

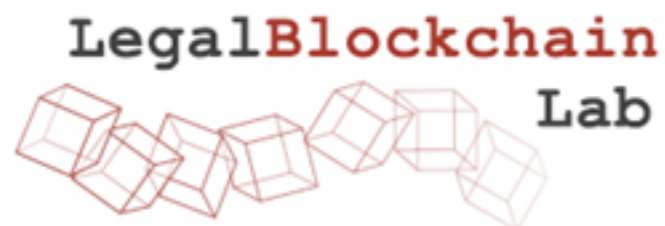


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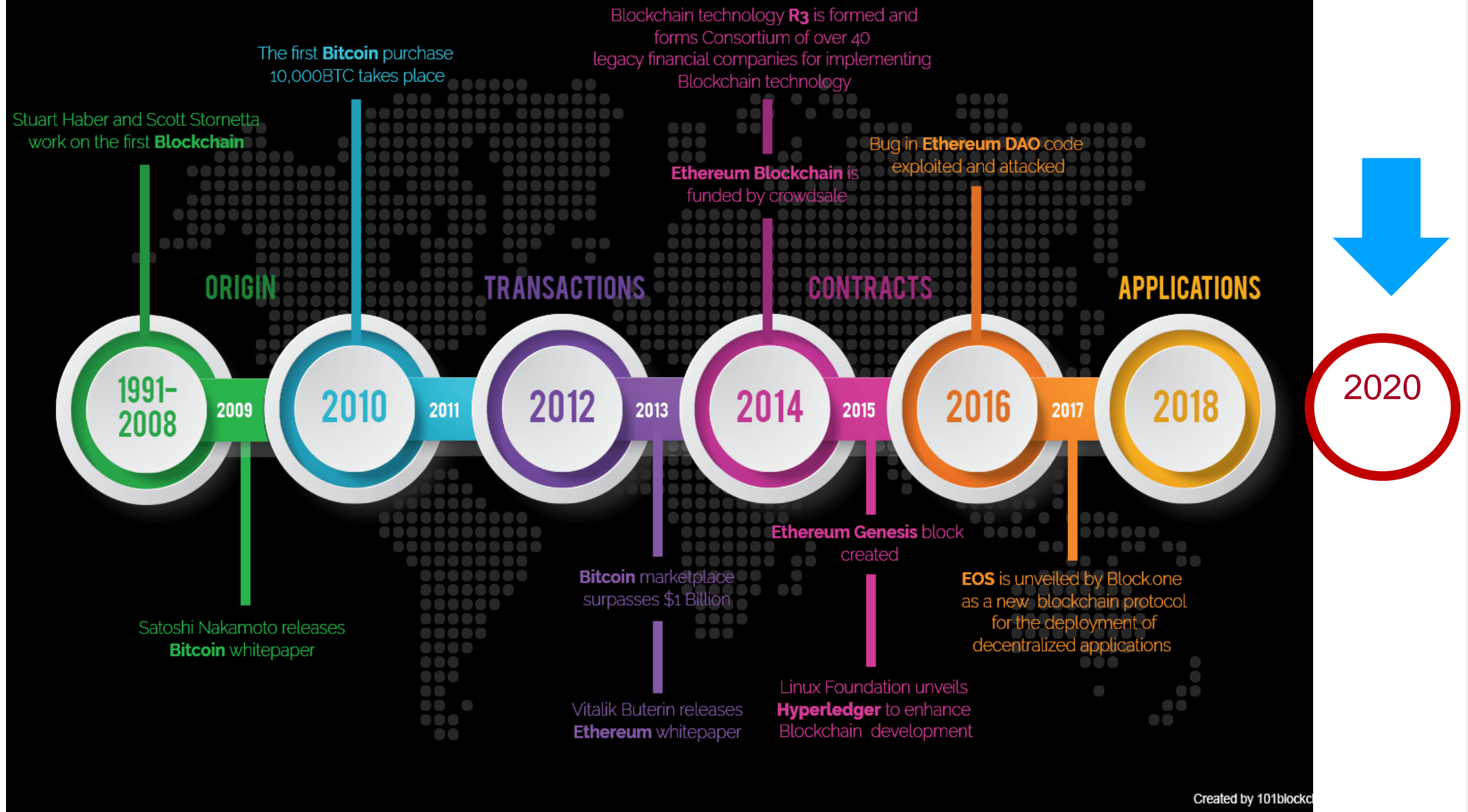
Blockchain, Smart Contract and Distributed Technology Ledger

