Blockchain Competence Center

consulting, system design, software development for public and private sector

R&R Software is constantly striving to expand its product and service portfolio, focusing on creating and applying state-of-the-art technological paradigms for social and enterprise uses. As a result of this endeavor, the company has been offering blockchain and DLT (distributed ledger technology) consulting, systems design and software development services since 2019.

The blockchain is an incorruptible digital diary of economic, commercial, manufacturing and logistics transactions that allows public and private sector users to break down the obstacles of mistrust that may prevent cooperation at the level of data management. The application of blockchain technology enables new collaboration models built on transparent, reliable, and auditable operations.

In addition to consulting services and the development of custom blockchain-based solutions, R&R Software also offers "Blockchain-as-a-Service" solutions to industry and government actors.

R&R Software

Blockchain is not only a technology, but also socio-economic hypothesis of building trust between parties without involving „superior" third parties as a source of this trust.

Blockchain technology allows breaking the barriers of enterprise collaboration at data management level to its users.
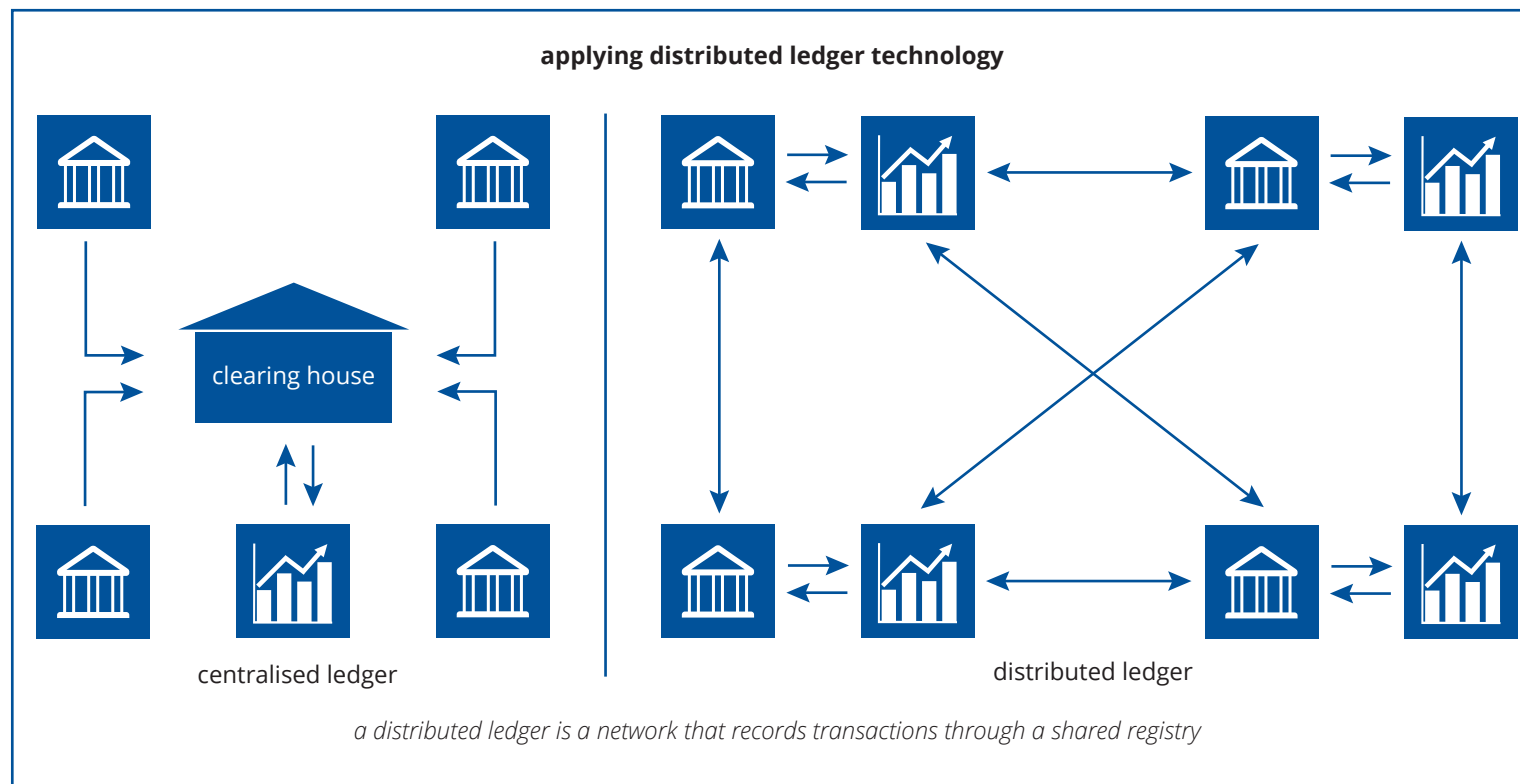

