



Build blockchain solutions that accelerate your business growth

4soft is focusing on blockchain development, we know the challenges facing companies looking to reap benefits from this technology. We help business leaders across various industries to take advantage of innovative technologies like blockchain to solve their business problems and achieve key objectives.



6

YEARS OF EXPERIENCE
IN BLOCKCHAIN

80+

PEOPLE
ON BOARD

15+

COUNTRIES ALL
OVER THE WORLD

30+

REALIZED BLOCKCHAIN
PROJECTS

Take advantage of innovative technologies

Over the years of working on technically advanced projects, we learned that every business has unique needs. To address these requirements, we developed a process for delivering customised solutions that lead to **increased efficiency, security, and transparency in business operations.**

Our experts have a deep understanding of **the latest high-tech approaches and technologies (blockchain, machine learning, deep learning).**

We prioritise **security** in all our projects, using the latest **industry standards and best practices** to ensure the integrity and confidentiality of your data. 4soft is a one-stop shop for software development with a proven track record and a portfolio of successful projects that showcase our expertise in blockchain technology.



What they say **about us**

ELLIPTIC

What impresses me most about 4soft is their adaptability to our business. They provide both top-quality code and valuable blockchain business insights. I d recommend 4soft to anyone who needs both proactive tech specialists and business expertise for their project.

Łukasz Kujawa

Engineering Director at Elliptic

COLONY

The collaboration with 4soft enabled us to successfully launch a DeFi platform in just three months.. The initial workshops helped us avoid some potentially costly mistakes. Their specialists are reliable, and their top management oversees the partnership. Overall, the entire Colony team was pleased to work with 4soft hand in hand.

Elie LE REST CEO at Colony

Paribus

We are impressed with 4soft's work pace and experience. They act quickly and contribute significant blockchain market context that comes from their past projects, combined with expertise from other software development areas. So happy to have come across them.

Wilson Davis CEO at Paribus

Our workflow

DISCOVERY

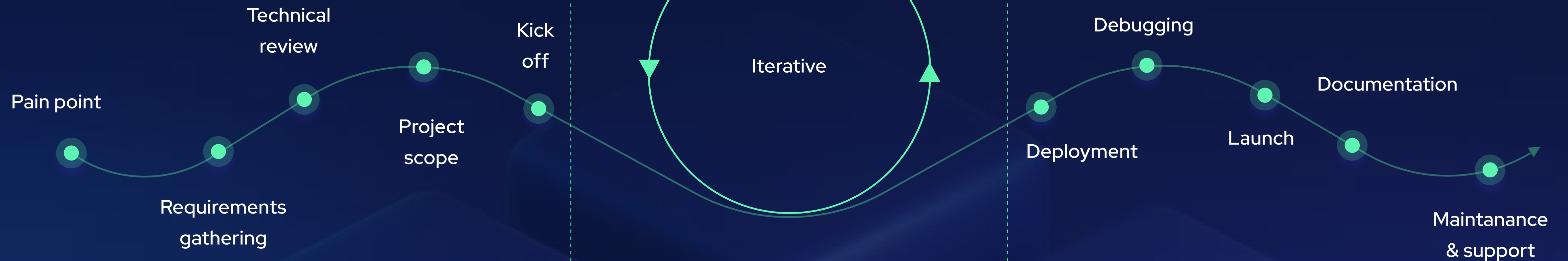
Discovery workshops
IT consulting
Design thinking
Team composition
Scope estimation

DEVELOPMENT

Scrum PM
Code
Test
Build

DELIVERY & RELEASE

Deployment
Maintenance
Product Improvements
Change management



Blockchain implementations across vertical markets

OIL & GAS

Blockchain technology has the potential to revolutionise the oil and gas industry by providing a secure, transparent, and efficient way to track and verify transactions.

Here are some potential applications of blockchain technology in the oil and gas industry:

1. Supply chain management: Organisations can use blockchain to track the movement of oil and gas from production to point of sale, helping to improve efficiency and reduce the risk of fraud.

2. Trading and settlement: Blockchain can be used to facilitate the trading and settlement of oil and gas contracts, reducing the need for intermediaries and increasing transparency.

3. Asset management: Oil and gas companies can take advantage of blockchain to manage and track the ownership of oil and gas assets, including wells, pipelines, and storage tanks.

4. Data management: Blockchain can be used to store and manage data related to the oil and gas industry, including production data, inspection reports, and regulatory compliance information.

Overall, the adoption of blockchain technology in the oil and gas industry has the potential to improve efficiency, reduce costs, and increase transparency.

UTILITIES (INDUSTRIAL COMPANIES, ENERGY COMPANIES)

The utilities industry stands to benefit a lot from blockchain implementations, from greater transparency in metering to more secure transactions.

Here are some potential applications of blockchain technology in the utilities industry:

1. Supply chain management: Blockchain can be used to track the movement of utilities from the point of production to the point of consumption, helping to improve supply chain efficiency and reduce the risk of fraud.

