

# Blockchain in Scotland Landscape Overview

May, 2023

Teaser

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**“Blockchain Industry in Scotland Landscape Overview Q1 2023: Companies, Investors, Influencers and Trends”**, produced by **Deep Knowledge Analytics** on behalf of **Scottish Enterprise**, presents an updated and comprehensive overview of the entire **Blockchain Industry Ecosystem in 32 Scottish council areas**.

This Overview presents the first ecosystem map and landscaping analysis of blockchain’s economic opportunities for Scotland. It highlights how Scottish blockchain initiatives can transform various tech sectors but also acknowledges existing obstacles, such as regulatory challenges or public awareness. The report categorizes and profiles **60 distinct Blockchain-centric entities** and examines **78 investors, 86 Blockchain Leaders** in Scotland, and **33 Hubs**, including R&D centers, Government initiatives, and Accelerators, etc.

**The Blockchain in Scotland Ecosystem Framework** developed by DKA encompasses a diverse range of sectors leveraging blockchain technology to create innovative and secure solutions and encourages collaboration and development within these sectors to foster growth in the Scottish Blockchain industry.

# Blockchain Industry Overview

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History and Main Principles

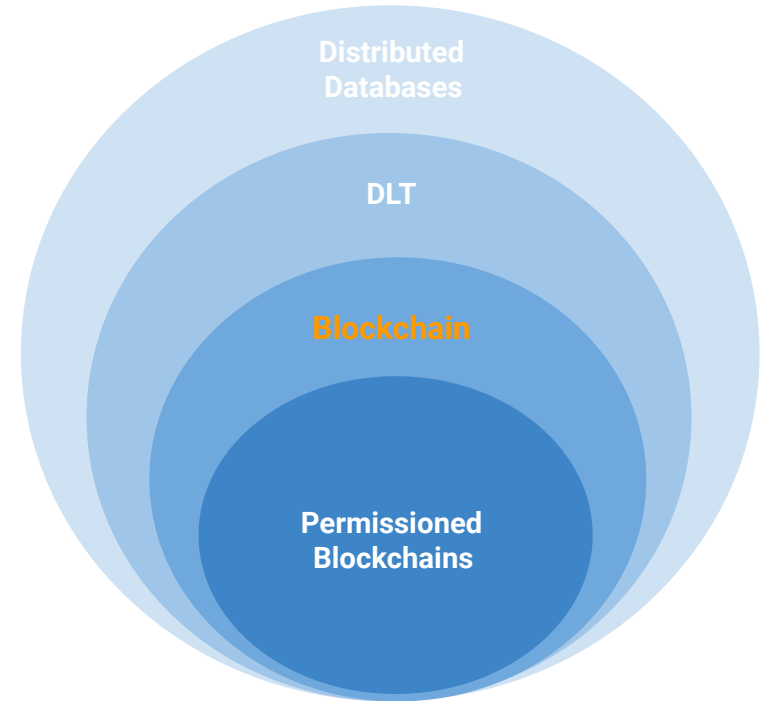
# Definition of Blockchain

## What is Blockchain?

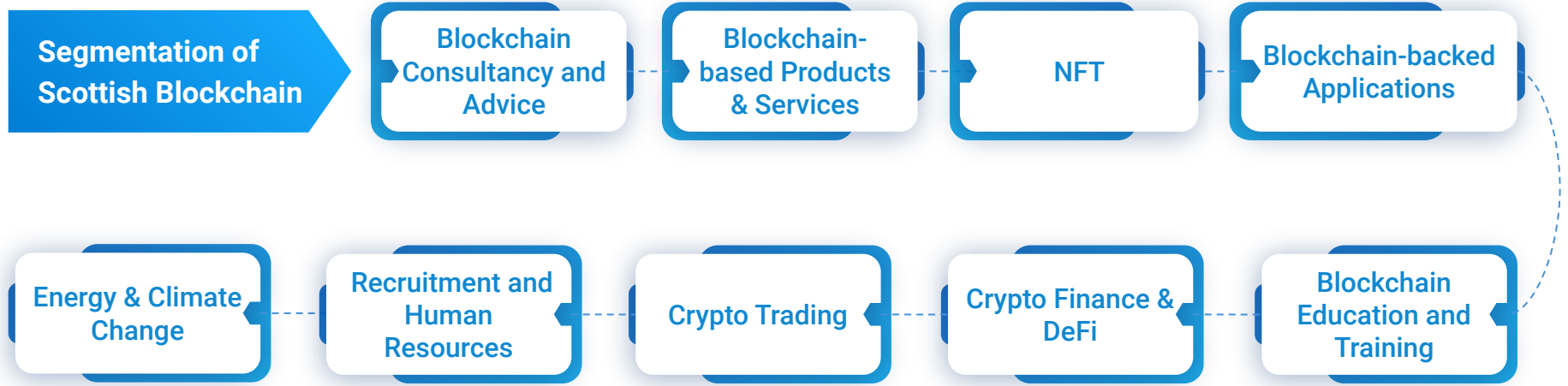
A blockchain is a digital ledger or database that is shared among a network of computers. It is designed to store information electronically in digital format and is best known for its use in cryptocurrencies such as Bitcoin. The innovative feature of a blockchain is that it allows for secure and decentralised record-keeping without the need for a trusted third party.

