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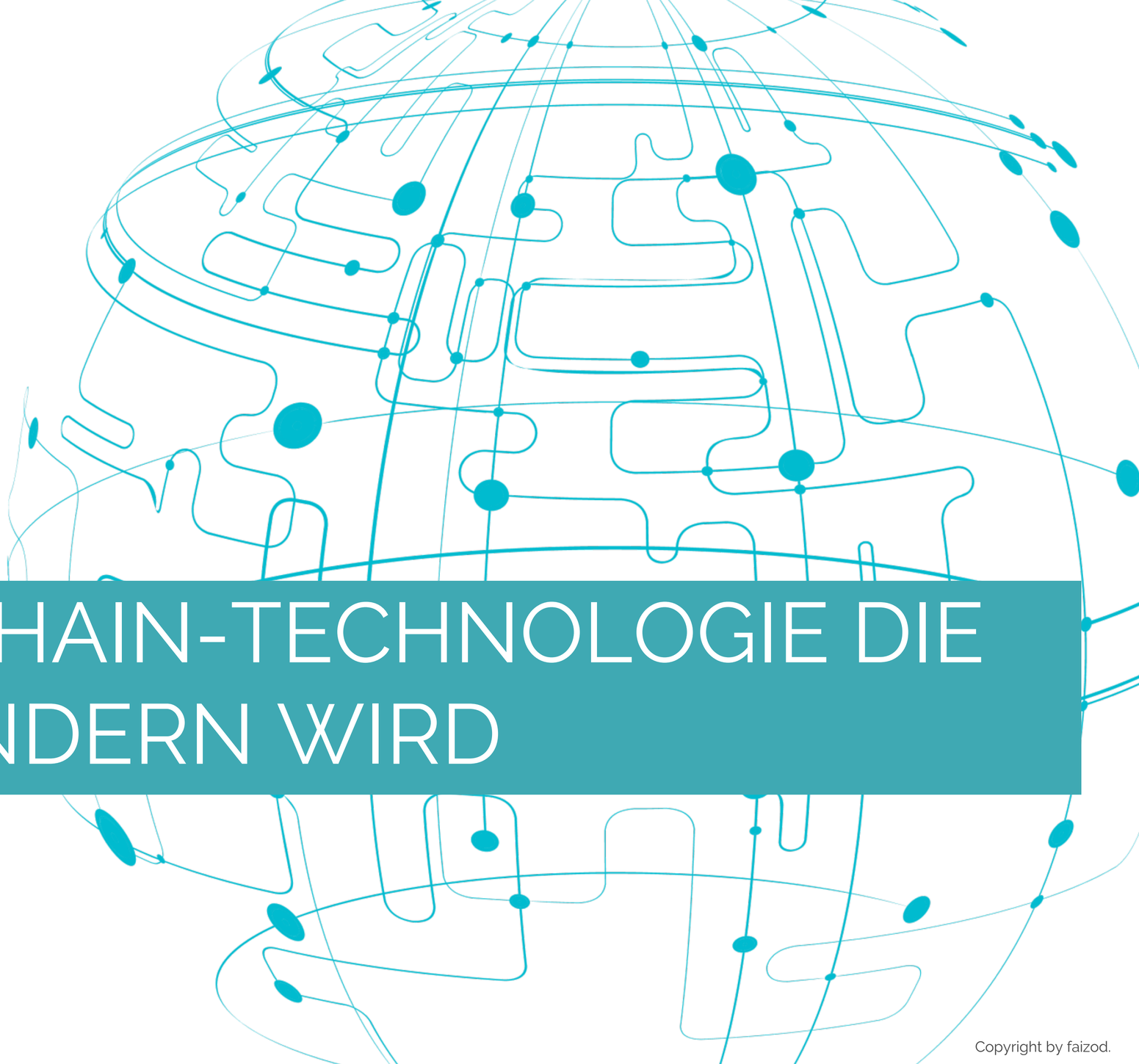

WIE DIE BLOCKCHAIN-TECHNOLOGIE DIE ZUKUNFT VERÄNDERN WIRD

18.07.2017

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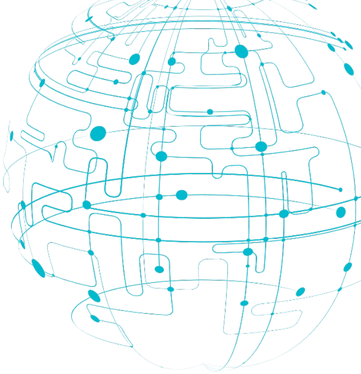

BLOCKCHAIN?

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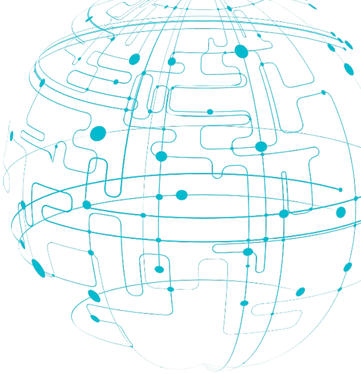

IS A DATABASE
IN WHICH STORED DATA
CAN NOT BE
DELETED OR MODIFIED

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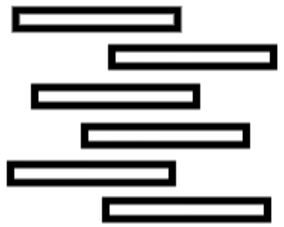
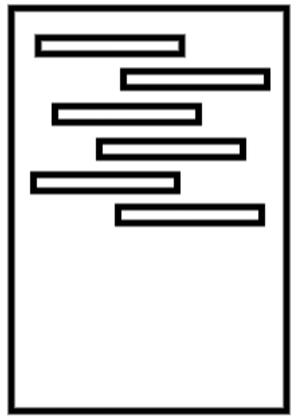
TRANSACTION

BLOCK

HASH VALUE





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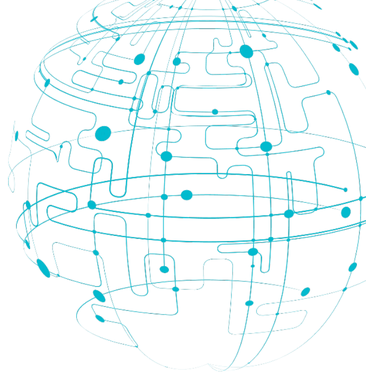

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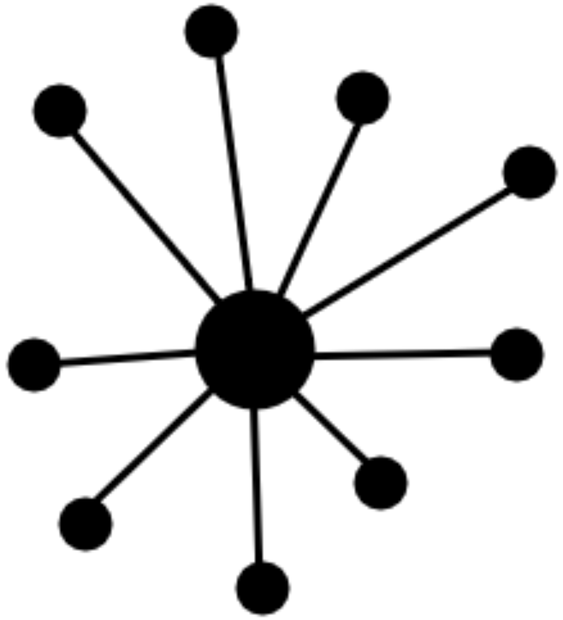
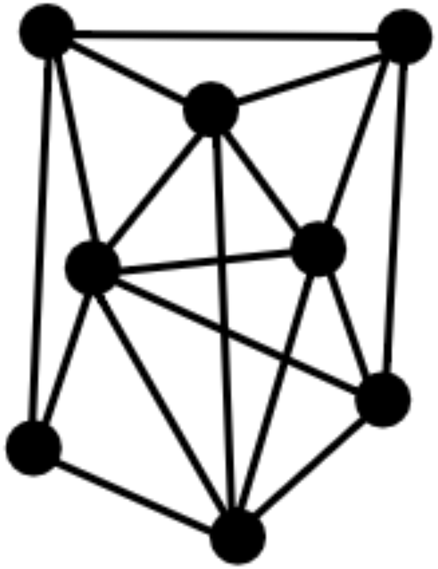


centralized

BLOCKCHAIN



distributed

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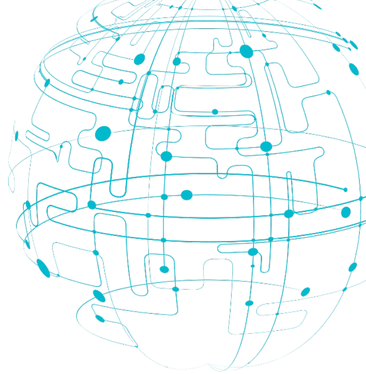

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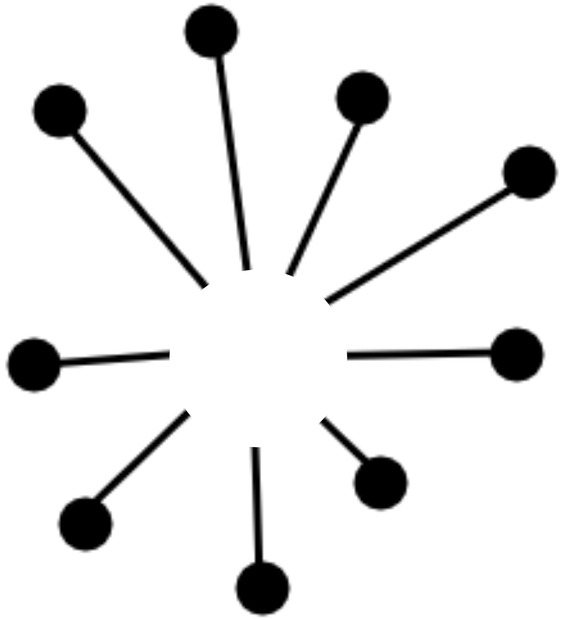
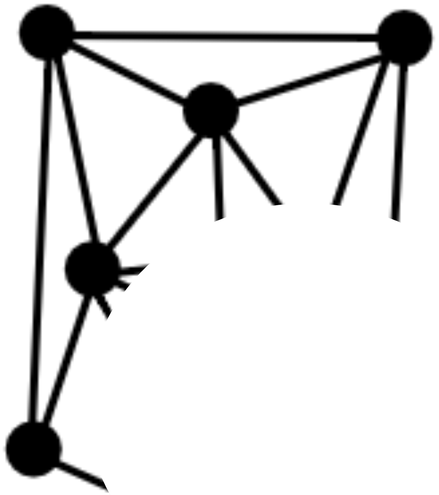


centralized

BLOCKCHAIN



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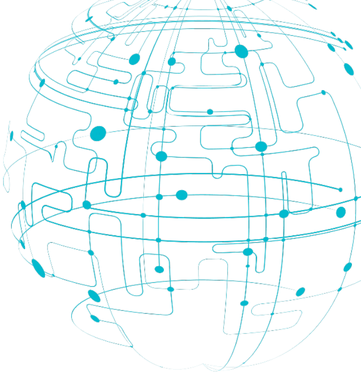

HASH VALUE

Data

faizod - The Blockchain Trailblazer

Hash Value

0b10839f476a6055fcf19b01ec2b278e45fabf5071a3368260169bc64

Data

faizod - The Blockchain Trailblazer!

