UK Technology Capabilities

GREAT
BRITAIN & NORTHERN IRELAND

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For more information, please get in touch
www.great.gov.uk/international

The UK is GREAT for Tech

#1

UK is #1 destination for start-ups in Europe.

Source: Tech Nation report 2023

#4

Ranked 4th in the Global Innovation Index, the UK continues to lead the way in developing the technologies of the future.

Source: Global Innovation Index 2023

Top 10
Universities

The UK has 6 out of 10 best universities in Europe with The University of Oxford also ranked as number one in the world.

Source: Times Higher Education, 2024

30+
Technology Clusters

All with individual specialisms – examples include:

- Edinburgh (AI, data science)
- Leeds (AI, Fintech)
- Manchester (E-commerce, cyber)
- Sheffield (Edtech)
- Cambridge (Healthtech, AI)
- Bristol (Smart cities, IoT)
- Belfast (cyber, Fintech)

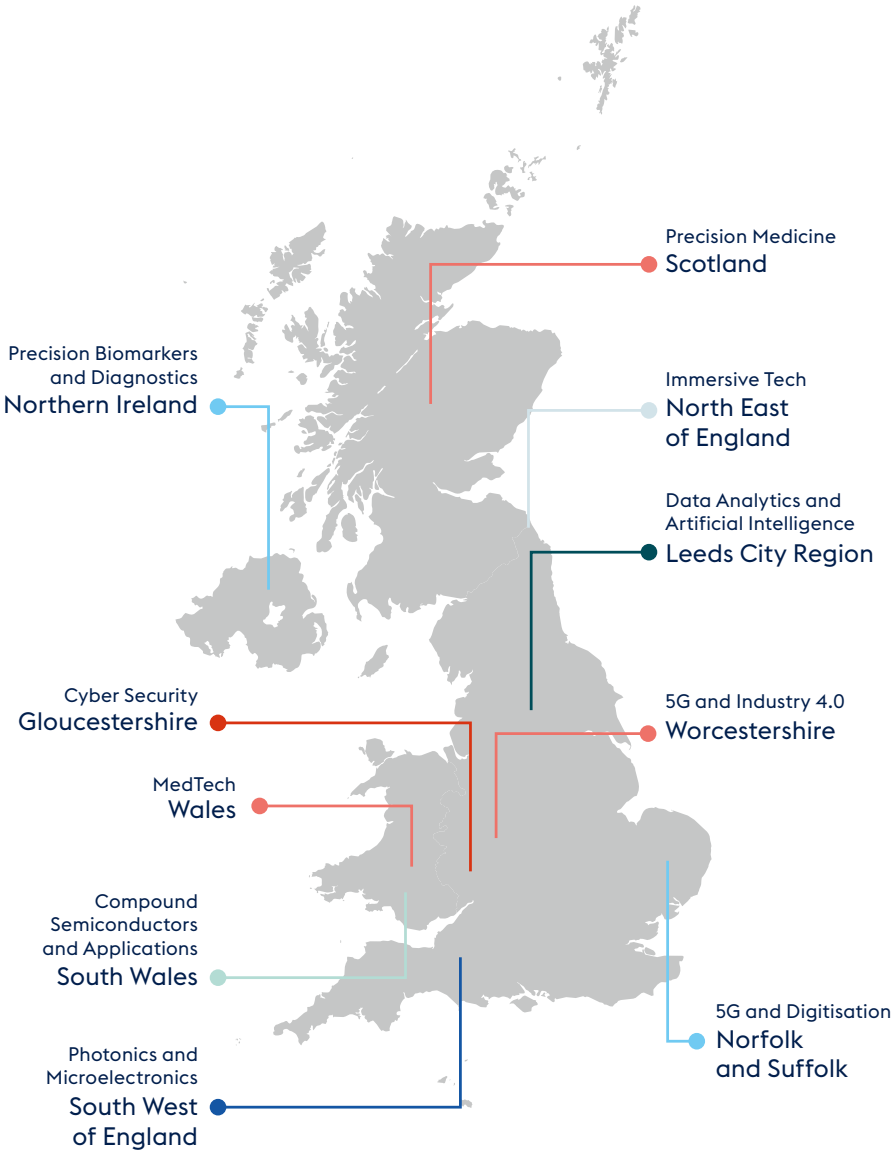
140+
Tech Unicorns

As of the end of May 2023, the UK has over 150 tech unicorns, joining China and the US as the only nations to have produced triple digit unicorns.

The UK has produced more unicorns than Germany, France and Spain combined.

Source: Dealroom

Investment High Potential Opportunities



Immersive Technology in the North East

An opportunity to develop and commercialise immersive technology applications in the North East of England as a launchpad to the UK's £183 billion manufacturing sector's growing demands for capability and productivity enhancing innovations.

Growing demand for immersive tech in the UK's £183 billion* manufacturing sector.

- Successful and long established North East England manufacturing sector actively seeking immersive technology applications
- Dedicated emerging and immersive technology R&D facilities providing access to specialist kit
- Extensive immersive technology support system to facilitate connections and collaborations
- Specialised courses in local colleges and universities providing pipeline of skilled developers
- An established cluster of immersive tech and gaming businesses

Immersive solutions: work alongside the substantial North East manufacturing and digital community to design, develop and sell 'fit-for-purpose' immersive technology content and software for training, product design, and maintenance, repair and operations (MRO).

The region boasts a strong and innovative manufacturing base, offering significant opportunities to develop immersive technology products and services to meet growing regional, national and global demand.

This unique combination along with the region's world leading facilities, academic expertise and skills initiatives as well as unrivalled support networks means the North East is best placed for digital and tech companies to locate and expand.

Facilities

PROTO

The first dedicated emerging technologies centre in Europe offering unique R&D space with specialist kit for digital content creation, including a 3D character capture rig, motion capture studio and sound recording suite. The facilities offer local tech companies very cost effective access to kit, studio space and local expertise to create new immersive experiences and allow for manufacturers to test as/when required. No other location in the UK offers such access.

Digital Catapult North East and Tees Valley (NETV) Immersive Lab

Housed within PROTO, the lab provides access to immersive tech hardware for demonstration and testing purposes.

Immersive Incubation Hub

offers workspace and a dedicated support programme for early stage immersive tech companies.

Immex City Programme

The programme will bring new virtual production capabilities to PROTO, enabling hands on research, training and skills development opportunities for the creative sector.

"The Digital Catapult Centre NETV has shown us what is possible in the North East by exposing innovative and exciting companies. In a single day we found four companies that we will be working with in the future, who fit the gaps in our expertise we didn't know we had!"

Richard Ramsden – Head of Data Science: Innovation Incubator, AkzoNobel, Gateshead

* Source: ONS – advanced manufacturing GVA, 2022

Cyber Security in Gloucestershire

A unique opportunity exists to profit from a well established cyber security cluster in Gloucestershire, taking advantage of digital assurance and accreditation to provide cyber security solutions in industries such as Finance, Healthcare, Mobility, Telecoms, Legal, Energy, Critical Infrastructure and Agri-tech.

Gloucestershire, just 2 hours from London, is a leading UK destination for cyber-tech businesses. The county is home to GCHQ and the core teams of the National Cyber Security Centre (NCSC), along with a well-established cyber cluster of over 130 firms.

Despite this strong foundation, the supply chain still requires new innovators to meet the threats of the future. Base yourself in Gloucestershire and provide cyber security solutions across a range of industries such as Finance, Healthcare, Mobility, Telecoms, Legal, Energy, Critical Infrastructure and Agri-tech. Priority solutions required include:

- Cyber professional services
- Endpoint and mobile security
- Identification, authentication and access controls
- Incident response and management
- Information risk assessment and management
- Internet of Things (IoT Security)
- Supervisory control and data acquisition (SCADA) and Information Control Systems
- Threat intelligence, monitoring, detection and analysis

Gloucestershire has the credibility, capability and capacity to support companies in their quest to produce world beating cyber security products and services. Tap into the local expertise and a strong research base to get new products and services developed, tested and launched. The region's Universities are recognised by the NCSC as Academic Centres of Excellence in Cyber Security.

The region pioneered the national 'CyberFirst for schools' initiative and has the highest accredited number of such schools in the country. To support you, over 11,000 people are employed in the local digital tech sector with an active industry body called CyNam.

Various cyber-focussed innovation centres are available now and in the short and medium term including Hub 8 in Cheltenham, C11 in Berkeley, Minster Exchange in Cheltenham, The Forum in Gloucester and Hatherley Place in Cheltenham.

Opportunities exist to expand into the Golden Valley development in Cheltenham from 2025 – the country's only dedicated cyber campus including 2 million sq. ft of office space and the National Cyber Innovation Centre. The county's strategic position offers good accessibility to a strong talent pool and a range of customers and suppliers.

