Blockchain Development Services

Our Goal Is to Drive Your Web3 Project Success

ScienceSoft is a blockchain development company headquartered in McKinney, TX, with offices in Atlanta, GA, Europe, and the Gulf Cooperation Council.

34
years in IT industry

750+
IT professionals on board

5+ years
average experience of our blockchain developers

Full-scale PMO
60+ certified PMs and Scrum Masters

FT FINANCIAL TIMES | THE AMERICAS' FASTEST GROWING COMPANIES 2023 | 2022 & 2023
statista
RECOGNIZED TWO YEARS IN A ROW

Microsoft Solutions Partner

aws PARTNER Select Tier Services

Aciety
Solidity (Ethereum) Development
TOP 10%
2023

IAOP GLOBAL OUTSOURCING 100
2023

ISO 9001 LL-C (Certification)

ISO 27001 LL-C (Certification)

ScienceSoft
Professional Software Development

Our Customers

CoolBitX
GLOBAL CRYPTO WALLET PROVIDER

ghostlab
PART OF BITCOIN WELL, BITCOIN ATM COMPANY

SECURE-DEFI
DEFI STARTUP FOCUSED ON CRYPTO INNOVATIONS

stobox
AWARD-WINNING TOKENIZATION COMPANY

IBM
MULTINATIONAL TECHNOLOGY COMPANY

RBC Royal Bank
THE LARGEST BANK IN CANADA

Eurasian Bank
AWARD-WINNING UNIVERSAL BANK

Walmart
LARGEST GLOBAL RETAILER

Nestlé
LARGEST GLOBAL FOOD COMPANY

ebay
MULTINATIONAL E-COMMERCE CORPORATION

Baxter
MULTINATIONAL HEALTHCARE COMPANY

PerkinElmer
HEALTHCARE & LIFE SCIENCE INNOVATION PROVIDER

Viber
INSTANT MESSAGING PROVIDER

T··Mobile
TELECOM PROVIDER WITH 230M+ SUBSCRIBERS

NASA JPL
LEADING AERONAUTICS & SPACE RESEARCH CENTER

62% of our revenue comes from 2+ year Customers.

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Industry Expertise

We deliver specialized blockchain solutions for **30+ industries,** including:

Healthcare Banking

Payment Services

Lending

Insurance

Real Estate

Retail

Transportation & Logistics

Professional Services

Investment Manufacturing Energy Entertainment

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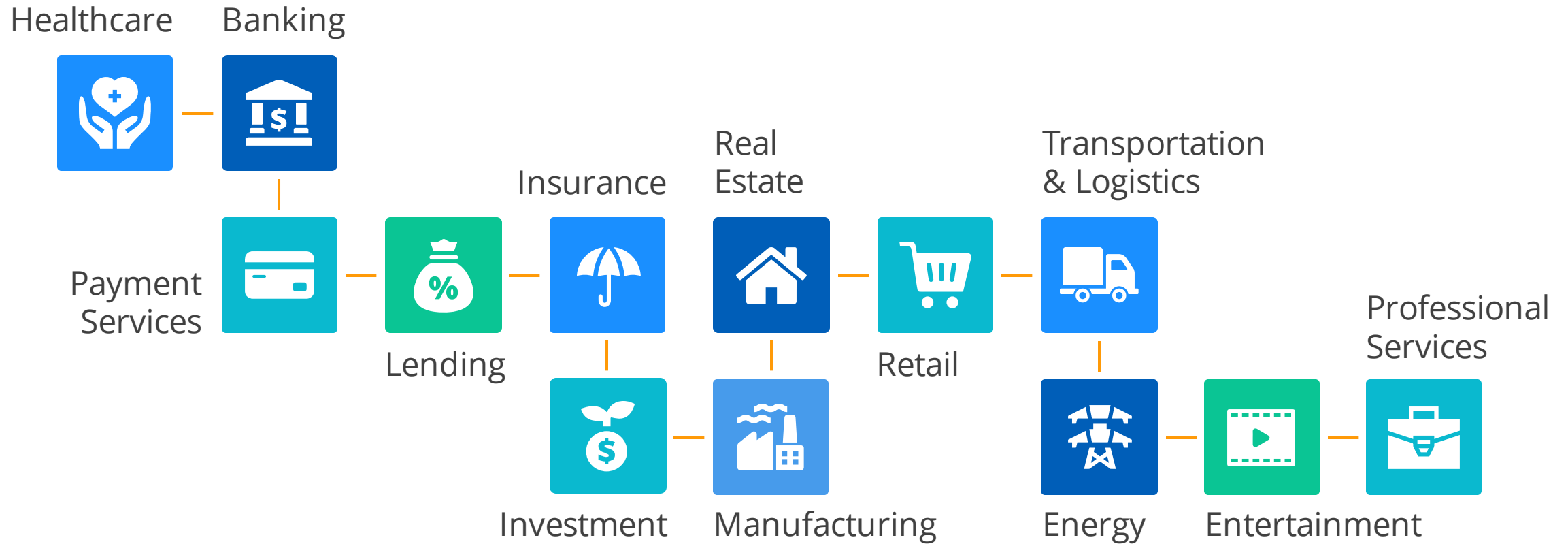
General Blockchain Use Cases We Support