CIRSFID-AI,
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Legal Blockchain Lab



THE HISTORY OF BLOCKCHAIN TECHNOLOGY



Distributed Technology Ledger

- Decentralized
- Integrity, Security, Legal Validity
- Transparent ledger
- Based on *consensus algorithm*

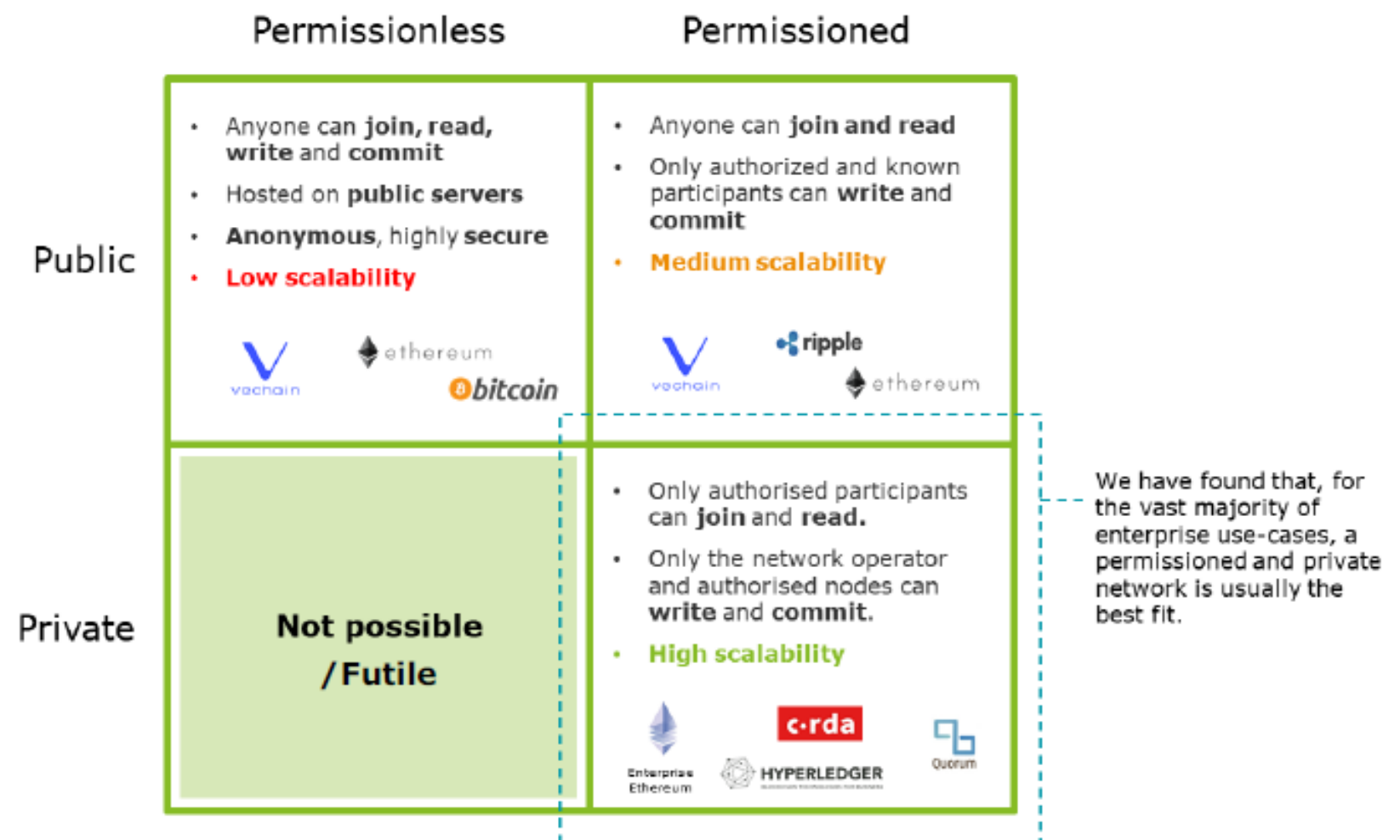


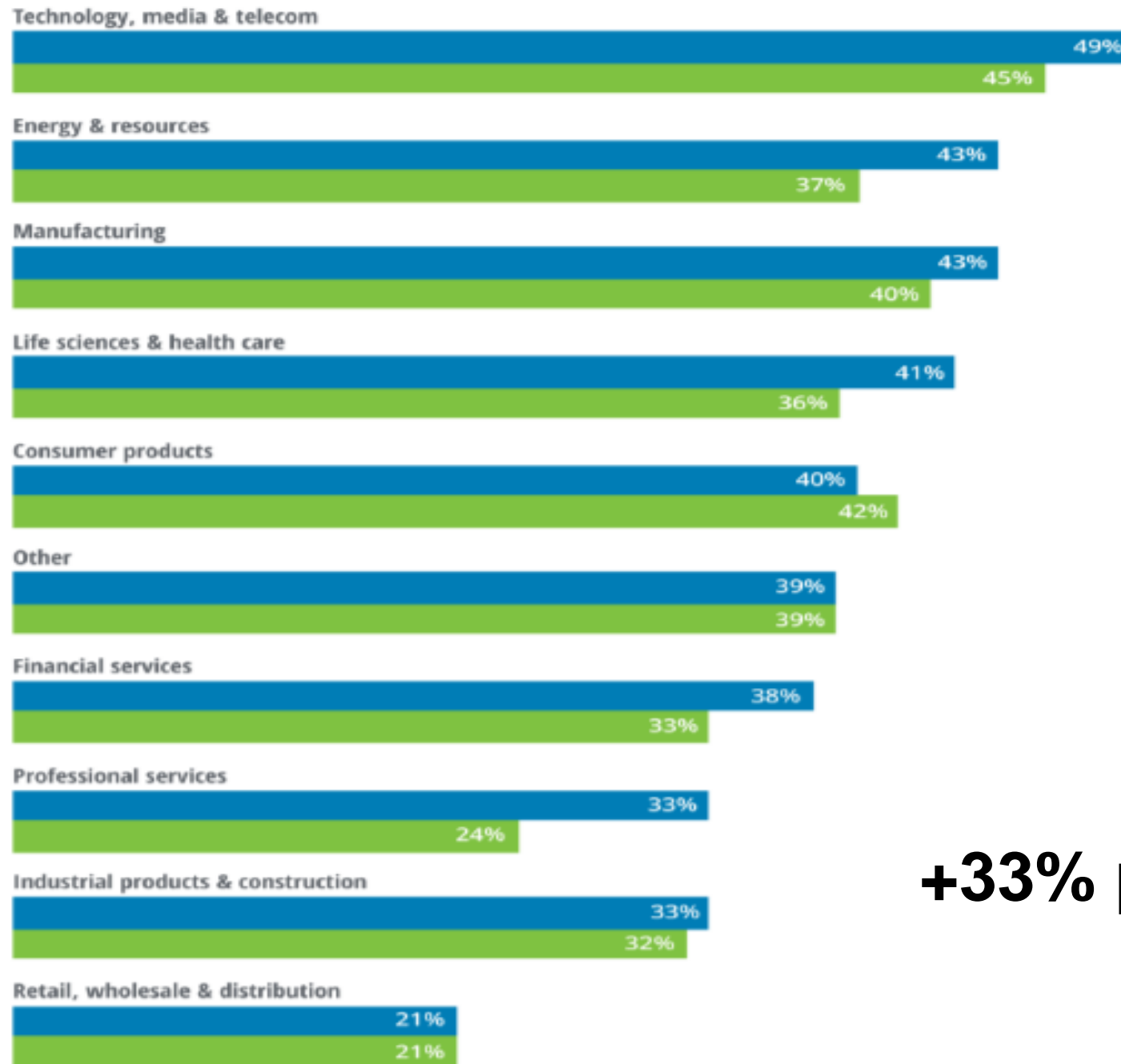
FIGURE 1

Share of respondents investing at least US\$5 million in blockchain initiatives

In nearly every case, planned spending of at least US\$5 million increased or stayed the same relative to the prior 12-month period

