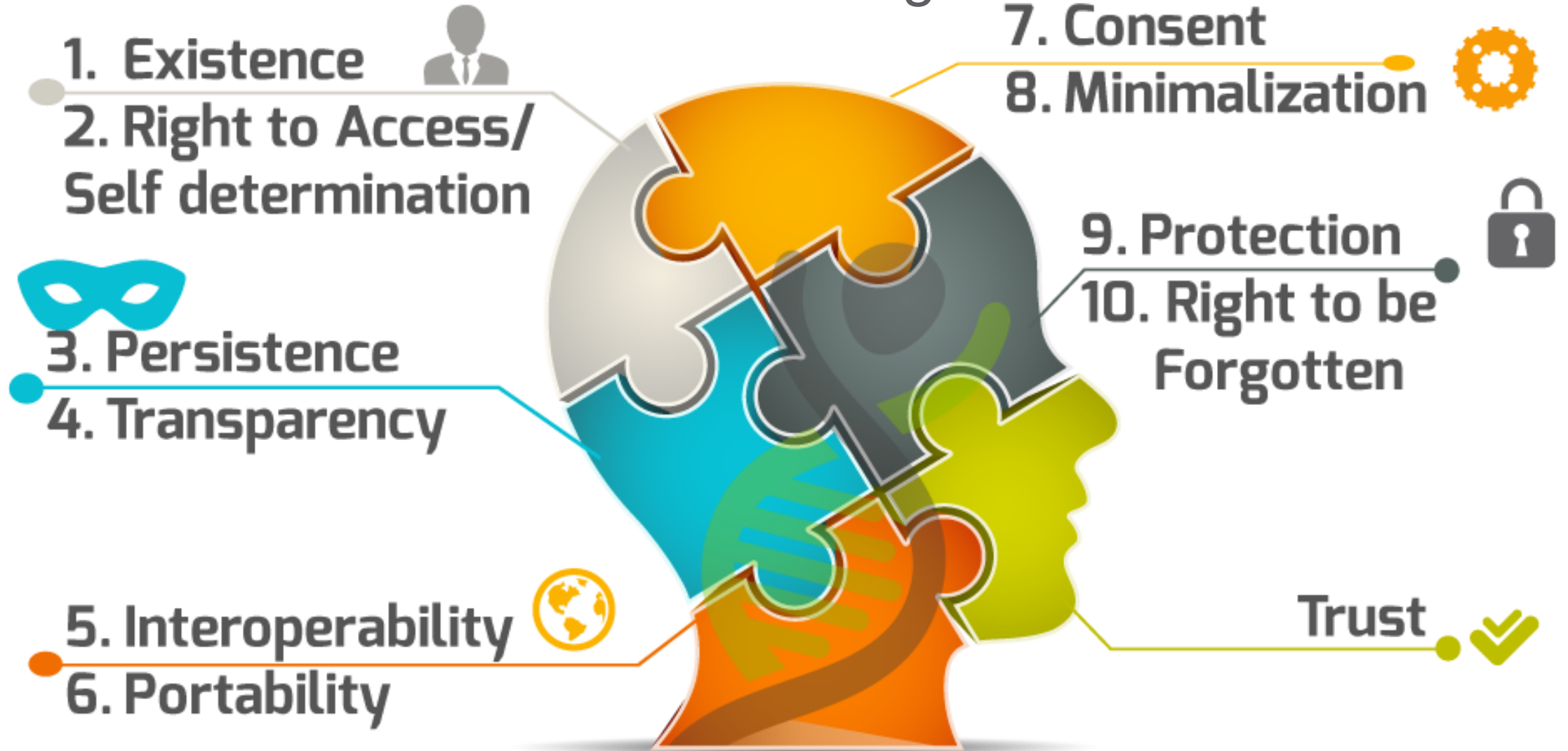
Transactions
Exchanging Assets



Blockchain – Introduction in financial markets



10 commandments of Digital Identities



Digital Identity for a worldwide Trust Network

KYC & Identify yourself

Win-Win situation for Business & private users

Distributed

Run on our Trust Provider Network

Privacy by design

