

r3.

**Building the future of
frictionless commerce •**

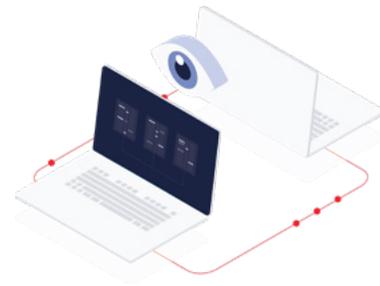
c.rda

The rising cost of mistrust •

Today's business processes need an overhaul. To transact with trust, most companies rely on costly systems and complex technologies. Yet duplications, time-consuming reconciliations and friction remain the norm. In an era where companies should be capitalizing on next-gen technology, they are held back by legacy systems that limit transparency and stifle innovation.

Blockchain technology unlocks a world where businesses of all types can transact directly and securely with one another. Everybody involved in a transaction will know what happened, when it happened and that their counterparties are seeing the same thing—without an intermediary providing assurance, and without having to reconcile the data afterwards.

The result? Companies can transact and cooperate with trust—even with parties they've never dealt with before. And they can do this while streamlining business processes and dramatically reducing costs.



Legacy processes limit transparency and block innovation.



Unlock new value + transform your business •

While **blockchain** first came to prominence as the technology underpinning bitcoin, businesses stand to reap the most long-term benefits from distributed ledger technology (DLT).

How? By enabling processes to be simplified and automated through shared logic coded into smart contracts on the blockchain. By facilitating seamless yet secure sharing of consistent data across firms and entities. By eliminating fees paid to trusted intermediaries to arbitrate discrepancies. And, by reducing complexity on all sides.

The potential of blockchain is attracting rising interest across nearly every industry, triggering growth in real-world applications across insurance, global trade, financial services, healthcare, digital identity, and more.

By 2022, blockchain investment across industries is expected to reach \$12.4 billion, according to research firm IDC.



Your trusted partner •

R3 delivers blockchain technology suited for every business in every industry.

As a **pioneer in enterprise blockchain software**, R3 is committed to ensuring our customers derive the greatest value from their investment.

We recognize that blockchain adoption is an evolution—not a revolution. Founded initially as a consortium, industry-wide collaboration is rooted in our heritage. We view every customer as a true partner and recognize that we are on this journey together.

Every blockchain application built on Corda—no matter at what stage—deserves a trusted partner who is invested in their long-term success.

Whether you are in a discovery phase, already building, testing, or ready to go live with your application—we have entire teams at R3 committed to accelerating your time to market and cultivating your success. Our Advisory Services, **Venture Development**, and **Professional Services** teams are here to help.



Our longstanding joint journey with R3 has proven that this is the most mature enterprise DLT solution to serve the needs of the financial services industry and empower clients to transition to a distributed economy.

Annerie Vreugdenhil, Head of Innovation for Wholesale Banking, ING



The only blockchain for business •

R3's blockchain platform, Corda, enables companies in any industry to solve the complex, real-world challenges of global commerce. It was purpose-built to be a 'blockchain for business' and easily integrates with existing IT systems and technologies.

Operating in the middle of the stack, **Corda** is a platform that supports and underpins top-of-stack applications, known as CorDapps. These apps are built by our customers to solve real-world problems, and can be written in Java, a language used by **over 12M developers**.

Corda easily integrates with the systems that run most businesses, including relational databases, message queues, and the Java Virtual Machine™.

Corda: like no other blockchain

Corda takes trust to a new level. Permission-less, or public broadcast, blockchain platforms—in which all data is shared with all parties—have drawbacks that render them largely unsuited for global businesses. As a permissioned platform with tailored smart contracts, data is shared only with those parties who have a 'need to know'. This unique feature not only ensures privacy, because transactions are not intermingled, it also means it's highly performing and scalable. Get started with **Corda**.

An enterprise ready platform with regulator buy-in.



Mirka Skrzypczak,
Head of Working Capital & Trade Products, NatWest



The de facto enterprise blockchain platform •

Corda Enterprise is a commercial distribution of Corda specifically optimized to meet the demands of modern-day businesses. It is designed for organizations with exacting requirements around quality of service and the network infrastructure on which they operate.

Corda Enterprise offers the core attributes of Corda open source along with additional business requirements you would expect and need when you license enterprise software, such as 24/5 support, predictable release schedules, high availability, and support for industry-standard enterprise databases.