Finance management

Secure, fast, and cost-effective transactions. Immutable, GAAP-compliant bookkeeping.

Fractional ownership

The capability for partial asset trading, which enhances asset liquidity and drives its growth in value.

Supply chain management

End-to-end supply chain traceability, automated enforcement of multi-party agreements.

Asset management

Ensured proof of ownership for digital and physical assets, prevented fraud and counterfeiting.

Ecommerce

Improved order and payment traceability, faster and less costly payments.

Identity and access management

Irrevocable credential data, zero-knowledge proof encryption.

Document management

Secure document sharing and streamlined control over data manipulations.

Collaborative decision-making

Easy vote verification, secure vote storage, incorruptible vote counting.

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Our Services

Blockchain consulting

- Business analysis and market research
- Blockchain software conceptualization
- Architecture design
- Consulting on blockchain security and compliance
- Blockchain implementation project planning

Blockchain implementation

- Blockchain design and development
- Building smart contracts
- Blockchain integration
- Implementing blockchain oracles
- Quality assurance of blockchain software

Blockchain security

- Establishing blockchain infrastructure security
- Blockchain security testing
- Implementing blockchain DevSecOps

Blockchain support

- SLA-based maintenance and support of blockchain-based solutions
- Evolving blockchain software with new functional and non-functional capabilities

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Our Happy Customers

"Owing to ScienceSoft's expertise in Blockchain-based software development, we chose them as a technology partner for the CoolWallet SDK development project. We were pleased with the outcomes of the project, as well as with the transparent and responsive collaboration from the vendor.

Yuhan Cheng, Business Development Manager

"We turned to ScienceSoft for consulting on the end-to-end crypto wallet development. We highly appreciated ScienceSoft's approach to consulting and their mature project management culture and would certainly recommend them as a reliable blockchain tech partner.

Jeff Cafolla, CMO and Co-Founder

"For our project – building a Bitcoin mobile wallet on Cordova – we needed the assistance of a skilled mobile developer. The developer managed to quickly understand the existing code base and proceeded to modify and evolve it according to our requirements. Together, we released our app on time and budget.

Devin Hanchar, Director of Technology

Private Blockchain for Complete Traceability of the Multi-Tier Supply Chain

Customer

A US-based software product company developing innovative solutions.

Solution

Blockchain-based supply chain software that helps the Customer's clients protect their supply chains from counterfeit goods and guarantee safety of transaction data. MVP delivery in 3 months.

Tools & Technologies

Hyperledger Fabric, Kubernetes, Docker, Golang, REST API.