CyNam is the regional Cyber Cluster driving the growth of the cyber ecosystem in Cheltenham and across Gloucestershire by providing a platform for innovation, collaboration and knowledge exchange.

5G and Digitisation in Norfolk and Suffolk

Immerse yourself in a thriving 5G sector by investing in Norfolk and Suffolk: work alongside a strong network of leading peers to experiment with, collaborate on and conceptualise network-enabled technologies, capabilities and future infrastructure applications.

The 5G and digitisation opportunity in the UK is estimated to grow to £159 billion* by 2035.

5G is being rolled out across the UK. This will enable £13.1 trillion** of global economic output by 2035. By setting up in Norfolk and Suffolk, you can be at the cutting edge of this new technology, giving you a platform to expand your UK and global reach. Government and industry commitments present a clear pipeline of opportunities in Norfolk and Suffolk.

The UK Government is supporting the industry to develop and roll out new 5G networks, applications and services for both domestic and global markets.

Norfolk and Suffolk have all the necessary technical and vocational skills you need, with a clear pipeline of talent. The highly skilled, local workforce has already played a major role in attracting new technology investment and the region has the skills and capabilities you need to succeed in 5G and Digitisation.

Norfolk and Suffolk are a national leader in 5G and future network infrastructure. Opportunities lie in cyber security, satellites, AI, quantum technology, software development and digital health.

The 5G and network infrastructure base requires innovative solutions to address system vulnerabilities. The rapid rise in disruptive technology presents an opportunity to design and develop future solutions to tackle these issues.

The Government has a firm commitment to make the UK a global centre for AI and data-driven innovation by investing in R&D, skills and regulatory innovation. The UK Digital Strategy aims to build world-class digital infrastructure, provide digital skills needed for business, unlock the power of data in the UK economy, and make the UK the world's safest place to work digitally.

Seamless access and connectivity

London

- Rail access in just over 1 hour
- Road access in 1 hour 30 minutes
- 130 international destinations reached via London Stansted Airport

Port of Felixstowe UK's biggest and busiest container port

- 10 minutes from Adastral Park, Suffolk

* Source: UK Wireless Infrastructure Strategy, April 2023
** Source: The 5G Economy in a Post-Covid Era, Nov 2020

5G and Industry 4.0 in Worcestershire

Access the Worcestershire 5G test bed to develop and commercialise your 5G enabled Industry 4.0 applications and use this as a platform for growing sales into the UK and Europe's largest manufacturing bases.

The UK Government is actively supporting 5G testbeds across the UK, and Worcestershire was chosen as the testbed for industrial focussed technologies.

In 2019, it launched the UK's first 5G factory trial, in collaboration with Bosch. As a result of this trial, the emerging 5G capabilities in the area will provide a unique opportunity for companies looking to develop and commercialise their Industry 4.0 technologies.

Furthermore, Worcestershire is a leading centre for UK advanced manufacturing and a key future market for industrial tech. It has strengths in automotive and aerospace, matched with close proximity to cybersecurity clusters and innovation centres.

Home to a quarter of the UK's aerospace industry and leading automotive players such as JLR, BMW and Aston Martin, the area provides opportunities to sell innovative solutions to a significant customer base on your doorstep.

Worcestershire has many large industry clusters in varying stages of technology advancement eager to adopt new Industry 4.0 solutions, which makes it an the ideal location for selling your Industry 4.0 technologies.

Worcestershire offers companies the opportunity to access 5G networks to drive development of their Industry 4.0 products, which they can then sell to a leading manufacturing base.

The region provides a unique ecosystem for investors to develop 'first to market' Industry 4.0 solutions. It hosted the UK's first industrial focused 5G testbed in 2019, offering the potential to partner with leading infrastructure providers such as BT, and world-leading manufacturing firms.

While Industry 4.0 technology is in high demand, issues around data security persist which provides opportunities for specialist investors in data and cyber security across the supply chain. Worcestershire provides the opportunity to test 5G network security in real-life environments, in close proximity to end users, ensuring they are appealing and fit for purpose before going to market.

Precision Biomarkers and Diagnostics in Northern Ireland

Precision medicine is the new generation of healthcare, with biomarkers and diagnostics essential for patient stratification, diagnosis and treatment. The UK government is supporting the Life Sciences sector with millions of committed investment in genomic medicine, early diagnosis and detection and digital pathology discovery and precision diagnostics.

Northern Ireland is recognised by the UK government as a region which excels in diagnostics, making the region an excellent location for biomarker discovery and precision diagnostics; offering a uniquely agile environment to develop, test, validate and commercialise advanced biomarker assays and precision diagnostics solutions for a global market.

Northern Ireland is home to a uniquely interconnected life sciences environment: linking scientific research to clinical outcomes to accelerate each stage of the development life cycle, meaning diagnostic results and treatment research can be commercialised faster.

Northern Ireland is renowned for world leading diagnostics methods with two of the UK's largest diagnostic companies; Randox and Almac exporting to over 140 countries globally. A real opportunity exists for companies to partner and or co-locate with the eco-system of organisations needed to develop, test, validate and commercialise advanced biomarkers and diagnostics for precision medicine applications.

Companies located in Northern Ireland can access a fully integrated health and social care system benefiting from a stable population of 2 million for clinical trial recruitment. There is also easy access to a network of research centres of excellence with niche areas of expertise in new biomarker identification processes and innovative assay development.

Companies can tap into this expertise, renowned research labs and university research in the field to develop and validate their digital and companion diagnostics.

The UK and Northern Ireland are committed to cementing their reputation as a prime location for life and health sciences, backing the Northern Irish landscape with significant investment and regional deals for global competitiveness. The Belfast Region City Deal will unlock £1 billion of transformative co-investment to deliver 20 projects and programmes with £150 million earmarked for Life and Health Sciences across the region.

Easy access to the NHS and dual UK-EU market access for medical devices, following the EU Directives.

Compound Semiconductors and Applications in South Wales

South Wales is a world leader in compound semiconductors and a unique opportunity exists to design, manufacture and commercialise emerging compound semiconductor technologies, providing disruptive solutions across a range of applications in key global sectors.

Compound semiconductors are a technology with growing global demand and will play a significant role in new and emerging technologies across multiple sectors such as transport, communication, clean energy, security and defence, healthcare and emerging areas.

South Wales offers investors an end-to-end opportunity to meet this sector demand for advanced, reliable technology in one location.

Driven by collaboration, in a region where the whole ecosystem combines to break down barriers to market, this unique offer provides expertise across technology development from research, innovation and design through to full scale manufacturing including wafer production, chip processing, packaging services and manufacturing equipment provision.

There are many opportunities to drive product development forward by exploiting key manufacturing research facilities at the Future Compound Semiconductor Manufacturing Hub and the Compound Semiconductor Applications Catapult.

Wales has over 30 years of experience in the compound semiconductor sector and has built a strong community of experts across related technology fields, including smartphones, facial recognition, radio frequency comms, medtech and wearable devices.

The Welsh Government also recognises the need to embed skills development into everyday business practice and have tailored programmes available, designed by the compound semiconductor industry.

The sector is also being support by the Cardiff Capital Region which can support with tailored investment solutions, skills and recruitment.

South Wales has a diverse range of business organisations and industry support groups to which introductions can be made, some with preferential rates and unique packages for businesses.

Access the capability and know-how to improve your semiconductor system performance including innovation and design, chip architecture device applications and packaging.

Data Analytics and Artificial Intelligence in Leeds City Region

Access a dynamic data analytics and Artificial Intelligence (AI) cluster in Leeds City Region and immerse yourself in a welcoming ecosystem of innovation.

The UK has seen huge expansion in AI over the last decade with a National Data Strategy aiming to leverage existing UK strengths to boost the better use of data across businesses, government, civil society and individuals.

From early-stage start ups to large organisations, in Leeds City Region you'll find the skills, support and collaboration opportunities you need to scale up, operate and develop your data analytic and AI operations to meet national and international demand.

Leeds City Region's expertise attracts world-leading companies and organisations across numerous sectors who want to conduct data analytics operations. From financial services to gaming, healthcare to advanced manufacturing, the region has the experience and skill to support your business in a wide variety of sectors.

- Collaborate with the region's pioneering innovators and connect with leading experts in deriving value from data such as Open Innovations (formerly ODI Leeds) and Data Mill North.
- Leeds is ranked as the top location for scaleups outside London and home to our out of five NHS national offices including NHS England and NHS Digital. The region is home to a thriving data science cluster that spans multiple sectors.
- Take advantage of the region's expertise, home to world-leading centres of excellence like the Leeds Institute of Data Analytics (LIDA) and the Centre for Immersive Technologies.
- Gain direct access to a highly-skilled talent pool: the region's nine universities offer courses in relevant AI and data analytics subjects.