Discover why Corda Enterprise is the only software platform that delivers blockchain for your business.

“ You can write an application that is deployed on Corda open source and individual firms on Corda Enterprise can interoperate with those who are using open source. This offers a really nice balance. You are safe at all times in the knowledge that both versions of Corda are interoperable and compatible.

Richard Gendal Brown,
Chief Technology Officer, R3



Proven performance

Handle a large number of transactions per second (TPS) and validate and enhance your setup with the performance test suite



Private + scalable

Transaction history is shared on a need-to-know basis which means it's highly scalable



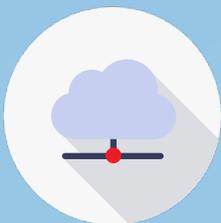
Secure

Multiple nodes can be hosted inside the corporate firewall and HSM integration ensures protection for signing keys



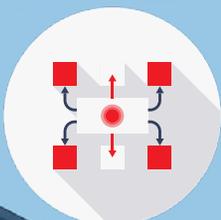
Enterprise integration

Easily integrates with mission-critical systems and database technologies that underpin your business



Cloud ready

Deploy Corda Enterprise on any cloud solution and quickly standup new nodes



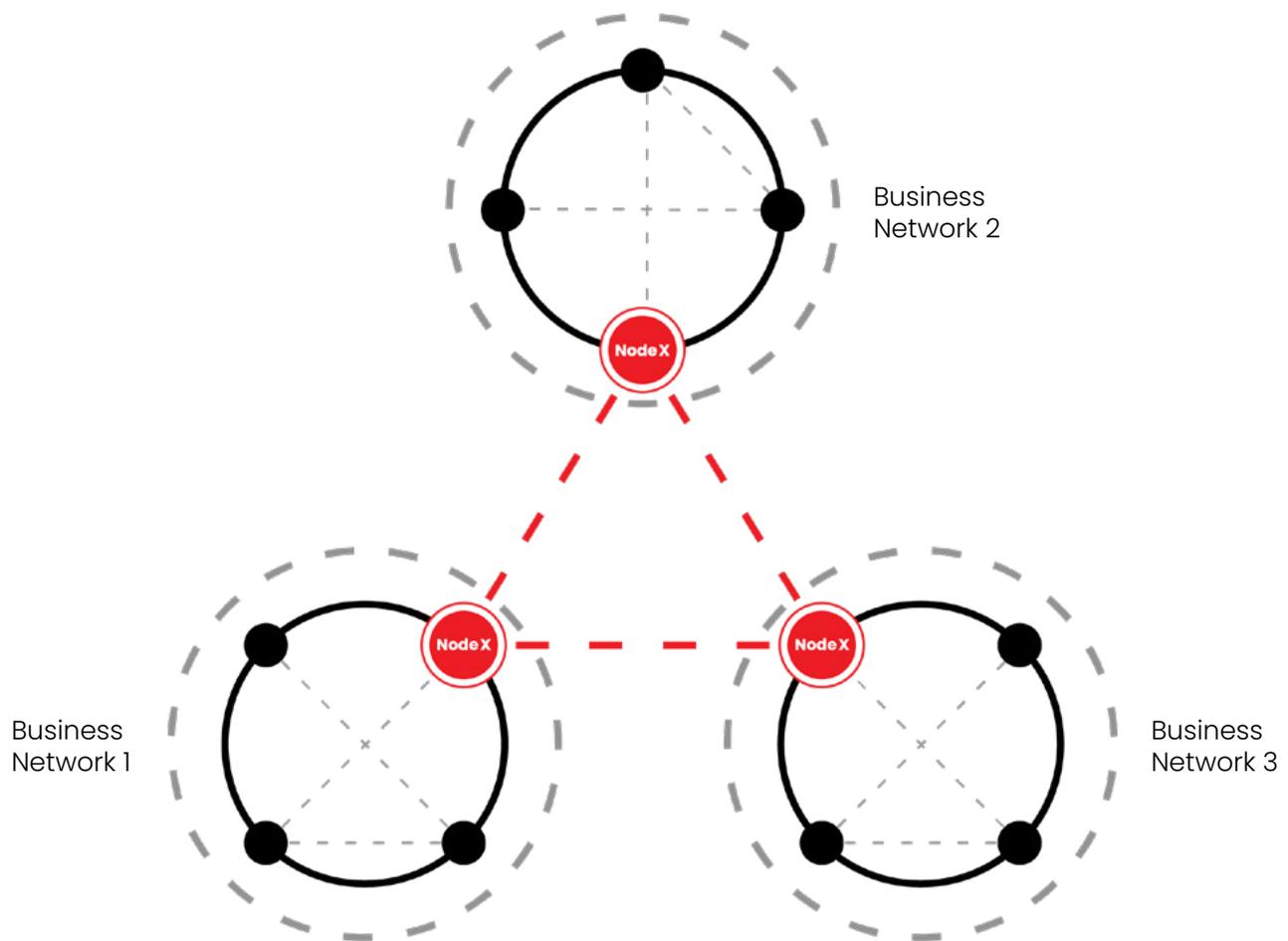
Interoperable

100% compatible and interoperable with Corda open source and enables blockchain networks of all kinds to transact with one another

Corda Network

One of the Corda platform's key advantages is **Corda Network**—an underlying network that provides a common layer of identity and consensus for nodes operating across different business networks. Each node represents a network participant's unique identity, and Corda Network allows data and digitized assets to move freely between the different nodes while protected by Corda's privacy model.

The result is no trapped assets: firms can use a single set of assets across their business, reducing the cost of capital tied up in any single activity.



Corda Network Foundation

Corda Network is governed by a not-for-profit **Foundation**, set up and domiciled in Holland. Corda Network participants are eligible to vote and stand for the Foundation's Board and make key decisions around it—including network standards, parameters and policies.

Driving the tokenization of everything •

The ability to represent assets on a digital system and execute transactions using blockchain technology is creating new markets for previously illiquid assets, reducing risk and cost in post-trade systems.