Hash Value

bbb3d72466c094b78aae4566a48cb21f00f1e94c23eab3615960a9d6b1ae8c6c

https://anders.com/blockchain/hash.html

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BLOCK BUILDING

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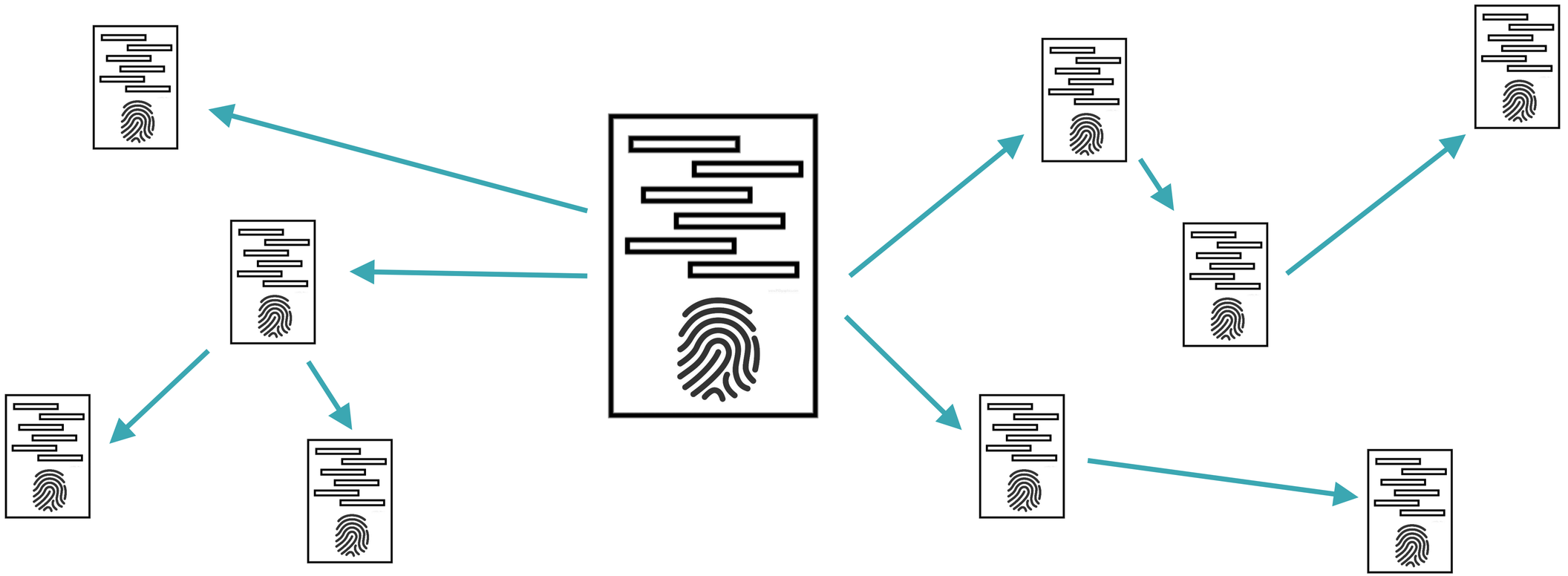

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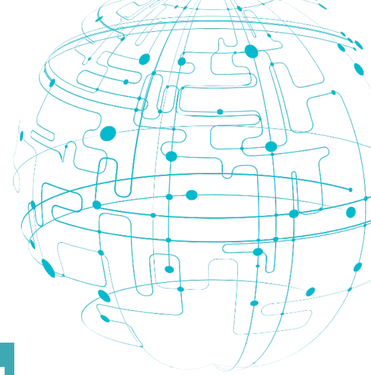
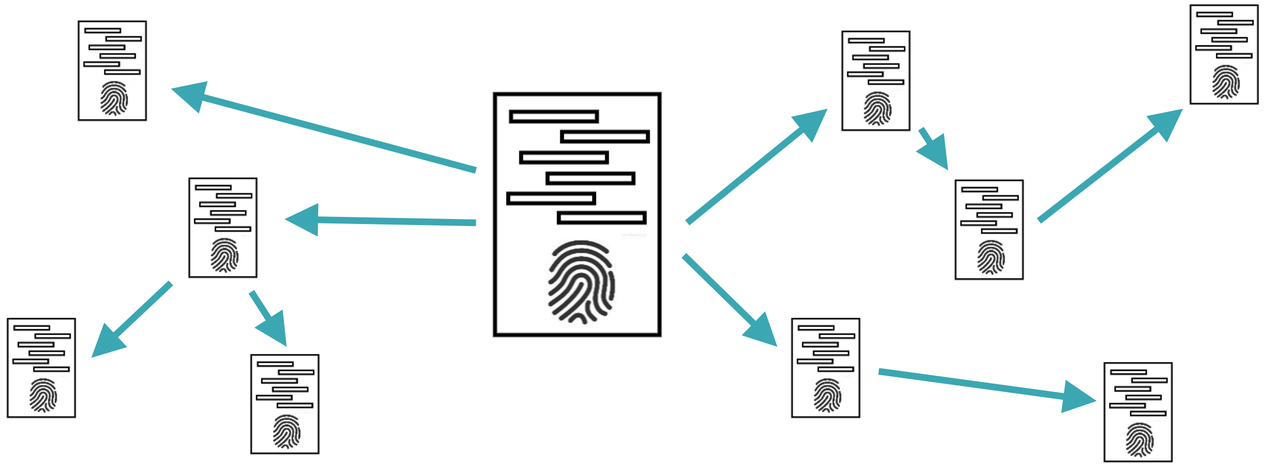


BLOCK BUILDING

DISTRIBUTION



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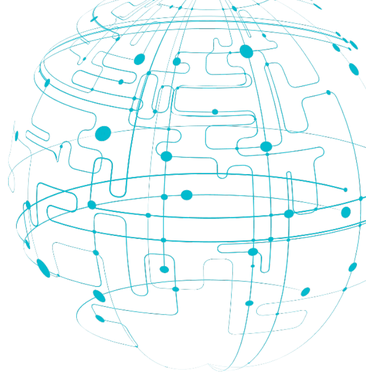

DEFENSE

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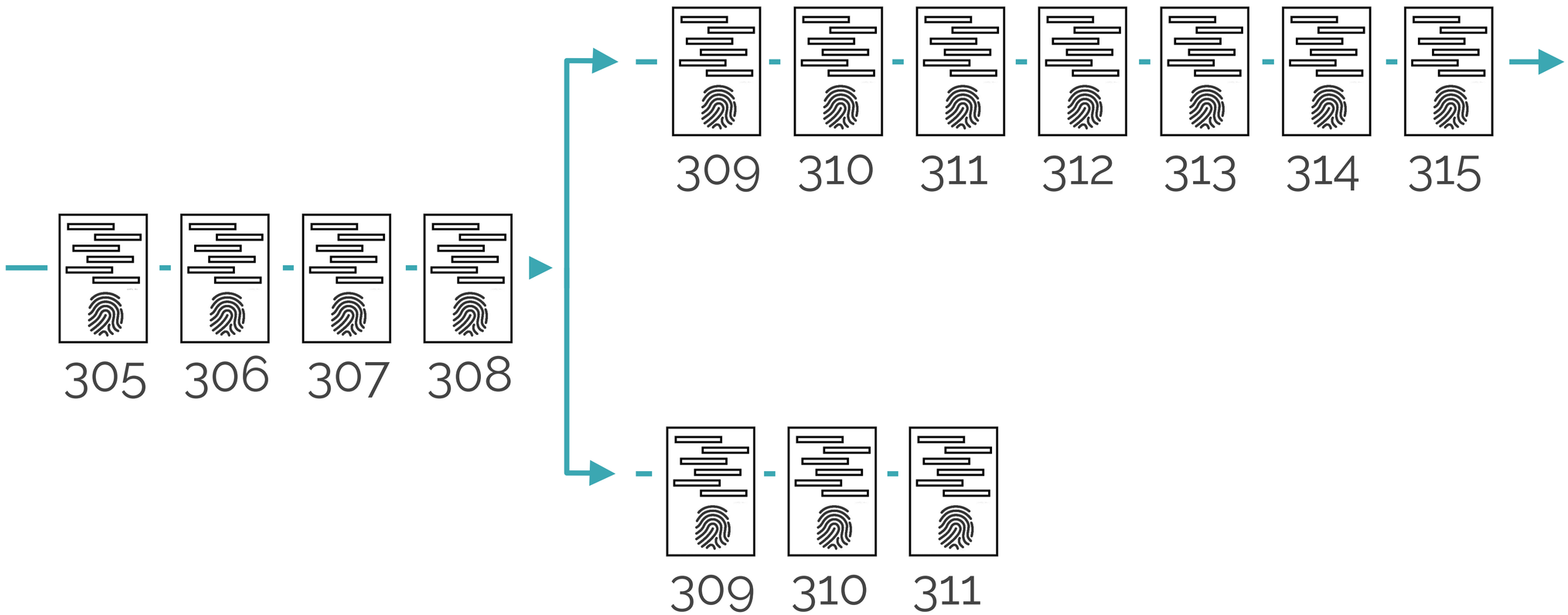
DEFENSE