User has full control over his privacy

01

02 02

03

Prime-Identity

Platform for Sub Identities like IoT, Healthcare, Smart Home, eCommerce, Banking

06

Security by design

High secure independent Validation App

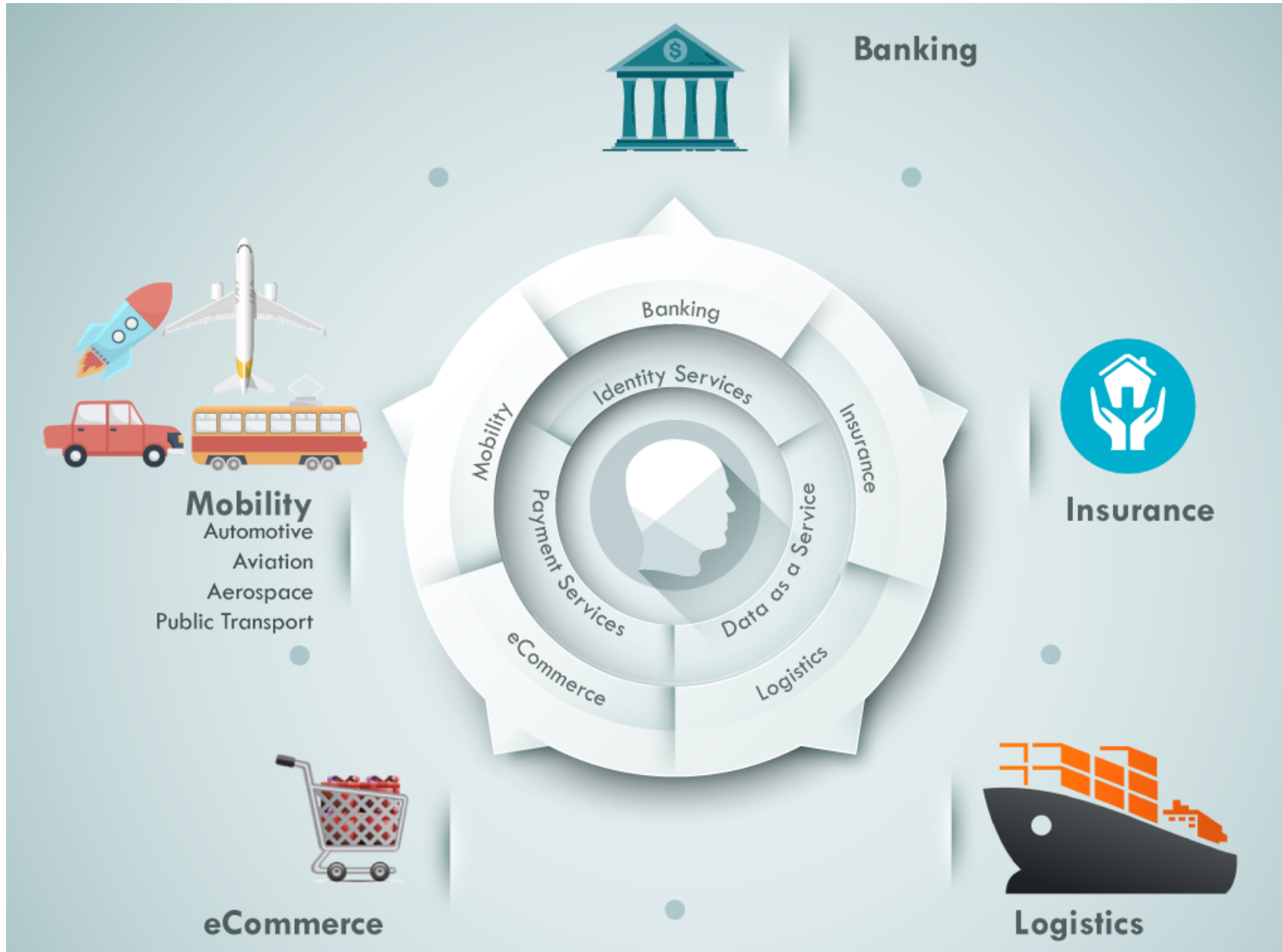
04

05 05

Trust

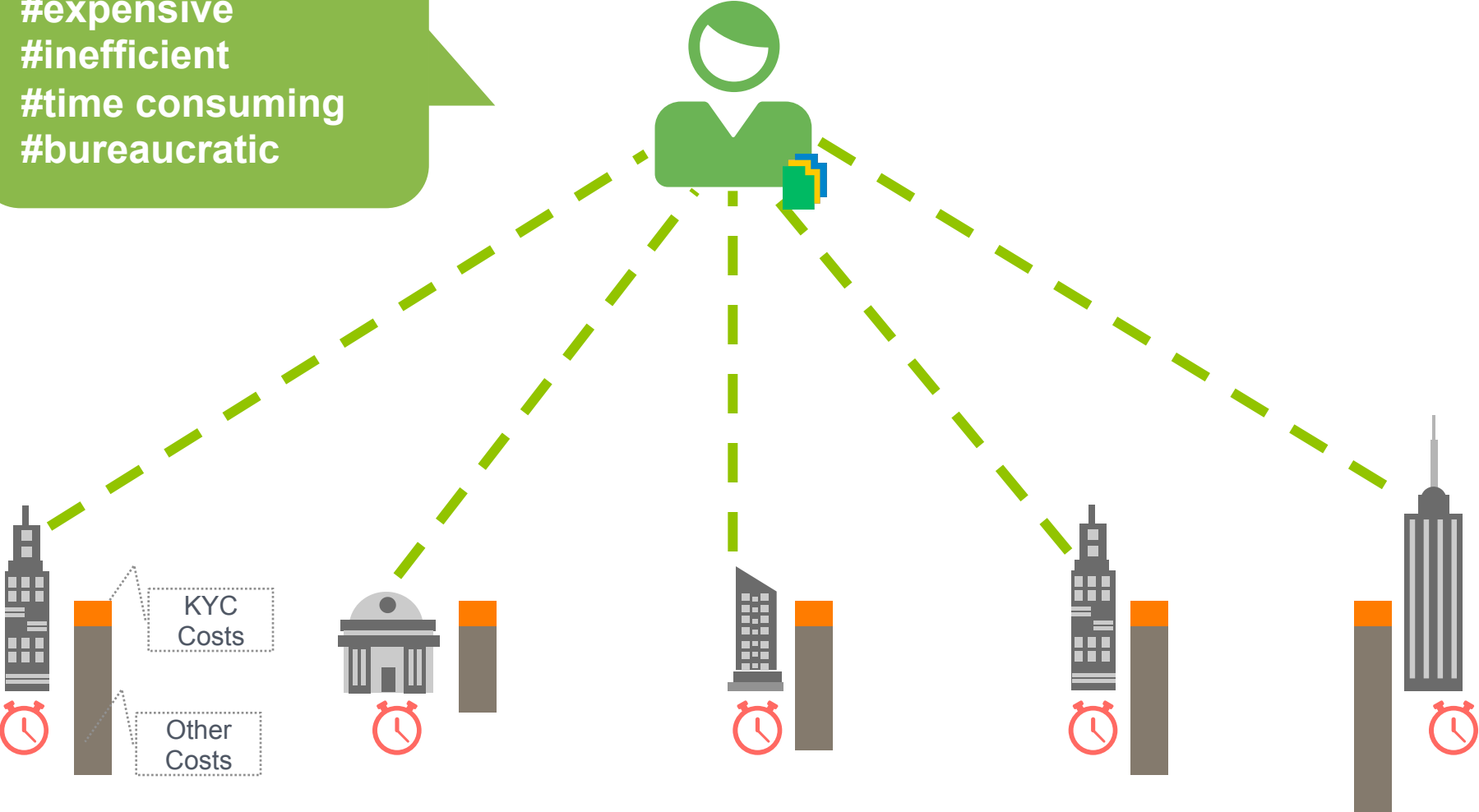
Giving Trust to Identities with our Trust Provider Partners