Digital assets, commonly known as tokens, can represent virtually any asset or agreement between parties today. These tokens boost market efficiency by enabling end-to-end solutions combining trading, settlement and custody services into one seamless offering.

R3 develops the tools and languages necessary to kickstart our clients' CorDapp development, especially in the digital assets industry. The two most recent R3 offerings enable the creation and settlement of digital assets.

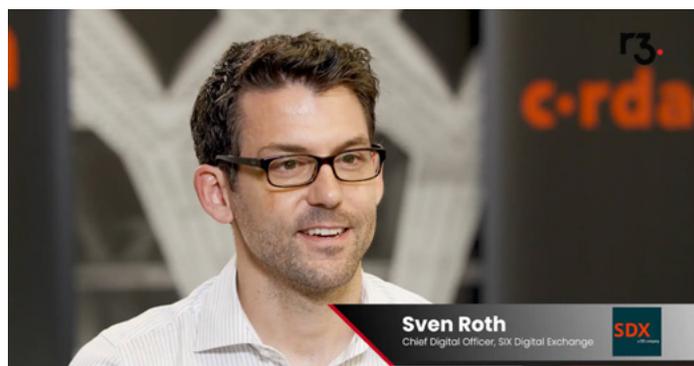
Corda Settler

An **open-source CorDapp** that allows payment obligations arising on Corda to be settled via any parallel rail supporting cryptocurrencies or other crypto assets, and any traditional rail capable of providing cryptographic proof of settlement.

Token SDK

The **Token SDK** provides financial institutions and application builders with a standard token library and a consistent developer experience to issue, list, exchange and settle digital assets on the Corda platform.

Tokenized cash on ledger: the first regulated, end-to-end market infrastructure for digital assets.



Sven Roth,
Chief Digital Officer, SIX Digital Exchange

Unlocking market opportunity in every industry •

Built for the needs of regulated institutions, R3's Corda platform delivers privacy, scalability, and security making it the leading 'blockchain for business'.

R3 is not only committed to using blockchain technology to drive operational efficiencies in a wide array of industries, but we also believe Corda will **transform entire industries**.

Independent software vendors (ISVs), startups and consortia across trade finance, insurance, GovTech, collateral management, and syndicated lending are among early adopters who have already built apps and business networks on Corda—recognizing that they could leverage Corda to unlock new value and transform business problems that have plagued their customers for decades.

With Corda, organizations can:

- **Reduce operational cost and risk** by streamlining complex, multi-party transactions
- **Gain a competitive advantage** by offering new ways of doing business
- **Grow revenue** by creating and monetizing new networks

All while delivering unprecedented levels of trust between parties.