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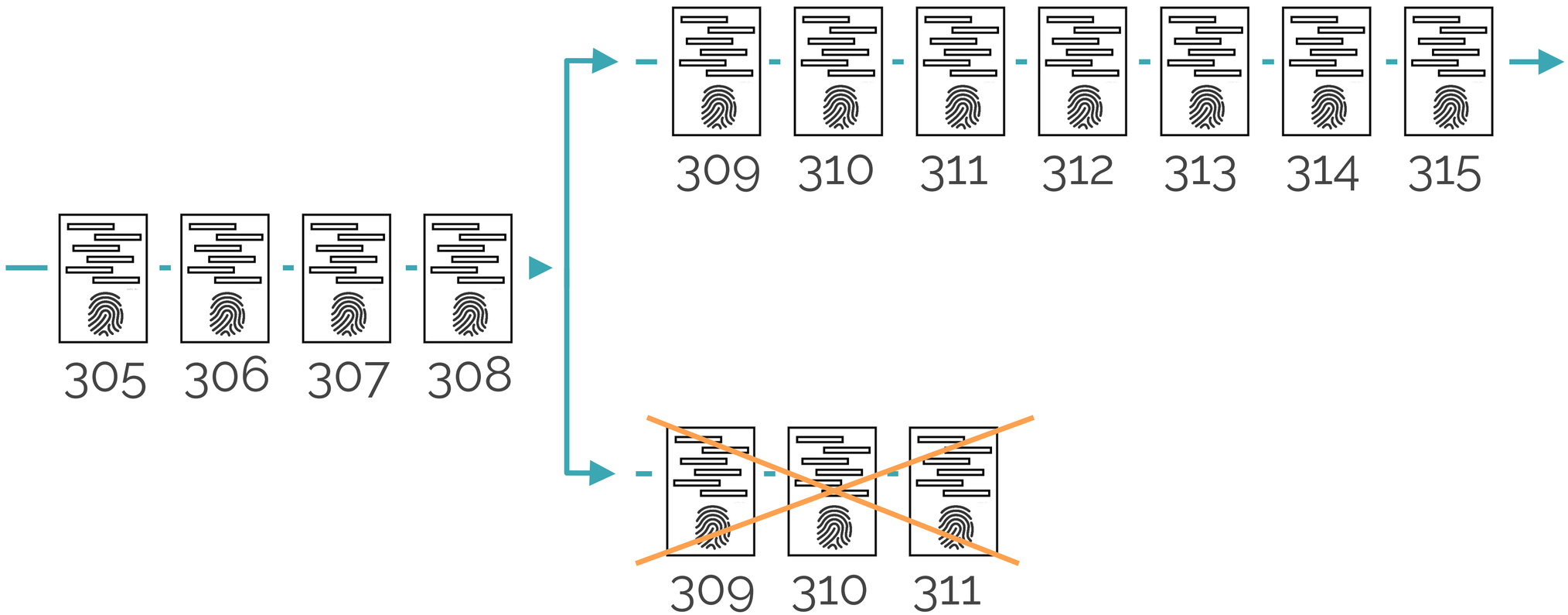
DEFENSE



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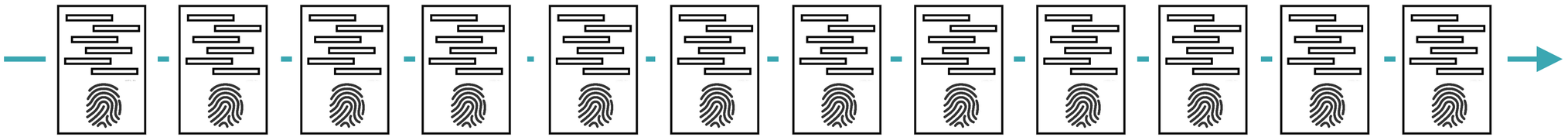
MANIPULATION



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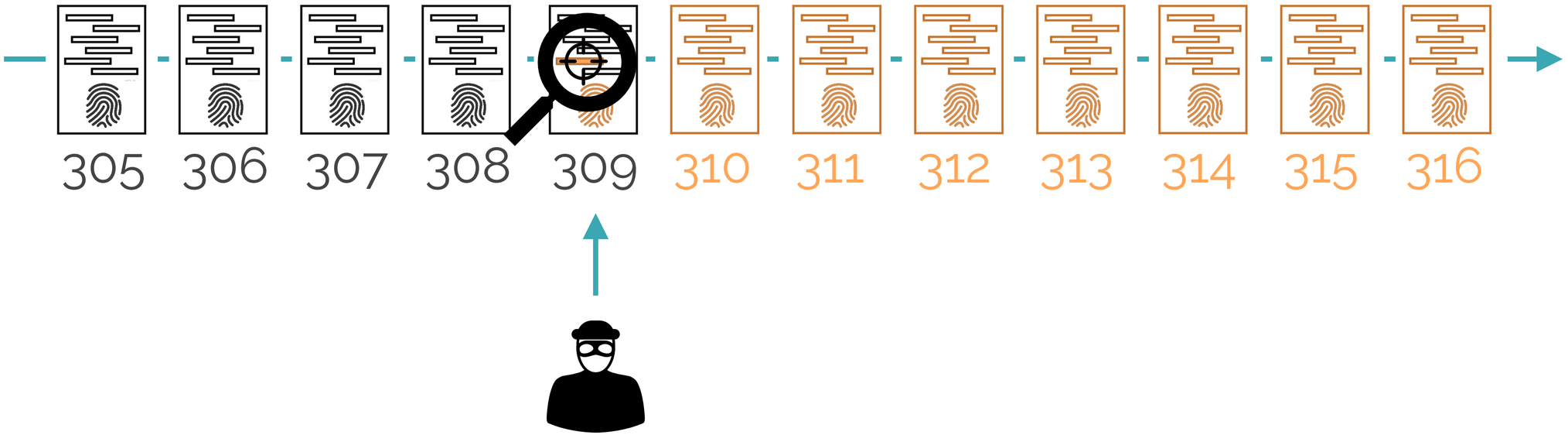

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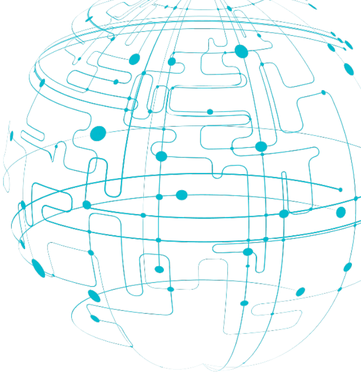
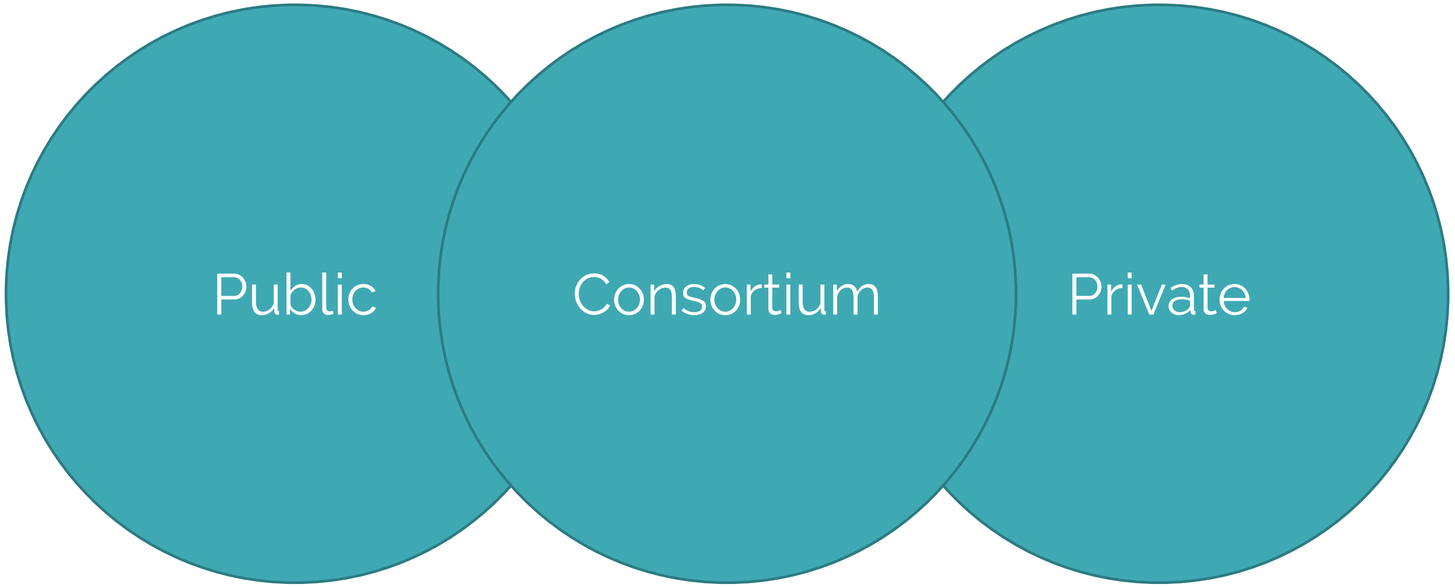


TYPES OF BLOCKCHAIN



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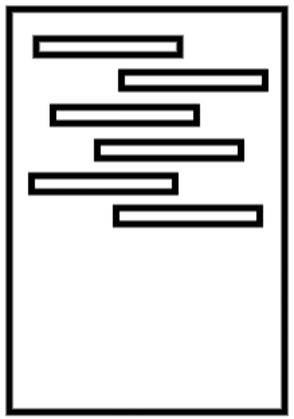
BLOCK

HASH VALUE

MINER



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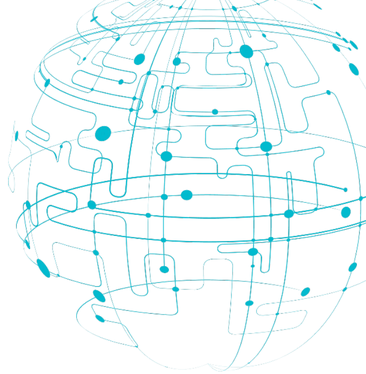

DIFFICULTY

Number: 195710, Date: 2012-08-26

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Number: 420570, Date: 2016-07-13

00000000000000000ce3664bac8347ec29a8bcf5fcf004acb04fafef9ba1fef

dice $2^{69,6}$ times a 256 bit number ...