2. Trading and settlement: Utilities organizations can use blockchain to facilitate the trading and settlement of utilities contracts, reducing the need for intermediaries and increasing transparency.

3. Asset management: Blockchain can be used to manage and track the ownership of utilities assets, including power plants, transmission lines, and distribution networks.

4. Data management: Companies can also use blockchain to store and manage data related to the utilities industry, including production data, inspection reports, and regulatory compliance information.

5. Renewable energy: Blockchain can be used to track and verify the production and consumption of renewable energy, opening the door to the creation of renewable energy credits that can be traded on the open market.

The adoption of blockchain technology in the utilities industry can potentially improve efficiency, reduce costs, and increase transparency.

GOVERNMENT

More and more government organizations are experimenting with blockchain-based solutions to drive innovation and increase transparency around processes such as voting.

Here are some potential applications of blockchain technology in government:

1. Identity verification: Blockchain can be used to create and manage digital identities, enabling secure and efficient authentication and verification processes for government agencies.

2. Supply chain management: Organizations can use blockchain to track the movement of goods and services, improving efficiency and reducing the risk of fraud.

3. Land registry: Blockchain can be used to create and maintain a secure and transparent land registry, enabling the efficient transfer of property ownership and reducing the risk of fraud.

4. Voting: Governments can use blockchain to create secure and transparent voting systems, enabling the efficient and accurate tabulation of votes.

5. Public records: Blockchain can be used to store and manage public records, including birth and death certificates, marriage licenses, and property deeds, enabling secure and efficient access to these documents.

All in all, blockchain opens the door to a wide range of efficiencies for government organizations, from greater transparency to smoother asset management.

EDUCATION (UNIVERSITIES & SCHOOLS)

Blockchain can potentially transform the education sector by providing solutions for a secure, transparent, and efficient way to track and verify educational records and credentials.

Here are some potential applications of blockchain technology in education:

1. Educational records: Blockchain can be used to store and manage educational records, including transcripts, degrees, and certifications, enabling secure and efficient access to these documents.

2. Verification of credentials: Education institutions can use blockchain to verify the authenticity of educational credentials, helping to reduce the risk of fraud and improve the credibility of educational institutions.

3. Student tracking: Another great blockchain use case in the education sector is tracking student progress and achievements, and enabling a more personalized and efficient approach to education.

4. Lifelong learning: Blockchain can be used to track and verify lifelong learning activities, including professional development courses and online learning, enabling the creation of a comprehensive and transparent record of an individual's learning journey.

HEALTHCARE

The healthcare industry is being transformed by blockchain technologies in many ways today. Experts predict that blockchain will play an increasingly important role in the healthcare industry of the future.

Here are some potential applications of blockchain technology in healthcare:

- 1. Electronic medical records:** Blockchain can be used to store and manage electronic medical records (EMR), enabling secure and efficient access to patient health information.
- 2. Clinical trials:** Healthcare providers can use blockchain to track and verify the data collected during clinical trials, helping to improve the integrity and transparency of the trial process.

3. Supply chain management: Blockchain can be used to track the movement of healthcare-related goods and services, such as pharmaceuticals and medical equipment, helping to improve efficiency and reduce the risk of fraud.

4. Payment processing: Healthcare organizations can employ blockchain solutions to facilitate secure and efficient payment processing for healthcare-related transactions, including the billing of insurance companies and the processing of claims.

SECURITY (HOMELAND SECURITY)

Blockchain technology has the potential to transform homeland security by providing a secure, transparent, and efficient way to track and verify transactions and data related to national security.

Here are some potential applications of blockchain technology in the security sector:

1. Identity verification: Blockchain can be used to create and manage digital identities, enabling secure and efficient authentication and verification processes for border control and other security-related applications.

2. Supply chain security: Government security agencies can use blockchain to track the movement of goods and materials, helping to identify and prevent the illicit flow of goods that could be used for nefarious purposes.

3. Data management: Blockchain can be used to store and manage large volumes of data related to national security, including intelligence information and surveillance data.