Mature technology, fit for production.



Harold Bosse,
VP Product and Innovation, Mastercard



“ R3 offers the right mindset, the right engineering team and the right vision for the future. And the Corda platform offers the optimal solution in the market to deliver the B3i roadmap and our industry-wide insurance blockchain ecosystem.

Markus Tradt, CTO, B3i

Transforming industries



Capital Markets

Designed for highly-regulated, mission-critical environments, Corda delivers a scalable and secure platform on which transactions can be verified and executed enabling simplification of the processes spanning the asset lifecycle.



Digital Assets

The rise of digital assets is the third innovative wave in blockchain after the initial explosion of cryptocurrencies and the ensuing enterprise application of the technology. With Corda, you can natively support the identity, privacy, scalability and finality requirements of the digital assets market.



Digital Identity

Blockchain enables individuals' identities to be proven and verified, while users can manage and monitor which organizations have access to their data. Corda offers end-to-end data encryption and the minimization of decentralized framework simplifies access to verified identity.



Energy

Energy companies today contend with a host of inefficiencies and Corda enables secure and scalable P2P interactions by modernizing energy trading platforms, improving back-office systems, and digitizing trading in the commodities space.



GovTech

Government pain points include slow, complex registers and transfers, limited access to liquidity, significant lags in payments due to reconciliations, and ineffective tracking of procurement goods and services. Corda enables government-local, state, and federal-to become more efficient, responsive, and better able to serve society.



Healthcare

Nearly every function across the healthcare value chain is primed for a blockchain solution—from pharmaceuticals to patient administration. Corda's unique privacy model and smart contract capability provide a secure and efficient platform for exchange and verification of patient and provider identity.



Insurance

R3 now counts all major insurance blockchain consortia as Corda customers. Insurers face similar pain points to banks, such as validating identities, accessing reference data and managing financial agreements. Corda's design enables a network of insurers, brokers, cedants & reinsurers to interact securely & in near real-time.



Supply Chain

Corporate buyers, suppliers and logistics providers demand greater visibility into the origin and movement of goods and more accurate and timely supply chain data to address inefficiencies in supply chains. By leveraging Corda, global trading partners can transact securely and with consensus over shared facts to increase efficiency, transparency and visibility.



Telecommunications

Corda brings telecoms into the digital age by streamlining data management, logic and processes for everyone from fixed-line and wireless telecoms to industry hardware providers—by providing a secure and scalable platform where multiple parties can share data.



Trade Finance

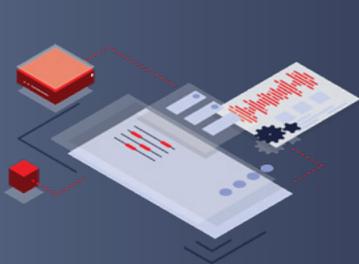
The global trade market remains heavily dominated by paper processing and fragmented supply chain processes making it ripe for a blockchain solution. The majority of large-scale trade finance blockchain projects across the world are now being run on Corda.

Discover why our [customers](#) are choosing Corda and check out our [case studies](#).



Technology for the real world •

Blockchain technology can unlock huge potential for organizations—cost savings, faster dealings and streamlined processes. However, there is no ‘one-size-fits-all’ approach to deployment because no two journeys are the same. As part of each Corda Enterprise license, R3 provides **Professional Services** to support you on your end-to-end blockchain journey.



Design

Evaluate use cases, review existing applications to unlock the full value of blockchain for your business.

Develop

Embed Corda developers and delivery experts into your organization to help you create an industry initiative and optimize production.

Deploy

Establish a business network, deploy a node on-premises or in the cloud, and integrate your solution into your business operations.

Technical Support

A team of software engineers provide first to third line technical support for Corda Enterprise, Corda Network, and anyone on Corda open source who has signed a support agreement. We use a follow-the-sun model and are available 24/5 to troubleshoot technical issues.

Training

Developers who want to participate in Corda's development—or simply learn more about Corda—can sign up for a in-person or virtual instructor-led session specifically designed to kickstart or expand their CorDapp skills. Learn more [here](#).

Developer Community

Corda uses existing technologies and languages to make development easy. Start developing your CorDapp now. Our [documentation](#) contains an introduction to the key concepts and technology, as well as tutorials.

