The pandemic and consumer demand for digitization are forcing companies to “go digital” faster than ever before. Digital assets and digital currencies are gaining momentum, while risk management and data privacy continue to be critical priorities, especially for regulated entities.

The new digital economy presents an opportunity for institutions in regulated markets to optimize existing processes and innovate to build new applications by leveraging next-generation trust technology.

“With digital trust emerging as a paramount concern for organizations and consumers, business leaders and technology suppliers must expand their understanding of trust and its importance to succeed in the new digital economy. Customers want to know that the companies they do business with are authentic and trustworthy. Businesses, in turn, need to demonstrate their authenticity and trustworthiness through their technology solutions.”

SOURCE: FUTURE OF TRUST BY IDC
Trust technology powered by a production-grade DLT platform

R3’s Corda is a scalable, permissioned peer-to-peer (P2P) distributed ledger technology (DLT) or blockchain application development platform that enables the building of multi-party applications that foster and deliver digital trust between parties in regulated markets.

Optimize: Drive system and business improvements

Drive accelerated time-to-value by automating and removing frictions, inefficiencies and unnecessary costs in your business operations. Modernize business processes and eliminate data errors through tokenization and other forms of asset digitization.

Innovate: Build new systems and revenue streams

Develop new solutions and revenue streams, tokenize new assets, and capitalize on new market opportunities with a ‘modularized’ platform and software development toolkits.
Superior development framework for digital assets, CBDCs and distributed applications

Why Corda
- A fast and future-proof way of building multi-party apps that can run on private, scalable and distributed P2P networks
- Built-in network access, business logic, automated workflows, SDKs and APIs for accelerated development
- On Corda networks, everyone is in sync; privacy is maintained, and control can be balanced with distribution
- A trusted protocol and infrastructure layer along with ‘out-of-the-box’ tools to build and commercialize next-gen multi-party applications with ease
- Maintain a single record of truth by recording, managing and synchronizing shared data between multiple parties across a ledger to ensure consistency and eliminate errors

Corda’s architecture includes capabilities, such as smart contracts for modeling digital assets and currencies, distributed business logic, network enablement with identities, memberships and permissions, as well as a private, scalable P2P network.

Build Fast, with Confidence

Enable automated, auditable, secure and confidential sharing, tracking, exchange, verification, payments, settlement, custody

Represent and model physical, financial and digital assets, such as data, contracts, tokens, money, credentials

Development framework
- Smart contracts and shared ledgers
  Model and issue assets based on a wide range of attributes.
- Business logic implementation
  Track assets and identify where contracts are in the process using an automated workflow framework.
- Membership
  Ensure Identities, mutual memberships and permissions are all known and determined.

CPI/CPK packages: Compose, deploy and distribute multi-party applications fast

Private, P2P network and ecosystem
Grow and scale with flexibility

**Utilize what you need, when you need it**
- Available in a community and enterprise version
- Develop in languages you already use such as any JVM compatible language
- Create apps and digital assets fast with standard toolkits and smart contracts that evolve with the asset lifecycle
- Easily map multi-party business processes to automate agreements using a resilient workflow framework

**Reduce time-to-market**
- Accelerate DevOps by testing locally with test networks
- Trial with an ecosystem of corporates, banks, FMs, regulators and receive go-to-market support from R3
- Leverage industry standards and definitions
- Simplify deployment with Corda as a managed service, on premises or via a third-party cloud provider

**Drive faster time-to-value**
- Optimize deployment with flexible application and end-user hosting, network options and R3 services
- Built-in network management with user permissions, governance and operations through a defined interface
- Scale dynamically as transaction volumes increase with Corda’s peer-to-peer architecture
- End-to-end support from R3 customer support, Professional Services and access to the R3 product team

**Key benefits**
- Enable the frictionless negotiation, creation and seamless exchange of high-value data, digital assets and smart contracts among counterparties where large degrees of coordination and trust are critical
- Streamline inter-firm automation across a business network and orchestrate complex multi-party workflows with resilience
- Develop solutions powered by the best-of-breed distributed ledger for regulated, institutional grade digital asset issuance, trading and settlement
- Accelerate the building of applications for pilots and proof-of-concepts that can easily scale as they become production-ready
Quickly and easily build apps on a superior dev framework

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
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<tr>
<td>Enterprise Scalability</td>
<td>Effortlessly scale frictionless transactions among participants, regardless of volume or need for speed</td>
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<tr>
<td>Security and Privacy</td>
<td>Peer-to-peer transaction privacy with data shared between parties only on a need-to-know basis</td>
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<td>Lower Total Cost</td>
<td>Reduce the cost of development and ownership with standard tech (Java/JVM, SQL, MQ, AMQP)</td>
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<td>Better Compatibility</td>
<td>Integrate with enterprise tech and tools, on- and off-ledger payment rails and interoperate across business networks</td>
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<td>Future-Proof Investment</td>
<td>High availability and ability to join multiple networks. Backed by leading financial institutions, tech firms and growing R3 ecosystem</td>
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<td>Sustainability</td>
<td>Minimal infrastructure carbon footprint by design. Corda uses less energy than public blockchain</td>
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<tr>
<td>Greater Control</td>
<td>Build fast and keep control. Start small and add features as you grow to optimize deployment and levels of decentralization</td>
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**Power of 3, only from R3:** Enabling end-to-end development of scalable high-value solutions

**Regulated markets expertise**
Leverage R3’s business expertise in regulated markets to embrace new digital trust solutions and opportunities that will power a new distributed financial services industry, while fitting within existing infrastructure, processes and regulations.