Unlike a typical database that structures data into tables, Blockchain works by allowing digital information to be recorded and distributed across a network of computers in a decentralized manner. This information is stored in blocks that hold sets of data and are linked together through cryptography, forming a chain of data. New information is stored in the newly created blocks in the chain. The “decentralised” means users collectively control it without any single person or group having control. Blockchains are an ideal foundation for immutable ledgers or records of transactions because they are designed to be immutable, meaning that the data entered cannot be altered, deleted, or destroyed.

**The most common Blockchains e.g. Bitcoin are open for anyone to use however a Blockchain can also be permissioned.**



# Scotland Blockchain Industry Framework



## Sub-Segmentation of Scottish Blockchain Usage - Current State of the Market

Software Development

Media & Entertainment

HealthCare

Cyber Security

# Blockchain in Scotland Ecosystem Mindmap

**Blockchain Leading Companies - 60**  
**Investors - 78**  
**Scottish Blockchain Leaders - 86**  
**Hubs - 33**  
**(R&D Centres, Government Initiatives, Accelerators)**

Blockchain-backed Applications

Blockchain Consultancy and Advice

Blockchain Education and Training

Blockchain-based Products and Services

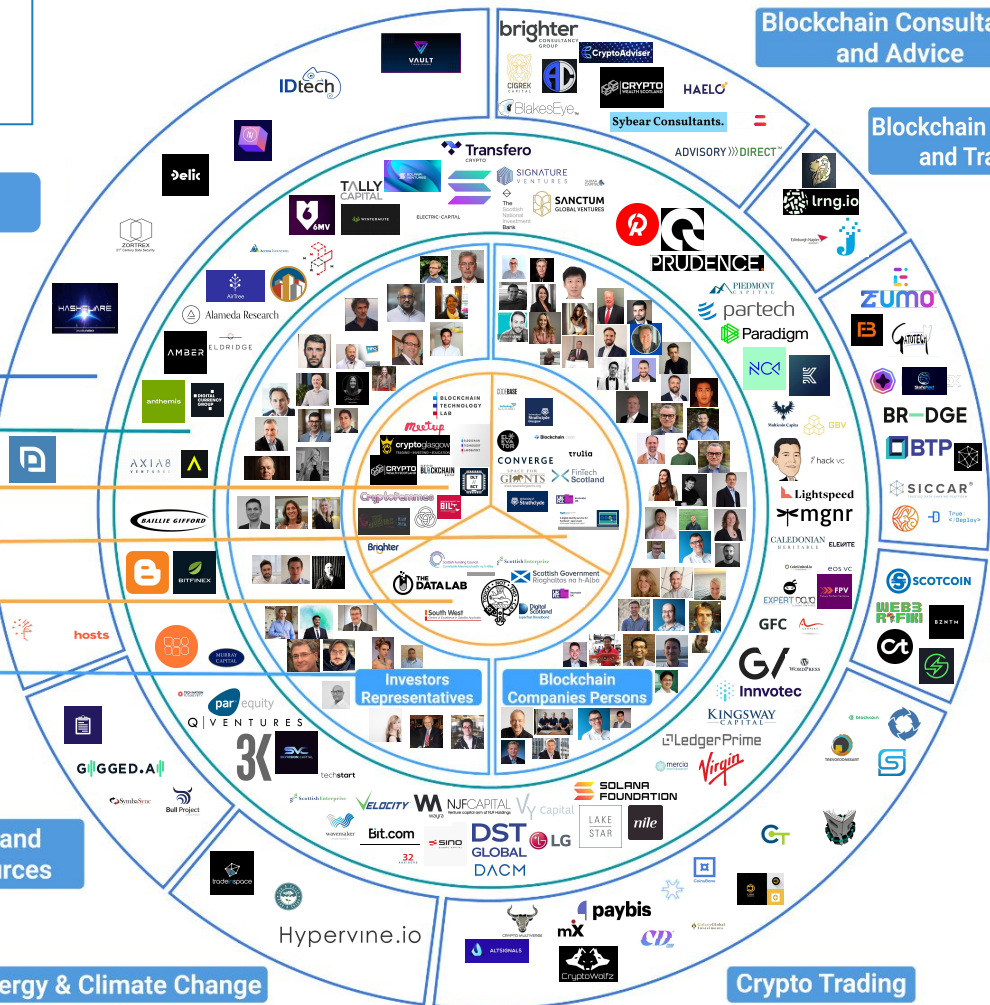
Crypto Finance & DeFi

- Companies
- Investors
- R&D Centres
- Accelerators
- Government Initiatives
- Scottish Blockchain Leaders