Leeds City Region

Leeds City Region is the UK's second largest financial centre, home to the Centre for Financial Technology & Innovation at the University of Leeds, the UK Infrastructure Bank, the Bank of England's northern hub and the Financial Conduct Authority. FinTech is a key sector strength, and the region was recognised in the Kalifa Review 2021 as a cluster of internationally significant activity.

Precision Medicine in Scotland

Precision Medicine is a new generation of healthcare delivery which signifies a movement away from a one-size-fits-all approach to medical care, tailoring medical diagnosis and treatment to individual characteristics of patients. Companies can capitalise on Scotland's key strengths in the sector to launch their precision medicine application in the UK, Europe and globally.

One of the largest life sciences clusters in Europe, Scotland is the home of world leading research and invention in human healthcare. Exploit a unique opportunity to design, develop, validate and implement precision medicine applications in an integrated healthcare environment for commercialisation to a global market. Access Scotland's' extensive patient data and design, develop, validate and implement targeted therapeutics; biomarkers, companion diagnostics and diagnostic imaging; and cross-platform technology.

Scotland has a well-established ecosystem for precision medicine, centred around the Scottish Government's investment in the Precision Medicine Scotland Innovation Centre and the Queen Elizabeth University Hospital. The combination of world-class clinical research, high quality electronic health data, patient samples, NHS Scotland, and large cohorts of patients with chronic disease differentiates Scotland from many other countries. As a result, companies based in Scotland can:

Design and formulate through extensive data access – combine access to national biological samples databases and unique electronic health records, some of the most extensive longitudinal datasets in the world, with world-class academic and clinical research.

Develop in collaboration with key academic and industry partners – collaborate with academia and industry through three dedicated Centres of Excellence: The Living Laboratory for Precision Medicine, Precision Medicine Scotland Innovation Centre and the Industrial Centre for Artificial Intelligence in Digital Diagnostics (iCAIRD) – housed at the £1 billion Queen Elizabeth University Hospital campus.

Validate within a clinical research and trial setting – access a fully connected network delivering a single clinical research ecosystem embedded in the NHS, with a high number of trials compared to other countries – eight of top ten global CRO's located in Scotland.

Implement into a real world setting through NHS Scotland – gain real world application through collaboration with NHS Scotland's clinical expertise from inception. The Living Laboratory for Precision Medicine brings together academia, industry and NHS with a focus on validation and real world implementation of precision medicine innovations into healthcare. The Precision Medicine Scotland Innovation Centre (PMS-IC) links Scotland's expertise, data assets and delivery infrastructure to accelerate real world adoption of precision medicine.

Discover Scotland's well established ecosystem for Precision Medicine, recognised as a regional strength by the Department for Business Energy and Industrial Strategy's Audit reports.

Photonics and Microelectronics in the South West of England

Take advantage of the South West's world-class capabilities in photonics and microelectronics to integrate connected sensors and systems for connected and autonomous vehicles across land, sea and air.

The global Light Detection and Ranging (LiDAR) market is projected to grow from $1.4 billion in 2023 to $3.7 billion* by 2028.

The South West has the capabilities and expertise in photonics and microelectronics to ensure you are well placed to take advantage of this multibillion pound global opportunity.

Companies in the region have world-class experience supplying the aerospace, marine and nuclear sectors with low cost remote sensors optimised for long life and durability.

The South West presents an unrivalled combination of experience in the manufacture, design and testing of high reliability photonics components and systems; strength and depth in all terrestrial communications technologies; and experienced harsh environment and high durability photonic and microelectronic design engineers.

There is a huge potential global demand for on-vehicle hardware and software components including cameras and LiDAR.

The South West's local supply chain is poised to play a leading role in the development of CAV technologies.

With its position at the heart of the south coast marine cluster, the South West is well positioned to supply the sensors and sensor systems needed by the £107 billion global autonomous shipping industry.

The South West is part of the most capable and diverse aerospace cluster in the UK with the top 15 tier 1 companies all operating in the region. These companies have the capability and expertise to deliver solutions for robust and harsh environments required by the unmanned aerospace sector.

Work alongside the South West's world-leading cluster for robust, resilient and reliable photonics and microelectronics technologies to integrate sensors and sensor systems.

* Source not found, but likely a global markets report from 2017 that has been removed

MedTech in Wales

Wales is home to a vibrant MedTech sector with competitive strengths in enabling technologies underpinning digital innovation in healthcare. Investors and innovators can engage with a collaborative ecosystem with clinical, digital and research expertise to develop and commercialise new medical technology and healthcare solutions.

By mid-century, one in six people globally will be aged 65 years or older. These pressing changes to our demographics, and a new wave of interest in improving healthcare post-COVID-19, present a significant opportunity to develop technologies that will advance value-based healthcare through early detection of life-limiting illnesses, monitoring of diseases.

Wales is the ideal location to take advantage of this. Find competitive strengths in enabling technologies underpinning digital innovation in healthcare, namely big data analytics, imaging, cyber security and Artificial Intelligence (AI).

Wales' devolved National Health Service is committed to supporting innovative technologies and therapies to reduce costs, improve patient outcomes and create a healthier, age friendly nation for future generations through sustainable wellbeing and preventative care. Innovators can access specific commercial opportunities to develop and commercialise new and disruptive healthcare technologies, tapping into a £430 billion global MedTech market.

Engage with a vibrant and collaborative research environment with a dedicated life sciences hub, the NHS, industry, academic institutions and government developing innovative MedTech solutions. Innovators can access specific support for new healthcare technology and world class research facilities for conditions such as oncology, chronic illnesses, dementia and wound healing and tissue repair. Work with Digital Health and Care Wales to understand population needs, to develop and trial new technologies, and collaborate with Genomics Partnership Wales to harness the potential of genomics to improve health.

Wales has excellent expertise in the technology and enabling digital skills that underpin MedTech, giving it credence through the Welsh NHS, University Health Boards, its large supply chain, scale up capabilities and academic centres of excellence.

Benefit from access to its stable population and generations of data on chronic conditions. Wales is home to rural and urban populations, where you can trial your products and services on a range of population demographics. Access anonymised health data for 3 million population through the likes of SAIL Databank.

Find cross sectoral strengths across digital, health and manufacturing. Accelerate your medical device development by working alongside the Centre for Nanohealth, with the Centre for Photonics Expertise (CPE). Supercomputing Wales, the national supercomputing centre of excellence, also allows access to powerful computing facilities. Further opportunities exist to collaborate with the Compound Semiconductor cluster (CSConnected) for research and innovation.

UK Research and Development

Launched in April 2018, UK Research and Innovation (UKRI) is a non-departmental public body sponsored by the Department for Science, Innovation and Technology (DSIT).

UK Research and Innovation's (UKRI) aim is to deliver economic, social and cultural benefits from research and innovation to all UK citizens across the UK.

UK Research and Innovation brings together the seven Research Councils, Innovate UK and Research England

Arts and humanities Research Council
AHRC funds outstanding original research across the whole range of the arts and humanities.

Biotechnology and Biological Sciences Research Council
BBSRC invests to push back the frontiers of biology and deliver a healthy, prosperous and sustainable future.

Economic and Social Research Council
ESRC is the UK's largest funder of economic, social, behavioural and human data science.

Engineering and Physical Sciences Research Council
EPSRC creates knowledge in engineering and physical sciences for UK capability to benefit society and the economy.

Innovate UK
Innovate UK is the UK's national innovation agency supporting business-led innovation in all sectors, technologies and UK regions.

Medical Research Council
MRC funds research at the forefront of science to prevent illness, develop theories and improve human health.

Natural Environment Research Council
NERC is the driving force investment in environmental science.

Research England
Research England funds and engages with English higher education providers, to create and sustain the conditions for a healthy and dynamic research and knowledge exchange system in the higher education system.

Science and Technologies Facilities Council
STFC supports research in astronomy, physics, space science and operates world-class research facilities for the UK.

Innovate UK is the UK's national innovation agency. Supporting business-led innovation in all sectors, technologies and UK regions. Helping businesses grow through the development and commercialisation of new products, processes, and services, supported by an outstanding innovation ecosystem that is agile, inclusive, and easy to navigate.

STFC's mission is to deliver world-leading national and international research and innovation capabilities and, through those, discover the secrets of the Universe. Their major research and innovation campuses at Harwell, Daresbury and research facilities across the UK and overseas support fundamental research in astronomy, physics, computational science and space science.