Cross Industry Solution



Know Your Client

#expensive
#inefficient
#time consuming
#bureaucratic

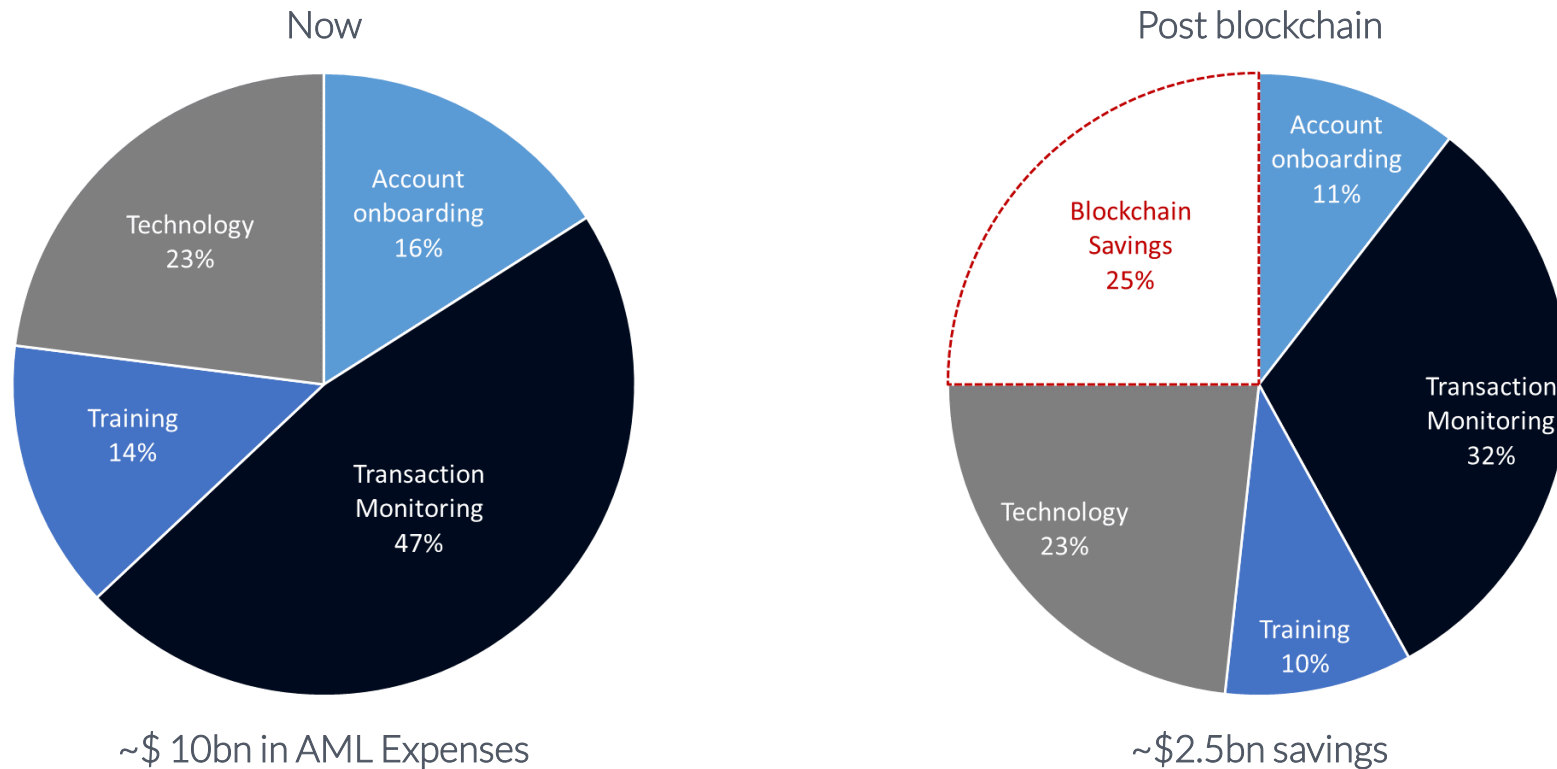


KYC Phases



KYC operating costs: headcount burden

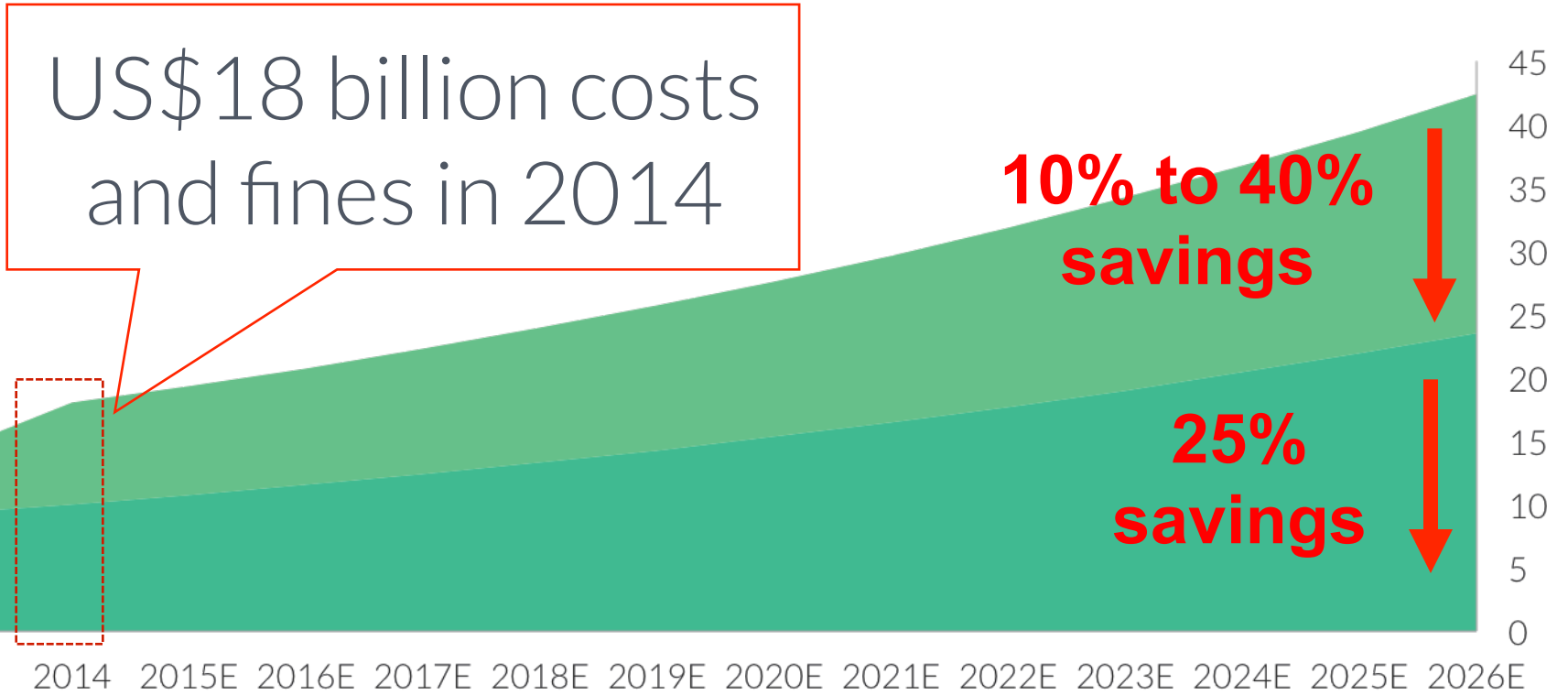
The activities that require most of the resources are onboarding, the first due to the fact that the data are usually scrutinized by analysts. The second because the suspicious transactions (estimated as from 2% to 5%) need to be manually checked.