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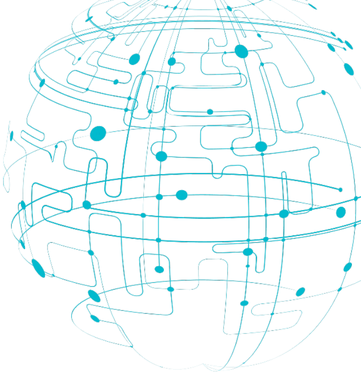

BITCOIN?

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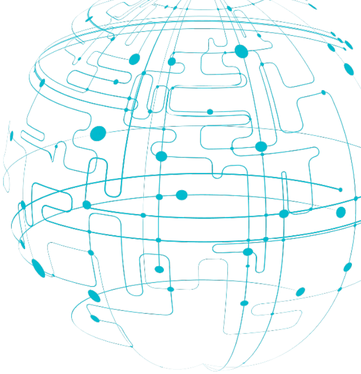

1BTC = 2400$, $55,303,200.-

Höhe	Alter	Transaktionen	Insgesamt gesendet	Weitergeleitet von	Größe (kB)
475527	8 minutes	2083	23,043.24 BTC	SlushPool	998.07
475526	26 minutes	2047	12,076.15 BTC	GBMiners	998.25
475525	35 minutes	2253	9,185.38 BTC	SlushPool	998.04
475524	42 minutes	2407	5,456.62 BTC	Bixin	998.18

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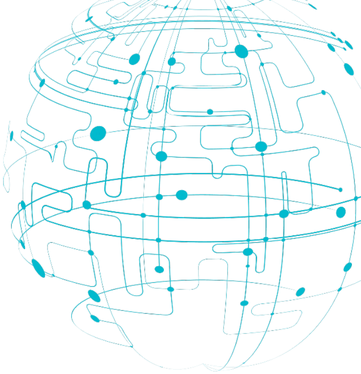
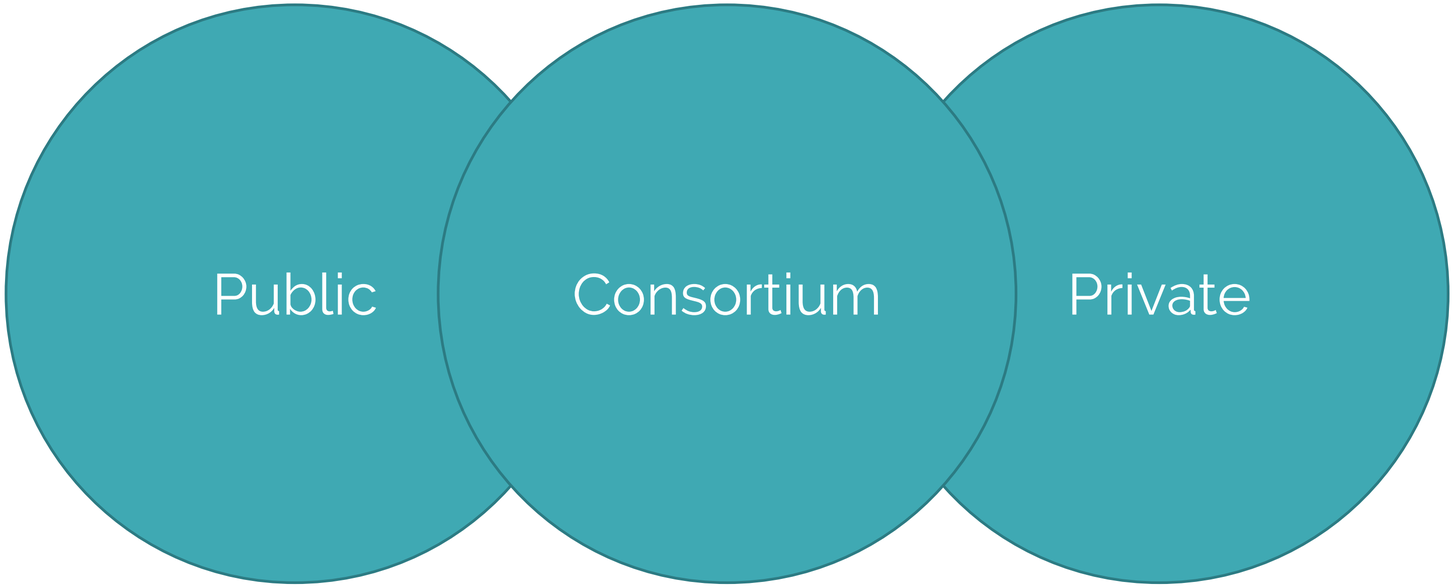


TYPES OF BLOCKCHAIN



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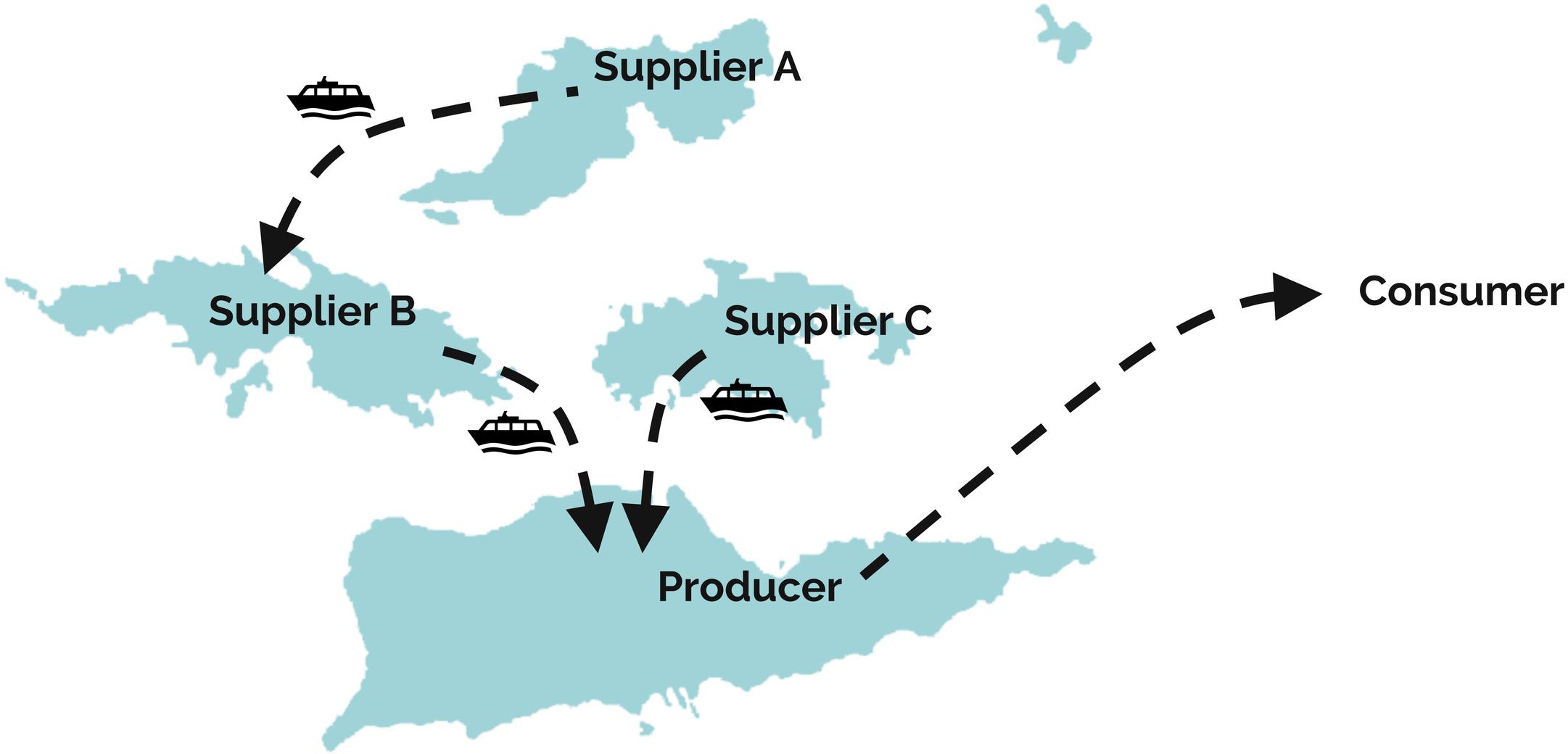