UKRI Funding and Programmes

Investing in Research and Innovation
The UK Research and Innovation (UKRI) Challenge Fund addresses the big societal challenges being faced by UK businesses today.

23 challenges – four themes:

- clean growth
- ageing society
- future of mobility
- artificial intelligence and data economy

The Strategic Priorities Fund is an £830 million investment in multidisciplinary and interdisciplinary research across 34 themes.

The International Science Partnerships Fund (ISPF) supports collaborations between UK researchers and innovators and their peers from around the world.

Horizon Europe is an EU research and innovation programme. The UK agreed a deal to associate to Horizon Europe in September 2023.

The Euratom Research and Training Programme is a complementary funding programme to Horizon Europe which covers nuclear research and innovation.

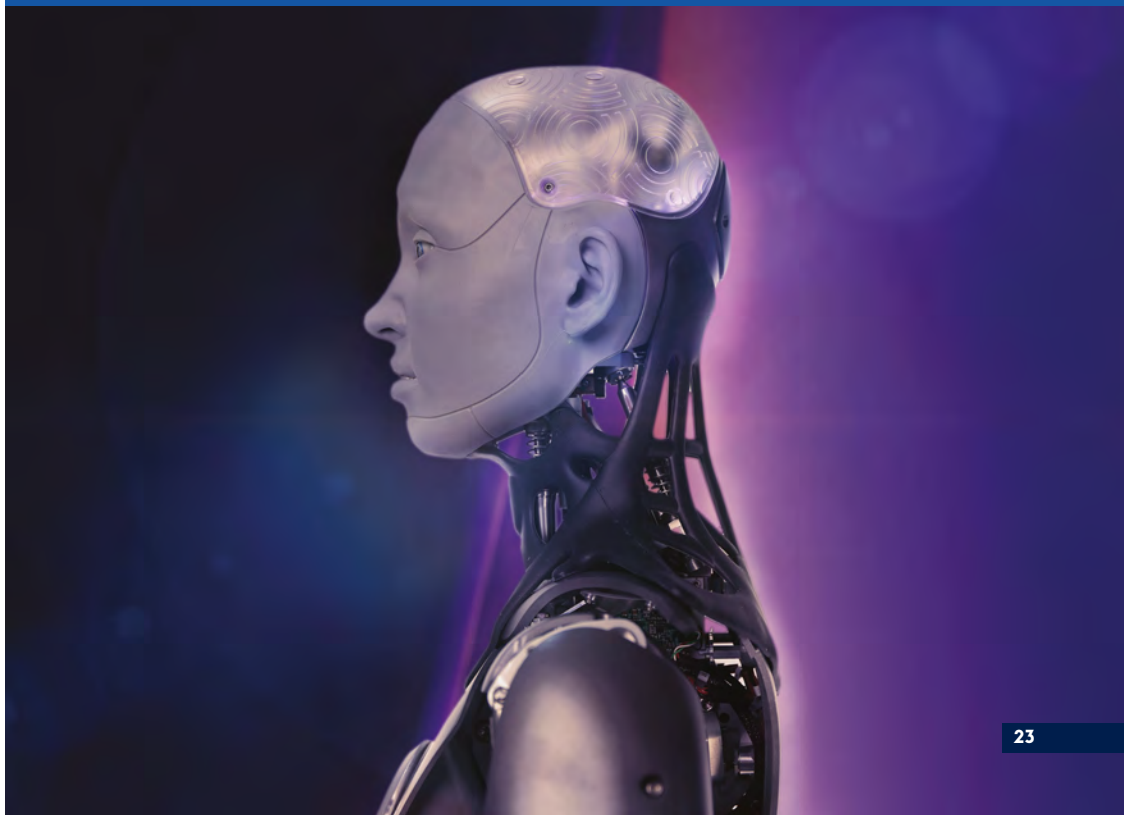
International offices
Through our offices in China, India, North America and Europe, UKRI deepens partnerships and facilitates innovation and research collaborations.

Innovation across the UK nations and regions

Northern Powerhouse (NPH): Covering 11 Northern Local Enterprise Partnerships (LEP) areas as well as North Wales. The UK Government has invested in transport infrastructure to improve connectivity, worked with local areas to raise education and skills levels. The Northern Powerhouse is recognised as an excellent opportunity for trade and investment.

Midlands Engine: Partnership spanning from the Lincolnshire coast to the Welsh border. It focuses on green growth, transport, digital and health. The Midlands Engine has large investment portfolios including 5G technology in Worcestershire and 'Cyber Valley' a Herefordshire, Worcestershire and Malvern networking community.

Nations: Scotland specialises in photonics technology, Northern Ireland in cyber and South Wales in semiconductors. These are all key clusters with infrastructure, university specialisms and a tailored focus on key technologies.



Adastral Park

Adastral Park is BT's global engineering HQ and has been at the centre of breakthroughs in technology for more than forty years and continues to be at the cutting edge of future innovations today.

What is it?

- A cluster of high-tech telecommunication and technology companies
- The park combines a national operation centre, test facilities and a global R&D unit
- Community of collaborative technological innovation

Where?

- Suffolk, Adastral Park is at the heart of the UK's digital ecosystem

Companies located at Adastral Park

- BT's innovation labs
- Innovation Martlesham (a cluster of circa 150 companies)
- Educational initiatives such as the Tommy Flower Institute. This aims to create world class research leaders for the digital business community in the UK

4,000
park residents

150+
high-tech companies

60,000+
visitors per year

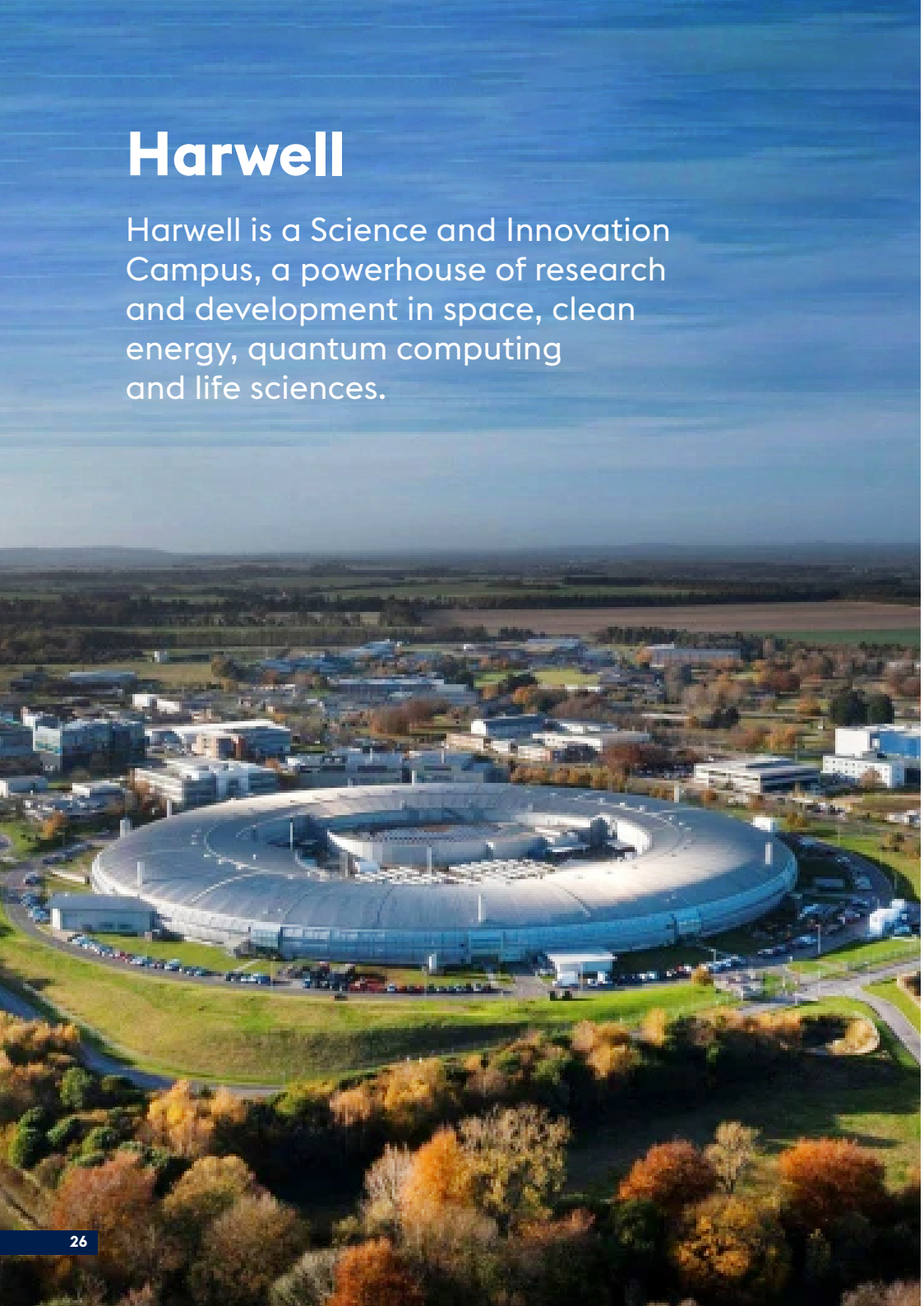
1,100
VIPs hosted annually

8,000+
students and teachers engaged in '2019/20

£750m
contribution to the region's economy

Harwell

Harwell is a Science and Innovation Campus, a powerhouse of research and development in space, clean energy, quantum computing and life sciences.