Recruitment and Human Resources

Energy & Climate Change

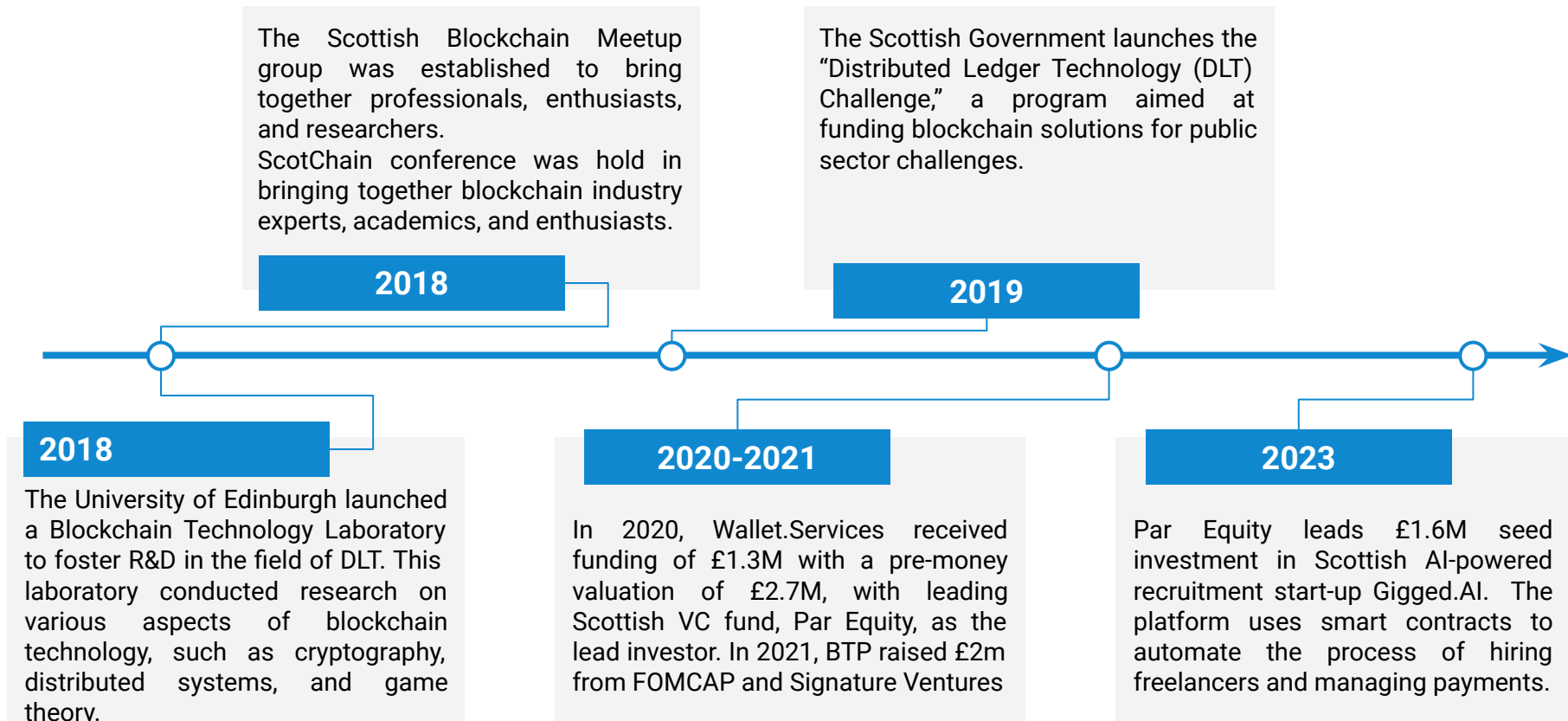
Crypto Trading



**Interactive Mindmap**



# Key Milestones of Blockchain Industry Development in Scotland



# Blockchain in Scotland Landscape Overview

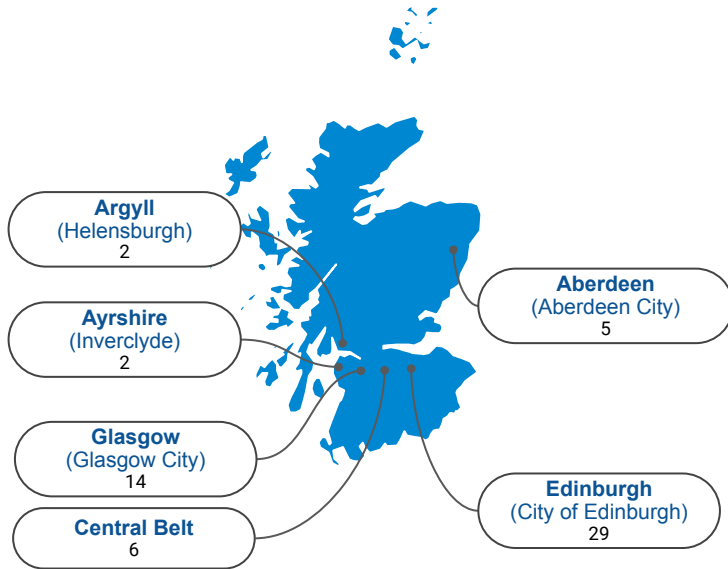
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Market Dynamics



# Scottish Blockchain Companies - Regional Distribution

## Blockchain Companies Incorporated in Scotland



## Blockchain Industry in Scotland Potential

Blockchain's safe and trustworthy data allows for innovative data use. Instant communication transformed the economy, and fully secure transmission has substantial economic, social, and societal benefits. Deep Knowledge Analytics (DKA) believes the Scottish economy is ready to adopt Blockchain and reap its many benefits. **Blockchain technology can contribute £4.48 billion to Scotland's GDP by 2030\***. Worldwide, **Blockchain is expected to generate \$1.2trn to the global economy by 2030\***.

Deep Knowledge Analytics promotes the widespread adoption of blockchain solutions to help Scottish society. Socially accountable supply chain activities, user-friendly healthcare systems, and lower data exchange and intermediary financial costs can boost national wealth.

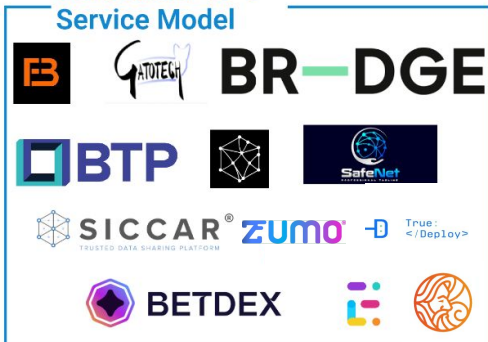
**Most Blockchain companies are located in Edinburgh, accounting for 29 companies, which is almost half of the total number of companies. Glasgow comes next with 14 companies, followed by Central Belt and then Aberdeen.**

# Blockchain in Scotland: Leading Companies

## Using Blockchain to Develop New Products or Services



## Blockchain-as-a-Service Model



## Crypto Finance & DeFi



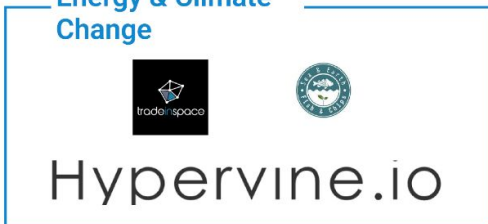
## NFT



## Crypto Trading



## Energy & Climate Change



## Blockchain Education and Training



## Recruitment and Human Resources



## Blockchain Consultancy and Advice



# Blockchain in Scotland Landscape

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Overview of the Segments

# Overview of Scottish Companies Using Blockchain to Develop New Solutions

## Use Cases of Using blockchain to DNPS

Secure Identity  
Verification

Decentralized Cloud  
Storage

Advertising Network  
Tokenization

Supply Chain  
Management

Decentralized Hosting  
Services

Real-time Data  
Analytics

Scotland is home to a growing number of companies that are using blockchain technology to develop new solutions, referring to the process of leveraging the unique features of blockchain to create innovative solutions, offerings, or enhancements across various industries, from finance and healthcare to supply chain management and energy. According to the research by Deep Knowledge Analytics, most Scottish companies from the “using blockchain to develop new products or services” sector belong to **Software Development** sub-segment (28.6%), which indicates a higher level of technology adoption across the market. Software Development sub-segment is followed by **Media & Entertainment, Crypto Finance,** and **Cyber Security** sectors in equal proportion (all 19%).