Project details →

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Crypto Wallet Integration with NEAR Protocol

Customer

CoolBitX

CoolBitX, a provider of digital solutions for crypto asset management and storage.

Solution

An SDK for crypto wallet product integration with NEAR Protocol, complete with detailed SDK and testing documentation for risk-free NEAR integration and facilitated product evolution.

Tools & Technologies

Golang, React.js, Web3, Solidity, OpenZeppelin, Polygon framework, LevelDB, AWS S3, IPFS.

Project details →

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Rapid Front-End Development for a Mobile Bitcoin Wallet

Customer

A fintech company focused on user-centric software products.
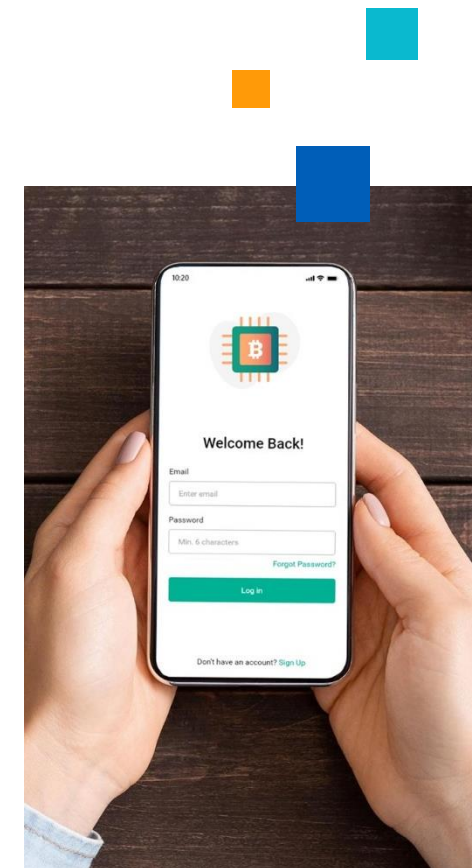
Solution

JavaScript code reengineering and front-end development for a cross-platform Bitcoin wallet. Cooperation start in 5 days after the initial request.

Tools & Technologies

JavaScript, Cordova, BitcoinJS, CxJS.

Project details →

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Crypto Wallet Consulting to Drive 12x Development Cost Reduction

Customer

SECURE-DEFI

Secure-DeFi, a fintech startup creating cryptocurrency products.

Solution

Functional and architecture design of a crypto wallet product. A technical requirements specification and a detailed roadmap for crypto wallet implementation.

Methodologies

Q&A sessions, functional decomposition, business requirements analysis, comparative analysis.

Project details →

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Secure Crypto Payment APIs for the World's Leading Digital Entertainment Platform

Customer

A leading provider of innovative digital entertainment solutions.

Solution

Custom crypto payment APIs enabling secure payments in popular cryptocurrencies like Bitcoin, Litecoin, and Ether on the Customer's online entertainment platform.

Tools & Technologies

Python, Django, Docker, MySQL, GitHub, Celery, FastAPI; Zephyr, Postman, Putty, Jenkins, DbVisualiser; Jira, Confluence, Slack.

Project details →

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NFT Marketplace Consulting to Reduce Time to Market

Customer

A US startup business considering stepping into NFT trading market.

Solution

Introducing an optimal feature set, architecture and infrastructure design, and toolkit for the NFT marketplace. Marketplace prototyping to test its usability for buyers and sellers.

Tools & Technologies

Golang, React.js, Web3, Solidity, OpenZeppelin, Polygon framework, LevelDB, AWS S3, IPFS.

Project details →

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IT Consulting to Optimize the TCO of Blockchain-Based Agricultural Product Marketplace

Customer

A Singapore-based wholesaler of raw and processed agricultural products.

Solution

Technical design options for the blockchain-based agricultural marketplace, a step-by-step implementation plan for each option, and a white paper for investors and legal authorities delivered in 4 weeks.