What is it?

- A unique collaboration between government, academia and industry working to accelerate progress on the key issues of our time
- Experts pioneering advances in Energy, Space, Health and Quantum Computing
- STFC provides world class scientific facilities at the Rutherford Appleton Laboratory
- Part of the Advanced Research Clusters (ARC) network

Where?

- Oxfordshire, Harwell is a science and innovation campus across 700 acres

National Science Facilities at Harwell

- Central Laser Facility (CLF)
- Diamond Light Source
- Extreme Photonics Applications Centre (EPAC)
- Telecommunications centre (ECSAT)
- The Faraday Institute
- ISSI Neutron nd Muon Source
- Mary Lyon Centre at MRC Harwell
- Nucleic Acid Therapy Accelerator (NATA)
- National Quantum Computing Centre (NQCC)
- Research Complex at Harwell
- RAL Space
- The Rosalind Franklin Institute (RFI)
- Satellite Applications Catapult (SAC)
- The UK Health Security Agency (UKHSA)

Harwell at a glance

6,000
scientists, engineers and innovators

200+
organisations on site

£3bn
of scientific infrastructure

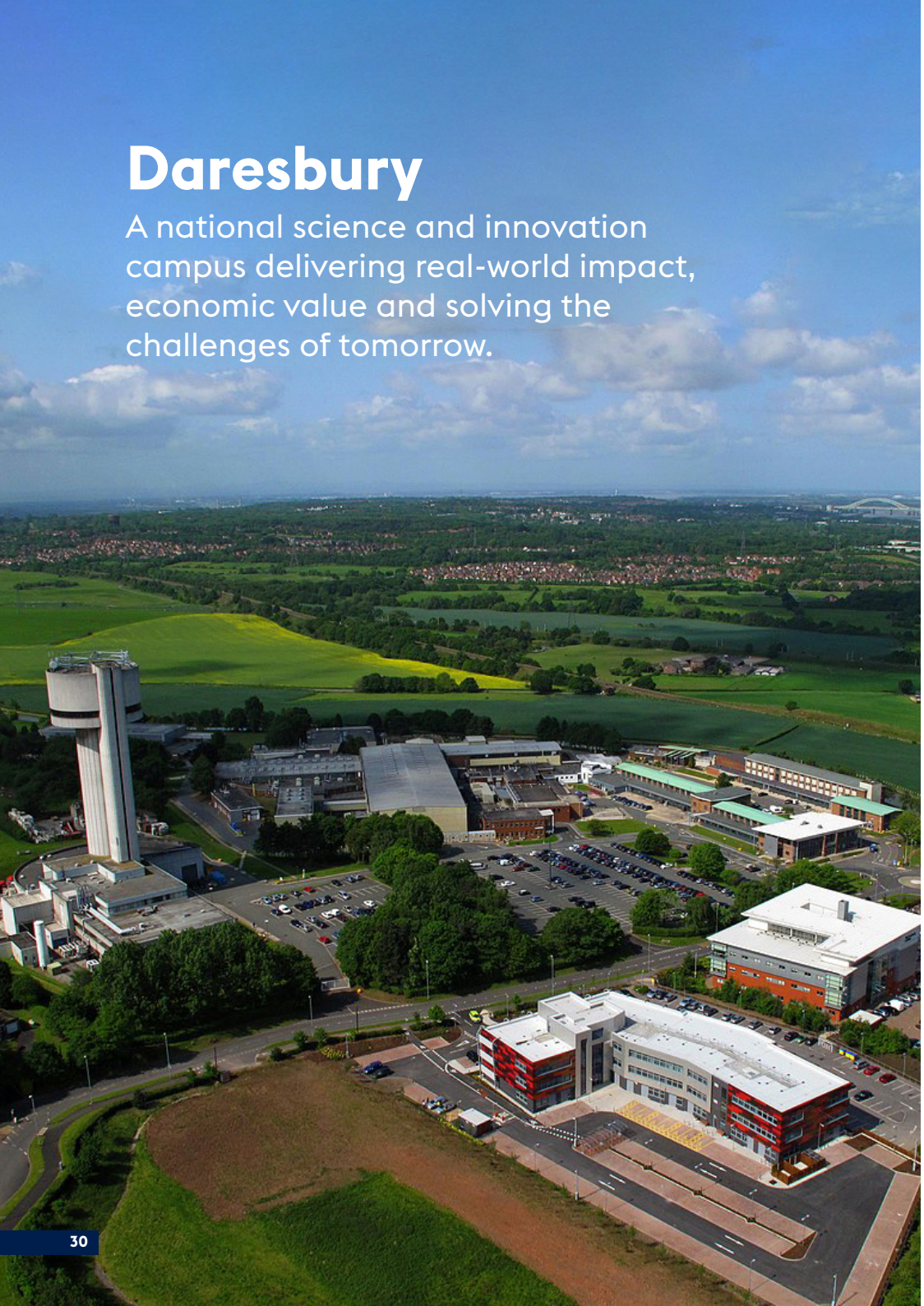
1,100
VIPs hosted annually

120
start-ups and scale-ups

3
campus funding programmes

7
dedicated spaces on campus for smaller companies

Teams from over
30
UK universities



Daresbury

A national science and innovation campus delivering real-world impact, economic value and solving the challenges of tomorrow.

What is it?

- Sci-Tech Daresbury, internationally recognised for world-class science, innovation and enterprise
- Home to STFC's Daresbury Laboratory. Home to three noble prizes, scientists and engineers from academia and industry
- Clusters on campus, North West Space Cluster, Digital Tech Cluster and North West Health Cluster

Where?

- Cheshire, a national science and innovation campus located between Liverpool and Manchester.

Business Incubation Programmes at Sci-Tech Daresbury

- ESA Business Incubation Centre United Kingdom (ESA BIC UK), managed by STFC on behalf of ESA
- CERN business incubation centre run by STFC on behalf of CERN
- Digital Business Incubation Centre (Digital BIC) In collaboration with the STFC Hartree Centre at Daresbury Laboratory
- The Future Club programme provides a range of technical and business support to innovative science and technology start-ups

Science and Technology Facilities Council (STFC) science facilities at Daresbury

- **STFC's Daresbury Laboratory.** Home to three noble prizes, scientists and engineers from academia and industry
- **STFC'S The Hartree Centre** Backed by UK government funding and strategic partnerships with industry giants such as IBM, Atos and the University of Liverpool, they help UK businesses of any size to explore and adopt supercomputing, data analytics and artificial intelligence (AI) technologies
- **STFC'S ASTEC** A centre of excellence for all aspects of the science and technology of charged particle accelerators
- **STFC Scientific Computing** An international centre of excellence for STEM supercomputing and AI, software development, visualisation and simulation
- **The Cockcroft Institute** A collaboration between STFC and the universities of Lancaster, Liverpool, Manchester and Strathclyde, scientists at the Cockcroft Institute apply the world leading skills in the underpinning technologies of accelerator science to solve industry challenges.

Daresbury at a glance

4,000 park residents	**150+** high-tech companies
60,000+ visitors per year	**1,100** VIPs hosted annually
8,000+ students and teachers engaged in '2019/20	**£750m** contribution to the region's economy

UK Catapults

The Catapult Network supports businesses in transforming great ideas into valuable products and services. They are a network of world-leading technology and innovation centres established by Innovate UK. They deliver impact across the UK economy, enabling businesses to thrive in global markets.