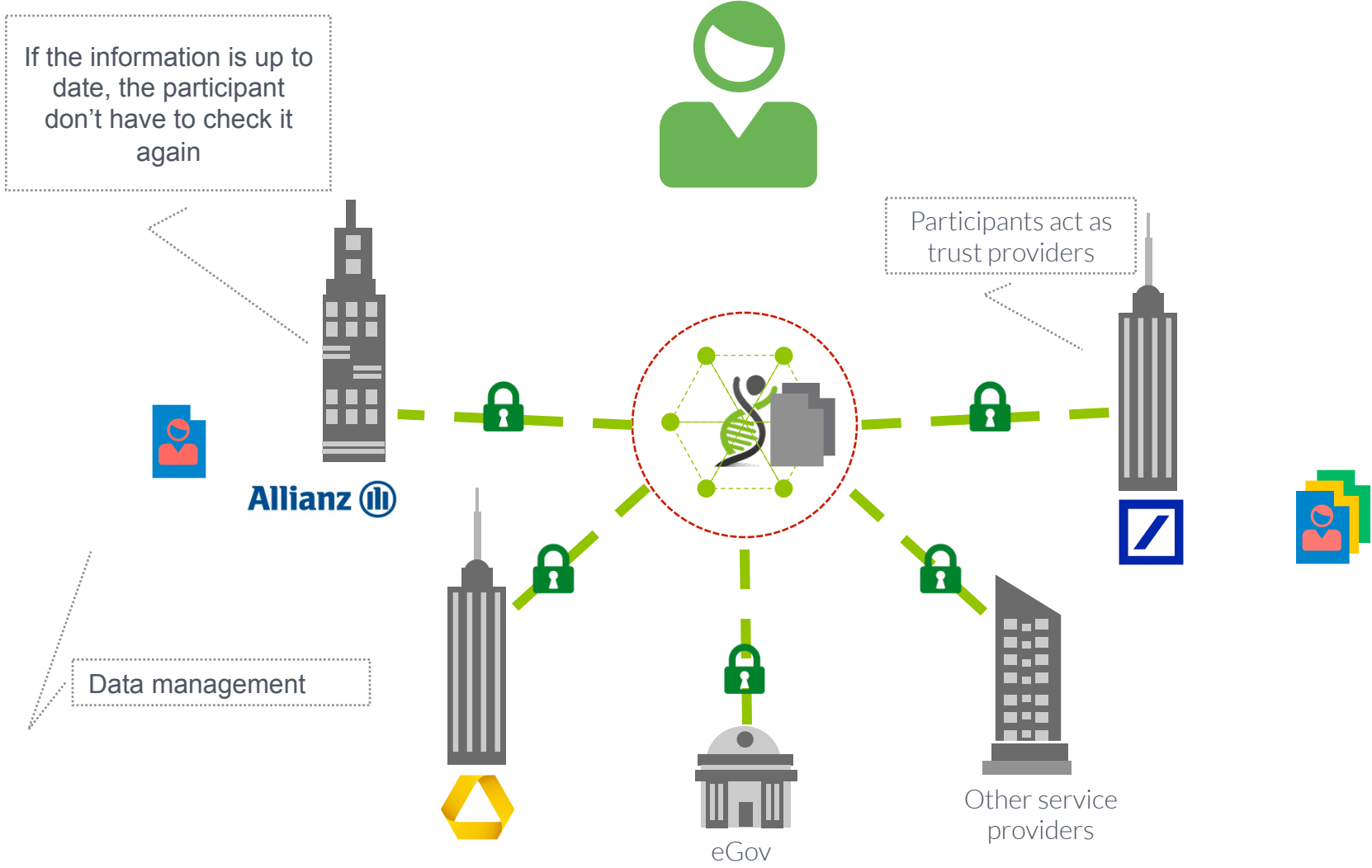
Source: Goldman Sachs, Company Estimates

KYC is expensive

Savings US\$ 8bn



Source: Goldman Sachs, Company Estimates



Trust Provider Network

Adding value to the process

1 Sharing Workforce

2 Standardization

3 Data Quality



Oliver Naegele
CEO

Dashboard

Identity

Overview

Basic Data

Certificates

Identification

Other Documents

Account

Addressbook

Map

Docs

Config

About



Search for something...

Language



Log out

Identity Detail

Identity / Detail

Oliver Naegele

NEW



Address: 70ae387208d01adce62fff9e01b8df2a84f74c2c

Date of birth: 23.12.1987

Street: Münchener Straße

City: 60329 Frankfurt am Main

Country: Germany

Phone: +49 (0)69 715 899 4-60

Mobile: +49 (0)177 545 4413

Email Address: oliver@blockchain-helix.com

[\[More Details\]](#)

Edit Identity Details

13:46:42

15.08.2016



Home Address

Changed to: Münchner Str. 45, 60329 Frankfurt am Main, Germany

Provided by User

Approved by Deutsche Bank AG

10:37:28

03.10.2016



Income Statement

Changed to: EUR 100.000 per year. Docs Attached

Provided by User

To be Approved



Oliver Naegele
CEO

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About

Search for something...

Language 16 8 Log out

Basic Data

Identity / Certificates

<p>Personal ID NEW</p>  <p>ID Code: 234823489034 Validated by Authada GmbH</p> <p>Actions Edit</p>	<p>Driver's Licence NEW</p>  <p>ID Code: 6768678 Validated by Authada GmbH</p> <p>Actions Edit</p>	<p>Passport NEW</p>  <p>ID Code: 78798798797 Validated by Authada GmbH</p> <p>Actions Edit</p>
<p>Student ID NEW</p>  <p>ID Code: 798218465 Validated by AOK Hessen</p> <p>Actions Edit</p>	<p>Insurance ID NEW</p>  <p>ID Code: 78970 Validated by AOK Hessen</p> <p>Actions Edit</p>	<p>Bachelor Diploma NEW</p>  <p>ID Code: 46467454 Status to be validated</p> <p>Actions Edit</p>



Oliver Naegele
CEO

Dashboard

Identity

Addressbook

Map

Docs

Config

About



Search for something...

Language



Log out

Add Information to My Profile

Identity / Create new Identity

Status: need to be validated by a Trust Provider

Information

My Adress

Description

Enter Description

Issuance Date

18 Jan 2015

Info Type

Home Adress

Adress

Münchner Str 45,

ZIP Code

60329

City

Frankfurt am Main

Country

Germany



Save



Validate Basic data

Validate / **Basic data**

Validate Basic data Wizard

Validate Basic data Wizard

1. **Get Identity**

2. Permission

3. Data Received

4. Data Validation

5. Data Validation

6. Data Validation

7. Document Scan

Address *



Status: - scanning -



Handelsbank AG wants to have access to the following information: Full Name, Date of Birth, Home Address, Phone Number, Mobile Number, Email Address.
Do you comply with it?





Search for something...