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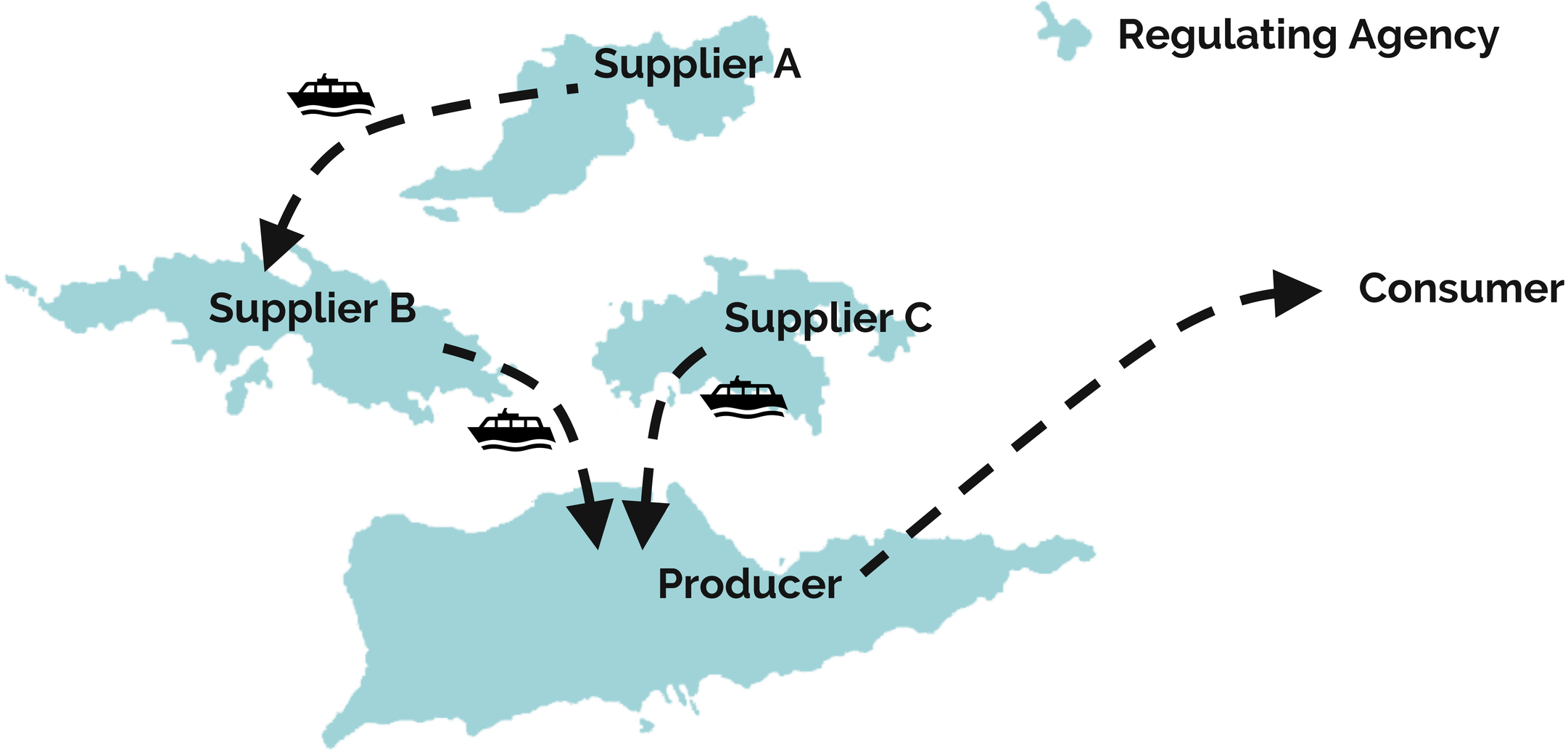

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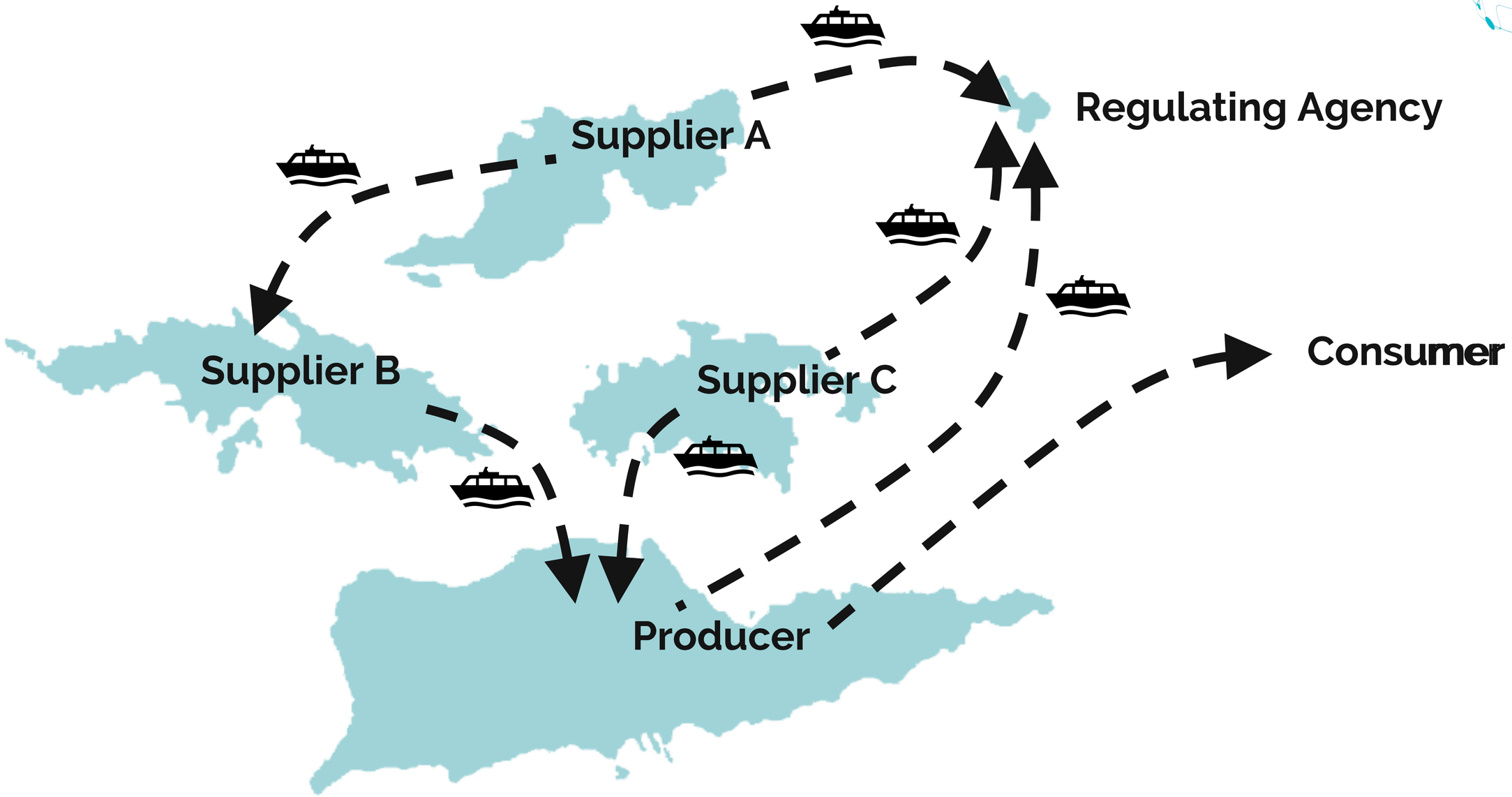

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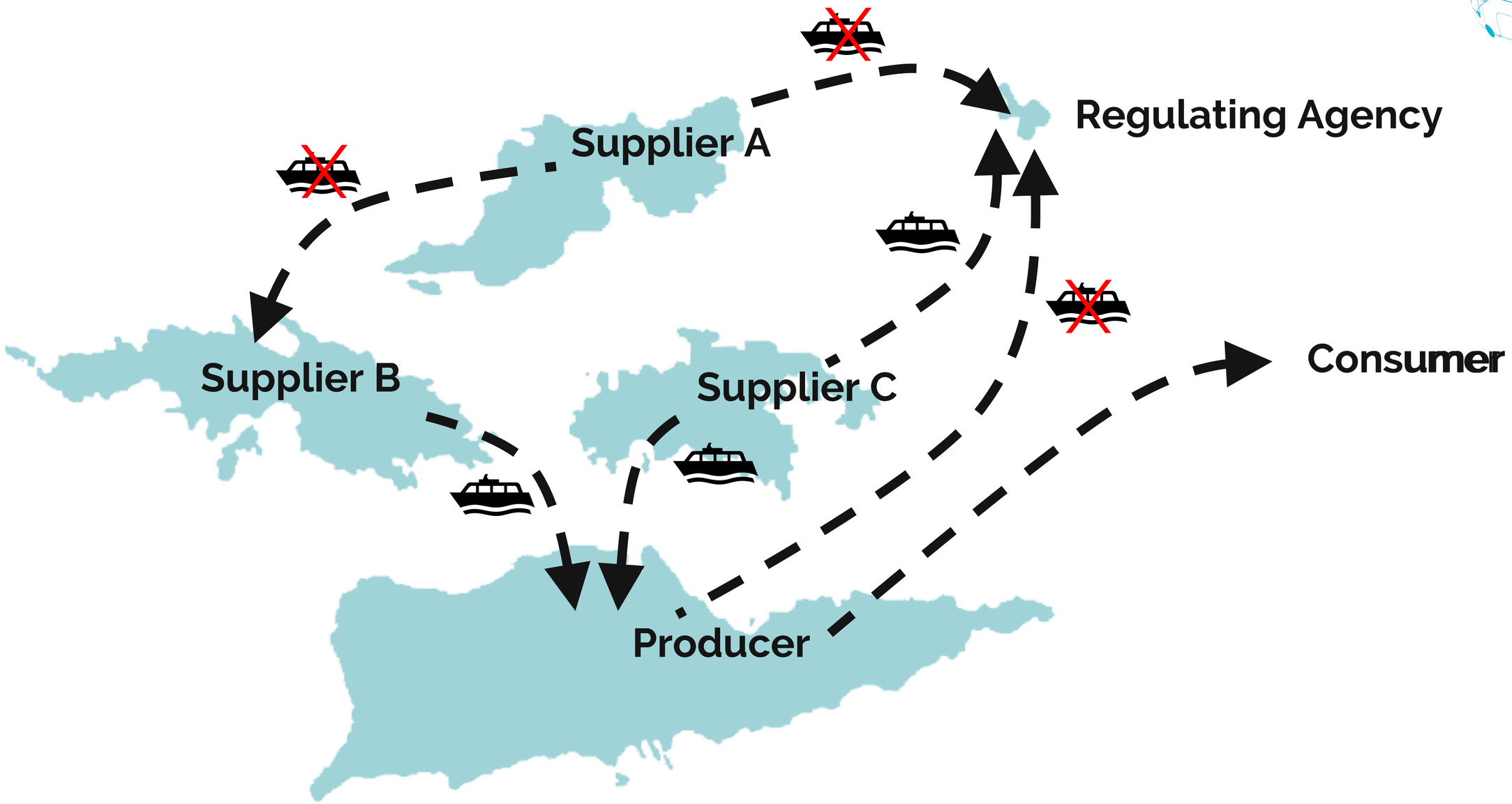