Tools & Technologies

Polygon Edge, zkBNB, Golang, Magento (Adobe Commerce), PHP, React.js, TypeScript, Nginx, Next.js, PostgreSQL, Jenkins.

Project details →

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Blockchain Solutions and Components We Deliver

- Blockchain networks

- Asset tokenization platforms

- Decentralized finance applications (DeFi dApps)

- Blockchain-based marketplaces

- Cryptocurrency wallets

- Cryptocurrencies

- Crypto tokens (fungible tokens, NFTs)

- Smart contracts

- Cross-chain bridges

- Decentralized autonomous organizations (DAOs)

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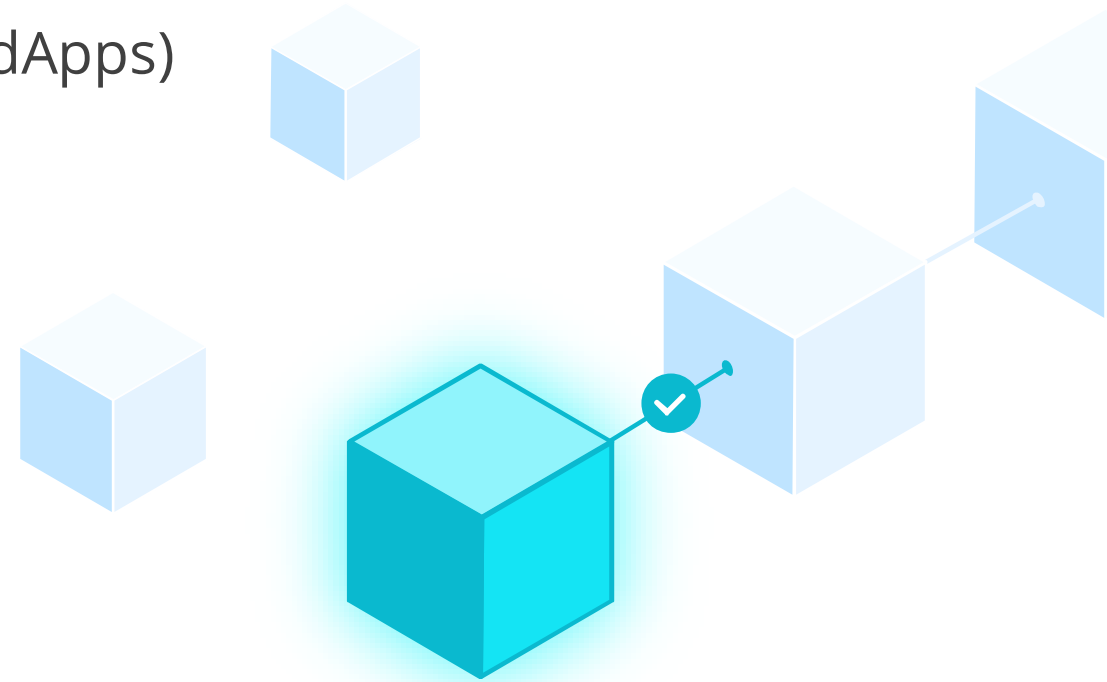
Blockchain Networks

Types of blockchain networks ScienceSoft delivers:

Private networks

Data is stored and shared across a restricted network.

Public networks

Data is stored and shared on an unlimited number of nodes.

Hybrid networks

Certain types of data are shared privately while other types of data are public.

ScienceSoft is ready to **develop a network from scratch** or perform **hard/soft forking** of an existing blockchain platform.

Examples of network consensus mechanisms ScienceSoft implements:

Proof-of-Work (PoW)   **Proof-of-Stake (PoS)**   **Proof-of-Authority (PoA)**   **Byzantine Fault Tolerance (BFT)**

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Asset Tokenization Solutions

Enterprise asset tokenization platforms

Decentralized platforms to tokenize and trade physical and digital business assets.