Language 16 8 Log out

Validate Basic data

Validate / **Basic data**

Validate Basic data Wizard ^ ↗ ✕

Validate Basic data Wizard

- I. Get Identity
- 2. Permission
- 3. Document Scan**
- 4. Data Validation
- 5. Data Validation
- 6. Data Validation
- 7. Document Scan

Oliver Neegels NEW

Select

Residence Registry

Alias

Adresse Münchener Str

ID Code

5644646

City of issuance

Frankfurt an Main, Hesse, Germany

Institution of issuance

Bürgeramt Zell

Uploaded Image

Please also check this image against the original version to be provided by the client



Search for something...

Language 16 8 Log out

Validate Basic data

Validate / Basic data

Validate Basic data Wizard

Validate Basic data Wizard

1. Get Identity

2. Permission

3. Data Received

4. Data Validation

5. Data Validation

6. Data Validation

7. Document Scan

The user has shared information with you!

NEW



✓ Identity Address: 70ae387206d01adce62fff9e01b8df2a84f74c2c

✓ Name: Oliver Naegle

✓ Date of birth: 23.12.1967

✗ Home Address: Munchener Straße 45 60329 Frankfurt am Main

✓ Country: Germany

✓ Phone: +49 (0)69 715 899 4-60

✓ Mobile: +49 (0)177 545 4413

✓ Email Address: oliver@blockchain-helix.com

[\[More Details\]](#)

[Validated by Authada GmbH at 2016-Nov-05 11:25:15]

[Validated by Authada GmbH at 2016-Nov-05 11:25:15]

[Need to be validated]

[Validated by Authada GmbH at 2016-Nov-05 11:25:15]

[Not subject to validation]

[Validated by Vodafone GmbH at 2016-Nov-03 10:35:27]

[Email address confirmed]

Proceed to validation



Search for something...

Language 16 8 Log out

Validate Basic data

Validate / Basic data

Validate Basic data Wizard ^ ↗ ✕

Validate Basic data Wizard

- 1. Get Identity
- 2. Permission
- 3. Data Received
- 4. Data Validation
- 4. Data Validation**
- 6. Data Validation
- 7. Document Scan

The validation is complete! NEW



- ✓ Identity Address: 70ae387206d01adce62fff9e01b8df2a84f74c2c
 - ✓ Name: Oliver Naegele [Validated by Authada GmbH at 2016-Nov-05 11:25:15]
 - ✓ Date of birth: 23.12.1967 [Validated by Authada GmbH at 2016-Nov-05 11:25:15]
 - ✓ Home Address: Münchener Straße 45 60329 Frankfurt am Main [Validated by Handelsbank AG at 2016-Nov-18 16:25:32]
 - ✓ Country: Germany [Validated by Authada GmbH at 2016-Nov-05 11:25:15]
 - ✓ Phone: +49 (0)69 715 899 4-60 [Not subject to validation]
 - ✓ Mobile: +49 (0)177 545 4413 [Validated by Vodafone GmbH at 2016-Nov-03 10:35:27]
 - ✓ Email Address: oliver@blockchain-helix.com [Email address confirmed]
- [\[More Details\]](#)

Finalize onboarding process



Oliver Naegele
CEO

- Dashboard
- Identity
- Addressbook
- Map
- Docs
- Config
- About

Add Information to My Profile

Identity / Create new Identity

Status: Validated by Handelsbank AG at 2016-Nov-18 16:25:32

Information Areas

My Address

Description

Enter Description

Issuance Date

18.Jan.2015

Info Type

Home Address

Address

Münchner Str 45,

ZIP Code

60329

City

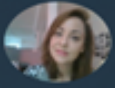
Frankfurt am Main

Country

Germany



Save



Sandra Richter-Janicijevic

Dashboard

Identity

Account

Addressbook

Map

Docs

Chat

Config

About



Search for something...

Account List

Account / Account List

BLOCKCHAIN HELIX

1 Smart Home

NEW



SMART HOME

Type
RWE

Budget
30.0

Actions
[Transfer](#) | [More](#)

2 Smart Car

NEW



SMART CAR

Type
BMW i3

Budget
0.0

Actions
[Transfer](#) | [More](#)

3 Healthcare

NEW



Vaccination Certificate

Type
US Health

Budget
0.0

Actions
[Transfer](#) | [More](#)

4 Bitcoin Wallet

NEW



Bitcoin Network

53e9dd0e54d77baf846ea3fa79d48d...