Corda is backed by a vibrant community. Connect with Corda enthusiasts through events and more [here](#).

Venture Development

R3 offers a variety of resources and support to blockchain start-ups and entrepreneurs at every stage of their journey to help shorten their time to market and dramatically increase their odds of long-term success. Learn more [here](#).

Advisory Services

R3 offers a suite of advisory services to help accelerate time-to-value for customers looking to build, deploy, and run Corda Enterprise-based solutions and networks.

Why our customers choose R3 •

The success of our customer's CorDapps is paramount. We believe in building strong and long-lasting relationships, prioritizing our customers and their customers and striving to create the best possible Corda experience for them.

R3 leads the largest blockchain **ecosystem** in the world, comprised of hundreds of firms building applications on Corda, exploring blockchain, and embracing this technology to solve real-world problems.

But don't just take our word for it...

Want more success stories? Check them out here at r3.com/case-studies.

“ As a highly regulated and trusted financial market infrastructure provider, SDX must operate at the highest levels of security and stability. Corda Enterprise has been designed specifically to satisfy these requirements.

Sven Roth,
Chief Digital Officer,
SIX Digital Exchange



Corda Enterprise marks the beginning of a new phase for the blockchain industry that will allow businesses to build enterprise-grade applications securely using cutting-edge technology. As blockchain becomes increasingly mainstream, we believe Corda will emerge as a true market leader across the financial industry and beyond.

John Velissarios,
*Managing Director and
Global Blockchain Technology Lead,*
Accenture



Intel is actively collaborating with R3 to address the privacy capabilities businesses require to accelerate blockchain adoption, using silicon-based technologies like Intel® Software Guard Extensions (Intel® SGX), which can help improve the privacy and security of blockchain solutions.

Michael Reed,
Senior Director of Blockchain Solutions,
Intel

The network effect ●

Blockchain benefits are best realized with a network effect where industry participants come together to transform and connect entire industries.

Ecosystem participants are highly diverse in terms of industries, regions, types of companies and stages of blockchain app development and participation, yet they share one common goal—to harness the power of Corda to deliver distributed applications and services in new, more nimble ways that deliver lower costs, higher capital efficiency and new revenue opportunities.

CorDapp builders also gain additional market exposure by speaking at CordaCon, regional CordaDays and participation in white papers, case studies, Life in the Fast Chain podcast, R3 Ledger feature stories, videos, webinars and more.

Marketplace

Marketplace is a web platform that brings our ecosystem—app builders and explorers—together to discover solutions built on Corda. Showcase your own CorDapp, while browsing Corda solutions across a wide array of industries.

Partner with us on your blockchain journey

Industry-wide collaboration is in our DNA and by working with R3, you will gain a partner who believes our success is 100% dependent on the success of our customers. We believe the future is frictionless, the future is blockchain, and the future is Corda.

We invite you to **join us** on a journey to a world where business partners operate in perfect synchrony and trustless interactions are a thing of the past.





Try **Corda Enterprise** by downloading it today.

Or join the developer community and get started with **Corda open source**.

Contact us today to start your blockchain journey.



Continue the conversation

 r3.com | corda.net

 [@inside_r3](https://twitter.com/inside_r3) | [@cordablockchain](https://twitter.com/cordablockchain)

 r3.com/blog | corda.net/blog

 linkedin.com/company/r3cev-llc/

About R3

R3 is an enterprise blockchain software firm working with a broad ecosystem of more than 300 participants across multiple industries from both the private and public sectors to develop on Corda, its open-source blockchain platform, and Corda Enterprise, a commercial version of Corda for enterprise usage.

The Corda platform is already being used in industries from financial services to healthcare, shipping, insurance and more. It records, manages and executes institutions' financial agreements in perfect synchrony with their peers, creating a world of frictionless commerce. Learn more at r3.com and corda.net.

New York

11 West 42nd Street,
8th Floor New York,
NY 10036

London

2 London Wall
Place, London
EC2Y 5AU

Singapore

18 Robinson Road,
Level 14-02,
Singapore 048547

São Paulo

Av. Angélica, 2529 -
Bela Vista, 6th Floor
São Paulo - SP,
01227-200, Brazil

Hong Kong

40-44 Bonham Strand,
7F Sheung Wan,
Hong Kong