Global GovTech Industry Overview Q1 2024

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Introduction

Created by GovTech Analytics **"Global GovTech Industry Overview Q1 2024" report provides a thorough overview of the GovTech sector, including quantitative and qualitative indicators** such as the distribution of GovTech companies by countries, the top 100 GovTech companies in terms of funding, and the top startup hubs and accelerators. It also includes key findings and information about the industry's overall landscape.

The government IT sector is globally expanding as nations rush to modernise their administrations. **More than 3,130+ GovTech businesses and 1,970+ investors are profiled in this research based on their global commercial activity and potential for innovation.** The UK and Australia have the most government technology companies in their respective regions, although the US continues to be the leader in this field. In accordance with their digital transformation plans, a number of nations have advanced their GovTech agendas.

The report highlights business-government partnerships as well as governmental initiatives in this field and experience of creating services.

Methodology and Approach

Methodology

The case study aims to thoroughly understand the global GovTech market. This analysis looks at GovTech businesses, investors, community organisations, R&D facilities, universities, accelerators, and hubs. The report examines **1,110+ companies, 1,970+ investors, and 50 hubs**.

The report provides a thorough overview of the GovTech industry, making use of a variety of research strategies and analytical tools. Although there are many different opinions on what constitutes government technology, our definition is based on industry research, ecosystem feedback, and professional counsel.

Approach

Based on various research methods and analytic techniques, the analytical report provides a comprehensive overview of the global GovTech market. The approach has certain limitations, especially when using publicly available data sources and conducting secondary research. GovTech Analytics is not responsible for the quality of the secondary data presented herein; however, we do our best to eliminate risks by using different analytic techniques to cross-check data.

Data Sources			
Media Overview	Industry Specialised Databases	Publicly Available Sources	Industry Reports and Reviews

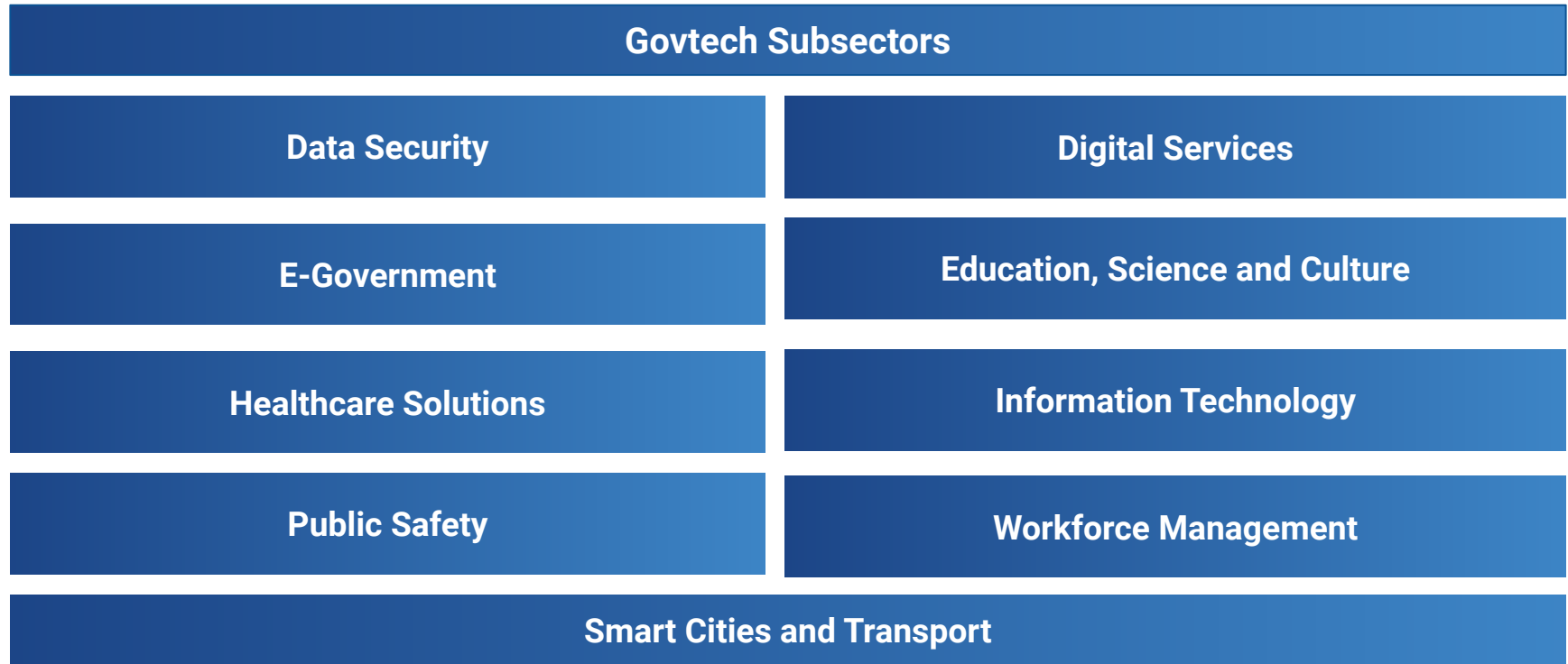| Applied Research and Analytics Methods		
Descriptive Analysis	Mixed Data Research	SWOT Analysis
Comparative Analysis	Qualitative Data Collection	Data Filtering

GovTech Industry Ecosystem Framework

Govtech Subsectors

Data Security	Digital Services
E-Government	Education, Science and Culture
Healthcare Solutions	Information Technology
Public Safety	Workforce Management

Smart Cities and Transport

Detailed Classification of GovTech Industry Sectors

| Smart Cities, Urbanisation	Digital Participation and Services	Cybersecurity and Technologies
Healthcare Solutions	Digital Services	Information Technology
E-Government Solutions	Monitoring Systems	Data Security
Smart Cities and Transport	Decision-Making Platforms	RegTech
Education, Science and Culture	Workforce Management	CivicTech
Public Safety	Energy Saving, Utilities and Waste Management	

GovTech Industry Ecosystem is a whole of government approach to public sector modernisation. GovTech sectors consist of different technologies and services, which have tools such as citizen feedback, complaint handling mechanisms, etc. Their activities focus on accountability tools (service charters and service standards) with enforcement and monitoring mechanisms, and the use of technology to advance government's efforts at greater transparency.

Integrated Citizen-Centric GovTech Approach

Integrated government approaches, especially with GovTech, are vital for delivering on policy commitments and benefiting citizens. By aligning outcomes with financial capacities and citizen preferences, these governments turn good policies into tangible results. To enhance performance, improving central policymaking and addressing public sector implementation gaps are crucial for achieving better healthcare, education, sanitation, infrastructure, and reduced crime rates.

Source: GovTech Book

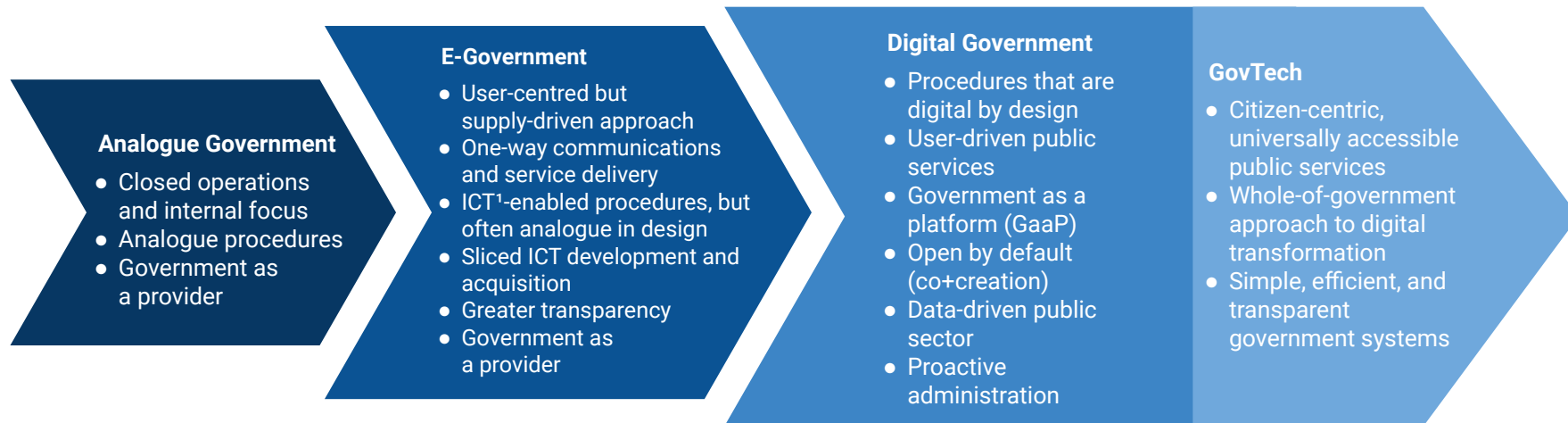Source: NATIONAL ASSOCIATION OF COUNTIES, GovTech Overview IT-Platform
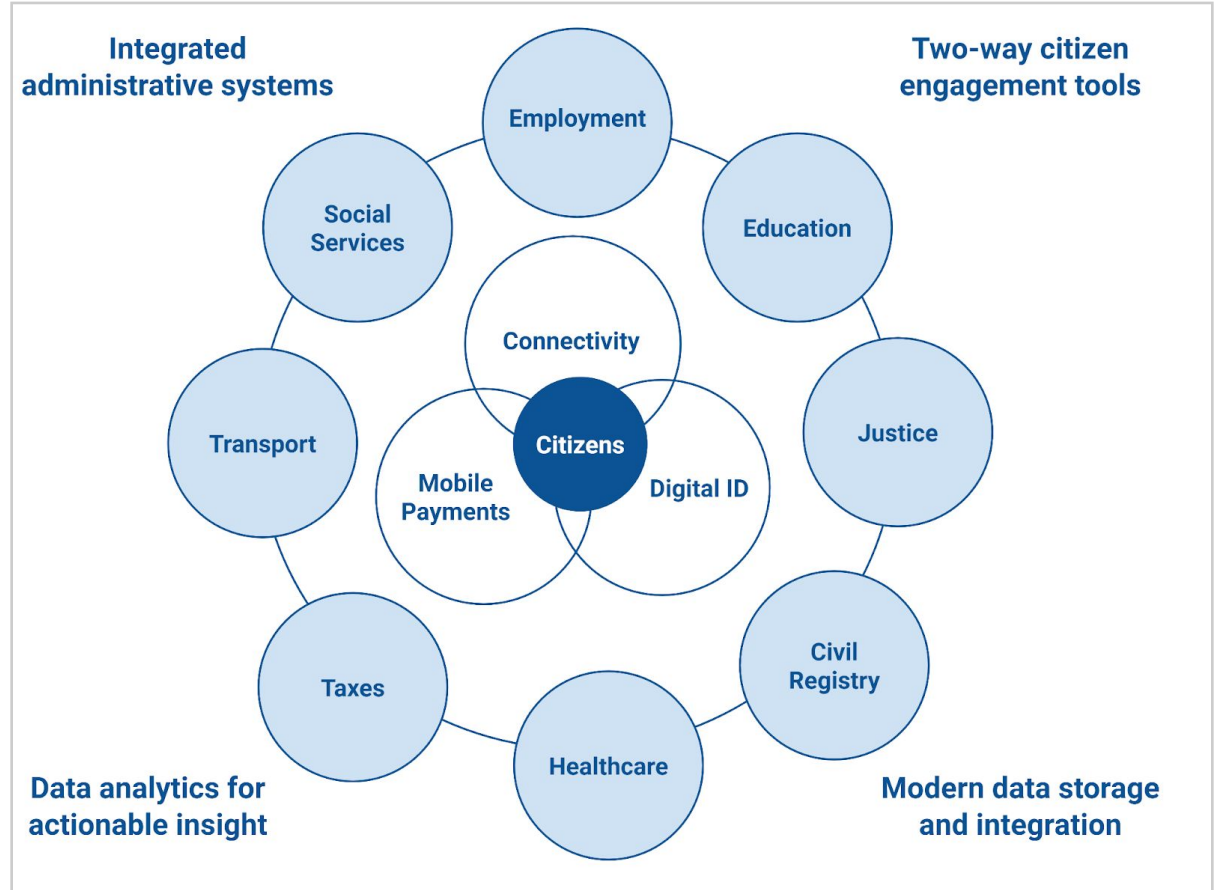
Implementation of Modern Technologies in GovTech

Today, people expect public services to use emerging technologies to reduce costs, increase efficiency, improve service quality, and, where possible, provide advanced services.

With rapidly changing societal expectations and advances in technology and technological human behaviour, the public sector will face challenges in the upcoming 5-10 years. Because of this, current technology trends in the public sector are becoming increasingly important.