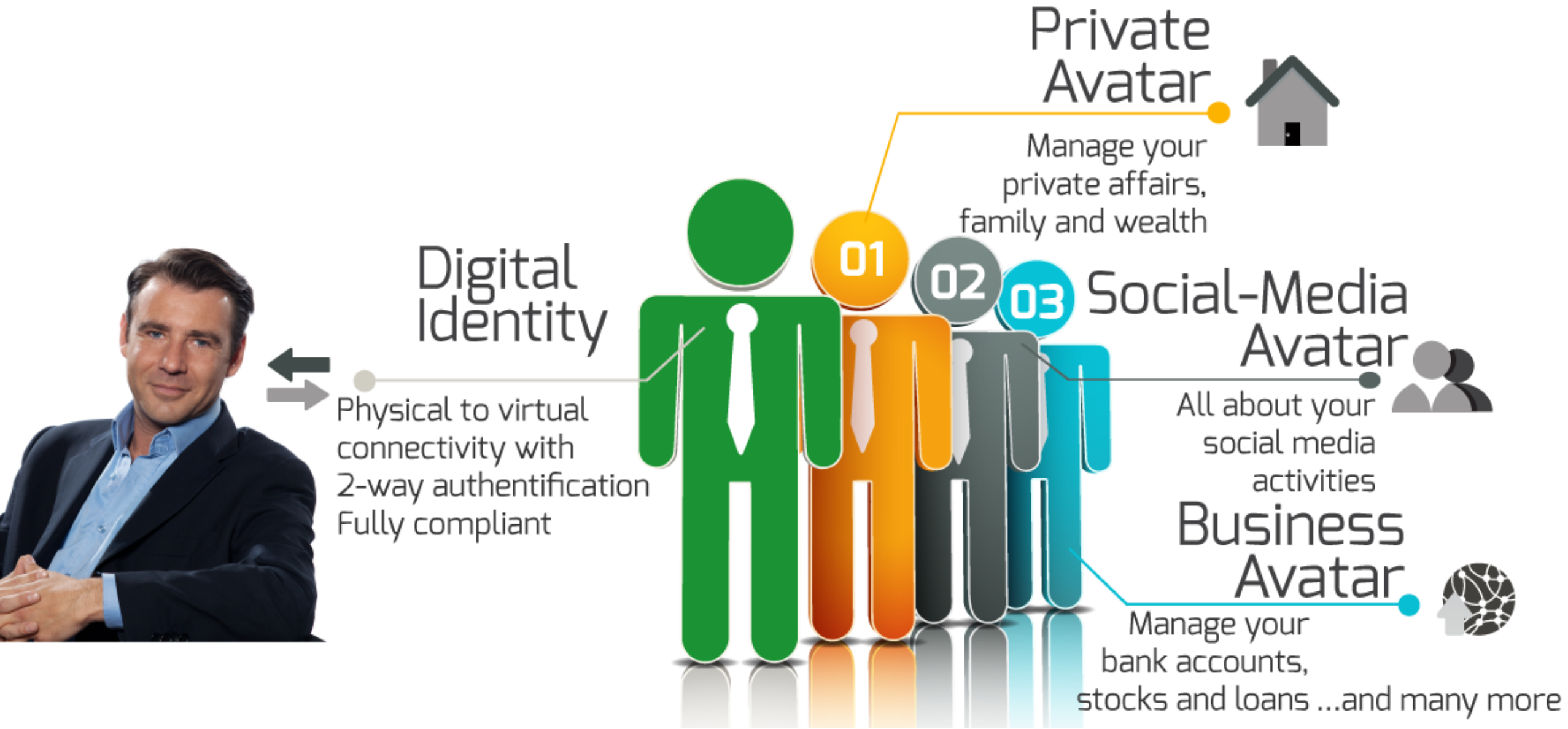
Wallet
WLT01

Budget
0.0

Actions
[Transfer](#) | [More](#)



Interoperability with other Blockchains



Scalability



Proof of work

Costly and time-consuming
Bitcoin Consensus



Proof of stake

proof of ownership
very cost-efficient



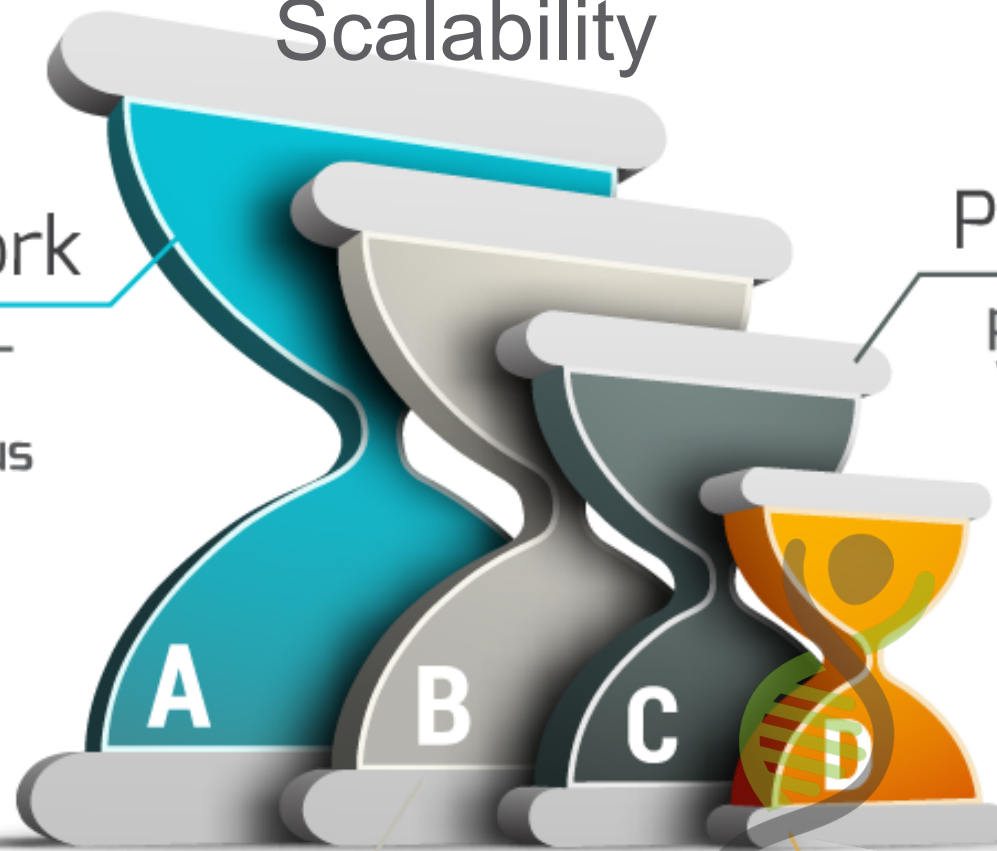
Quorum slicing

No need to trust the whole
system / network, trust combinations of other participants
Stellar Consensus