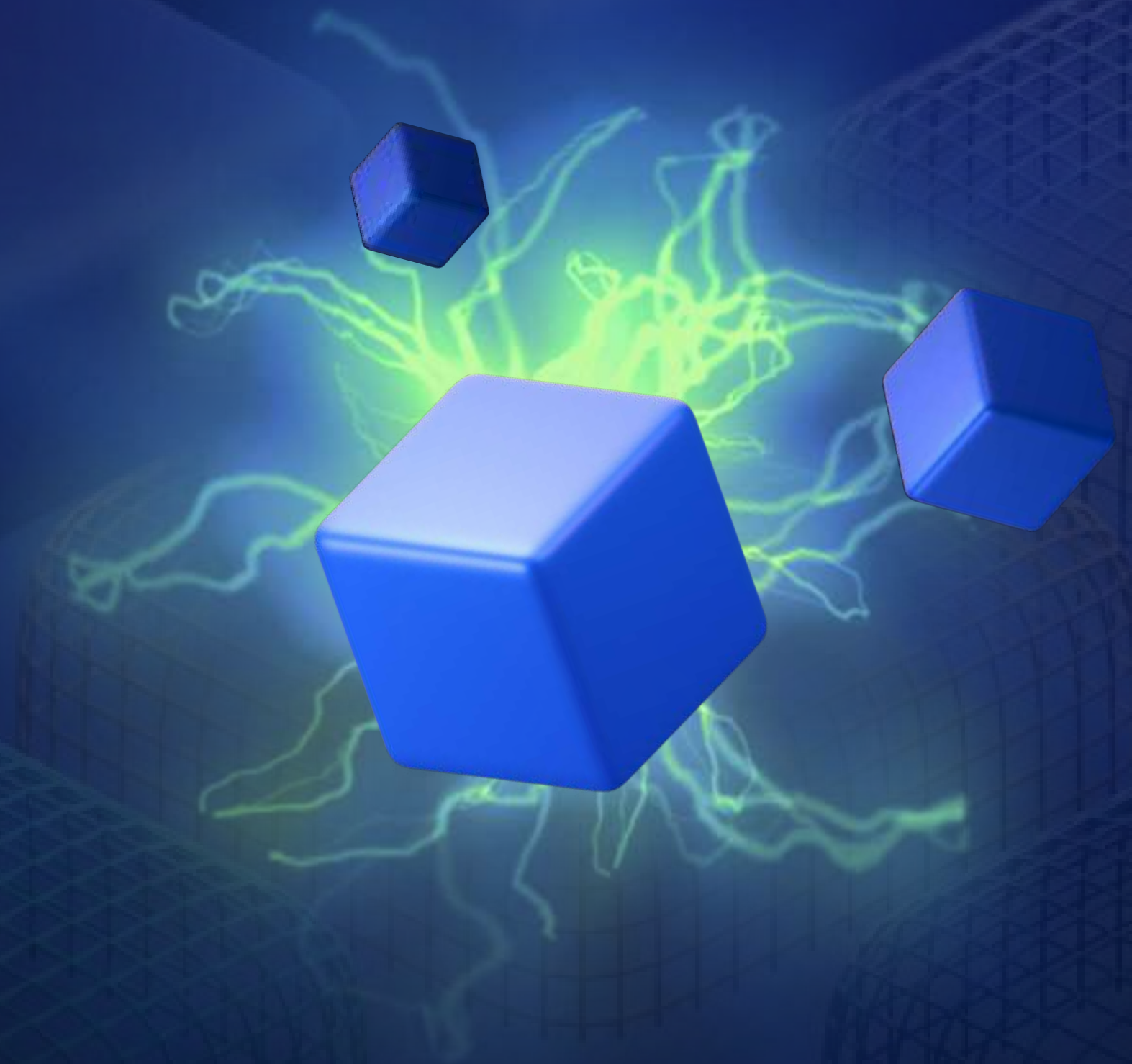
4. Tracking of people of interest: Agencies can utilize blockchain solutions to track and monitor the movements and activities of individuals who may pose a threat to national security.

Overall, the adoption of blockchain technology in homeland security has the potential to improve efficiency, reduce costs, and increase transparency in the pursuit of national security objectives.

Blockchain & Electricity Case Study

Our team carried out a project for a client in the utilities sector that included an IoT component. Its aim was to provide electric meters that can send their measures to an application within a defined time interval – for example, every hour.

This application uses blockchain to store all data from the meters. The complete dataset covering all meters, power plants, and the entire electrical network can be found in one place, which gives the team a lot of data for processing.



The blockchain implementation
can be configured based on client needs,
and our team proposed three distinct solutions:

1

Blockchain access is available only for
government officials (energy department)

2

Blockchain access is granted to
officials and all power plants

3

Blockchain is public, meaning
anyone may access this data

Here's a schema that shows the basic concept of the solution in a simplified way.





Having all the data stored in the blockchain provide data integrity, so users can be sure there is no fake data in the system. Users may cheat on their meters but having all the data at one's disposal makes this type of fraud easy to find and localize.

Blockchain provides data integrity on a higher level of the application. Once data is stored there, it is impossible to delete or edit it. Meter measurement accuracy is provided by its manufacturer – however, if cheating/electricity loss occurred, identifying them would be very fast, based on readings from other meters and their balance. Thanks to meter ID and data on meter position, data analysis will help to find the issue quickly – for example, using an anomaly search algorithm.

Our app will collect the energy amounts sent to the network from every power plant and energy usage from every point of the electrical network.

Having all that data at hand on a **blockchain** allows us to:

- monitor the amount of electricity produced in a specific period of time;
- monitor the amount of electricity sent from a particular power plant to the electrical network
- monitor the amount of electricity sent from a particular power plant to the electrical network
- calculate power losses (check system efficiency)
- check electricity amount sent from point A to B
- identify and locate anomalies (energy stealing, infrastructural damage, accidents)
- create prognosis – the amount of electricity needed in a particular time in the entire system or smaller area (district, building) and check if there will be enough energy in the network.