Digital Transformation of the Public Sector

Analogue Government
- Closed operations and internal focus
- Analogue procedures
- Government as a provider

E-Government
- User-centred but supply-driven approach
- One-way communications and service delivery
- ICT[1]-enabled procedures, but often analogue in design
- Sliced ICT development and acquisition
- Greater transparency
- Government as a provider

Digital Government
- Procedures that are digital by design
- User-driven public services
- Government as a platform (GaaP)
- Open by default (co+creation)
- Data-driven public sector
- Proactive administration

GovTech
- Citizen-centric, universally accessible public services
- Whole-of-government approach to digital transformation
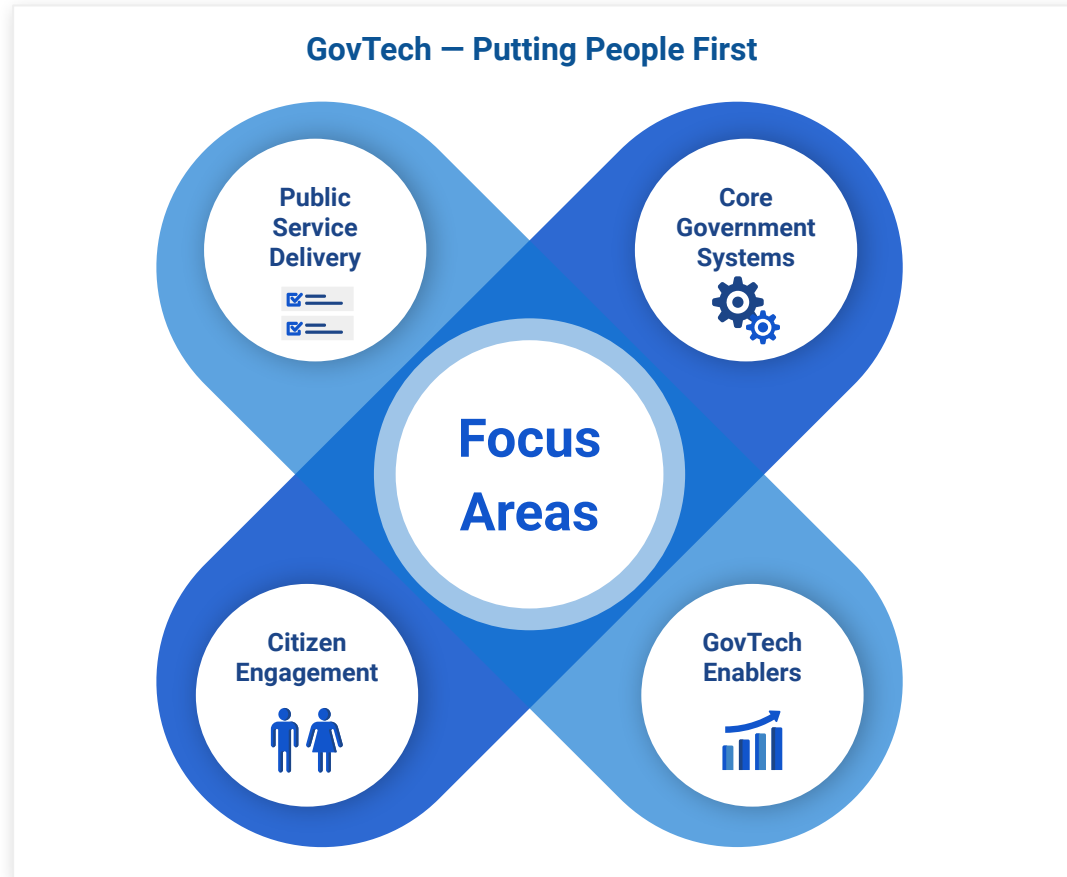- Simple, efficient, and transparent government systems
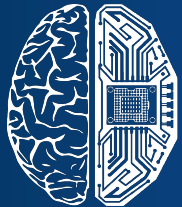
Executive Summary

The process of formulating public policy plays a central role in the life of a country's population. The **government's primary goal is for legislators to set guidelines and then government officials to enforce those policies**. Public policy affects the life of every citizen, from how and when to vote, to where everyone can park, and what is a crime and what is not.

GovTech companies participate in the policy implementation and evaluation phases and help governments implement their chosen public policy options. **GovTech companies are the link between the government and the population of a given country**.

Stakeholders inside and outside the government monitor the impact of a given policy and determine whether it achieves its intended goal. This can lead to further changes in public policy, taking into account the influence of the original policy.

GovTech — Putting People First

Public Service Delivery

Core Government Systems

Focus Areas

Citizen Engagement

GovTech Enablers

Sources: Media Overview, GovTech Analytics

Global GovTech Industry Overview

GovTech Analytics

Global GovTech Industry Overview 2024

Companies – 1110+
Investors – 1970+
Hubs - 50

Monitoring Systems

Energy-Saving, Utilities & Waste Management

Elderly and Healthcare

Education & Science

Public Safety

Companies
Investors
R&D Centers

Decision Making Platforms

E-government Solutions

Cyber Security

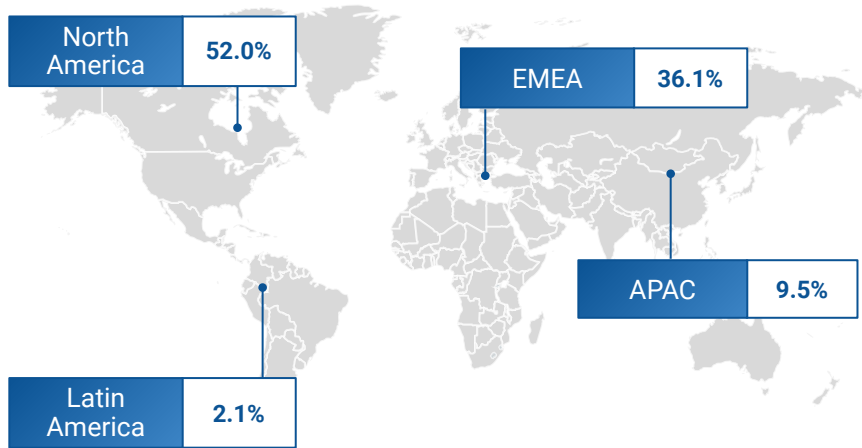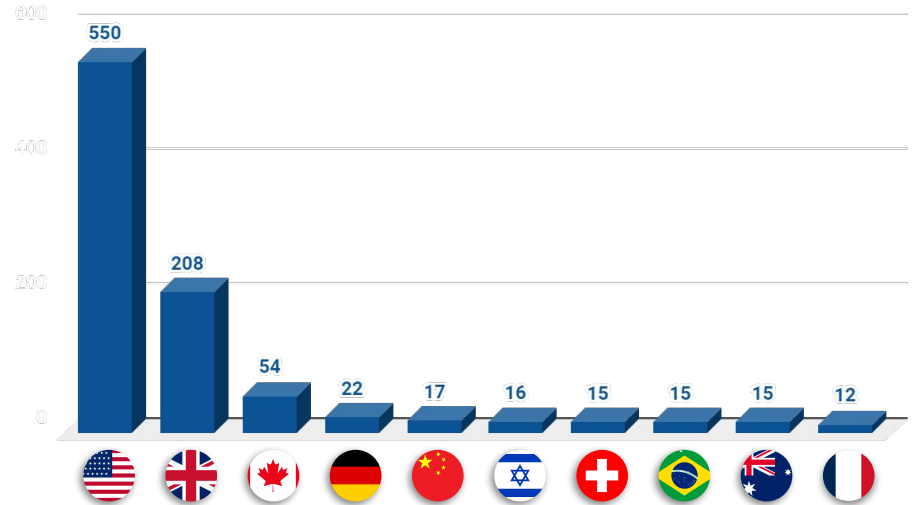Smart City & Transportation

Digital Participation & Services

DEEP KNOWLEDGE ANALYTICS
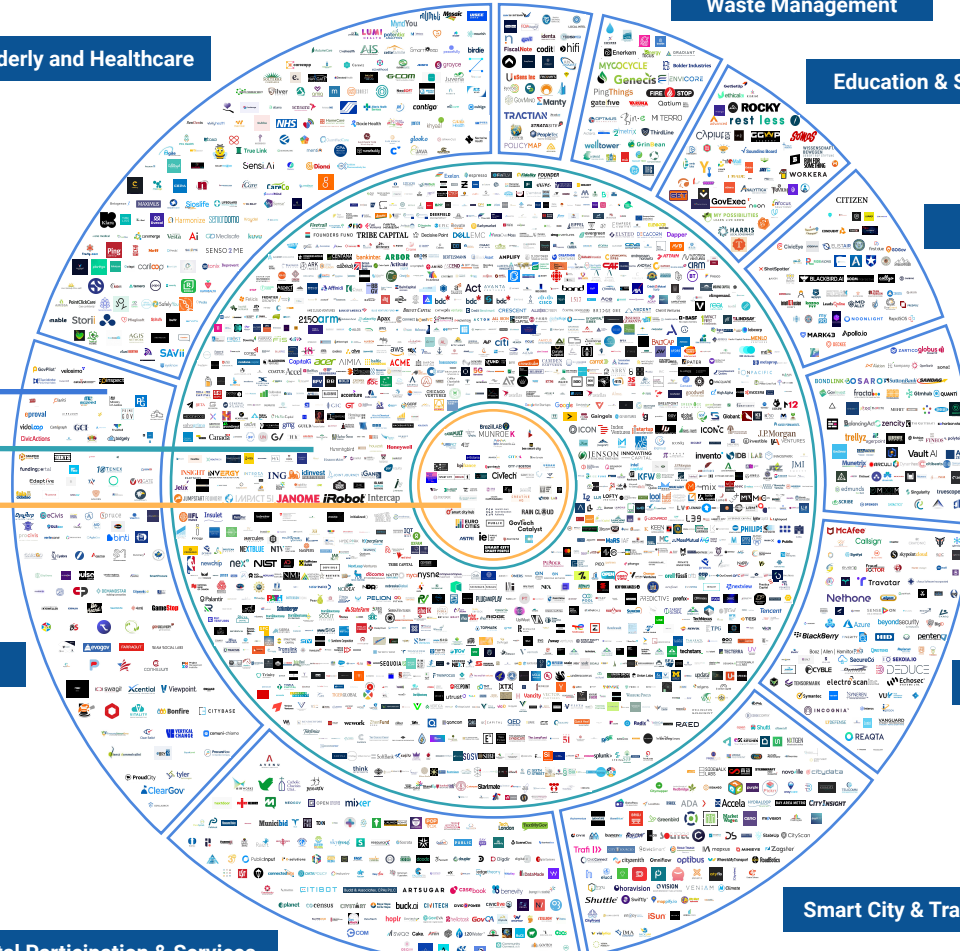
Regional Distribution of GovTech Companies

GovTech Companies by Regions

Region	Share
North America	52.0%
EMEA	36.1%
APAC	9.5%
Latin America	2.1%

Top 10 Countries by the Number of GovTech Companies

Country	Companies
United States	550
United Kingdom	208
Canada	54
Germany	22
China	17
Israel	16
Switzerland	15
Brazil	15
Australia	15
France	12

North America is leading the global GovTech industry, accounting for 52% of companies. The second biggest region by companies' location is EMEA with a more than 36% share. The Top-3 countries by the number of analysed companies are the United States (550), the United Kingdom (208), and Canada (54).

GovTech Companies by Subsectors

Share of GovTech Companies by Subsectors, 2024

Legend:
- RegTech
- Healthcare Solutions
- E-Government Solutions
- CivicTech
- Smart Cities & Transport
- Digital Services
- Data Security
- Public Safety
- Information Technology
- Decision Making Platforms
- Energy-saving, Utilities and Waste
- Education, Science & Culture
- Workforce Management
- Monitoring Systems

Pie chart values: 21.4%, 12.2%, 10.8%, 9.4%, 9.2%, 7.3%, 5.7%, 5.0%, 4.8%
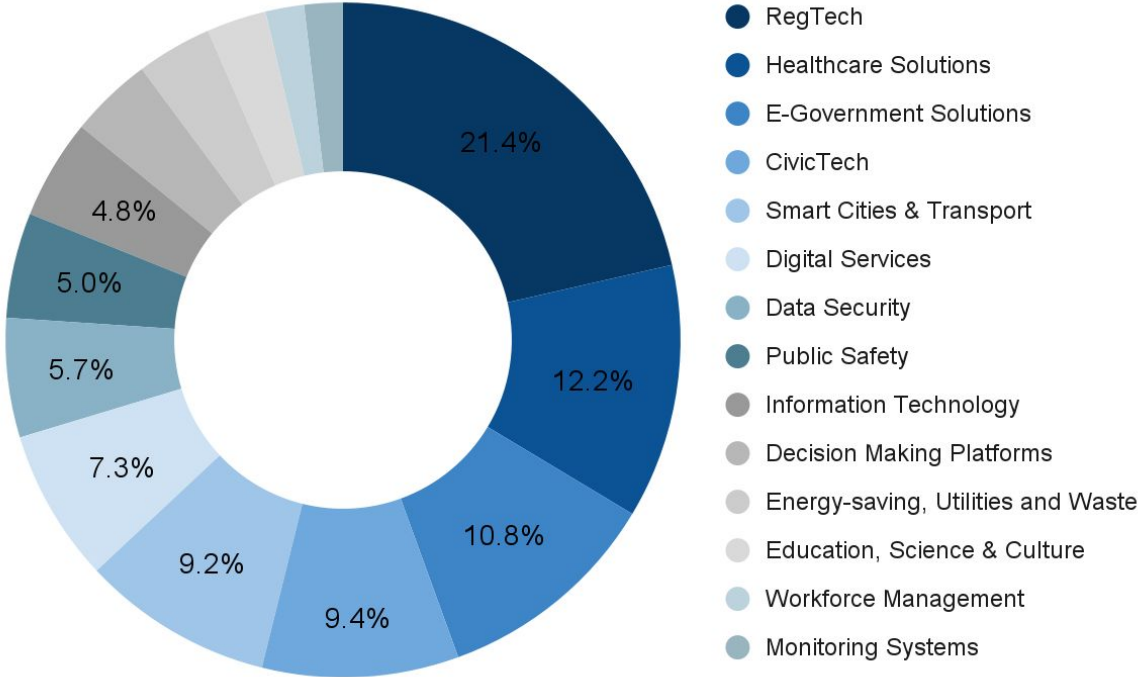
RegTech is the largest category comprising 21.4% of all analysed companies.

