Regulatory and business change in Capital Markets is driving technology transformation at an unprecedented pace. Investment Banks, Exchanges and Financial Market Infrastructures (FMIs) are seeking new ways to address increased risk, reporting and liquidity requirements.

On the Corda platform the capital markets industry is finding new ways to operate. New applications ensure the highly secure sharing and processing of transactional information, and the digital representation of institutional grade assets. This means greater transparency and better reconciliation based on trusted data, and the ability to create new assets types and services.

R3’s 350+ vibrant ecosystem includes the world’s leading financial market service providers, FMIs and institutions applying enterprise blockchain to unlock value in the end-to-end asset and transaction lifecycle. Leading projects in capital markets have chosen the Corda platform for its proven approach to privacy, security, scalability and production deployment in highly regulated markets.

Corda provides the platform for applications that enhance liquidity, reduce costs and transform transaction processing. Business collaboration based on a single source of truth enables the robust issuance and trading of digital assets, intraday collateral management and more efficient settlement and regulatory reporting.

As a highly regulated and trusted financial market infrastructure provider, SIX must operate at the highest levels of security and stability. We felt Corda Enterprise was the best fit for the scale and breadth of service we envisage with SDX.

Sven Roth, Chief Digital Officer, Six Digital Exchange
Why R3 and Corda for Capital Markets?

R3 ecosystem
Access the largest network of trading participants providing access to banks, digital-issuance platforms, exchanges, clearers and payment agents.

Privacy and immutability
Create applications that allow participants to operate in a trusted environment, with instant and assured authentication, validation and real-time auditing throughout the transaction lifecycle.

Scalability and resilience
Uphold the performance and integrity expected of the world’s most highly regulated and technologically advanced industry sector. Corda has proven it can scale to underpin even the most complex and high volume markets in production environments and multiple benchmarking studies.

Enterprise tokens and development toolkits
Leverage the Token SDK for market standard token issuance, trading and redemption and Corda Settler for enhanced on- or off-ledger payment and settlement services.

Transaction finality
Execute delivery vs payment seamlessly with atomicity, legal recourse and interoperability with various payment rails.

“Why R3 and Corda for Capital Markets?

Our long-standing 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

Learn More
Exchanges, custodians and clearers are unlocking new pools of liquidity through the listing, trading and instantaneous settlement of a diverse, alternative breed of new digital assets. For exchanges, it simplifies the issuance of instruments like real estate, renewables and other ESG investments. In turn, this offers valuable new investment opportunities to members, and unlocks massive value for issuers. Initiatives like the SIX Digital Exchange (SDX) enable frictionless trade across a diverse universe of new instruments between trusted participants. The platform offers asset issuance, trading, settlement and regulatory compliance with immediacy and finality, on the ledger.

Banks and brokers can collaborate freely in a trusted environment, bringing secure, performant transactional capabilities on which unique applications are built. CorDapps like HQLAx enable banks to optimize their cost of capital addressing Basel regulations on capital and liquidity positions. €10.8 trillion of high-quality liquid assets held across the banking industry now have the potential to be managed more effectively through the use of smart contracts, timing certainty and improved record of ownership.

Asset managers, mutual funds and hedge funds are cutting costs and improving operational efficiency by leveraging a variety of new Corda-based services across the buy-side workflow. One such application—Fund Admin Chain—delivers reduced risk, cost and processing times by improving the fund administration lifecycle, uniting distributors, fund managers, administrators, end investors and regulators on a single, modern, secure platform.

Packaged components to build a Digital Asset Exchange (DAX)
Full support for the end-to-end Digital Assets lifecycle

Primary Issuance
- Token SDK
  - Standardized digital asset issuance
  - Transaction level privacy and smart legal contracts
- Observer Node
  - Authorize observers to track updates to the ledger
  - Empower regulators at the point of trade, at the asset level

Secondary Trading
- Solutions Toolkit
  - Out of the box states, contracts and flows to build services and trading systems
- Matching Engine Gateway
  - Integrate with and take matched trades from market leading matching technology
- Oracles Template
  - Interoperate with static, reference and market data

Settlement Process
- Corda Settler
  - Standard DvP functionality with integration to various payment rails
- Cash Issuer
  - T+0 settlement with stable, fungible, currency tokens on Corda
  - Standard issuance template for currency tokens (CBDC, bank-issued, or stablecoins)

Identify your use case: examples
Corda is being used in a variety of applications across capital markets, whether it’s to issue and trade digital assets, improve regulatory reporting or effect assured multi-party transactions. Here is a small sample of use cases being explored by Corda application builders today.
R3 is an enterprise blockchain software firm working with a global ecosystem of more than 350 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.

R3’s global team of over 300 professionals in 13 countries is supported by over 2,000 technology, financial, and legal experts drawn from its vibrant ecosystem.

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 www.r3.com and www.corda.net.