Transaction data, documents of suppliers, customers, partnerships and processes across companies are distributed, stored, accessed and validated by and between all involved actors (and sometimes blockchain providers). The result is open, transparent, more credible and more auditable operation, enabled by faster and lower cost transaction over organizational boundaries, countries, and continents.

Companies do not have to treat their resulting data seperately, as transformed processes stored, executed and validated withing the shared ledger enable blockchain-secured data sharing, carrying the potential for for shared business operations taken to the next level.

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3 Technology

Authentic preservation of data in multiple and synchronized copies in geographically separate locations is one of today's hit topics. The technology employed for this is the distributed / shared ledger, which is best known in its blockchain form and appearence, known primarily through cryptocurrencies such as Bitcoin.

applying distributed ledger technology

centralised ledger

distributed ledger

a distributed ledger is a network that records transactions through a shared registry

The authenticity and availability of the data stored in the shared general ledger is ensured by the principle of operation (security by design). In the blockchain, the registered data is stored in the system in cryptographic authenticated and consecutive records (blocks) between all partners in the system. To validate a new record – or block –, at least 50 percent consensus of partners connected in the system is required. By adding a new block to the chain, the content of the previous block becomes final, and can't be modified.

There are different blockchain solutions: public, private, or hybrid depending on the extent to which partners can connect and create transactions, or access to data content.

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4 Application areas of Blockchain technology

Manufacturing - transport - logistics - trade supply chain actors

Industrial supplier collaborations

Economic operators interested in ensuring quality assurance, conformity certification, audit transparency

Banks, financial service providers, insurance companies

Operators and users of Internet-of-Things (data collection, processing and forwarding based on intelligent devices) systems
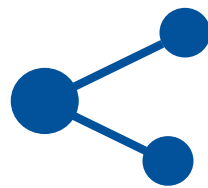
Government agencies

Healthcare providers

Travel, accommodation, tourism services

Media, entertainment, online gambling

R&R Software

R&R Software provides consulting services, development of blockchain-based custom solutions, and offers the implementation of Blockchain-as-a-Service solutions.

• Cryptocurrency solutions or cryptocurrency integration for financial offers, payments, clearing, settlement executions, documentation

• Planning and programming of smart contracts, blockchain based implementation

• Providing authentic data generation and tracking (supply chains, eg: food, medicine, and lifecycle tracking: cars, documents)

• Authentication of transactions between public administration actors (eg: issuance of a document during an administrative process)

• Partner identification and verification in distributed communities

R&R Software

R&R Software develops and delivers integrated business applications that manage, support and control enterprise processes. The one hundred percent domestically owned R&R Software, founded in 1991, has been profitable from the beginning: it has a revenue of more than 3 billion HUF a year and an expert base of more than 200 people. Independent market researchers rank it among the largest domestic business application developers. As the leader and partner of purpose-built Hungarian IT Consortiums, R&R Software involves, manages and motivates hundreds of Hungarian experts who are the best in their respective competency fields, with the goal of identifying and supplying high-impact export projects to developing countries, and ensuring their sustainability by delivering knowledge along with the technological developments.

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