The second and the third biggest types are Healthcare Solutions and E-Government Solutions with 12.3% and 10.8% respectively.

Other significant categories are CivicTech with 9.4% and Smart Cities and Transport with 9.2% with minimal difference.
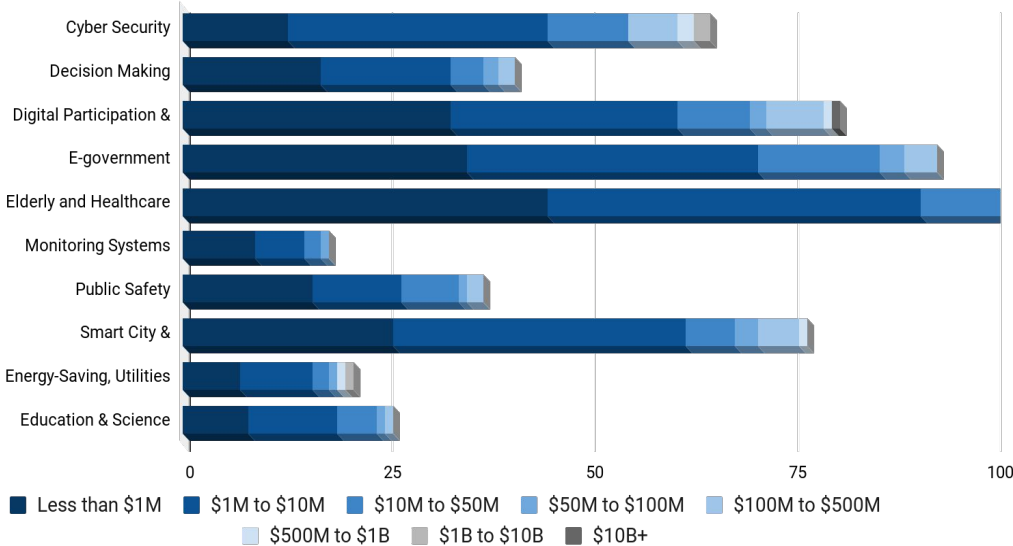
Sources: GovTech Analytics

Revenue Breakdown by Subsectors

Breakdown of GovTech Companies by Estimated Revenue, 2024
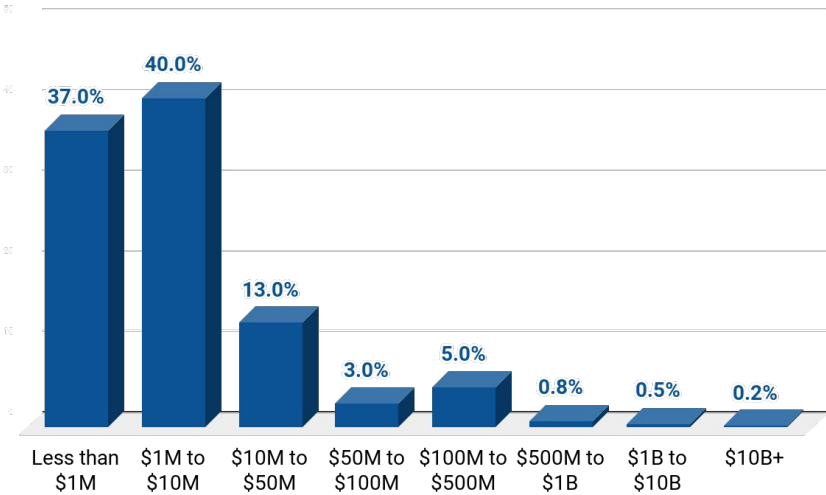
GovTech Subsectors by Estimated Revenue, 2024

Early-stage startups, middle-market firms, and publicly traded firms all make up the GovTech industry, which is a varied and expanding industry. Nevertheless, less than $10 million in income is earned by each of the 76% of GovTech businesses every year.

Investment Landscape

The demand for extended software development in technology companies has created a compelling need for substantial growth investments, particularly within the burgeoning field of GovTech. The intricate nature of software projects, often characterized by evolving technologies and complex requirements, underscores the necessity for significant financial backing to ensure sustainable progress and innovation.

The exponential growth of the GovTech sector, accelerated by the transformative impact of COVID-19, has unveiled fresh and promising investment opportunities. The pandemic has acted as a catalyst, prompting governments globally to swiftly adopt and integrate technology solutions to address unprecedented challenges. This surge in demand has not only elevated the importance of GovTech but has also shifted the perspective of venture capitalists, who were once hesitant. Increasingly, venture capitalists are recognizing the societal significance of GovTech and are more inclined to invest in ventures that promise tangible benefits for the world, reflecting a notable shift in investment trends within the technology landscape.

93%
of total funding invested
in US-based companies

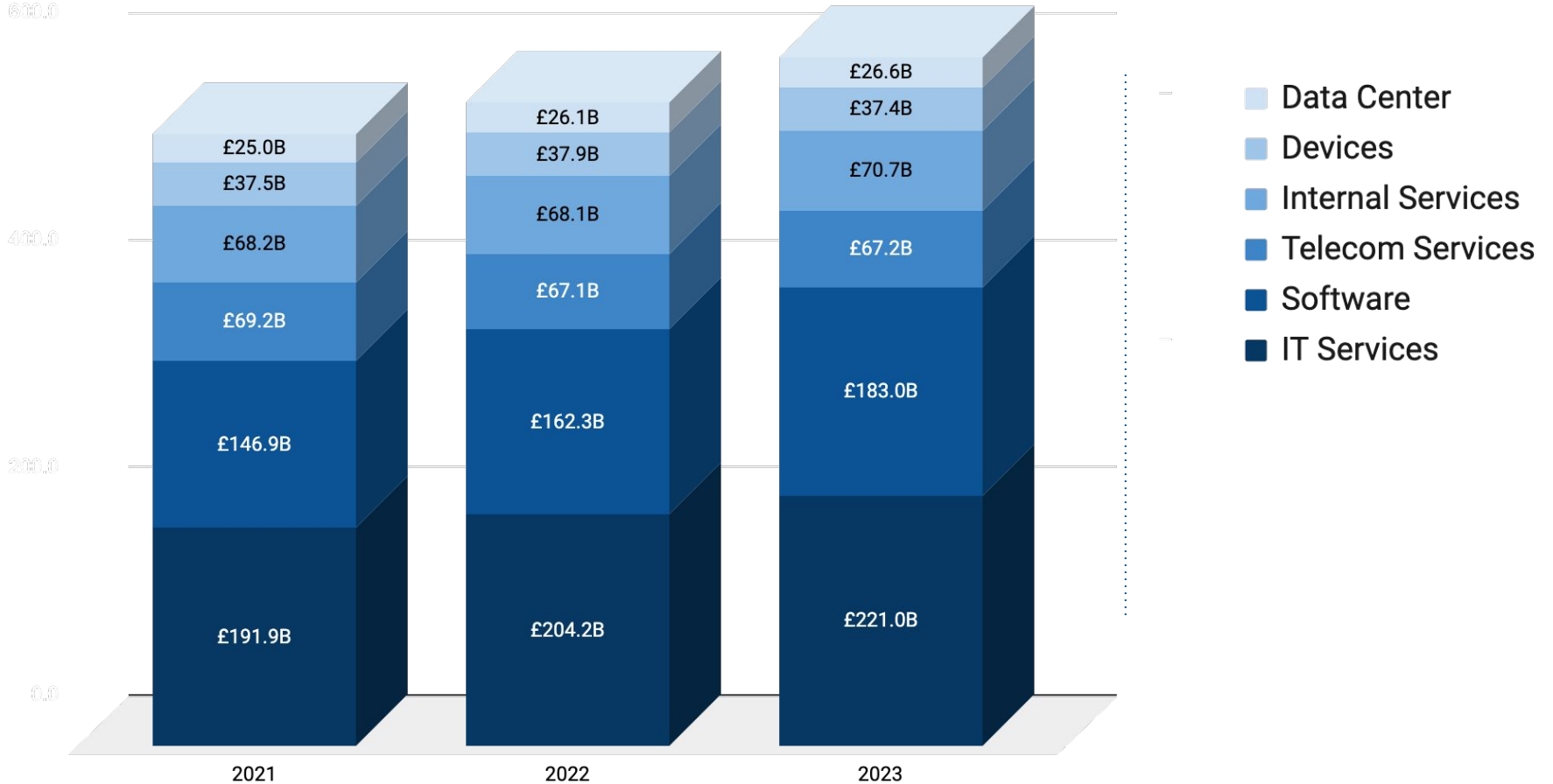**63%**
of investors are
US-based

$9.2B
Total reported funding

$231.9M
Largest Series F
GovTech deal

GovTech Investments 2021-2023

Legend:
- Data Center
- Devices
- Internal Services
- Telecom Services
- Software
- IT Services

2021:
- £25.0B
- £37.5B
- £68.2B
- £69.2B
- £146.9B
- £191.9B

2022:
- £26.1B
- £37.9B
- £68.1B
- £67.1B
- £162.3B
- £204.2B

2023:
- £26.6B
- £37.4B
- £70.7B
- £67.2B
- £183.0B
- £221.0B

Sources: Media Overview, GovTech Analytics

Selected Government Investments in Digital Transformation in 2020-2023

Australia (federal government)

The government allocated approximately $21.2 million to accelerate 5G deployment, including investing in 5G commercial trials and testbeds across key industry sectors.

UK (direct rule)

$38 million in government funding was allocated to boost the digital revolution and online privacy, tackle disinformation, and increase well-being.
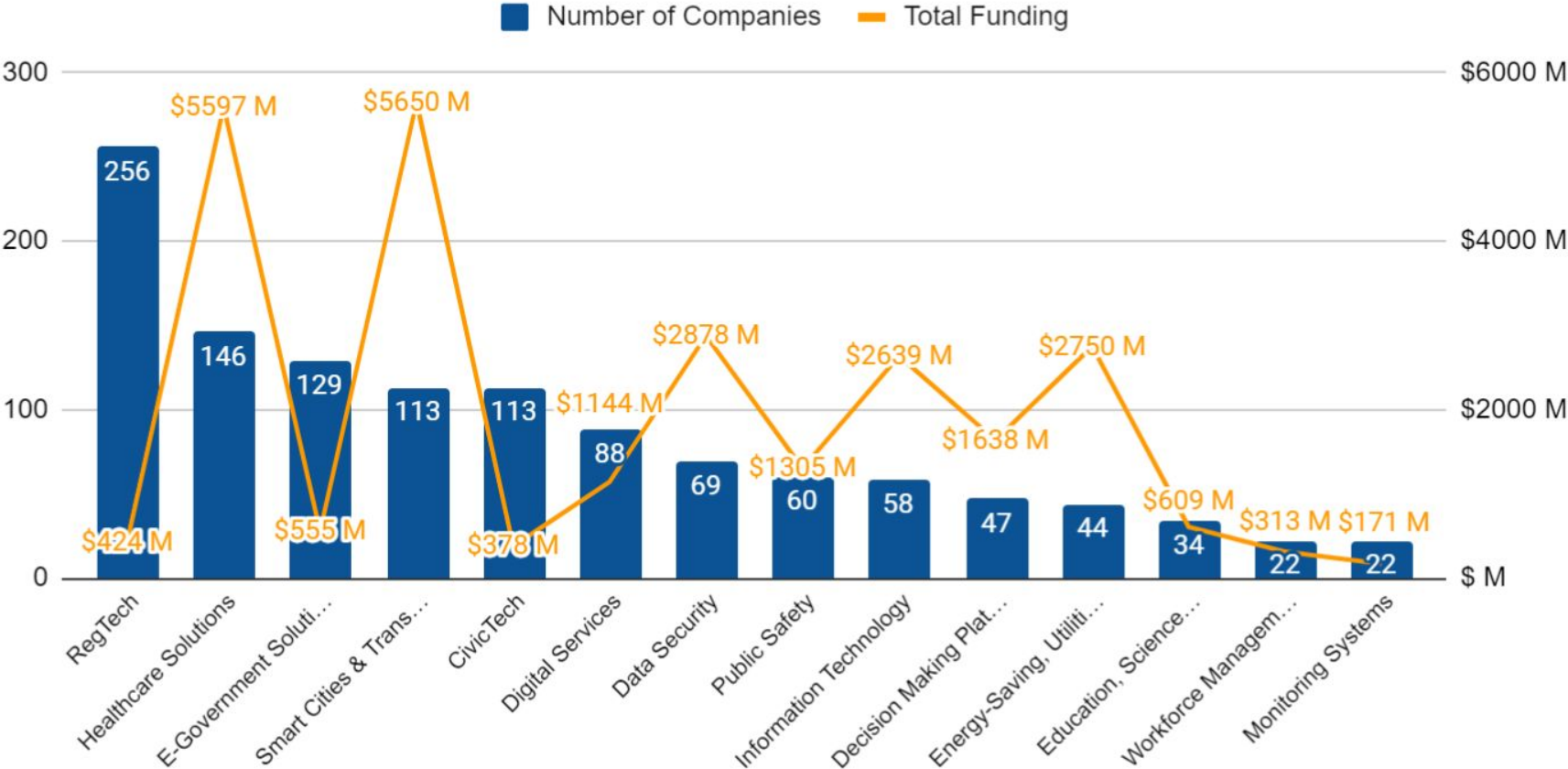
Scotland (devolved administration)