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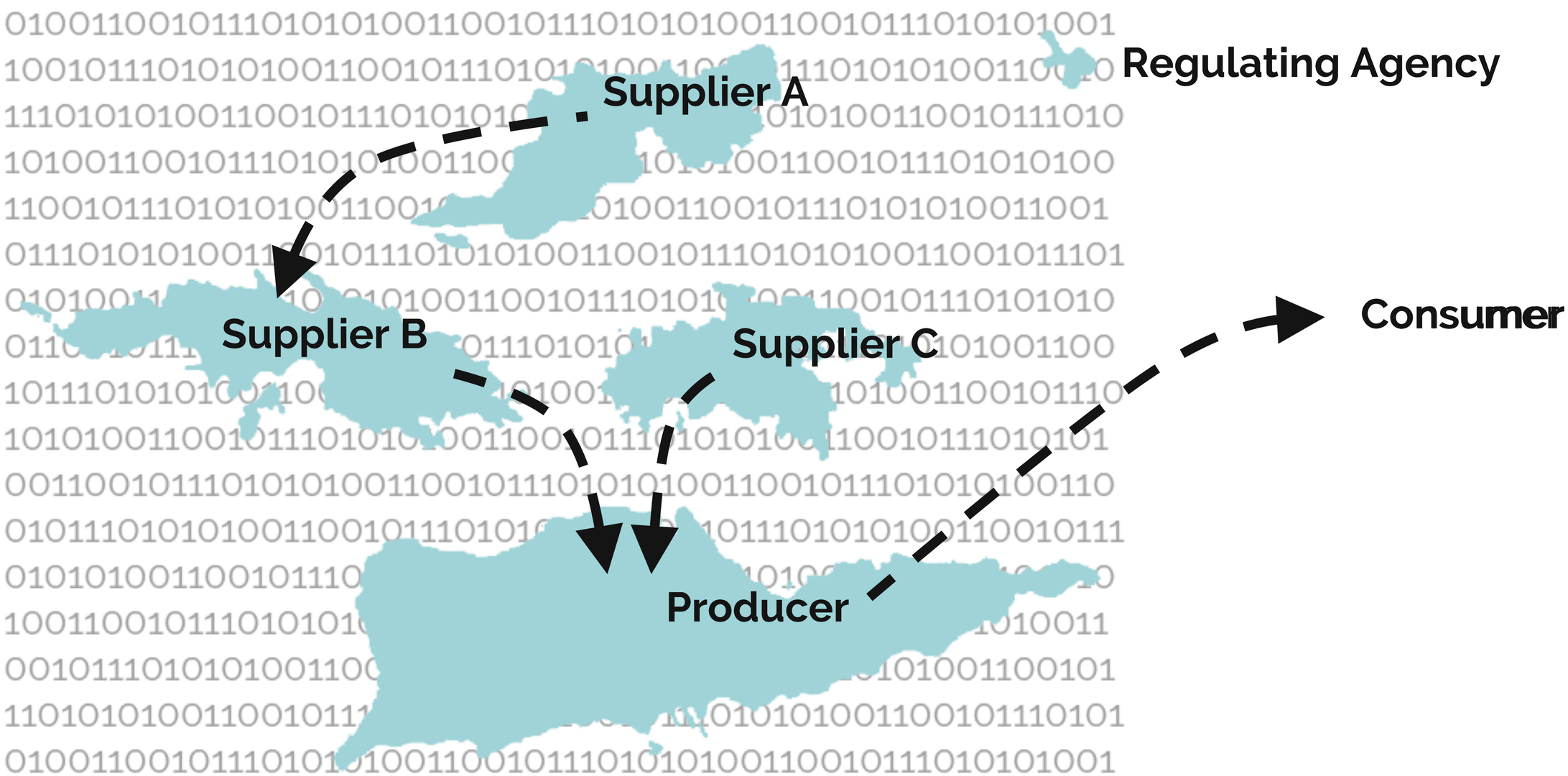

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ADVANTAGES

manipulation safety

reliability

transparency

across systems

process acceleration

DISADVANTAGES

resource requirements

scalability of hardware

(still) difficult integration in IT

data throughput

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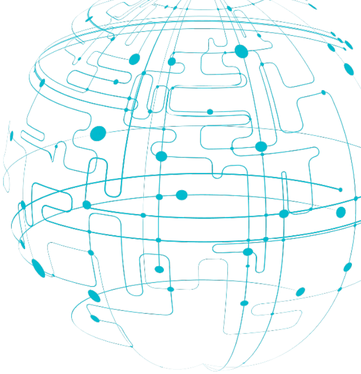

SMART CONTRACT

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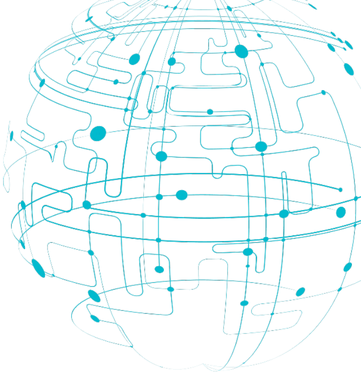

„A contract is the written fixation of at least two declarations of intent. At the end it will be confirmed, that the contracting parties have understood the contract text and agree with it. “

(https://de.wikipedia.org/wiki/Vertrag)

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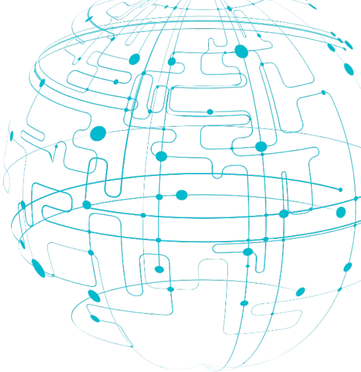

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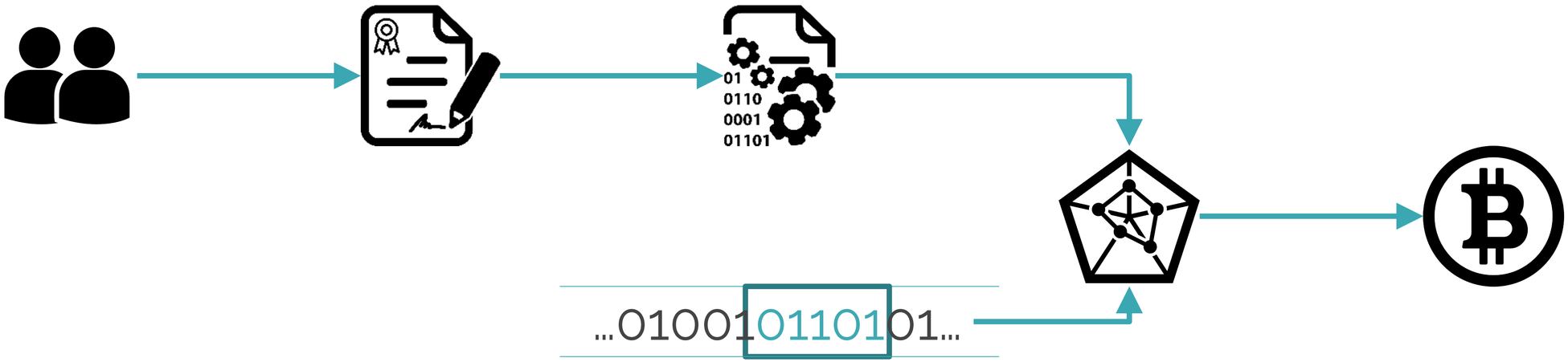
SMART CONTRACT



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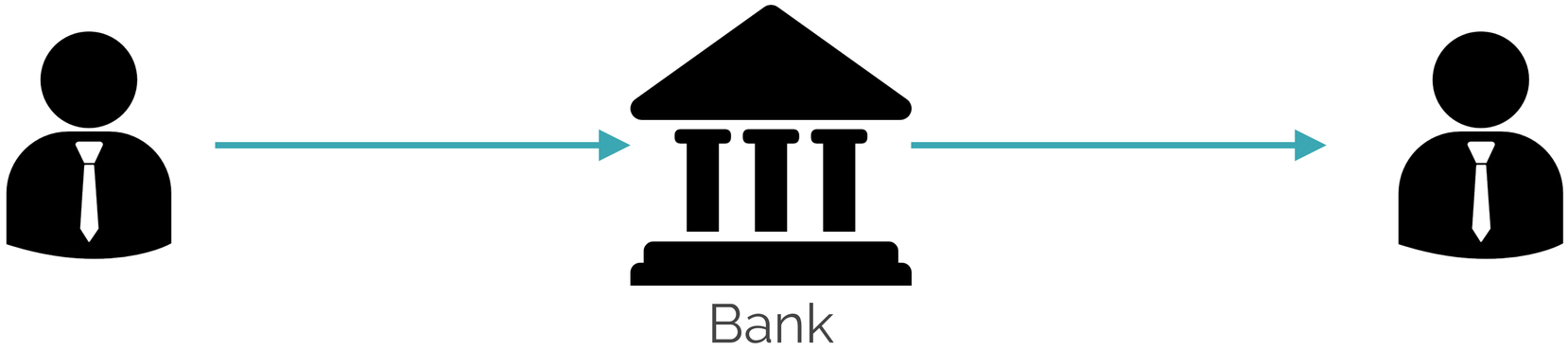
SMART CONTRACT