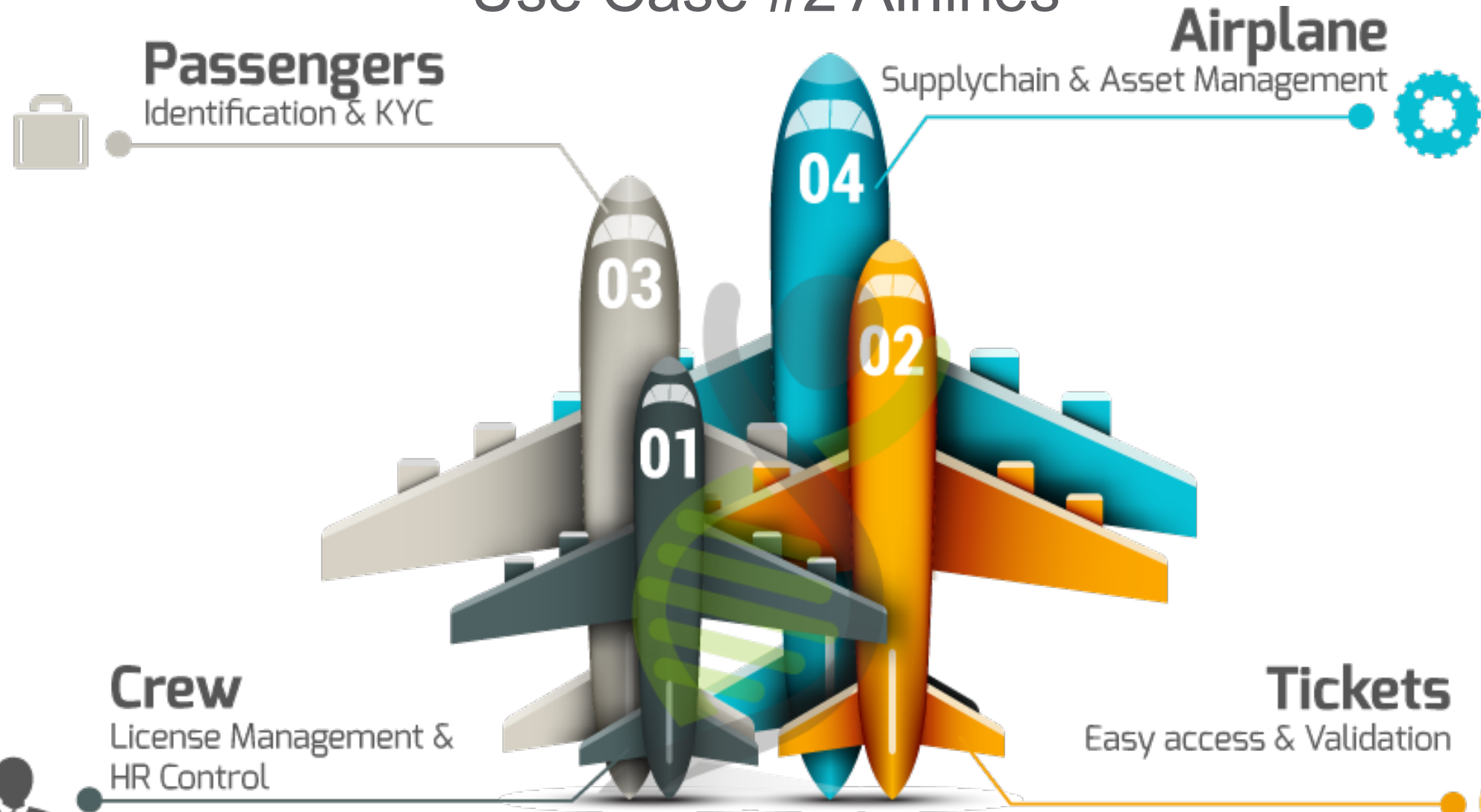


Proof of existence

Enters a hash as proof of a document into the blockchain



Use Case #2 Airlines



Use Case #3 SMART HOME



USP Blockchain HELIX

Compliant



Self determination

Shared
Workforce



Trust Provider Network

Data
Quality



Privacy & Security

Achievements and Challenges

High Availability and Data Protection

P2P data storage structure associated with cloud services allow high availability and is also compliant with data protection laws



IBM and GFT Partnership

Technology and Business Partnerships with IBM and GFT have been opening many doors to us



Blockchain-in-a-box

Isolated blockchain network working in a hardware server. It's our sandbox in workshops and one-to-one meetings



Scalability

The broad use of the platform will require high availability at high speed



Network Effect

Cost savings and data quality improvement will require broad adoption of the platform



Standards

Not only blockchain standards but also messaging and data structure standards may require extra attention



THANK YOU



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 [BlockchainHelix](#)

 [Blockchain-helix-ag](#)