The Scottish Government announced $5.2 million of funding to build a series of hubs that would deploy 5G services across the country under the Scotland 5G Connect Programme.
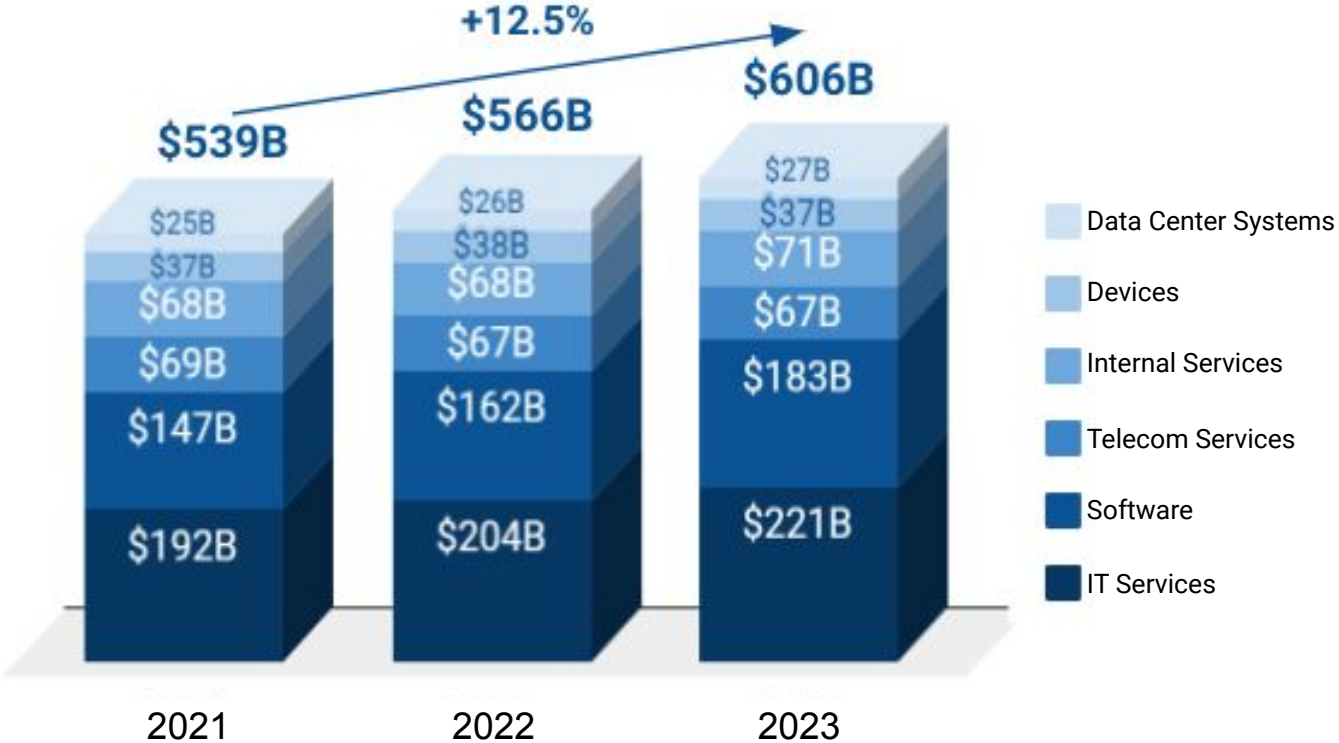
France (central government)

The French government allocated $8.4 billion to digital investments, including upgrading public information systems and ramping up digital inclusion efforts for elderly citizens.
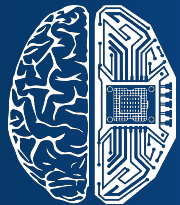
Distribution of GovTech Companies by Sector

Legend: ■ Number of Companies — Total Funding

Sector	Number of Companies	Total Funding
RegTech	256	$424 M
Healthcare Solutions	146	$5597 M
E-Government Soluti...	129	$555 M
Smart Cities & Trans...	113	$5650 M
CivicTech	113	$378 M
Digital Services	88	$1144 M
Data Security	69	$2878 M
Public Safety	60	$1305 M
Information Technology	58	$2639 M
Decision Making Plat...	47	$1638 M
Energy-Saving, Utiliti...	44	$2750 M
Education, Science...	34	$609 M
Workforce Managem...	22	$313 M
Monitoring Systems	22	$171 M

Source: GovTech Overview IT-Platform

Worldwide Government IT Spending by Category

The COVID-19 pandemic underscores the global imperative for governments to swiftly embrace technology, accelerating the digitalization of services. The urgency stems from the shared desire among citizens and organizations to enhance access to public services through technology. The surge in remote work, demand for contactless services, and increased reliance on government services have compelled public sector leaders worldwide to rapidly increase spending, innovate with technology platforms, and transform their organizations.

+12.5%

$539B
- $25B
- $37B
- $68B
- $69B
- $147B
- $192B

$566B
- $26B
- $38B
- $68B
- $67B
- $162B
- $204B

$606B
- $27B
- $37B
- $71B
- $67B
- $183B
- $221B

Legend:
- Data Center Systems
- Devices
- Internal Services
- Telecom Services
- Software
- IT Services

2021   2022   2023

Source: GovTech Book

Technologies Shaping GovTech Industry

Application of Big Data in Government

Governments and the public sector comprise a variety of use cases, and Big Data applications are gaining relevance as these agencies adapt to a changing global ecosystem.

Cybersecurity
Healthcare
National Security
Agriculture
Weather Forecasting
Transport
Open Government
Education
Smart Cities
Taxation

Application of Big Data in Public Sector

Applications of Big Data in Government
National and Cyber Security
Open Government and Taxation
Education
Transportation
Agriculture
Weather Forecasting
Smart Cities

Source: GovTech Book

GovTech and Blockchain

Blockchain-based digital government can protect data, streamline processes, and reduce fraud, waste, and abuse while increasing trust and accountability. In a blockchain-based model of government, individuals, companies, and governments share resources through a cryptographically secure distributed ledger. This framework eliminates a single point of failure and protects sensitive citizen and government data.

Government Use Cases:

Proof of Title and Transfers	**Self-enforcing Contracts**
Verification of Documents	**Patent Protection**
Administration of Welfare Benefits	

Benefits for Blockchain-based Governments

- Secure Storage of Government, Citizen and Business Data
- Reduction the Labour Intensity of Processes
- Reduction of Excessive Costs Associated with Reporting
- Reduction of Opportunities for Corruption and Abuse
- Increasing Trust in Government and Civilian Online Systems

Sources: Consensys, McKinsey
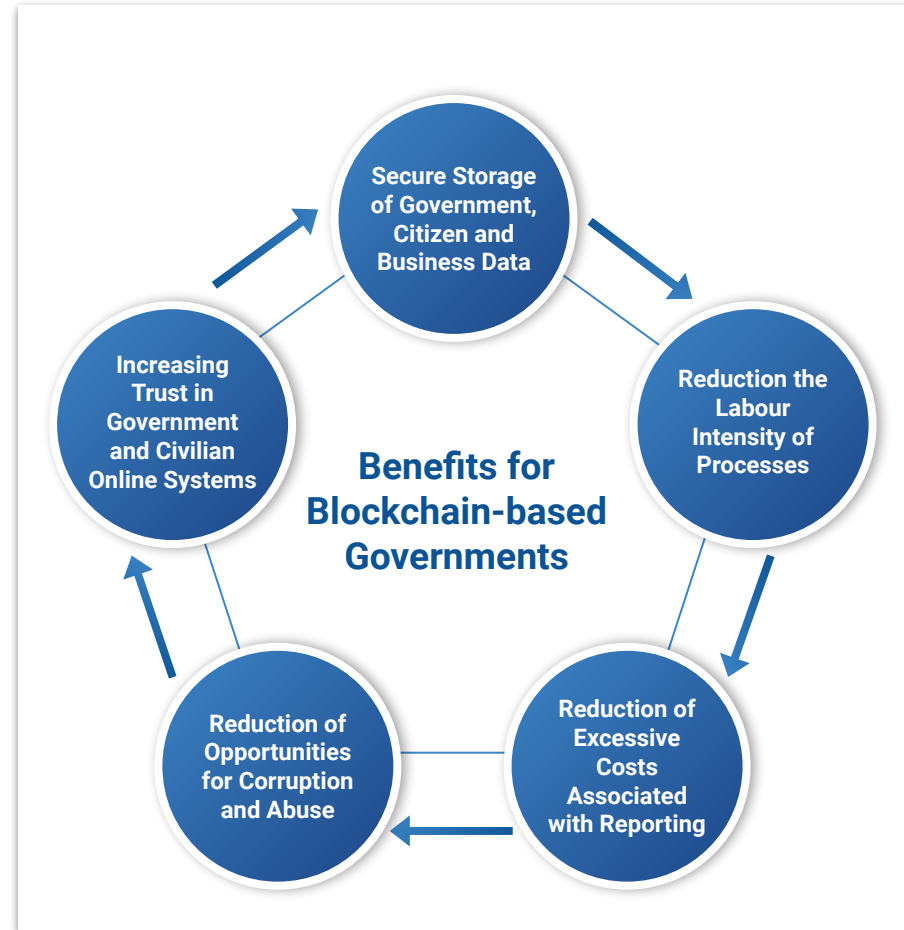
GovTech and Artificial Intelligence

AI is improving the way the public sector serves its constituents.

One of the main approaches to driving the adoption of AI in government is **external orientation**. Countries that lean towards this approach can be seen as those that focus more on public-private collaboration to develop Artificial Intelligence (AI) in the public sector. These countries have recognised that public administration bodies do not have sufficient capacity and competence, and systems are too complex to work autonomously with AI.

The second approach, which can be highlighted in the strategies, is more **data oriented**. The group of countries that lean towards this approach are mostly looking to promote the availability and quality of data to drive AI. These strategies mostly describe initiatives to address the various data-related obstacles that prevent the development and deployment of AI in the public sector.

The third approach focuses primarily on improving internal capacity (**internally oriented**) as a key tool for driving the use of AI in governments. It is interesting to note that none of the countries analysed fall exclusively into this category, as no strategy has focused strongly on exclusively improving the internal capacity of public administrations as the best approach to facilitate AI adoption.

Clustering Exercise on the National Strategies

Sources: JRC Science for Policy Report
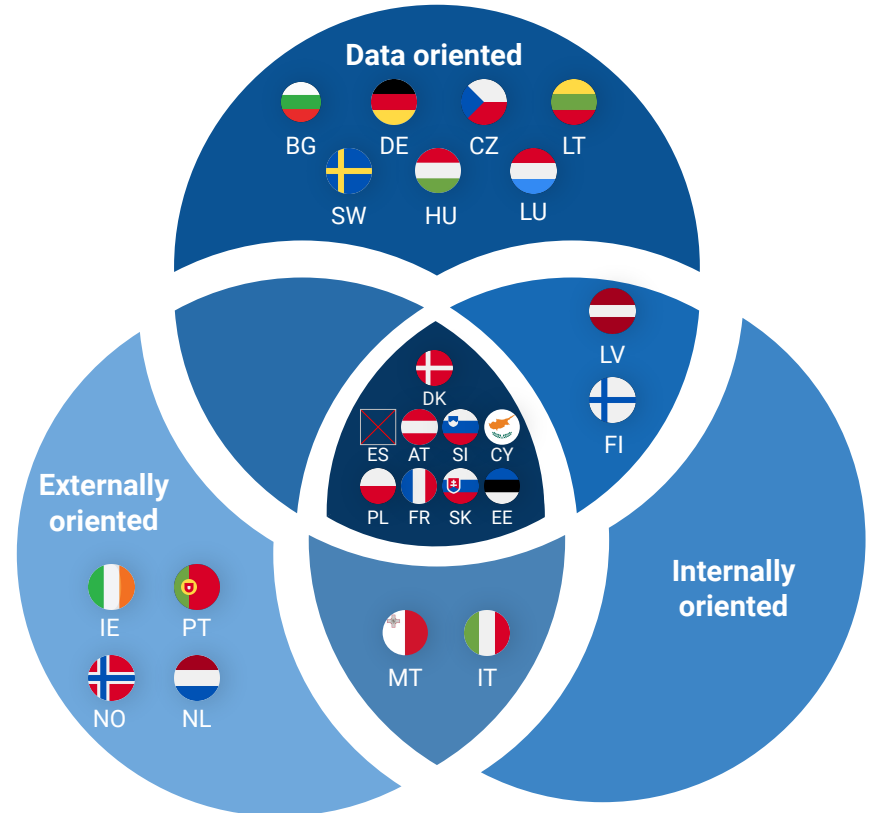
GovTech and Internet of Things