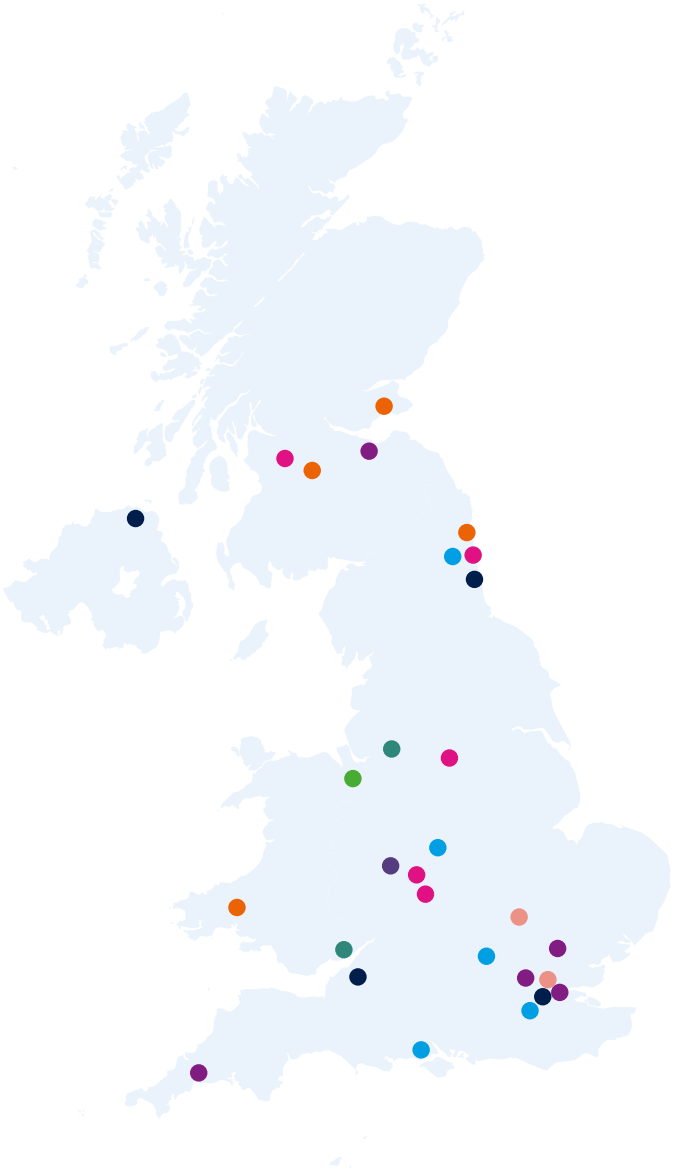
Catapults bridge the gap between innovative businesses and the research communities, taking an active role in removing industry-wide barriers to innovation and commercialisation.

They manage innovation risks through the provision of R&D infrastructure, specialist knowledge and expertise, partnership and collaboration building capabilities, and business support. The Network is comprised of nine Catapults with a national presence spanning over 50 locations.

They are:

- Digital
- Energy Systems
- Satellite Applications
- Cell and Gene Therapy
- Offshore Renewable Energy
- Connected Places
- High Value Manufacturing
- Medicines Discovery
- Compound Semiconductor Applications

Map of UK catapults



Digital

Digital Catapult drives the early adoption of advanced digital technologies to make UK businesses more competitive and to grow the UK economy.

Located in London, Belfast, Bristol and Sunderland.

Energy Systems

Energy Systems Catapult accelerates the transformation of the UK's energy systems, identifying priorities and market barriers for decarbonisation.

Located in Birmingham.

Satellite Applications

Satellite Applications Catapult fosters the growth of satellite applications through the exploitation of space.

Located in Didcot, County Durham, Leicester, Portsmouth, Westcott and West Cornwall.

Cell and Gene Therapy

Cell and Gene Therapy Catapult accelerates the translation of early stage research into commercially viable and investible therapies, helping businesses start, grow and confidently develop advanced therapies.

Located in London, Stevenage, Braintree and Edinburgh.

Offshore Renewable Energy

Offshore Renewable Energy Catapult creates clean growth opportunities by accelerating the creation and growth of UK companies in offshore renewable energy.

Located in Glasgow, Blyth, Leven, Pembrokeshire and other UK coastal regions.

Connected Places

Connected Places Catapult is the UK's innovation accelerator for cities, transport, and places. They provide impartial 'innovation as a service' to public bodies, businesses, and infrastructure providers.

Located in London and Milton Keynes

High Value Manufacturing

High Value Manufacturing Catapult helps grow the UK's advanced manufacturing value add by helping industry to develop new manufacturing technology.

Comprised of 7 Centres including AMRC, CPI, MTC, NCC, NAMRC, NMIS and WMG.

Medicines Discovery

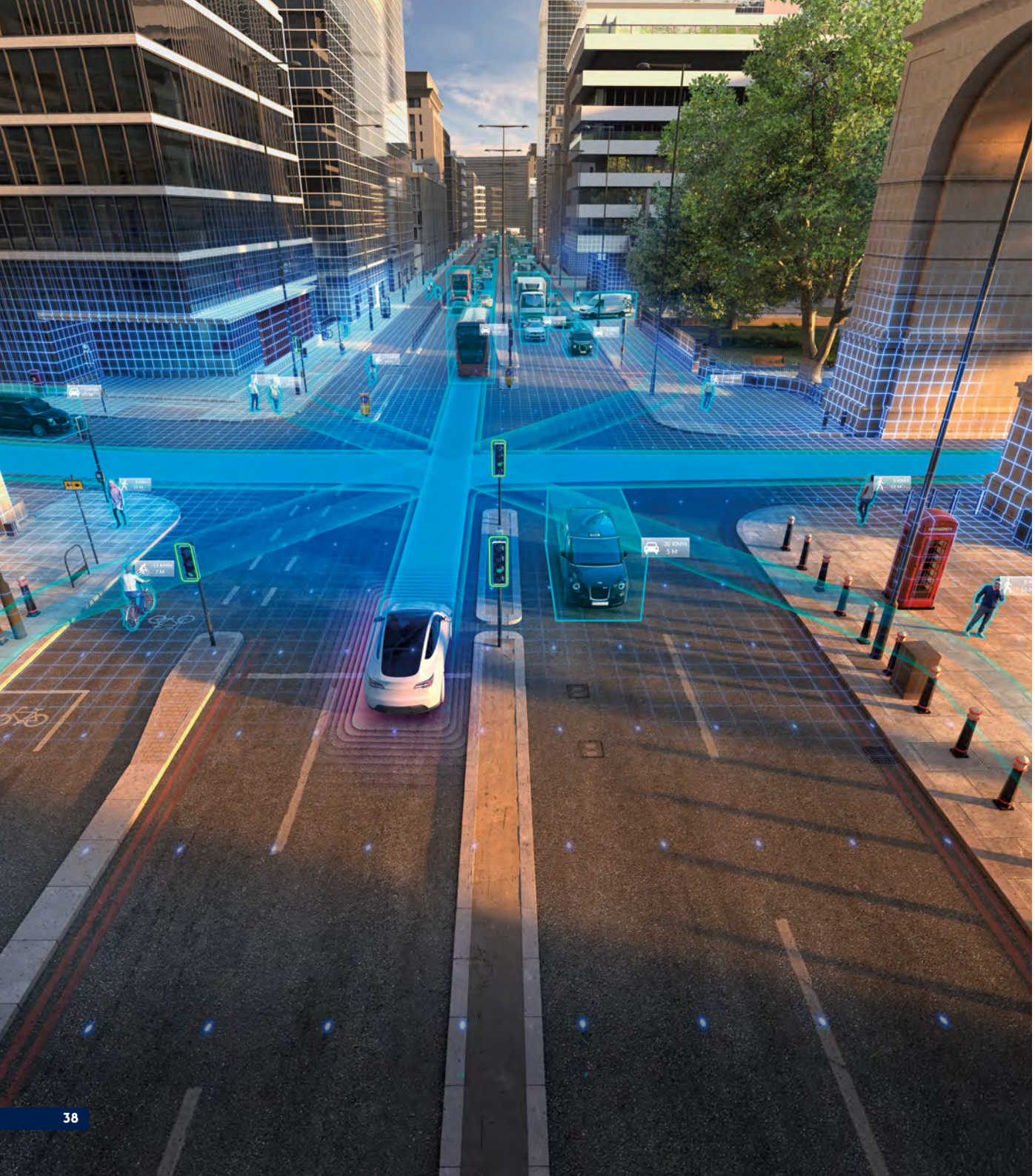
Medicines Discovery Catapult is a national facility connecting the UK community to accelerate and reshape innovative drug discovery. Their mission is to industrialise and drive adoption of breakthrough approaches.

Located in Cheshire and Manchester.

Compound Semiconductor Applications

Compound Semiconductor Applications Catapult accelerates the development and commercialisation of new applications for compound semiconductors (CS), and creating a collaborative innovation centre within the world's first CS cluster in South Wales.

Located in Newport.