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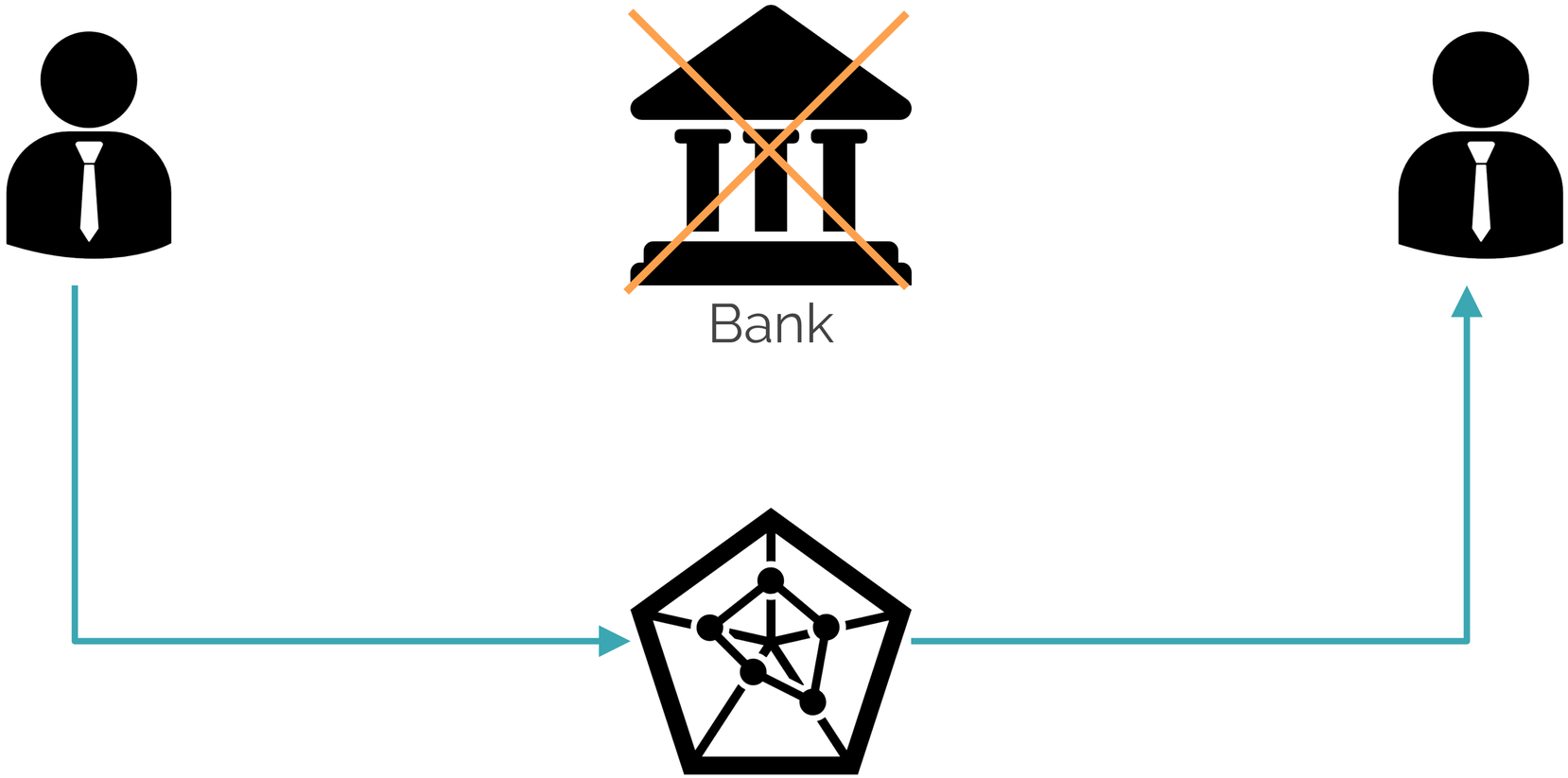
SMART CONTRACT



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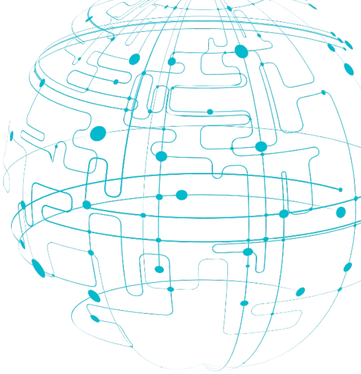

SMART CONTRACT FOR INDUSTRY

Chaincode / Smart Contract = Plausibiblity / Validy checks

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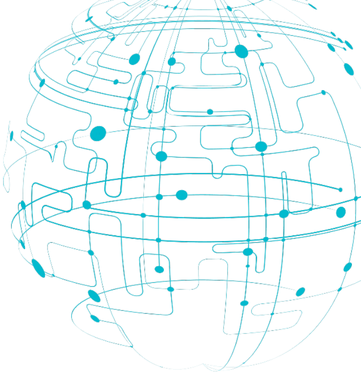

SOLUTIONS

Bitcoin - https://bitcoin.org/ - since 2009

Ethereum - https://www.ethereum.org/ - since 2015

Hyperledger – since aprox. 2017

Public Chains ... are inadequately suited for industry

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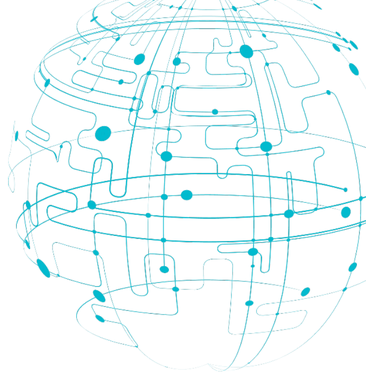

JUMP IN

Ethereum

Create image

Image roll out on partner

Create smart contracts

Hyperledger

Configure services

Create image

Image roll out on partner

Verification throug chaincode

Create connectors

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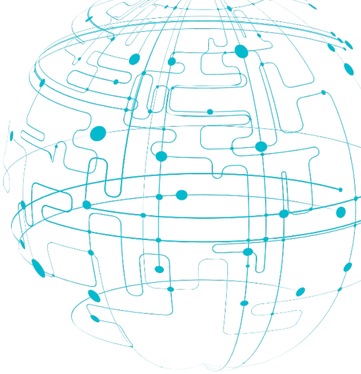

A BLOCKCHAIN IS NOT ...

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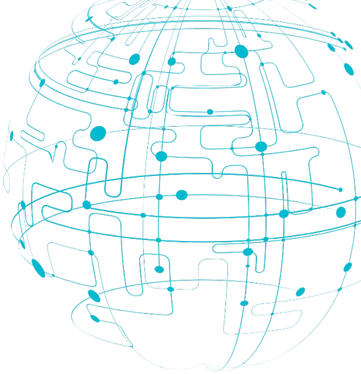

Quickly search the database

Simple in data security

Simple to controll

Inexpensive

Simple to administer

Problem-solver for everything

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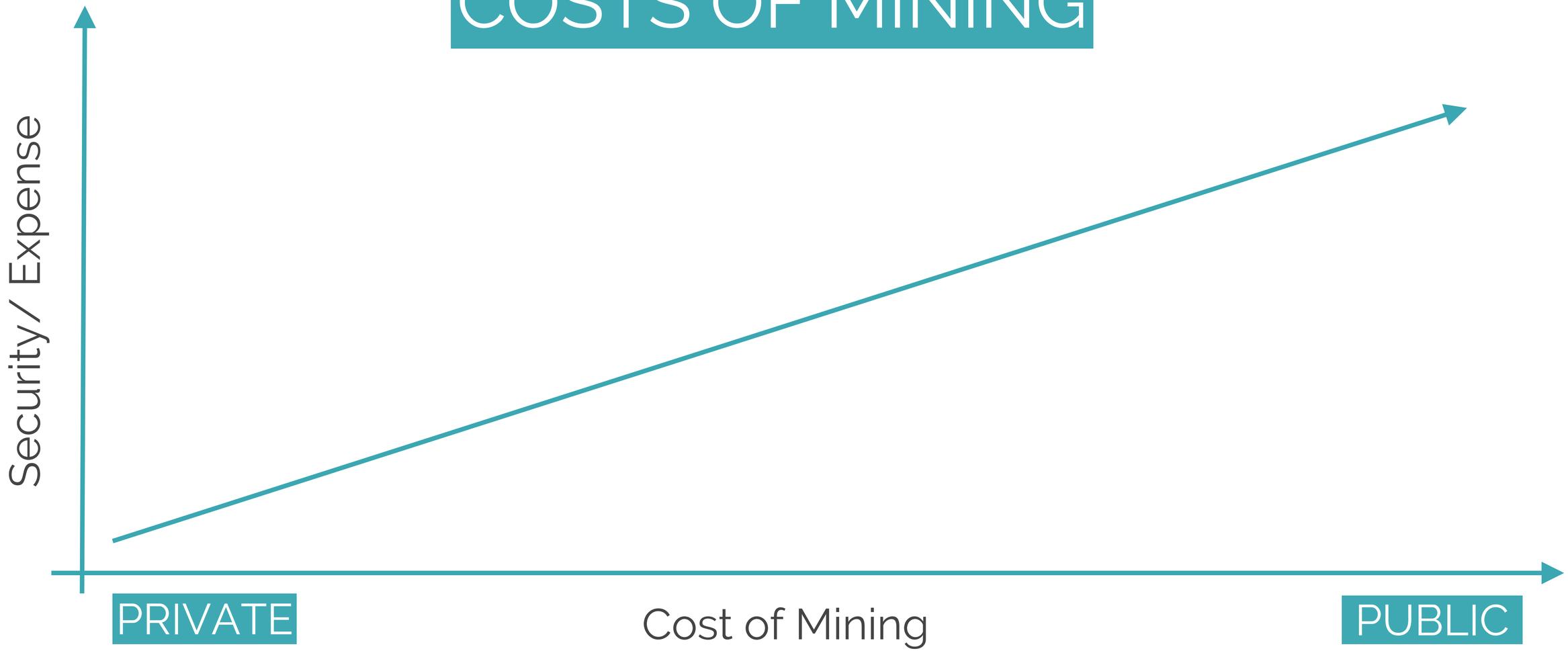
COSTS OF MINING



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MINING CONCEPTS

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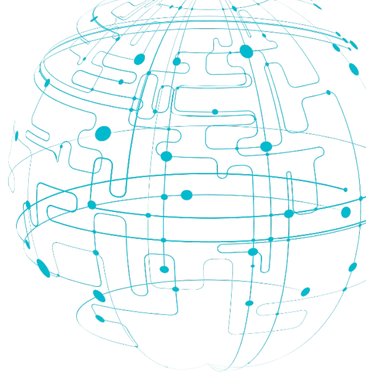