IoT gives the public sector the opportunity to transform services through data, analytics and automation. In simple terms, the Internet of Things refers to any object connected to the Internet that allows data to be sent and received seamlessly. Once networked, data can be easily mined and analysed – more than enough to revolutionise the way public services are delivered to citizens.
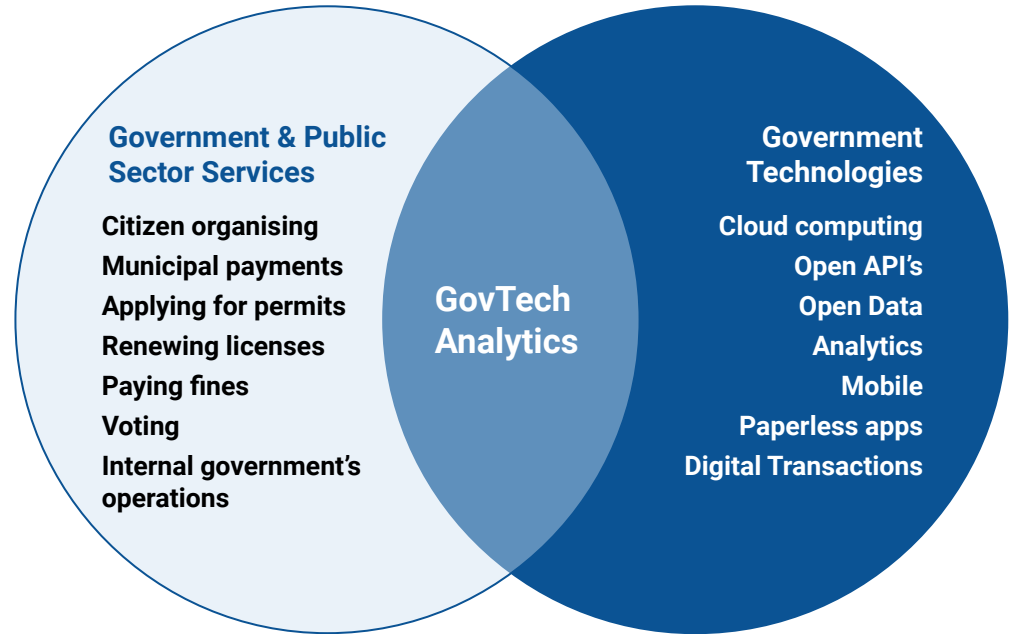
Flash Warning Alarms

Ensure Public Safety

Better Infrastructure

Better Traffic Management

GPS assisted Vehicles

Efficient Industrial Work

Advantages of Internet of Things

Pollution Tracking

Conserving Natural Resources

Conserving Natural Resources

Disaster Management

Improve Healthcare

Smart Cities

Sources: Analytics Steps
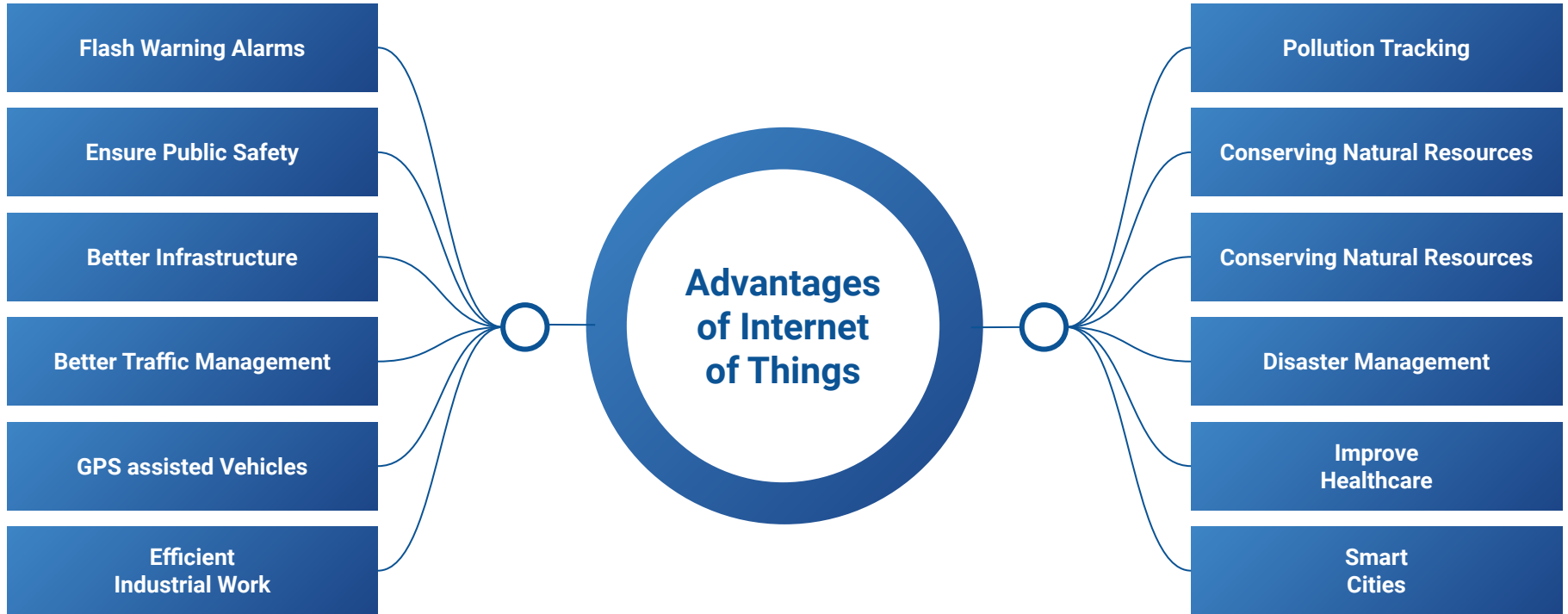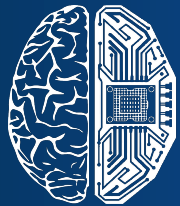
About GovTech Analytics

About GovTech Analytics Company

In the dynamic world of GovTech, GovTech Analytics serves as a guiding light, steering companies through the ever-changing landscape. We are architects of change, illuminating the path forward as technology reshapes the future of governance.

At GovTech Analytics, we stand at the forefront of the digital revolution, providing essential insights and strategies for companies to thrive in the GovTech realm. We understand the complexities of this evolving sector and offer expert guidance, enabling businesses to effectively meet citizens' needs, foster innovation, and create seamless collaborations between government, industry, and citizens.

GovTech Analytics is committed to fostering a smarter, more accessible future. With open arms and a dedication to innovation, we lead the way, embracing the challenges of tomorrow. Together, we are crafting a transformed world where GovTech solutions empower societies and drive meaningful change.

Government & Public Sector Services

Citizen organising
Municipal payments
Applying for permits
Renewing licenses
Paying fines
Voting
Internal government's operations

GovTech Analytics

Government Technologies

Cloud computing
Open API's
Open Data
Analytics
Mobile
Paperless apps
Digital Transactions

GovTech Analytics: Our Proprietary Approach

Producing GovTech Industry Reports Since 2019

GovTech Analytics, a flagship initiative meticulously overseen by the esteemed Deep Knowledge Group, stands as an unparalleled open-access hub at the forefront of the evolving Government Technology (GovTech) landscape. At its core, GovTech Analytics serves as a pivotal nexus, offering an extensive repository of global GovTech data, meticulously curated analyses, and astute predictions. This platform operates as a comprehensive resource, enlightening stakeholders with profound insights and illuminating statistics that dissect the analytical trends pulsating within the dynamic Government Technology sector.

What Makes Us Different:

GovTech Data and Analyses:
We conduct deep research on global government technology usage, digital transformation, and data analysis. Our insights directly influence government policymaking processes, providing valuable guidance based on thorough analysis.

Predictions and Analyses:
Our forward-thinking approach enables us to predict GovTech sector trends, guiding governments in future technology investments. We anticipate developments, ensuring governments stay ahead in the fast-changing technological landscape.

Industry Developments:
We track the latest innovations, offering real-time updates on GovTech advancements. This proactive monitoring keeps government policies current, facilitating agile responses to industry changes.

What differentiates us is our commitment to delivering actionable insights, empowering governments to make informed decisions in the ever-evolving GovTech arena.

Evolution of GovTech Analytics by DKG
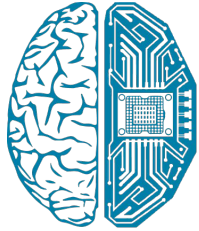
DEEP KNOWLEDGE ANALYTICS

Deep Knowledge Analytics founded in 2018 with the focus on the DeepTech industries. The agency producing advanced analytics on DeepTech and frontier-technology industries using sophisticated multi-dimensional frameworks and algorithmic methods that combine hundreds of specially-designed and specifically-weighted metrics and parameters to deliver insightful market intelligence, pragmatic forecasting and tangible industry benchmarking.

2018
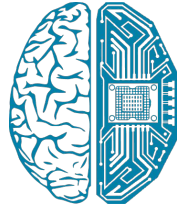
DEEP KNOWLEDGE ANALYTICS
GOVTECH DIVISION

The GovTech Division of Deep Knowledge Analytics was created in 2019 with the special GovTech industry, main sectors to be changed, barriers to this process, and ways to overcome them.

The division conducts quantitative analytics and benchmarking on the main types of technologies used by GovTech including blockchain, AI and machine learning, IoT, robotic automation, and geospatial data analysis, with emphasis on the best examples of their implementation.

2019
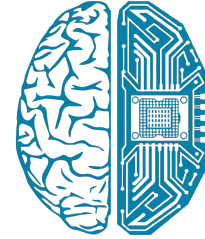
GovTech Analytics

GovTech Analytics created in 2023 as a subsidiary company that offers a comprehensive platform enriched with years of data analysis and industry trend insights. GovTech Analytics includes Market Intelligence tools, advanced visualization features, automated comparative SWOT analysis, an open collaboration platform, investment and financial analysis capabilities, a closed platform tailored for experts, news and corporate NLP analysis, transparency mechanisms, and cross-industry comparative analysis. These solutions empower you to lead and shape the transformation in the GovTech sector, enabling the development of smarter, sustainable, and more effective solutions.

2023

GovTech Analytics Strategy

Collaborative Innovation Hub

GovTech Analytics (GA) serves as the epicenter of collaborative innovation, providing a dynamic hub where GovTech companies converge for knowledge exchange, joint research, and collaborative projects.

Unified Marketing and Branding Campaign

Through marketing campaigns, social media initiatives, and industry events, the platform showcases transformative GovTech solutions, reinforcing a shared vision and identity.

Government Outreach and Advocacy

GovTech Analytics engages in proactive government outreach and advocacy, positioning itself as a trusted advisor and analytics provider to policymakers.
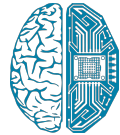
GovTech Analytics

Cross-Company Data Collaboration

GA drives GovTech collaboration with secure, ethical data exchange, fostering shared insights and informed decision-making through industry trend analysis.

Shaping Policy and Industry Norms through Deep-Tech Consultancy

Engaging in deep-tech consultancy and analytics, GA plays a pivotal role in shaping policy-making and industry norms

Following Innovations and Adapting to Industry Needs

The platform prioritizes staying abreast of emerging GovTech trends, ensuring that its consortium members are equipped with the latest technologies.

Government Acknowledgement

Hong Nam-ki

Deputy Prime Minister of South Korea

Hong Nam-ki posted about Deep Knowledge Group's COVID-19 Safety Ranking published on 26th of August 2020.

Karin Prien

German Minister

German Minister of Minister of Education, Science and Culture, Karin Prien, tweeted Der Spiegel Article about Deep Knowledge Group's COVID-19 Rankings published on 14th of April 2020.

Alain Berset

Former President of Switzerland

Alain Berset is Federal Councillor, Head of the Federal Department of Home Affairs (DFI) and former President of the Swiss Confederation. Alain Berset mentioned Deep Knowledge Group's COVID-19 Safety Ranking published on 4th of June 2020 on his Twitter account.

Judit Varga

Minister of Justice

Hungarian Minister of Justice, Judit Varga, tweeted about Deep Knowledge Group's COVID-19 Rankings published on 14th of April 2020.

Government Acknowledgement

Dr. Vivian Balakrishnan
Singaporean Minister for Foreign Affairs

Deep Knowledge Group's survey of 200 countries and territories released earlier this month ranked Singapore the fourth safest place in the world to live in during the Covid-19 pandemic.

Hemann Gröhe
Germany Former Minister of Health

"We are a strong country! First place worldwide in government support programs during the Corona crisis. And solidarity in Europe and the world. Source: Deep Knowledge Group"

Ahmed Bin Sulayem
Executive Chairman of DMCC

Ahmed Bin Sulayem, the Executive Chairman of DMCC (Dubai Multi Commodities Centre), retweeted Deep Knowledge Group's COVID-19 Rankings published on 26th of August 2020.

Government Departments / Bodies Acknowledgement

Abu Dhabi Government Media Office

A total of 100 cities from around the world have been examined and added to the Deep Knowledge Analytics (DKA) report

The recognition reflects the emirate's comprehensive, efficient and timely COVID-19 pandemic response

Abu Dhabi was also ranked as the leading city in response to COVID-19 globally in a similar report published by DKA in early 2021

HOUSE OF SWITZERLAND

House of Switzerland is managed by Presence Switzerland, the unit of the Federal Department of Foreign Affairs that is competent for the image of Switzerland abroad, and implements the strategy of the Federal Council on Switzerland's communication abroad. House of Switzerland tweeted about Deep Knowledge Group's COVID-19 Safety Ranking published on 4th of June 2020.

OCHA

The United Nations Office for the Coordination of Humanitarian Affairs (OCHA) in the Central African Republic

OCHA in the Central African Republic retweeted about Deep Knowledge Group's COVID-19 Safety Ranking published on 26th of August 2020.