Company	Short info	Subsector	Money Raised, million USD	Lead Investors
<a href="#">TrueDeploy</a>	Securing the software supply chain by using a novel blockchain innovation.	CyberSec	\$91K	Scottish Enterprise
<a href="#">Onboard-ID</a>	A technology company that specialises in identity verification and management solutions. - CyberSec	CyberSec	Undisclosed (Grant)	Onboard.ID is funded by the University of Edinburgh
<a href="#">Delic</a>	Delic is the new operating system for the Music Business. Asset and rights management platform using digital and blockchain technologies.	Media & Entertainment	\$0.8M	EXPERT DOJO, Velocity Capital Advisors, Innvotec

# Blockchain in Scotland Landscape

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Case Studies

# Media and Entertainment Sector Case Studies



**Founded:** 2021  
**Headquarters:** Glasgow,  
Edinburgh and New York  
**Employees:** 11-50

**BetDEX is a decentralised sports betting platform that operates on the Solana blockchain and the Monaco Protocol.**

The company's platform is designed to enable sports betting operators to offer their customers an unparalleled betting experience, with real-time odds and highly accurate predictions on a wide range of sports and events. The platform's algorithms are constantly evolving to provide the most up-to-date and reliable data, making it the ideal solution for sportsbooks and betting operators looking to stay ahead of the curve.

In addition to its platform, BetDex also offers a range of professional services, including data analysis, risk management, and consulting, to help sports betting operators optimize their operations and maximize profits. The company's team of experienced professionals is dedicated to providing the highest level of service and support to its clients.



**Founded:** 2013  
**Headquarters:** Edinburgh  
**Employees:** 11-50

**Delic is an asset and rights management platform for music business using digital and blockchain technologies.**

Delic's platform provides users with a fair, smart, and efficient release management solution. The platform will allow music creators to take full ownership of their catalogues, from stems to sync and remixes, in one fully integrated and scalable hub. With its progressive asset and rights management services, Delic provides a transparent and real-time accountability process for assets and funding. Delic's vision is to optimize the management of music catalogues, making it an enlightening and efficient process.

The company is poised for success, with Velocity EIS Technology Fund bringing significant experience in growing businesses and a strong understanding of the music sector. Delic is the new operating system for the music business, and with its solution, it will become the new digital hub for the music industry.

# Blockchain in Scotland - Leaders

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Top Scottish Blockchain Companies, Investment and Academia Leaders: Profiling



# Scottish Blockchain Companies Leaders

**Chief Product & Technology Officer & Co-Founder - BTP:** London



Kevin is co-founder of Chill Code, a platform that allows designing and deploying software infrastructure asocial activity (GitHub for infrastructure). Previously, Kevin worked at JPMorgan (Vice President). BTP provides blockchain solutions, streamlining deployment and management of DLT with one-click deployment.. Notable clients include the Tel Aviv Stock Exchange.

**Kevin O'Donnell**



**Co Founder & CEO - Zumo:** London



Nick is a veteran of the tech start-up scene, having teamed up with fellow entrepreneur Paul Roach in 2018 to found Zumo, where he is currently CEO. Beginning his career at the height of the Dot Com boom in 2000 with the launch team of Goto.com (latterly Overture Service). Between 2012 and 2018 Nick was a full time Angel Investor and held multiple Chairman, Non Executive and Advisory roles in the Tech space.

**Nick Jones**



**M.D. - SICCAR**  
Edinburgh, Lothian



Stuart has 30+ years of computing experience in energy, banking, and scientific sectors, from embedded control to Internet, Information Security, and HPC engineering. Wallet. Services, a Scottish blockchain startup, offers business solutions. According to M.D. Stuart Fraser, blockchain technology could transform supply chain management and financial services.

