Enterprise
Blockchain
Solutions

Significantly reducing the cost and
complexity of doing business.

INDUSTRIA

Why Blockchain?

Blockchain's popularity is exploding globally, as the technology is reinventing the way we transact.

A Distributed Ledger Technology

Similar to the Internet where we exchange data, Blockchain enables the exchange of value to carry out any transaction where the data that is stored on the Blockchain is distributed among different servers and cannot be manipulated. It's an encrypted distributed database, absolutely resistant to theft or tamper.

Applications of Blockchain

Blockchain is mostly known as the technology behind cryptocurrencies like Bitcoin but it can support a wide range of applications.

It can leverage any business transaction that can include right from Business order tracking, Supply chain, Banking and Finance, E-Learning, E-Voting, Healthcare, Online Shopping, Insurance, Travel, Music, Renewable Energy, Contract Validation and many others.

The distributed ledger technologies enable us to align the information systems with the business processes, especially in a more decentralized setting, making them more efficient and saving costs. With the use of the blockchain technologies, we avoid the over-centralization of industries, and of society.

How can you benefit from the blockchain technology?
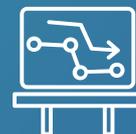
IMPROVED
AUTOMATION

REDUCED DATA
STORAGE COST

REDUCED TIME FOR
ADMINISTRATION

ELIMINATION OF
DUPLICATED DATA

ENHANCED
DATA SECURITY

TAMPER-PROOF
TECHNOLOGY

Blockchain for Business

Integrating the benefits of blockchain with existing enterprise software solutions.

The cryptocurrency-based blockchain model, popularized by public blockchains like Bitcoin and Ethereum, currently falls short of fulfilling a set of requirements that many types of organizations would have to fulfil in order to be compliant when using blockchain and distributed ledger technologies, like the financial services, healthcare, and government sectors.
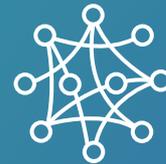
Blockchain is a new data structure with an automated way to enable trust between participants. Consensus algorithms ensure that all participants agree on the data that is stored on the blockchain. Blockchain opens the door to disrupt any industry that relies on a central authority to confirm authenticity. It also allows independent and even competing organizations to share information to gain efficiencies across an industry.

Blockchains can drive business innovation through controlled data-sharing networks for industry consortiums.

Permissioned Blockchains

A consortium of organizations is responsible for authenticating and controlling the participants in the blockchain.

Public Blockchains

No central authority or administration is required to exchange data. Data is visible for all parties.

The promise of distributed ledger technologies (DLT) to simplify and automate key work functions is exciting for a lot of industries. Businesses recognise the efficiency gains from transitioning from closed and propri etary solutions to standard open source capabilities, such as the Hyperledger business blockchain technologies. Several common project features of blockchain applications are taking shape as the technology matures.

Solutions

Modern and secure infrastructure to power the future of transactional applications.

At INDUSTRIA, we are using Hyperledger and Corda – unique platforms that are developing permissioned distributed ledger frameworks specifically designed for enterprises and the financial sector, including those in industries with strong compliance requirements.

We view Hyperledger Fabric as the ideal platform for integrating the benefits of blockchain with existing enterprise software solutions. Corda by R3 is located at the other end. It has been consciously designed as distributed ledger technology for the financial services industry. Most notably, it takes the highly regulated environment into account by augmenting smart contracts with legal prose.

Enterprise use cases require capabilities such as scalability and maximum rate of production, built-in or interoperable identity modules for the parties involved in a transaction or a network, or even access to regulators that can access all data in the ledger as read-only, to ensure compliance.

The latter is particularly important because, regardless of the technology innovation, it has to operate within the current regulatory framework, as well as comply with any new rules that come into place, specifically targeting blockchain technologies.

Our holistic approach toward both Corda and the Hyperledger umbrella product strategy enables us to focus on the technical capabilities of Blockchain:

✓ Distributed ledger technology has the potential to drive simplicity and efficiency by establishing new financial services infrastructure and processes

✓ Distributed ledger technology will form the foundation of next generation financial services infrastructure in conjunction with other existing and emerging technologies

✓ Similar to technological advances in the past, new financial services infrastructure will transform and question foundational orthodoxies to today's business models