Ministry of Media

The Saudi Government Communication Center

The Government Communication Center is one of the vital arms of the Ministry of Information, whose main task is to strengthen and integrate the tools of government communication. The Center tweeted about Deep Knowledge Group's COVID-19 Safety Ranking published on 4th of June 2020.

Government-Related Projects and Partnerships

Aging Analytics Agency was appointed by **MIDAS (the inward investment arm of the local Manchester government)** to analyze and profile Greater Manchester's healthy ageing assets as part of their municipal Healthy Ageing Industrial Strategy.

Deep Knowledge Analytics collaborated with the **UK All-Party Parliamentary Group on Blockchain** in two landscape analysis reports and IT-Platforms (2018 and 2021) which profiled the full extent of the United Kingdom's blockchain industry,

Deep Knowledge Analytics collaborated with the **UK All-Party Parliamentary Group** on AI to produce "*Artificial Intelligence Industry in the UK Landscape Overview 2021: Companies, Investors, Influencers and Trends*" produced by **Innovation Eye and powered by Big Innovation Centre and DKA.**

Deep Knowledge Analytics is proud to collaborate with **Scottish Enterprise on a groundbreaking report,** "Blockchain Industry in Scotland Landscape Overview: Companies, Investors, Influencers, and Trends." This study marks the inaugural and comprehensive review of Scotland's rapidly developing blockchain sector.

Producing GovTech Industry Reports Since 2019
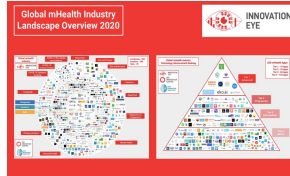
2019   **2020**   **2021**   **2022**   **2023**

Evolution Analytical Methods and Systems
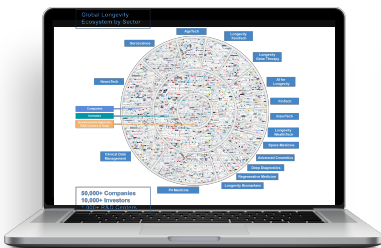
Created frameworks as a basis for further analytical research of complex industries	Industrial and regional representation of the market development	Different analytical products arranged into thematic dashboards	Extended the number of dashboards' tools and added the embedded AI Engine	Advanced visualization capabilities for comprehensive data representation.
Frameworks of Complex Longevity and DeepTech Industries, Fundamental Analytical Reports	**Advanced Visualization of DeepTech Industries**	**Big Data Analytics Dashboards**	**AI-driven Big Data Analytics System and Dashboards**	**Advanced Visualization**
2013-2018	**2019**	**2020 - 2021**	**2022**	**2023-2024**

Fully Integrated Big Data Analytical Systems and Dashboards

AI-driven Big Data Analytics System and Dashboards

Extended the number of dashboards' tools and added the embedded AI Engine

Advanced Visualization

Advanced visualization capabilities for comprehensive data representation.

Case Studies and Government Commissioned Projects

GovTech
Analytics

GovTech Analytics Global Platform

GovTech Analytics includes market intelligence tools, advanced visualization features, automated comparative SWOT analysis, an open collaboration platform, investment and financial analysis capabilities, a closed platform tailored for experts, news and corporate NLP analysis, transparency mechanisms, and cross-industry comparative analysis.

GovTech in UK Platform

Govtech in the UK is a flourishing and dynamic sector, characterised by the active participation of numerous entities committed to driving in Govtech Industry.

With a collective force of 225 Companies, 210 Investors, 45 Hubs the landscape of Govtech in the UK is vibrant and diverse.

Deep Knowledge Group Launched at Queen Elizabeth II Centre in London

Venue for the GovTech 2022 Conference at Queen Elizabeth II Centre in London, UK

Dominic Jennings and Dmitry Kaminskiy speak at landmark GovTech 2022 Conference among leading GovTech companies and top government officials from UK Department for Business, Energy & Industrial Strategy, Department for Digital, Culture, Media and Sport, Centre for Data Ethics and Innovation.

On October 13th, 2022, Deep Knowledge Group unveiled five GovTech and DeepTech Big Data Analytics Dashboards at the landmark GovTech Global 2022 conference alongside top government officials and industry leaders, including the world's first and most comprehensive AI-driven Global GovTech Big Data Analytics System, as well as Deep Knowledge Analytics' UK Digital Ecosystem Dashboard, GovTech in UK Dashboard, and Aging Analytics Agency's Global Longevity Governance Dashboard and Longevity Governance in the UK Dashboard.

GovTech Analytics Previous Partnerships and Joint Ventures

Joint projects leveraging Henley & Partners' data sets and DKA's analytical capabilities. Developing innovative platforms using COVID-19 country safety rankings data.


Sharjah Research Technology & Innovation Park and Deep Knowledge Analytics have formed a unique strategic partnership to map the Longevity Industry in the United Arab Emirates.

Aging Analytics Agency is appointed by MIDAS to analyze and profile Greater Manchester's healthy ageing assets (companies, investors, R&D Hubs, etc.) to support the local government in achieving goals outlined in their Healthy Ageing Industrial Strategy.
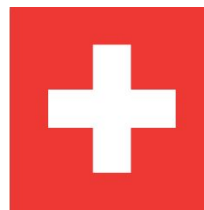
Basel Area Life Sciences Ecosystem Overview Q3 2021 is a comprehensive analytical report which assembled information about key trends in the industry. The report was compiled to give a detailed systematic description of the leading companies, investors, R&D and labs, universities, and other NGO's related to the life-science industry located in Basel.

MIDAS appoints Aging Analytics Agency to profile Greater Manchester's healthy ageing assets

MIDAS, Greater Manchester's inward investment agency, has partnered with Aging Analytics Agency to assess the region's strengths in healthy ageing. The goal is to leverage the growing global demand for technologies and services addressing ageing populations. This initiative aligns with the Greater Manchester Innovation Partnership in Healthy Ageing (IPHA), aiming to establish the region as a leader in the healthy ageing industry through innovation, inward investment, and global recognition.

Tim Newns, CEO, MIDAS

"With a growing population, Greater Manchester has put healthy ageing at the heart of its Local Industrial Strategy and is creating a city region test bed to trial close-to-market goods and services for older people. I have every confidence that the work undertaken by Aging Analytics Agency will further widen and cement our proposition as an international leader in this field and showcase Greater Manchester as the ideal environment to take advantage of this ever-growing market."

Source: Health Innovation Manchester

Blockchain Landscape 2023: Commissioned Study by Scotland National Economic Development Agency
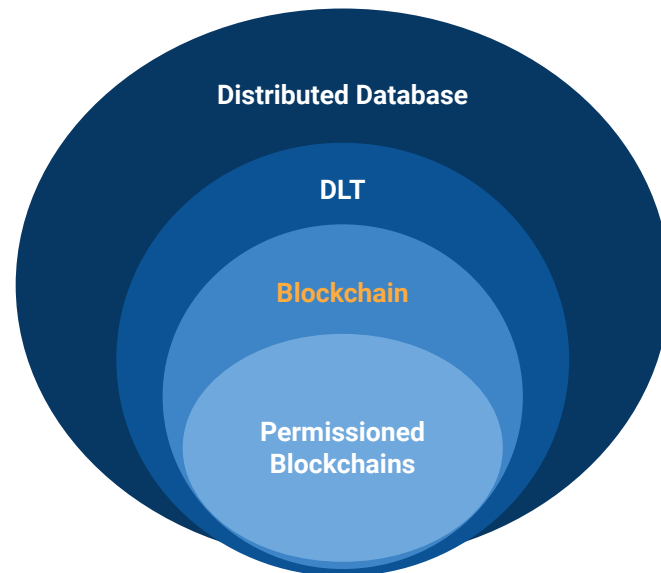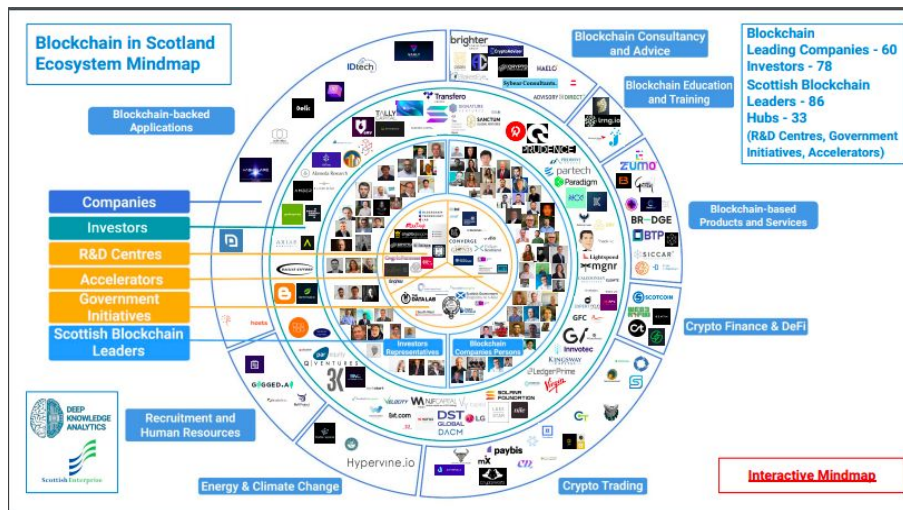
Scotland's growing **blockchain ecosystem** includes **startups, academic institutions, and partnerships** spanning sectors like **Blockchain-as-a-Service (BaaS) and blockchain consultancies.** This framework promotes collaboration and growth. Blockchain technology has the potential to contribute **£4.48 billion to Scotland's GDP by 2030,** benefiting supply chains, healthcare, and finance. It's also explored in energy for peer-to-peer trading and healthcare for secure data sharing. In the public sector, it can boost efficiency, security, and trust while reducing administrative costs.

About Project: Comprehensive Overview of The Entire Blockchain Industry Ecosystem in 32 Scottish Council Areas

"Deep Knowledge Analytics expresses pride in collaborating with Scottish Enterprise to create a groundbreaking report aimed at fostering the future growth of the blockchain industry in Scotland. The study, titled 'Blockchain Industry in Scotland Landscape Overview: Companies, Investors, Influencers, and Trends,' stands as the inaugural and comprehensive review of Scotland's rapidly developing blockchain sector."

Suzanne Sosna

Scottish Enterprise Director of Economic Opportunities

This is the first review of its kind into the companies, investors and impact of blockchain that could unlock new and scalable innovation opportunities for our digital economy in Scotland.
The technology is most associated with the financial sector, but we wanted to look beyond that across industries where blockchain technology might be lesser known, but no less innovative, such as in education where it's used to make qualifications secure.

Source: Scottish Enterprise News

European GovTech Programmes: Austria and Poland

National governments are implementing a wide range of strategies, structures, and services when they create their own GovTech programmes in order to acquire cutting-edge technology and capitalise on the potential advantages of a thriving GovTech ecosystem. To demonstrate the range of options, we give an overview of the various setups and their actions in this chapter. While we concentrate on national GovTech programmes in this research, the conclusions may mostly be extended to other levels of government as well.

Austria

The establishment of Austria as a desirable and digital future business location requires the support of the economy with best practices related to the digital transformation, the creation of digitalisation-friendly regulatory framework circumstances, and the implementation of relevant financial assistance offers.

Austrian Digitalisation Priorities

Providing economic support through digital services (such as electronic sole proprietorship establishment)	Cultivating an atmosphere that is digitalisation-friendly to encourage digital innovation
Expansion of online services available to citizens (e.g., through oesterreich.gv.at)	Establishing a task force for digitalization to coordinate the federal government's overall digitisation efforts

Poland

In chasing its goal is to "convert Poland from analog to digital" and to position the country as a global leader in the application of cutting-edge "disruptive" technology, particularly in administration and public services at all levels, from municipal to central government offices, Poland uses a tremendous amount of instruments.