Scottish Innovation Centres

There are seven innovation centres, four of which are dedicated to driving growth in the tech sector:

- **Centre for Sensor and Imaging Systems** enables industry innovators and university researchers to collaborate at the forefront of market-focused sensor and imaging systems and IoT innovation
- **Built Environment** – Smarter Transformation provides the connections, infrastructure and culture needed to solve the sector's most pressing challenges
- **Digital Health & Care Innovation Centre** transforms ideas into real solutions that have benefits to the system and citizens to live healthier lives
- **The Data Lab** is an innovation centre focused on helping Scottish industry to capitalise on a growing market opportunity in data science

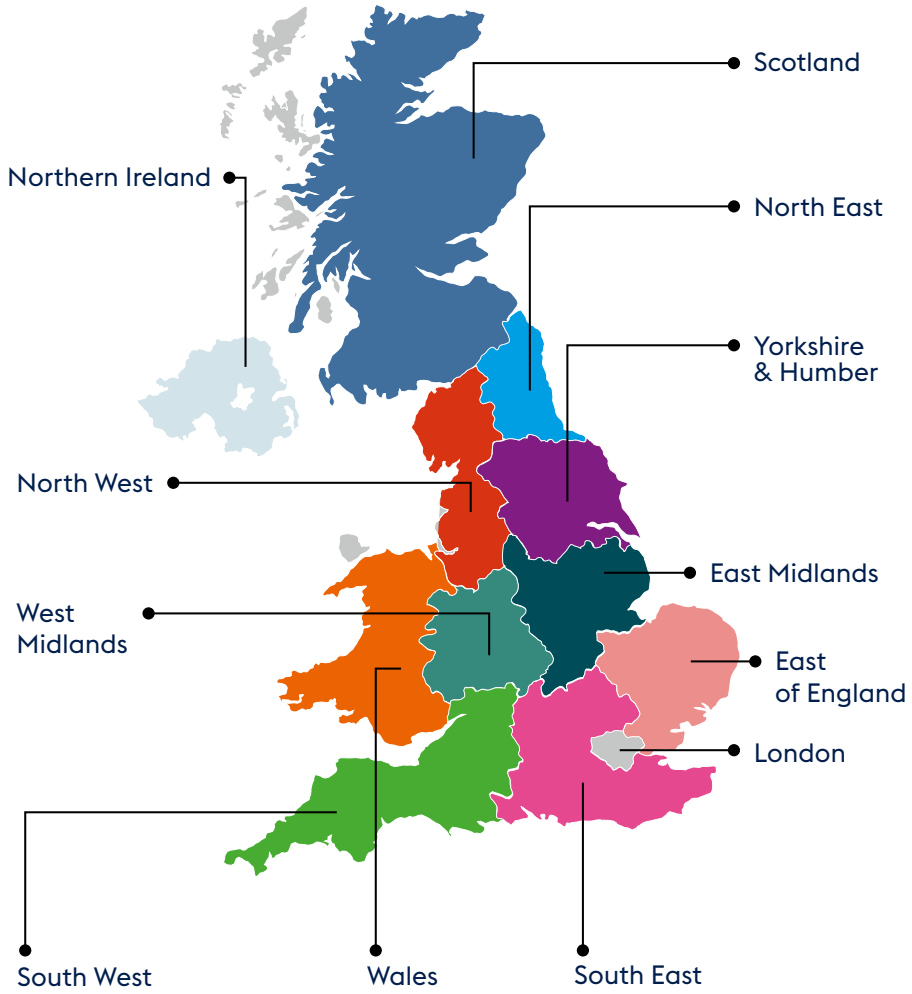
Incubators and Accelerators in the UK

There's over 400 incubator programmes and over 300 accelerators in the UK.

The next few pages will give you an idea of the breadth of some of these by region and nation.

Nationwide:
Innovate Edge
Barclays Eagle Labs
Wayra

Incubators and Accelerators in the UK



South East

Barclays Eagle Labs Brighton
Brighton

Invests in Brighton's future by supporting and fostering innovation in ambitious businesses. Visit website

Future Worlds
Southampton

On-campus accelerator helping aspiring founders launch impactful businesses. Visit website

Natwest Accelerator
Milton Keynes

Supports and empowers UK entrepreneurs to scale their businesses. Visit website

OX1
Oxford

Tailored program supporting student entrepreneurs in early startup stages. Visit website

Oxford University Incubator
Oxford

Free program for uni members and alumni to launch non-spinout ventures. Visit website

Plus X Innovation
Slough and Brighton

Workspaces, facilities, programs & events for businesses of all sizes to collaborate and innovate. Visit website

SETsquared
Southampton

Specialized support for high-tech, high-growth companies. Visit website

Sussex Innovation Centre
Sussex

Uni-owned, offering strategy, advice and skilled graduates to support ventures. Visit website

South West

Epic Centre
Devon

EPIC empowers both start-ups and established businesses with the necessary resources and expertise to succeed. Visit website

BRL Hardware
Bristol

Assists in prototyping, building, testing for product refinement and launch. Visit website

Exter University Startup Incubator
Exeter

Supports from ideation to launch with workshops, networking, mentoring, and funding access. Visit website

Launch Space Incubator
Bristol

Develops ideas, value propositions, and prepares businesses for fundraising in the space sector. Visit website

Launchpad Venture Studio
Falmouth

Expert knowledge, skills, and facilities to accelerate business growth. Visit website

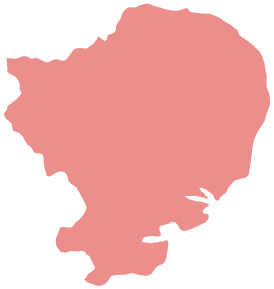
SETsquared Bristol
Bristol

Comprehensive support for businesses at any stage, from ideation to scale-up. Visit website

SETsquared Exeter
Exeter

A world-leading business incubator and enterprise partnership with a comprehensive range of support programs to boost businesses to the next level. Visit website

East of England



Cambridge Cleantech
Cambridge

Membership organisation offering collaborative programmes to help cleantech innovation. Visit website

Accelerate Cambridge - University of Cambridge
Cambridge

A startup accelerator at Cambridge Judge Business School, enables and nurtures venture creation out of the University of Cambridge.
Visit website

Akcela
Norwich

Based in city centre business hub Fuel Studios, Akcela is a business consultancy and start-up incubator, bringing founders and entrepreneurs together to create a welcoming community. Its services include start-up incubation and consultancy, marketing and branding support, and technology implementation.
Visit website

Cambridge Wireless/CW
Cambridge

Membership organisation that connects the wireless community globally. Aims to be the international community for companies involved in the research, development and application of wireless and mobile, internet, semiconductor and software technologies. They deliver a range of programmes and are the lead partner to UK5G/UKTIN. Visit website

Deeptech lab
Cambridge

Deeptech lab: VC fund, accelerator, and the catalyst for deeptech success. Has a 10 week accelerator programme. Supported by Cambridge Innovation Capital, ARM, University of Cambridge and Martlet. Visit website

Hethel Innovation
Norfolk

offers incubating space in Norfolk and East Anglia. Visit website

Innovation Cluster
Peterbrough

Offering expert mentorship, networking, and programs in Peterborough and the Kawarthas to help entrepreneurs succeed. Visit website

Tech Velocity
Norwich

As the East of England's first digital accelerator, Tech Velocity helps passionate founders scale their businesses. It includes Founding 50, a networking group of successful business leaders from across the region. It uses its collective voice to shape local policy and investment, support early-stage founders, and enable growth and collaboration.

London

Accelerator Academy
Innovation Warehouse (currently online)

Part-time evening program for first-time entrepreneurs. Provides growth and investment readiness support through workshops, mentoring, and clinics.
Visit website

Bethnal Green Ventures
Makerversity, The Strand

Supports early-stage tech startups tackling social and environmental problems. Offers £15,000 for 6% equity. Ideal teams: 2-4 people. Visit website

Entrepreneur First
Workspace, London Bridge

Pre-team, pre-idea accelerator for talented computer scientists and engineers. Helps develop ideas and launch startups within the program. Visit website

Oxygen Accelerator
Google Campus, Shoreditch

Offers funding and mentorship for consumer-facing, B2C startups with game-changing ideas. Visit website

Seedcamp
Google Campus, Shoreditch

Europe's leading acceleration fund offering funding, mentoring, and access to an A-list network. Ideal for startups with existing ideas and teams. Visit website

Techstars
White Bear Yard, Clerkenwell

Globally renowned accelerator with a strong mentor network. Focuses on high-growth tech startups. Visit website

Techstars Startup Next
Google Campus, Shoreditch

A 5-week program powered by Google for Entrepreneurs, designed to help startups get investor-ready through mentorship, guidance, and pitch preparation.