**Connected networks**
Customers have access to one of the world’s largest ecosystems of diverse participants—financial institutions, regulators, systems integrators, software vendors, tech firms and more—who deploy, service and manage permissioned enterprise DLT solutions.

**Trust technology**
Underpinned by distributed ledger and confidential computing technologies, R3’s platforms, Corda and Conclave enable the development of solutions that foster and deliver indisputable trust between parties.
Who we enable: banks, corporates, insurers, cloud providers, FMIs and exchanges

R3 can guide you from ideation to production

R3 offers end-to-end enablement services from ideation to production. Our expertise is based on best practice methodologies honed by years of experience deploying hundreds of apps in regulated markets.

Discover Professional Services.

Corda in action

Capital Markets
The most deployed DLT platform empowering one of the largest permissioned blockchain ecosystems in the world. Our experience drives real-world results for customers such as Nasdaq, DTCC, Six Digital Exchange, agora, Archax, HQLAX, VALK, GROW, and Ivno:

• 1st FCA-regulated exchange for fractionalized and tokenized digital assets
• 40% reduction of administrative costs
• 80% reduction in end-to-end processing time

The Corda platform will fit well into Nasdaq’s technology ecosystem and partnership strategy and allow us to harness the power of scalable design and a new level of interoperability.

JOHAN TOLL, HEAD OF DIGITAL ASSETS, MARKET TECHNOLOGY, NASDAQ
Banking
Enabling the frictionless exchange of high-value information, data and transactions among network participants where large degrees of coordination and trust are critical. Our experience drives real-world results for customers such as ING, Italian Banking Association, Wells Fargo, HSBC, and CoreChain:

• $225M+ digital B2B payment processes
• 1,000s of hours of back-office operations eliminated
• ≤1 day interbank reconciliation time, reduced from 30–50 days

Trade Finance
Corda empowers the largest and fastest growing distributed trade and working capital finance networks. Our experience drives real world results for customers such as Contour, DLT Ledgers, Siam Commercial Bank, Infosys, Marco Polo, Mphasis, and Gavea:

• 75% reduction in letter of credit cycle time
• 90% reduction in end-to-end processing time
• 70% reduction in procure-to-pay processes

“Working with R3 has proved to be a true and genuine partnership throughout the process from concept to production. We are confident that the dedicated professional services team will give us the best support on future upgrades of Spunta Banca DLT.”

ROMANO STASI, MANAGING DIRECTOR, THE ITALIAN BANKING ASSOCIATION (ABI)

“When it comes to trade finance, Corda is built for purpose. It offers all the benefits of other blockchain solutions—like speed, transparency and with immutability—but also overcomes two key issues that affect them. First, privacy: Corda uses permissioning to control how data is shared on the network. And second, scalability: the fact that data is only shared with certain parties means the network is efficient and highly scalable.”

VENKATRAMAN, GLOBAL HEAD, DOCUMENTARY TRADE, HSBC

Get started on Corda
Corda is available in two distributions—Community and Enterprise. Get started on the Enterprise Edition with a free 60-day trial here or check out the Community Edition on GitHub.

Get started on Corda

Interested in learning about Conclave, R3’s Confidential Computing SDK that integrates with Corda? Discover more at conclave.net.
Get in touch

Discover how R3 can help you realize the full potential of digital trust.

About R3

R3 is a leading provider of enterprise technology and services for the development of multi-party solutions. We enable direct, digital collaboration in regulated industries where trust is critical. R3 delivers the "Power of 3"—trust technology, connected networks and regulated markets expertise—to enable the end-to-end development of scalable, high value solutions.

One of the first and only companies to deliver a private, scalable distributed ledger technology (DLT) platform alongside confidential computing capabilities, R3 empowers regulated industries to realize the full potential of trusted direct collaboration.

R3 maintains one of the largest DLT production ecosystems with over 400 institutions, connecting industry leading systems integrators, software vendors, cloud providers, technology firms, financial services firms and tech firms.

For more information, visit r3.com, corda.net, conclave.net or connect with us on Twitter and LinkedIn.

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Build
Develop, extend or co-create multi-party applications and business networks with our next-gen technologies.

Participate
Join one of the hundreds of current DLT business networks, sandboxes and data sharing applications underpinned by R3’s trust technology. Accelerate time-to-value with programs such as Venture Development.

Partner
Join our thriving partner network of systems integrators, software vendors, cloud providers, financial services firms and tech firms.

Visit r3.com today