Digital Poland Programme Priority Areas by 2023

Common access to high-speed Internet

E-government and open government

Digital competences of the society

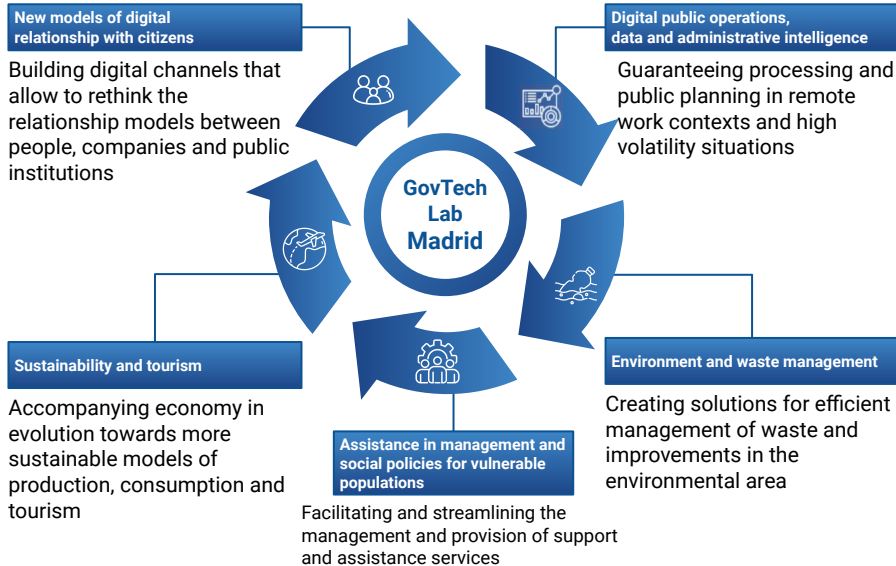Sources: digitalpoland, Bundesministerium Arbeit und Wirtschaft

European GovTech Programmes: Spain and Switzerland

Spain

The number of Spanish public initiatives and the size of investments have increased rapidly over the past few years. This is happening due to the high number of digital MSMEs and GovTech startups operating in the country.
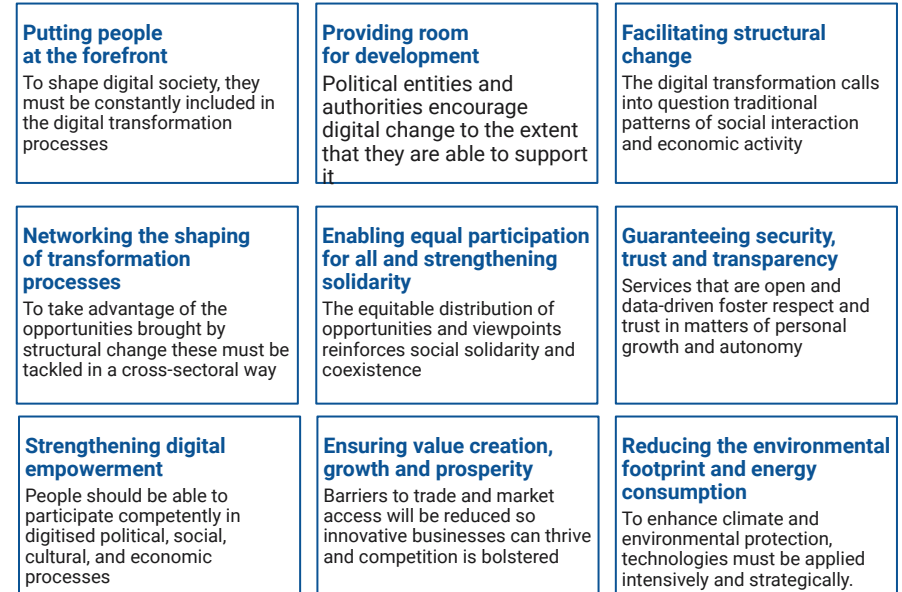
GovtechLab Madrid Has Programmes for Innovating 5 Key Government Spaces

New models of digital relationship with citizens

Building digital channels that allow to rethink the relationship models between people, companies and public institutions

Digital public operations, data and administrative intelligence

Guaranteeing processing and public planning in remote work contexts and high volatility situations

GovTech Lab Madrid

Sustainability and tourism

Accompanying economy in evolution towards more sustainable models of production, consumption and tourism

Assistance in management and social policies for vulnerable populations

Facilitating and streamlining the management and provision of support and assistance services

Environment and waste management

Creating solutions for efficient management of waste and improvements in the environmental area

Switzerland

One of the most developed economies in terms of public sector digital transformation is administered by the Swiss government. One of the main areas of attention is the increased usage of virtual interfaces for the delivery of public services.

Digital Switzerland Principles and Objectives

Putting people at the forefront
To shape digital society, they must be constantly included in the digital transformation processes

Providing room for development
Political entities and authorities encourage digital change to the extent that they are able to support it

Facilitating structural change
The digital transformation calls into question traditional patterns of social interaction and economic activity

Networking the shaping of transformation processes
To take advantage of the opportunities brought by structural change these must be tackled in a cross-sectoral way

Enabling equal participation for all and strengthening solidarity
The equitable distribution of opportunities and viewpoints reinforces social solidarity and coexistence

Guaranteeing security, trust and transparency
Services that are open and data-driven foster respect and trust in matters of personal growth and autonomy

Strengthening digital empowerment
People should be able to participate competently in digitised political, social, cultural, and economic processes

Ensuring value creation, growth and prosperity
Barriers to trade and market access will be reduced so innovative businesses can thrive and competition is bolstered

Reducing the environmental footprint and energy consumption
To enhance climate and environmental protection, technologies must be applied intensively and strategically.

# Blockchain in the UK (Joint IT-Platform and Report with UK All-Party Parliamentary group on Blockchain): 1st Edition (2018) and 2nd Edition (2021)

Deep Knowledge Analytics collaborated with the UK All-Party Parliamentary Group on Blockchain in two landscape analysis reports and IT-Platforms (2018 and 2021) which profiled the full extent of the United Kingdom's blockchain industry, with press briefings co-hosted by Deep Knowledge Analytics held in the UK House of Lords, and discussed at a number of UK APPG on Blockchain Advisory Board Meetings, at which Deep Knowledge Analytics representatives participated.

AI in the UK (Joint IT-Platform and Report with UK All-Party Parliamentary group on AI): 1st Edition (2018) 2nd Edition (2021)

Artificial Intelligence Industry in the UK Landscape Overview 2021: Companies, Investors, Influencers and Trends" produced by Innovation Eye and powered by Big Innovation Centre and DKA presents an updated overview of the entire (AI) Industry Ecosystem in the UK. It serves as a comprehensive follow-up to Innovation Eye's AI in UK Landscape Overview 2018. The work is produced in dialogue with the (APPG AI).
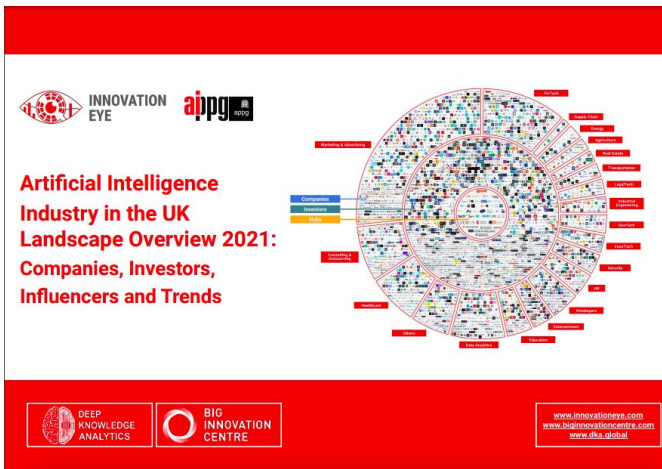
GovTech Book
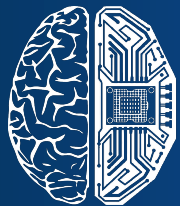
GovTech Book

"Global GovTech Industry" by Dmitry Kaminskiy and Alexei Cresniov is a groundbreaking book that explores the transformative impact of GovTech on governance. It addresses challenges governments face in the digital age, emphasizing the role of technology and innovation. The book covers the evolution of technology in government, digital identity, and practical GovTech implementation, including real-time governance monitoring and cybersecurity. It also explores GovTech's impact on the developing world and its potential in the global charity sector. Aimed at policymakers and citizens, the book provides insights into enhancing government efficiency and inclusivity. Pre-order your copy to be part of the GovTech revolution shaping our digital governance landscape.
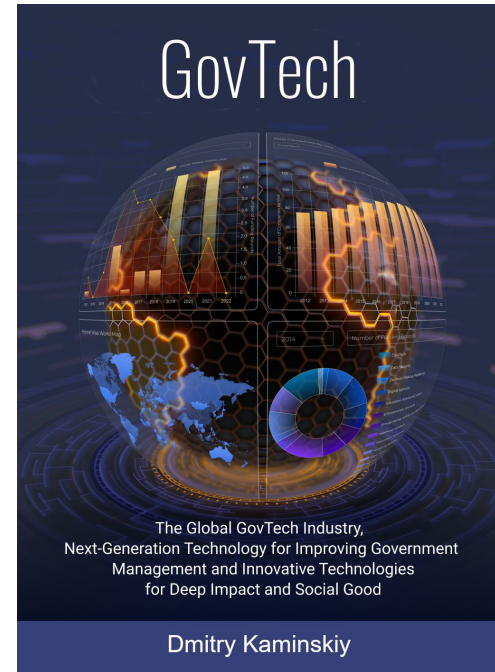
GovTech

The Global GovTech Industry,
Next-Generation Technology for Improving Government
Management and Innovative Technologies
for Deep Impact and Social Good

Dmitry Kaminskiy

Next-Generation Technology for Improving Government Management and Innovative Technologies for Deep Impact and Social Good

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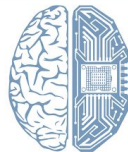
DEEP KNOWLEDGE GROUP

About the Book: Introducing GovTech

PART I.

STATE OF GOVTECH IN THE MODERN WORLD

- *The Evolution From Deep Governance to GovTech*
- *Global GovTech Industry Overview*
- *The Importance of Digital Identity*
- *The Digitalisation of Everything*
- *What is Good Governance in the Age of the 4th and 5th Industrial Revolutions?*
- *Innovation Technologies (AI, Digitalisation, and Blockchain)*

PART II.

GOVERNMENT TECHNOLOGIES

- *Data Science and Big Data Analytics for Real-Time Governance Monitoring, Modelling, and Forecasting*
- *The Present State and Near Future of RegTech*
- *Advanced Cybersecurity and the Protection of Critical Infrastructure*
- *AI and Data Science for Long-Term Scenario Analysis and Optimisation of Government Management*
- *DeepTech Implementation: the Path Towards GovTech 2.0*

PART III.

GOVTECH IMPLEMENTATION

- *GovTech and the Transparency Revolution*
- *Propelling Women Rights in GovTech*
- *GovTech and COVID*
- *Longevity Politics as the New Political Reality of the 21st Century*
- *Investing in GovTech*
- *Major Roadblocks and Challenges in the Practical Application of GovTech*

PART IV.

GOVTECH IMPACT

- *Deep Impact in the Developing World*
- *Repurposing GovTech Technologies to Improve the €2 Trillion Global Charity Industry*
- *Digital, Financial, and Technological Inclusion for All Humanity*

GovTech Trends and Challenges
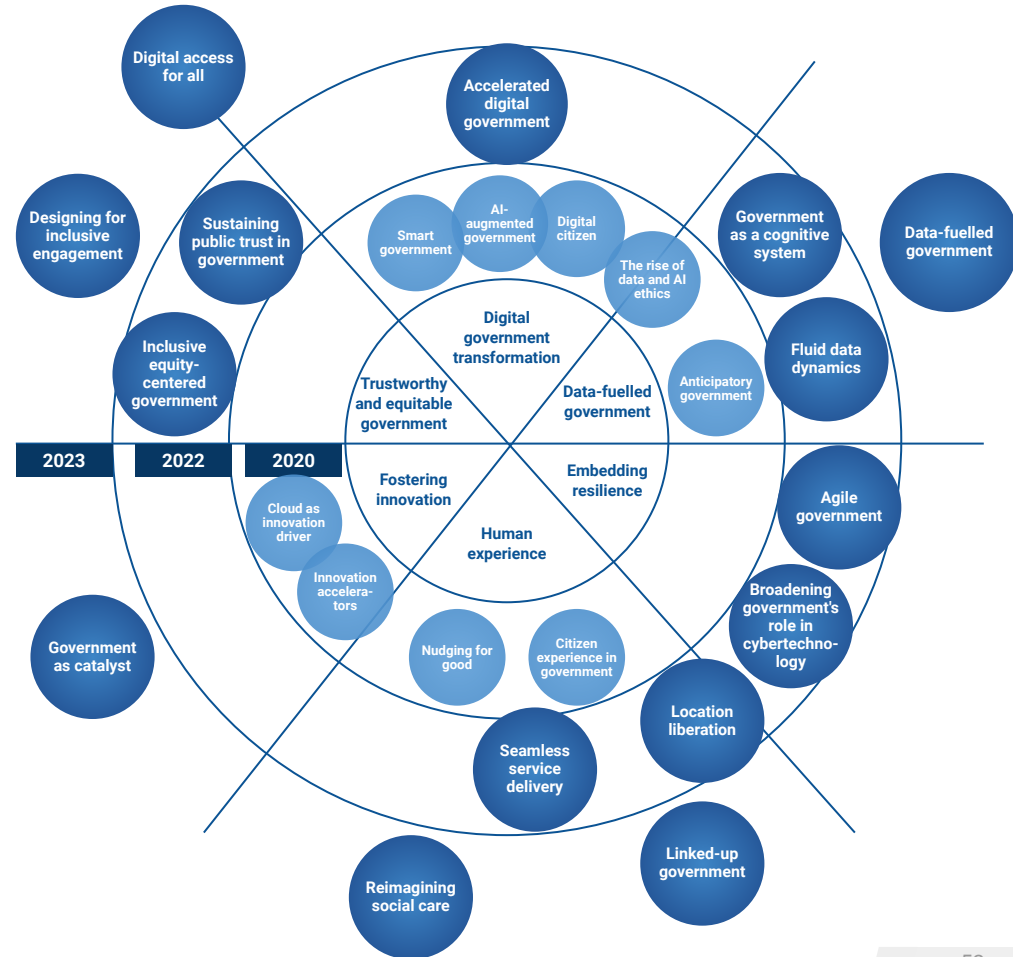
GovTech Analytics

Evolution of Government Trends

Technologies that improve organisations and people's lives are more important than ever before. Forward-thinking governments and organisations understand the technological forces around them and look for ways to harness them for the benefit of citizens and constituents alike.

The pandemic continues to pose unique challenges for governments: a health crisis coupled with massive economic disruption and unprecedented demands for social support.

The Organisation for Economic Co-operation and Development (OECD) has put it this way: 'The biggest lessons of the crisis are that governments will need to respond to future crises quickly and at scale, while maintaining trust and transparency.' Even as the pandemic reluctantly retreats, governments have begun to build for the future.