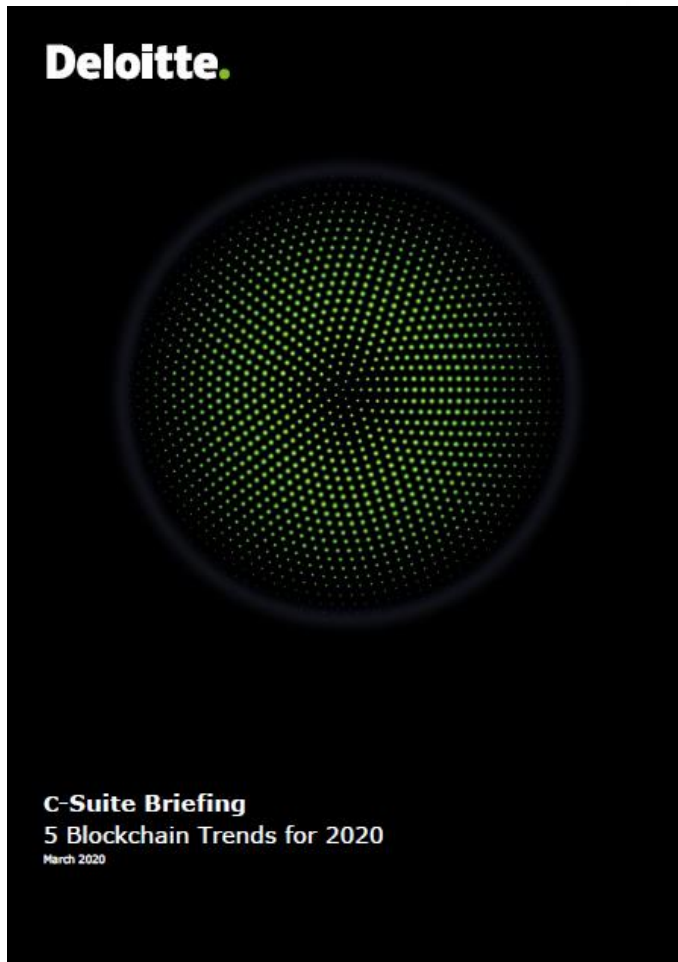
Survey question: Thinking specifically of blockchain technology, approximately how much has your organization or project invested in the next/prior 12 months?

■ Next 12 months ■ Prior 12 months



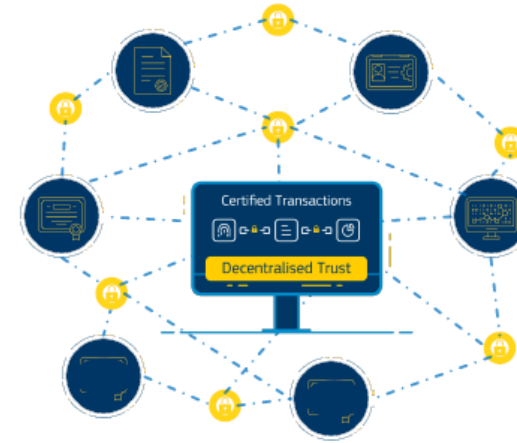
N=1,386 (2019 global enterprise)

Source: Deloitte 2019 Global Blockchain Survey; Deloitte analysis.