✓ The most impactful distributed ledger technology use cases will require deep collaboration between incumbents, innovators and regulators, adding complexity and delaying implementation horizon
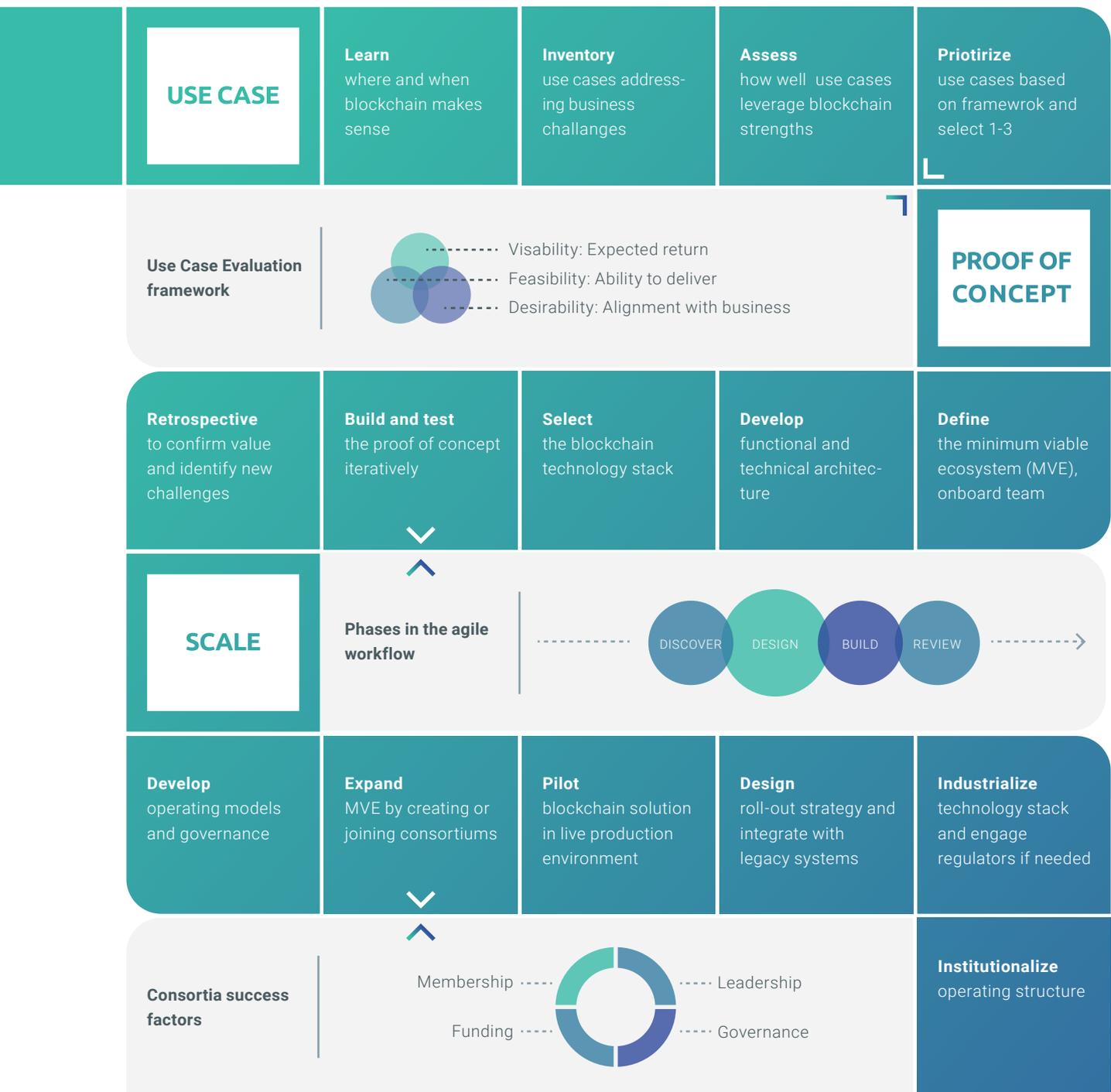
HYPERLEDGER   **c•rda**

Services

Our services follow the full lifecycle of blockchain solution development, from research, to proof of concept, building, and scaling.

USE CASE	**Learn** where and when blockchain makes sense	**Inventory** use cases addressing business challanges	**Assess** how well use cases leverage blockchain strengths	**Priotirize** use cases based on framewrok and select 1-3

Use Case Evaluation framework

Visability: Expected return
Feasibility: Ability to deliver
Desirability: Alignment with business

PROOF OF CONCEPT

Retrospective to confirm value and identify new challenges	**Build and test** the proof of concept iteratively	**Select** the blockchain technology stack	**Develop** functional and technical architecture	**Define** the minimum viable ecosystem (MVE), onboard team

SCALE

Phases in the agile workflow

DISCOVER — DESIGN — BUILD — REVIEW

Develop operating models and governance	**Expand** MVE by creating or joining consortiums	**Pilot** blockchain solution in live production environment	**Design** roll-out strategy and integrate with legacy systems	**Industrialize** technology stack and engage regulators if needed

Consortia success factors

Membership — Leadership
Funding — Governance

Institutionalize operating structure

Why INDUSTRIA?

Our goal is to significantly reduce your cost and complexity of doing business.

15 years of Modernising Bank and Financial Sector

We built INDUSTRIA 15 years ago, in the middle of the Internet revolution. Most of our clients like UniCredit, Raiffeisen Bank and UNIQA come from the bank and financial sectors and have been with us throughout the years. We always aim to deliver high quality and on time, treating our clients as our long-term partners.

Processes and Technological Revolutions

We understand the processes in our field, having witnessed many new technologies evolve and disrupt the status quo. Our craft requires us to adapt fast, which is why each of our team members is always learning new skills. Today, blockchain is the next technological revolution that is redefining the way we transact.

Blockchain/DLT Evangelists

We are true believers that blockchain and DLT are the technologies of trust, recording the movement of goods and data in a tamper-proof and secure way. Witnessing technological revolutions for the past 15 years, we recognize a new and upcoming trend that is about to bring the next level of efficiency.

Contacts