**Stuart Fraser**

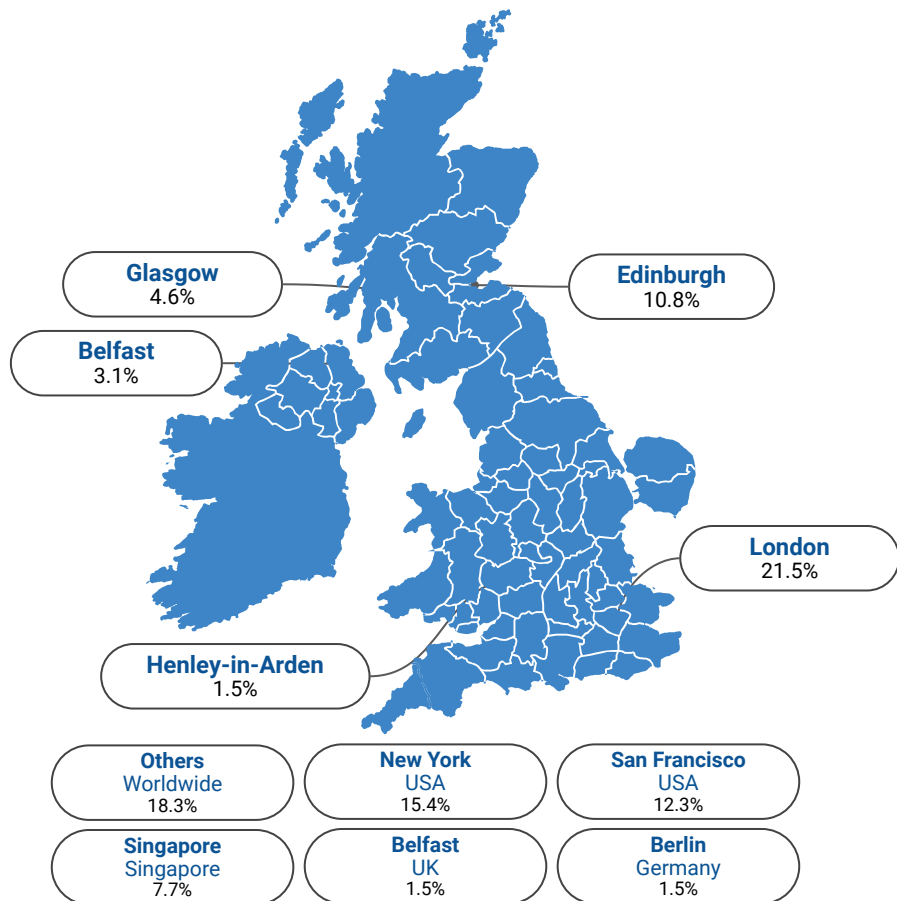


# Blockchain in Scotland - Investors

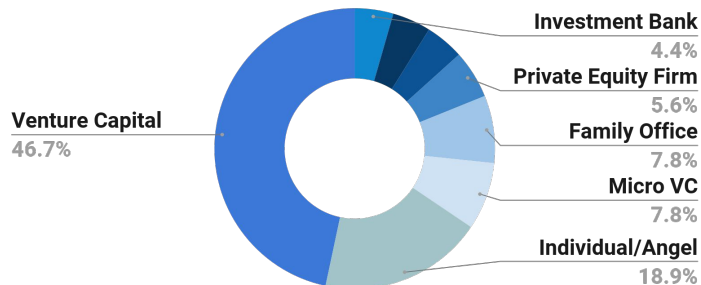
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Global Landscape Overview

# Overview of Investors in Scottish Blockchain-Centric Companies



## Cumulative Number of Established Companies



The leading Blockchain investment in London's financial sector is no surprise. London is a global financial HQ ready for a Blockchain transformation in the second quarter the 21st century, and at the same time the entrepreneurial Blockchain community is located close to the finance that is needed to grow it.