Asset tokenization mechanisms

Tokenized asset transaction ecosystems behind an existing app, like an asset management or an ecommerce platform.

Asset tokenization smart contracts

Protocols that automate execution of pre-programmed rules related to operations with tokenized assets.

Assets we help tokenize

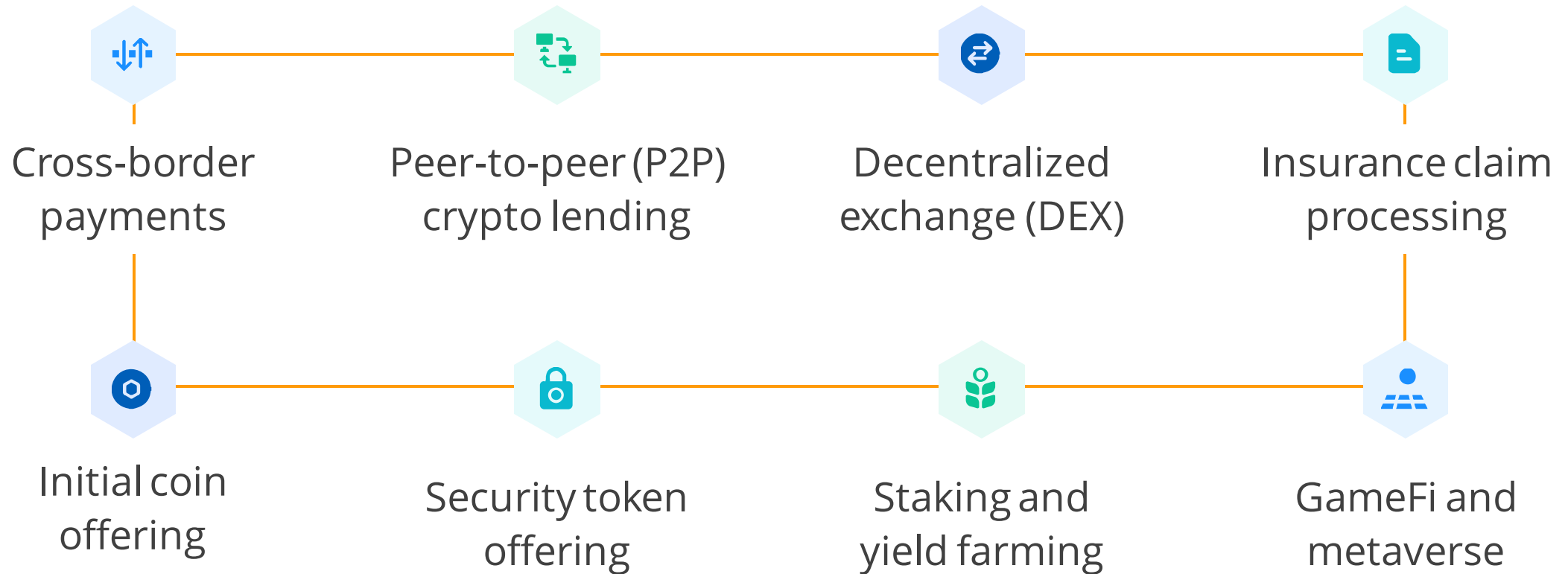| Real estate	Regulated financial instruments	Physical commodities (e.g., precious stones)	Artworks and collectibles	Intellectual property	Medicines and drugs

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Decentralized Finance Applications (DeFi dApps)

Some of the DeFi dApp use cases ScienceSoft covers:

Cross-border payments

Peer-to-peer (P2P) crypto lending

Decentralized exchange (DEX)

Insurance claim processing

Initial coin offering

Security token offering

Staking and yield farming

GameFi and metaverse

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Blockchain-Based Marketplaces

Ecommerce marketplaces

Decentralized platforms enabling transparent exchange of goods between sellers and buyers.

NFT marketplaces

Blockchain-based platforms to mint, buy, and sell NFTs: art and collectibles, gaming assets, fashion goods, etc.