Trends Shaping GovTech

Technologies that improve organisations and people's lives are more powerful (and more important) than ever before. Forward-thinking governments and organisations understand the technological forces around them and look for ways to harness them for the benefit of citizens and constituents alike..

Some of the latest GovTech trends include:

- The use of Artificial Intelligence to streamline government processes and improve decision-making.
- The development of digital identities that will allow citizens to access government services online using a secure and convenient login.
- The use of advanced cybersecurity to reduce cyber threats.

By harnessing the latest technologies, the government is able to provide better services to citizens, save money, and increase efficiency.

GovTech Trends

- Component State Enterprise
- Complete Experience
- Accelerated Legacy Modernisation
- Data Exchange as a Program
- Intelligence Solutions
- Ecosystems of Digital Identification
- Hyper-automation
- Case Management as a Service
- Everything as a Service
- Adaptive Security

Challenges in Implementing Digital Change

Some 23% of CIOs worldwide identified siloed strategies and decision-making as a high-priority challenge.

While GovTech has the potential to transform the way the government works, there are a number of general challenges that need to be addressed before it can be deployed on a large scale. **One of the biggest challenges is ensuring that data is secure.** GovTech systems often rely on data sharing between different government departments, which means that there is a risk of sensitive information being leaked. Another challenge is getting buy-in from all stakeholders.

Government departments are often resistant to change, so it can be difficult to get everyone on board with a new system. In addition, there is the issue of cost. **GovTech systems can be expensive to develop and implement, so finding the funding to roll them out across the government can be a challenge. Despite these challenges, GovTech has the potential to transform the way the government works, making it more efficient and effective.**

1 Inadequate Capital Budgets

2 Inappropriate Project Management Systems

3 Labour Shortages

4 Weak Understanding and Commitment
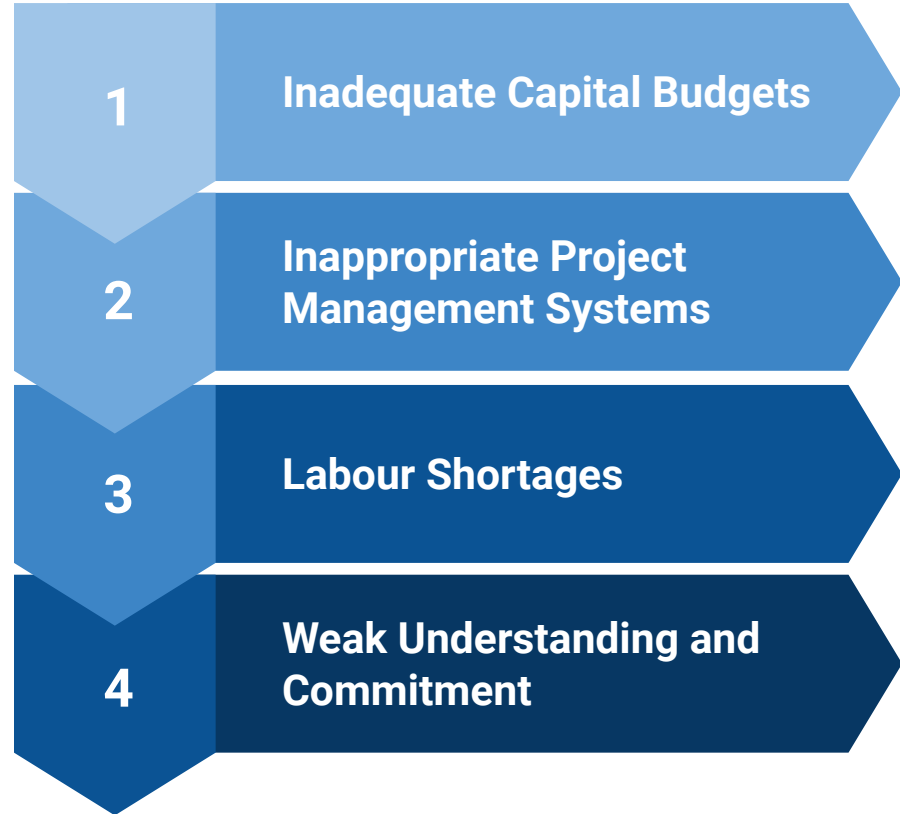
GovTech Challenges

GovTech Challenges

Public Sector

Procurement processes in innovation mechanisms are considered uncertain and risky. Setting them up takes a lot of time, can use too many resources and have an uncertain result. In addition to risk perception, public institutions shy away from participating in public procurement of process innovations because they consider the task itself too difficult and the problem too complex to be able to solve.

Private Sector

Dependence on venture capital is accompanied by the expectation of growth in conditions of limited market space.

A consolidated market space dominated by large system integrators.

Entry barriers: EU procurement standards for digital solutions in the public sector can be difficult to navigate for startups that lack the experience to interpret and implement them.

Sources: Insider Intelligence

Key Findings and Predictions
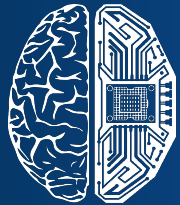
GovTech Analytics

The Future of GovTech: Key Predictions

>> Overall, European countries are improving every year, with an average maturity of digital solutions in public services of 65%.

>> Citizens' expectations are rising as they have grown accustomed to a different kind of user experience and functionality from using consumer-focused apps such as Spotify, Uber, and Google.

>> GovTech companies need more support from public authorities, since they can meet the needs of citizens who demand greater simplicity, speed, and proximity in their administrative procedures.

Top 10 Countries by Longevity Government Development

Legend:
- Society
- Health Status
- Government policy
- Government care
- Economy
- Ecology
- Demography

Countries: Japan, Norway, Denmark, Finland, Switzerland, France, Singapore, Canada, United Kingdom, South Korea
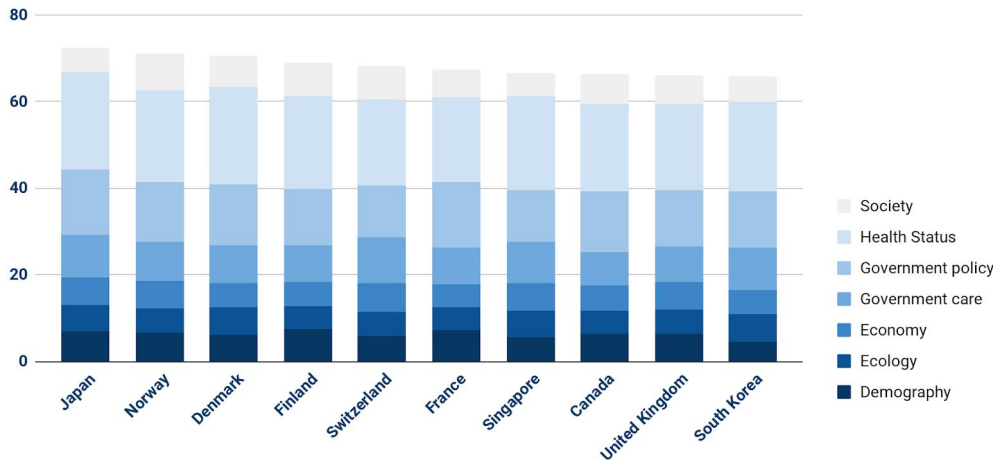
GovTech Market Size Predictions 2021-2024, B

CAGR 27.7%

- 2021: £384.0
- 2022: £520.0
- 2023: £640.0
- 2024: £800.0
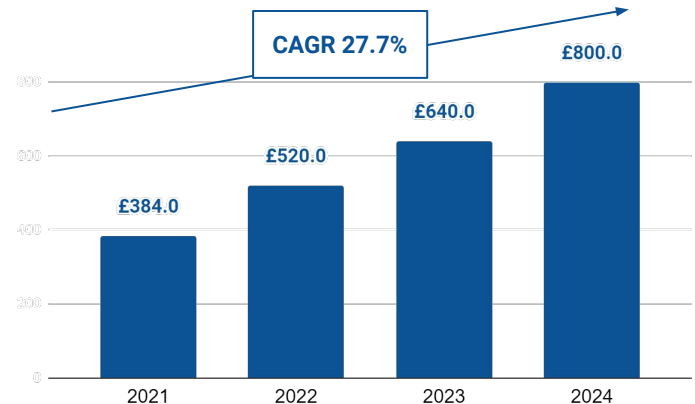
GovTech Maturity Index (GTMI)

The GovTech Maturity Index measures the key aspects of GovTech and represents the most comprehensive measure of digital transformation in the public sector. All 198 economies are grouped from A to D, based on their average GTMI score. Some 43 leading economies (21%) use advanced or innovative digital solutions and demonstrate best practices in all GovTech areas; by contrast, 33 world governments (17%) have little or no focus on the GovTech agenda. Furthermore, 59 economies (30%) have made significant investments in various areas of GovTech, while 63 governments (32%) have ongoing projects to increase maturity.

GTMI

- A
- B
- C
- D
- No Data

Source: World Bank, Deep Knowledge Analytics
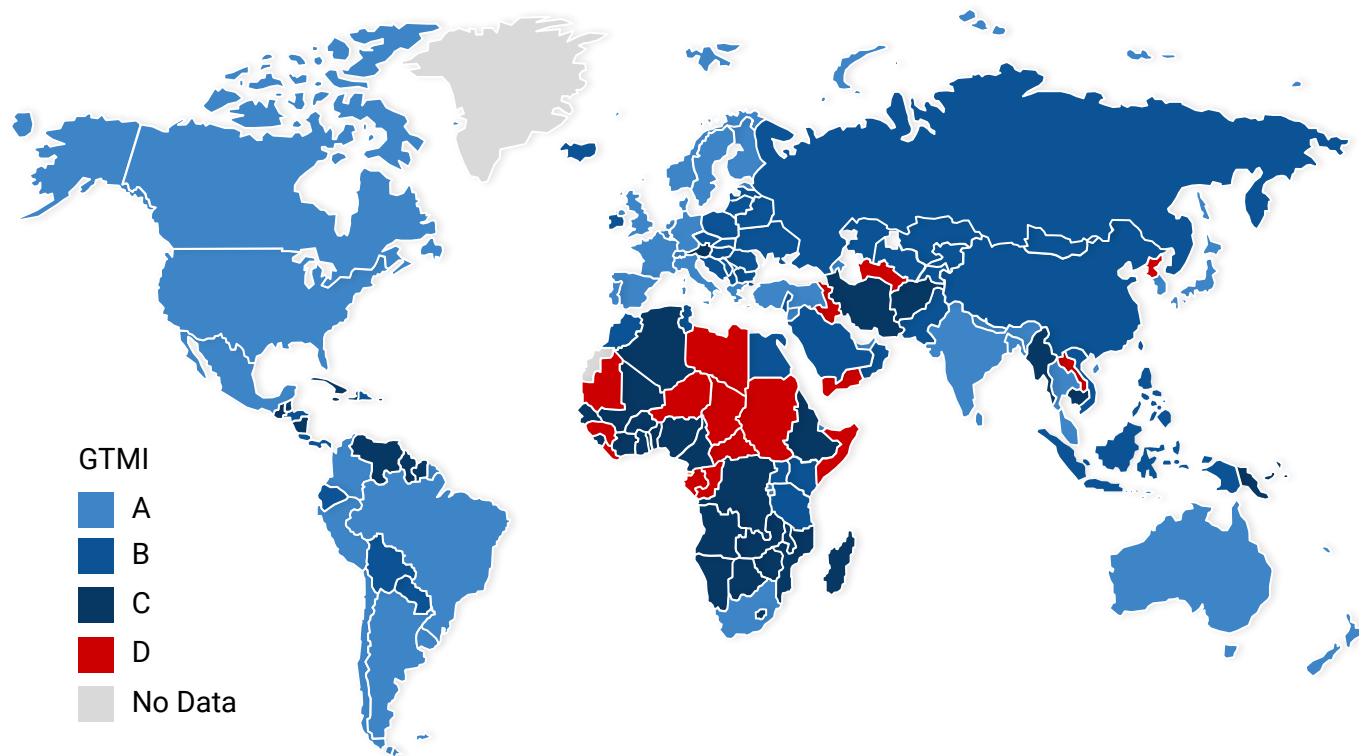
Join Us in Shaping the Future

The Keys to Future Success:

Our partnerships and investments are the keys to future success in the GovTech sector. By joining forces with GovTech Analytics, you gain access to a network of visionaries, innovators, and experts. Together, we navigate the evolving GovTech landscape, capitalize on emerging opportunities, and address challenges with creativity and resilience. With us, you're not just a partner or an investor; you're a catalyst for change, propelling us toward a future where technology and governance unite for the betterment of society.

Join Us in Shaping Change:

If you are a visionary business leader or an investor looking to make a meaningful impact, GovTech Analytics is your ideal partner. Join our transformative journey and be part of a dynamic community shaping the future of the GovTech sector. Together, we can revolutionize public services, enhance accessibility, and empower communities. Let's shape change together and create a legacy of innovation and progress. The future of GovTech starts with your partnership and investment. Join us, and let's redefine the future together.

GovTech Analytics

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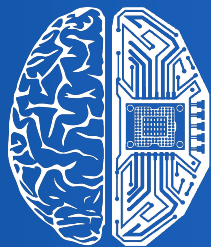
GovTech
Analytics

| E-mail: info@govtech.global | Website: www.govtech.global |

GovTech Analytics