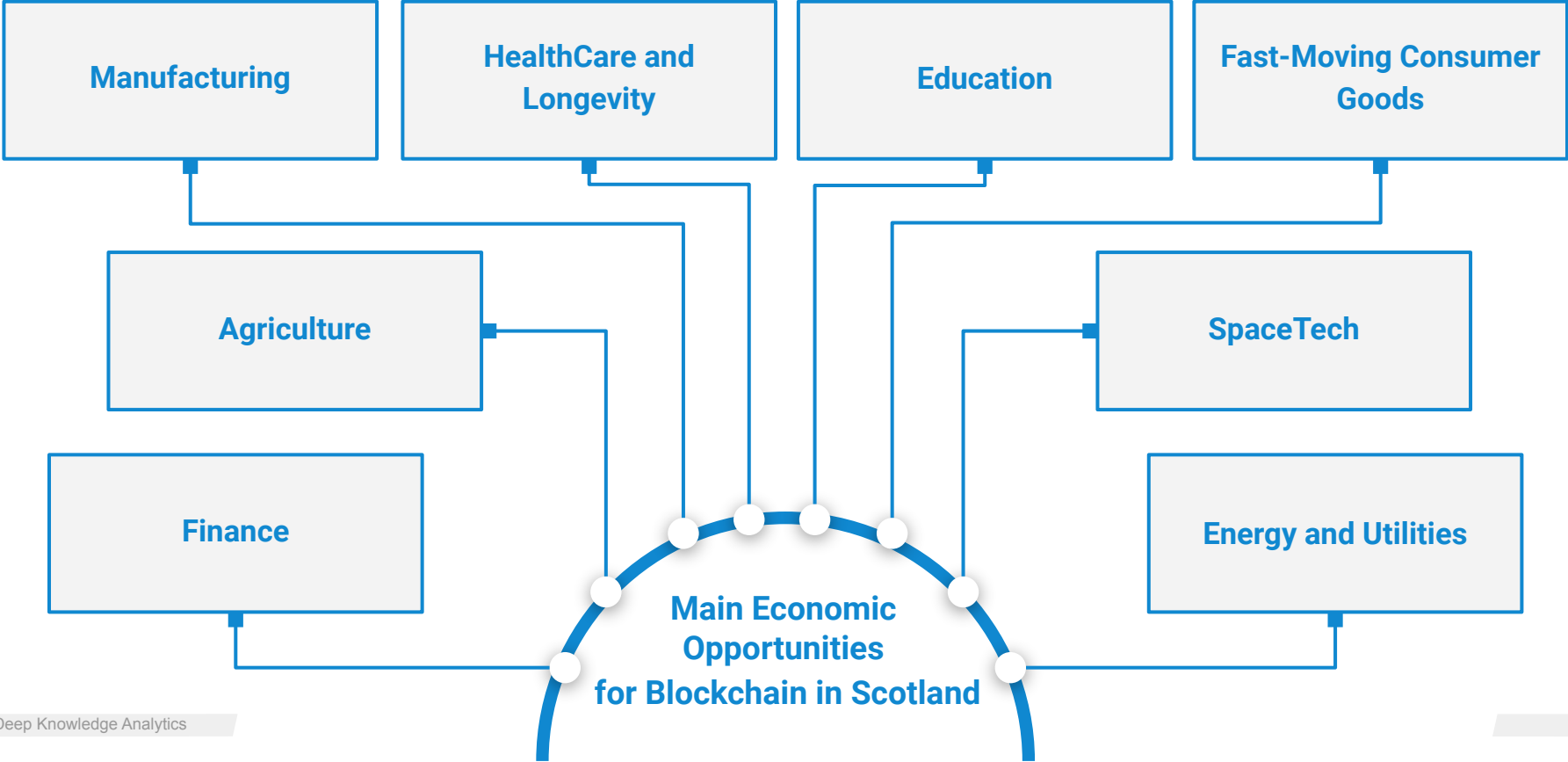
**The UK and in particular London are becoming a true innovation and investors epicentre for everything around Blockchain.**

# Economic Opportunities for Blockchain in Scotland

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Benefits Overview

# Economic Opportunities for Blockchain across Scottish Industries



# Blockchain in Scotland Landscape

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**Hubs** - Non-Profits, Networking and Incubators,  
GovTech



**Founded date:** 2013  
**Headquarters:** Glasgow, UK  
**Type:** Non-Profit

Scotcoin is a digital currency managed by the Scotcoin Project CIC, designed to facilitate blockchain transactions within Scotland. The project has also developed a decentralised education platform that provides courses on cryptocurrency and blockchain technology.

Scotcoin is used as a means of payment within the platform, which offers secure and transparent education and training accessible from anywhere in the world. This type of platform is increasingly popular as more people seek new skills and knowledge in emerging technologies.



**Founded date:** 2018  
**Headquarters:** Glasgow, UK  
**Type:** Non-Profit

Women's Coin is a digital currency that supports women's equality by providing micro-finance and credit to help women set up small businesses. The Women's Coin security token ensures secure and transparent transactions. The platform is curated in Scotland with the support of FinTech Scotland, Scottish Enterprise, Zortrex Ltd, and Napier University. Women's Coin partners with stakeholders and Glasgow Caledonian University to provide micro-credit business loans for women.



**Founded date:** 2014  
**Headquarters:** Edinburgh, UK

CodeBase is a technology incubator and coworking space with locations across the UK.

1. CodeBase mentors startups and entrepreneurs at all stages. CodeBase helps startups succeed with hubs in Aberdeen, Edinburgh, and Stirling and partnerships with other UK cities.
1. CodeBase supports startups and educates aspiring entrepreneurs. These programs teach business skills and knowledge for different stages of growth.
1. CodeBase values community and inclusivity. Their code of conduct encourages members to be outward-looking, promote diversity, and think globally.
1. CodeBase offers funding, mentorship, coaching, networking, and office space to help businesses grow. A team handles CodeBase's finance, HR, IT, legal, health and safety, and office needs.
1. CodeBase promotes tech innovation and growth. As one of the UK's largest technology incubators and one of Europe's fastest-growing, they help startups connect, collaborate, and find the needed resources.