Secondary market trading platforms

Blockchain platforms providing secure trading opportunities across the private market assets, such as financial securities, agricultural commodities, commercial property, and technology.

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Cryptocurrency Wallets

By the type of key storage

- Custodial wallets.
- Non-custodial wallets.

## By the number of cryptocurrencies supported

- Coin-specific wallets (e.g., Bitcoin, Ether, Ripple).
- Multi-currency wallets.

By the number of wallet users

- Single-signature (singlesig) wallets for personal use.
- Multi-signature (multisig, shared) wallets for business use.

By the method of storage

- Hot (software) wallets.
- Cold (hardware) wallets.

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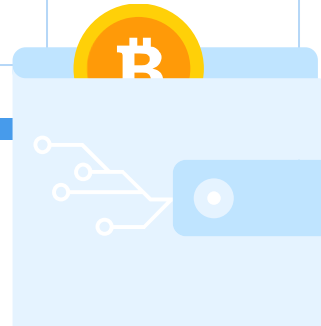
Cryptocurrency Solutions

Cryptocurrency blockchains

Secure peer-to-peer ecosystems to build cryptocurrencies on and facilitate control over crypto asset transactions.

Cryptocurrencies

Blockchain-based digital currencies that serve as a means of payment, exchange, storage, represent particular financial or governance rights.

Cryptocurrency smart contracts

Protocols that automate execution of pre-programmed rules related to operations with cryptocurrencies.

Services we provide

Building a custom blockchain platform and a native coin

Customizing an existing blockchain protocol (e.g., Bitcoin, Ethereum, Stellar)

Developing a new cryptocurrency on a third-party blockchain platform (e.g., Ethereum, Tezos, EOS)

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Crypto Tokens

Utility tokens

Crypto tokens designed to provide consumers with a means of payment for products or services within a company's platform or application.

Stablecoins

Crypto tokens tied to the value of a fiat currency, commodity, other crypto asset, or retaining a stable price via a regulatory mechanism (e.g., of a central bank) to hedge against crypto volatility.

Governance tokens

Crypto assets that grant their holders the right to influence a cryptocurrency protocol, e.g., adding new features, remodeling token distribution, or changing a governance system.

Security tokens

Crypto tokens issued to raise funds and represent an investor's digital share of equity, asset, or part of the revenue.
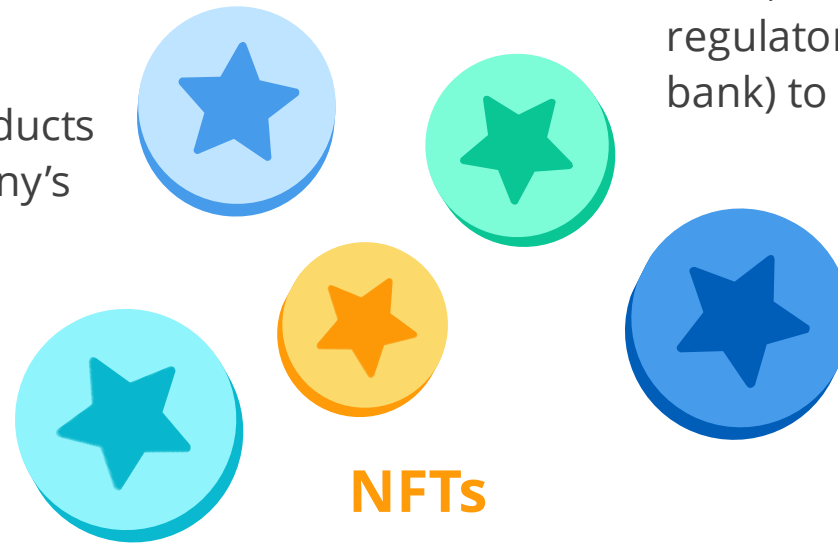
NFTs

Programmable crypto assets that represent a certificate of authenticity and ownership of a unique digital or physical asset.