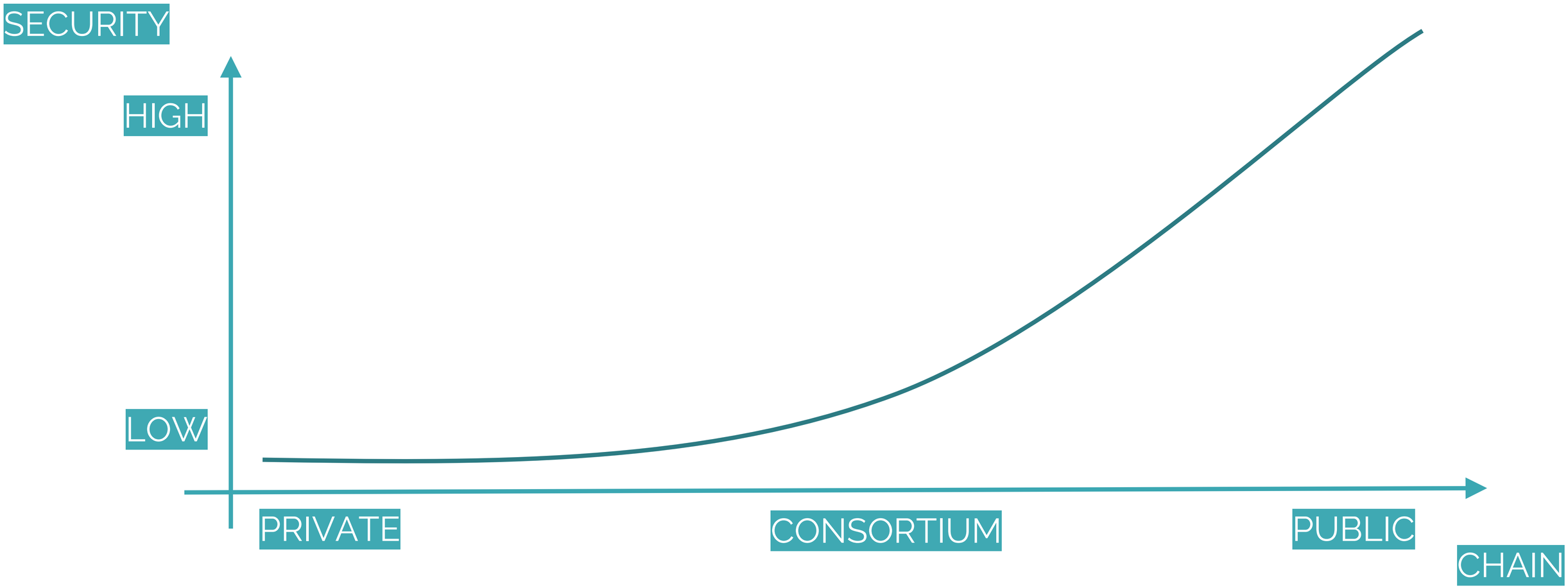

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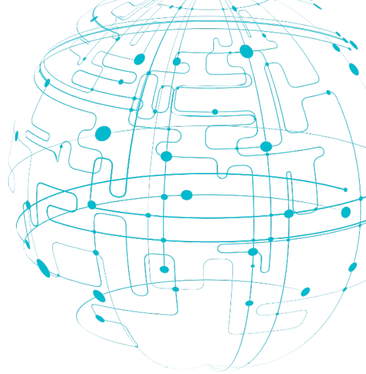

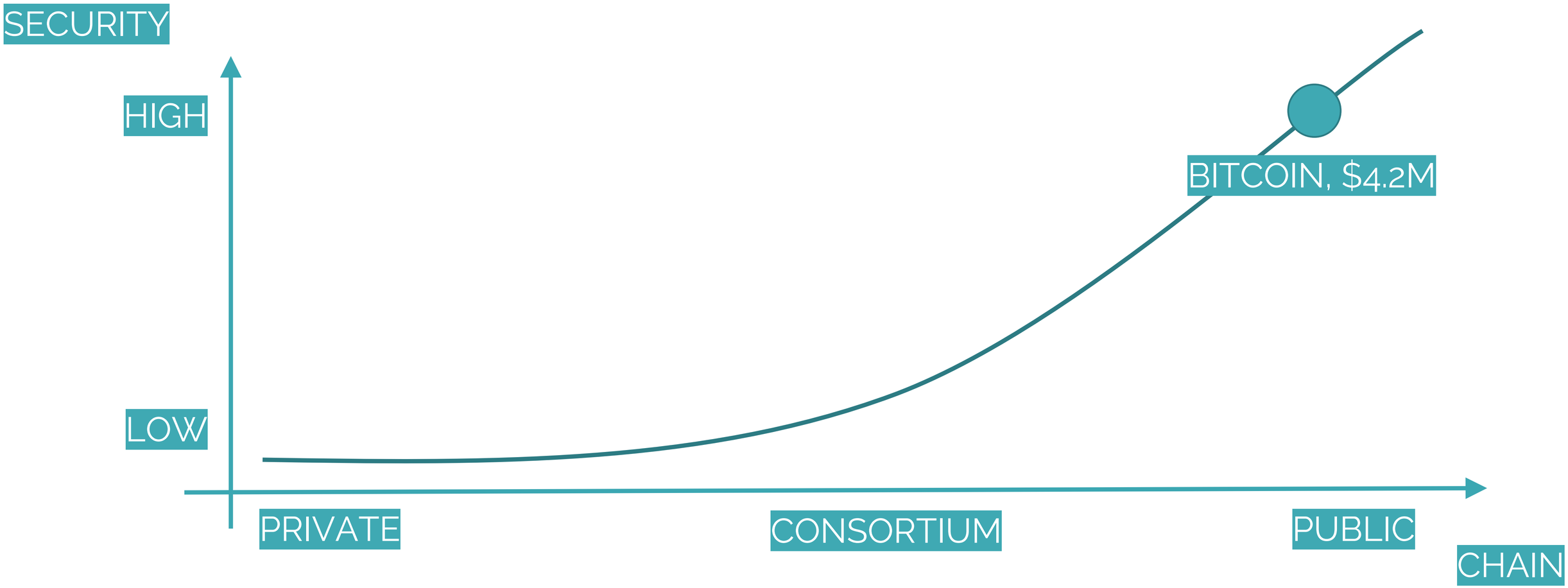

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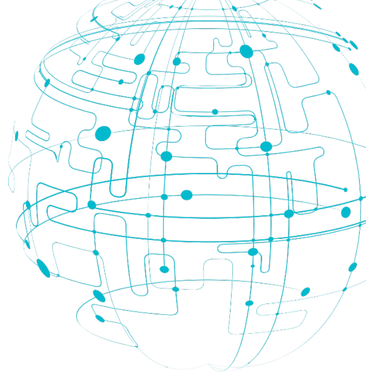

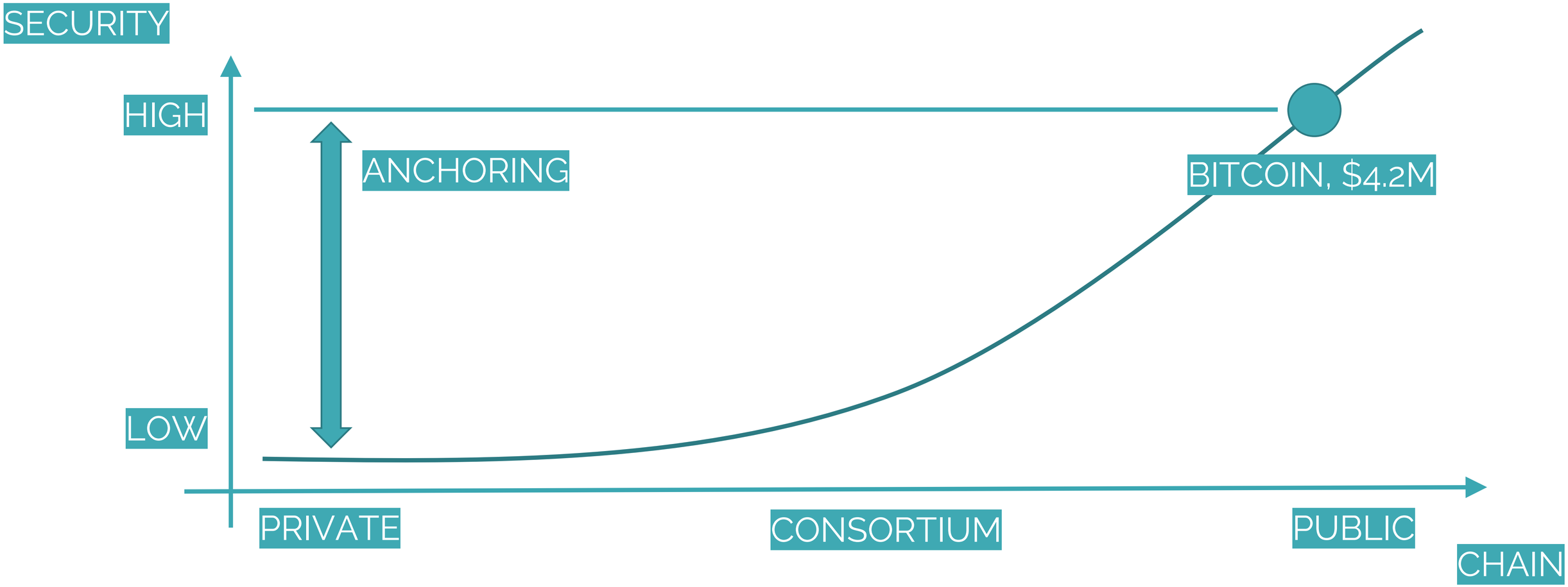

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LITERATURE

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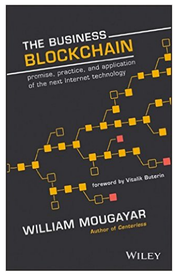

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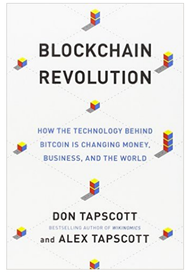

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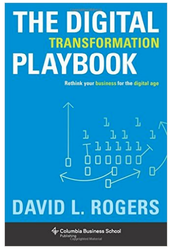

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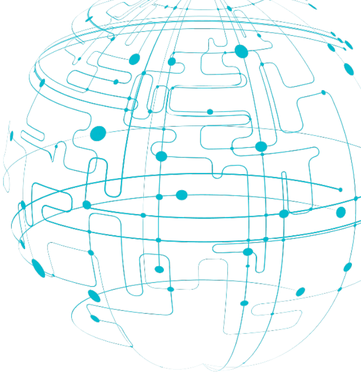

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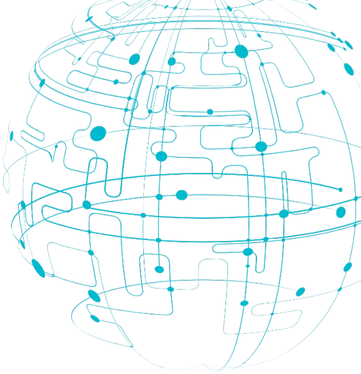

FAIZOD

faizod GmbH & Co. KG
Großenhainer Str. 101
01127 Dresden
Germany

Mail: kontakt@faizod.com
Web: www.faizod.com

Phone: +49.351.287082-20

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