# Blockchain in Scotland Landscape

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## Summary

# Key Takeaways

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Scotland's blockchain ecosystem is vibrant and growing, with numerous startups, academic institutions, and public-private partnerships engaged in blockchain research and development, starting ventures and scaling them up. The Blockchain in Scotland Ecosystem Framework comprises various sectors leveraging blockchain technology for innovative solutions. Key sectors include Blockchain-as-a-Service (BaaS), providing third-party blockchain services, and blockchain consultancies offering strategic advice for companies. Additionally, the framework supports the growth of blockchain-based education platforms. The goal is to foster collaboration and development within these sectors to strengthen the Scottish blockchain industry.



The Blockchain technology has the potential to significantly boost Scotland's economic growth and create personal value across various sectors. **Blockchain technology can contribute £4.48 billion to Scotland's GDP** by 2030\* through information openness, economic savings, and usage. The widespread adoption of blockchain will lead to improvements in supply chain activities, healthcare systems, and financial transactions, ultimately enhancing national wealth.



Scotland's energy sector is exploring the use of blockchain technology to enable peer-to-peer energy trading and incentivise renewable energy generation.

Blockchain technology can enhance the security and privacy of Scotland's healthcare data by enabling secure sharing of patient records and preventing unauthorised access.

Blockchain technology has the potential to improve the efficiency and transparency of Scotland's public sector by reducing administrative costs, enhancing data security, and increasing trust in government services.

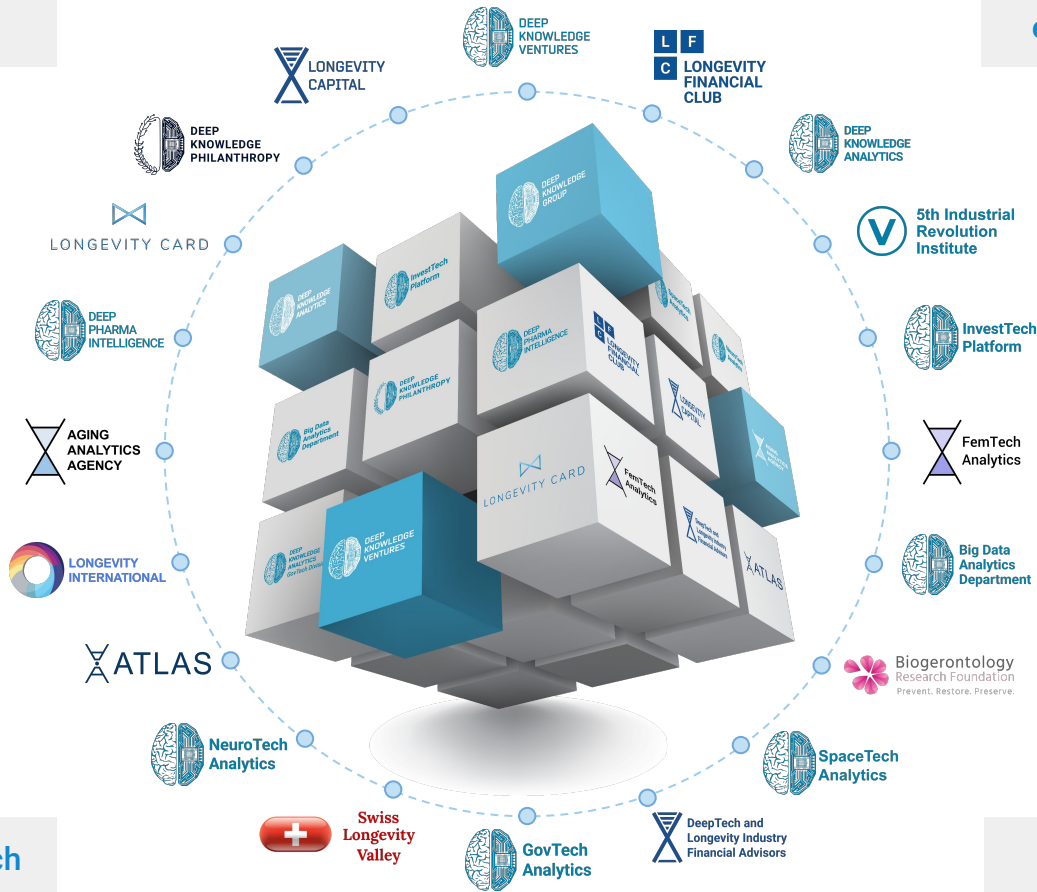
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