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Smart Contracts

ScienceSoft creates smart contracts to effectively and securely automate any required industry-specific tasks.

- **Lending:** automated loan issuance for clients meeting credit eligibility criteria.

- **Insurance:** automatic claim payments when pre-agreed policy terms are met.

- **Logistics and Supply Chain:** asset tracking and automated payments.

- **eCommerce:** enhanced KYC practice and streamlined identity verification.

- **Healthcare:** guaranteed validity of patient data, prescriptions, etc.

- **Government:** voting systems that prevent fraud and improve turnout.

We enable easy smart contract integration and updatability by implementing:

Oracles – interfaces to transfer off-chain data to/from the blockchain-hosted contracts.

Proxy contracts – protocols for storing transaction data (to prevent it from being lost after updates) and running *delegatecall* to set a newer version of the contract as a default one.

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Cross-Chain Bridges

ScienceSoft delivers cross-chain bridges to enable **compatibility of crypto assets across different blockchains** under the following scenarios:

✔ Transferring one asset between two chains.

✔ Transferring many assets between two chains.

✔ Transferring assets from one chain to multiple chains.

✔ Transferring multiple assets between different chains.

✔ Transferring assets across different chains under one dApp.

✔ Transferring NFTs between different chains.

Types of the **cross-chain bridge mechanisms** we implement:

| Lock and mint | Burn and mint | Lock and unlock |

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Decentralized Autonomous Organizations (DAOs)

Protocol DAOs

Focused on the governance of decentralized protocols and dApps.

Investment DAOs

Pooling the funds for investments in the blockchain startups, employing the same model as the traditional investment funds, but without any centralized control.

Collector DAOs

Focused on collecting funds so that the community can have ownership of digital collectibles.

Grants DAOs

Used for funding and fostering new projects and ventures, particularly in the DeFi space.

Philanthropy DAOs

Supporting social responsibility initiatives aimed to achieve a shared goal of delivering an impact on the web3 landscape.

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Our Technology Competencies

Blockchain frameworks and networks

ethereum · HYPERLEDGER FABRIC · GRAPHENE · bitcoin · SOLANA · eos · Tezos
Stellar · POA · AVALANCHE · NEAR · Terra Luna · Polkadot · fantom

Blockchain cloud services

Amazon Managed Blockchain · ORACLE Blockchain · IBM Blockchain

Smart contract programming languages

SOLIDITY · Rust · vyper · WA

Front-end programming languages

HTML5 CSS3 JS · React · ANGULAR · Vue.js · METEOR · ember · NEXT.js

DevOps

docker · kubernetes · RED HAT OPENSHIFT Container Platform · Apache MESOS · ANSIBLE · puppet
SALTSTACK · HashiCorp Terraform · HashiCorp Packer

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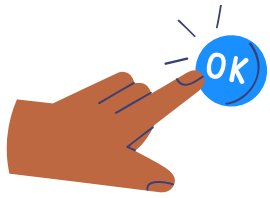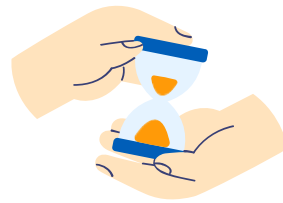
Perks of Blockchain Development with ScienceSoft

Risk-free project start

- Analyzing the **economic feasibility** of blockchain development.
- Providing high-level **cost and ROI estimates**.
- PoC development to **test the viability** of the blockchain solution.

Prompt development

- Quick project start (**1–2 weeks**).
- MVP development in **3+ months**.
- Frequent releases (**every 2–4 weeks**).

Focus on security

- **Protecting** the blockchain solution from malicious user activities, routing attacks, phishing attacks, and code exploitation.
- Achieving blockchain **compliance** with KYC/AML, SEC, PCI DSS, HIPAA, and more.

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Let's Keep in Touch!

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