+33% professional services

European Blockchain Services Infrastructure



2019

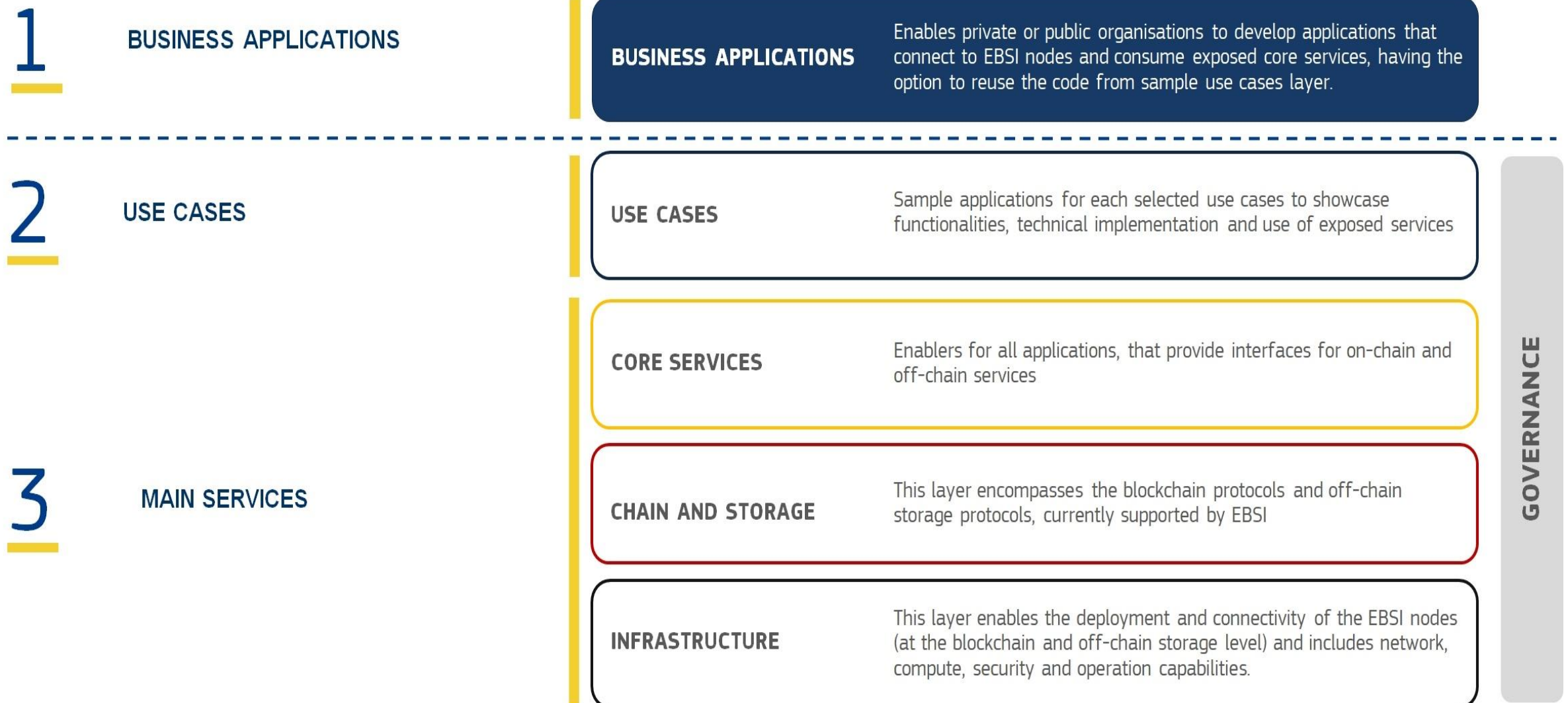
- 19 member states
- 4 pilot cases

2020

- 1 PUBLIC PERMISSIONED**
The identity of all participating nodes is known
- 2 DECENTRALIZED**
Each Member State should run its own set of nodes
- 3 SCALABLE**
Needs to support high-throughput and high number of nodes
- 4 OPEN**
(Preferably) open source
- 5 SUSTAINABLE**
Energy efficient (e.g. without Proof of Work - PoW)
- 6 INTEROPERABLE**
The EBSI should, as much as possible, be based on well-known standards and technical specifications

2021

European Blockchain Partnership



The 2019 EBSI use cases

Four use cases have been selected for 2019. For each use case, a Member State led and composed user group has been established. These user groups aim to deliver a prototype application on the EBSI blockchain by early 2020. A new set of use cases will be selected by the EBP Policy Group for 2020.



Notarisation

Leveraging the power of blockchain to create trusted digital audit trails, automate compliance checks in time-sensitive processes and prove data integrity.



Diplomas

Giving control back to citizens when managing their education credentials; significantly reducing verification costs and improving authenticity trust.



European Self-Sovereign Identity

Implementing a generic Self-



Trusted Data Sharing

Leveraging blockchain technology to securely share data (e.g. IOSS VAT

Applications

Anti-corruption
Anti-money laundering
Identity management
Privacy management
IPR and patent
Supply-chain
eHealth
eGov
eVoting
eDocumentation
IoT

<https://ec.europa.eu/digital-single-market/en/news/eu-funded-projects-blockchain-technology#Projects%20list>



Blockchain EU Funded Projects per sector and future technologies