The Scaleup Accelerator
Innovation Warehouse (currently online)

Helps scaleups raise £1-5mil with a 6-week program and 12 months of investment support. Ideal for UK tech scaleups (B2B SaaS) seeking Series A funding. Visit website

Wayra
Fitzrovia

Invests in startups improving education, employment, environment, health, and social innovation. Offers cool workspace, events, and resources. Visit website

East Midlands

Betaden
Malvern

9-month program supporting tech companies to develop their market path (Best UK Tech Accelerator winner).
Visit website

BIOCity
Nottingham

Thriving medical and life science community, established in 2003 as UK's first Bioscience Incubator. Visit website

Derby Innovation Accelerator
Derby

Focuses on Rail, Nuclear, Aerospace, Creative and Life Sciences with workshops, grants & support. Visit website

ESA Business Incubation Centre
Leicester

Offers support program and access to University of Leicester's expertise for companies. Visit website

Loughborough Science and Enterprise Park
Loughborough

Offers startup and incubation programs for innovative early-stage businesses.
Visit website

MediCity
Nottingham

Incubator supporting MedTech businesses, created through Boots and BioCity collaboration. Visit website

Space Technology Applications from Research (STAR) Accelerator – Space Park Leicester
Leicester

Supports space sector innovation with university's research and facilities.
Visit website

University of Lincoln Agri-Tech Accelerator 2023
Lincoln

Collaboration between University of Lincoln and Barclays supporting early-stage Agri-Tech businesses.
Visit website

West Midlands

5Spring
Worcester

First 5G commercial application accelerator for companies to develop and utilize 5G tech.
Visit website

BIOHUB
Birmingham

Shared lab and office space for life sciences companies. Visit website

Creative Futures
Doncaster

Free 6-month incubator for digital and creative companies, offering support and university expertise. Visit website

Ignite
Warwick

Flexible support for startups and early-stage companies. Visit website

SPARK Business Incubation Centre
Rotherham

Shared and independent office space for companies to develop and grow their ideas. Visit website

Steamhouse
Barnsley

Co-working space, prototyping facilities and workshops for companies to unlock their potential. Visit website

Supertech Serendip Protech Incubator
Leeds

Free hotdesking, 6 months support, events for PropTech companies.
Visit website

North East

Digital Incubator Sunderland University
Sunderland

Fosters collaboration between technology and media, leveraging university expertise to launch student and graduate businesses responding to real-world client projects. Visit website

Durham Incubator
Durham

Fully-funded accelerator program providing workspaces, mentorship, workshops, and networking for Durham entrepreneurs. Visit website

Ignite
Newcastle

Over 12 years of expertise empowering founders through workshops and mentorship from successful entrepreneurs and investors. Visit website

Newcastle University START UP Founderships
Newcastle

A tailored program offering one-on-one coaching, skills development, influential partnerships, £17,500 in funding and co-working space. Visit website

Sunderland Software City
Sunderland

Connects tech businesses to vital experts, networks, and resources for an optimal launch. Visit website

Teeside University Launchpad
Tees Vally

Offers spaces, mentorship and expert led workshops networking events. Visit website

North West

AMRC (Advanced Manufacturing Research Centre)
Manchester

Supports digital and cyber security startups, scaling them within Greater Manchester's ecosystem. Backed by GCHQ and Barclays. Visit website

Baltic Ventures
Manchester

Home to disruptive tech businesses across diverse sectors, ideal for startups, scale-ups and global corporates. Visit website

Bruntwood Sci Tech Manchester Tech Incubator
Manchester

Empowers tech businesses to scale and build community, offering resources and fostering collaboration. Visit website

Digital Cluster at Daresbury Sci Tech
Salford

Affordable workspaces with business support, networking, training, and innovation labs for tech and digital businesses. Visit website

DiSH (Digital Security Hub)
Daresbury

Connects strengths across North West to drive UK innovation and economic growth in digital technologies. Visit website

Exchange (Manchester and Leeds)
Manchester

Accelerates AI, deep tech & digital trust for a transformative future. Visit website

Fraser House
Liverpool

Liverpool tech accelerator supporting ambitious founders building tomorrow's solutions and businesses. Visit website

HOST Salford
Lancaster

Diverse and inclusive co-working space for tech and digital businesses in Lancaster, fostering collaboration & innovation. Visit website

Turing Innovation Catalyst
Lancaster

Drives recovery, growth & innovation for Lancashire firms in manufacturing, supporting them to compete nationally and internationally. Visit website

Yorkshire and the Humber

Accelerate - Leeds Becket University
Leeds

Empowers tech businesses by providing scaling tools, learning resources, and a collaborative community. Located in Leeds, it offers a foundation for early-stage companies to thrive. Visit website

Barnsley DMC - Launchpad
Barnsley

A fully-funded program offering business diagnostics, dedicated support, expert workshops, networking events, and more. Visit website

Business Doncaster
Doncaster

Provides fully-funded support to Doncaster and South Yorkshire businesses of any size or sector, helping them locate, grow, and flourish. Visit website

Exchange (Manchester and Leeds)
Leeds

In partnership with Kollider, this space helps businesses and entrepreneurs scale and grow. Visit website

Kollider Eagle Lab
Sheffield

Award-winning workspace for startups and early-stage businesses, fostering over 850 companies in 23 years. Visit website

NatWest Entrepreneur Accelerator
Leeds

Offers free, fully-funded support to startups and businesses with up to 10 employees, guiding them at any stage of their journey. Visit website

RIDO
Rotherham

Dedicated team supporting and empowering UK entrepreneurs to scale their businesses. Visit website

Spark - Univeristy of Leeds
Leeds

Supports & empowers UK entrepreneurs to scale their businesses.
Visit website

Start Up West Yorkshire
West Yorkshire

A 6-month growth program for ambitious Leeds City Region businesses, supporting them to grow and create jobs.
Visit website

Scotland

Censis
Glasgow

CENSIS is Scotland's Innovation Centre for sensing, imaging and Internet of Things (IoT) technologies. We work with private and public organisations of all sizes to de-risk and accelerate innovation and overcome technology barriers to achieve business transformation. Visit website

Edinburgh Innovations
Edinbrough

Edinburgh Innovations is the University of Edinburgh's commercialisation service.
Visit website

Elevator UK
Aberdeen, Dundee and Lanarkshire

Elevator UK is an accelerator based in Bridge of Don. They run events and provide advice and research services as well as office spaces. Visit website

Entrepreneur Accelerator
Glasgoew and Edin

Entrepreneur Accelerator is based in Edinburgh and Glasgow. It's run by the Royal Bank of Scotland. Visit website

Fraunhofer UK
Glasgow

The first UK Fraunhofer research Centre, the Fraunhofer Centre for Applied Photonics, was established at the same time, at the University of Strathclyde, Glasgow, and it is actively engaged in a wide range of collaborative and contract projects with UK and global companies. Visit website

Pathfinder Accelerator
Inverness

Pathfinder is an accelerator based in Inverness who specialise in helping ideas for Life Science and Technology.
Visit website

Shell LiveWIRE
North East Scotland

Successful applicants will benefit from a bespoke package of coaching, mentoring, masterclasses and residential trips to expand and challenge their thinking, and help you embrace the growth mindset required to transform your business. Visit website

Startup Accelerator
Aberdeen

Startup Accelerator is based at Robert Gordon University in Aberdeen. They offer students, staff and recent graduates.
Visit website

Tech Scaler
Edinbrough

Techscaler is the Scottish Government's tech startup support programme, established to strengthen the country's tech sector and encourage entrepreneurship, delivering on key priorities outlined in the Scottish Tech Ecosystem Review (STER) report, and in the National Strategy for Economic Transformation (NSET). Visit website

Tech X
Aberdeen

TechX is an accelerator and incubator run by The Net Zero Technology Centre (formerly The Oil and Gas Technology Centre) in Aberdeen. Visit website

Wales

Alacrity
Newport

The Alacrity Foundation is a registered charity which was set up by a collaboration between the Welsh Government, The Waterloo Foundation and Wesley Clover Corporation. The Foundation provides budding entrepreneurs and tech enthusiasts with practical business training and mentorship, so they can develop as entrepreneurs and launch their own UK based demand-driven digital company. Alacrity offers a 12 month paid programme which pairs like-minded individuals into start-up teams and matches them with demand driven opportunities which are sourced from strategic partners. Visit website

M-Sparc
Angelsey

Part of Bangor University, Menai Science Park, or M-SParc for short, is where exciting and cutting-edge companies in the science and technology sectors - particularly the low carbon, digital and life science sectors - make their home in North Wales and receive support to develop their businesses. M-SParc will provide space for businesses of all sizes, from start-ups to large corporate companies. Everything a business requires, from outstanding facilities and bespoke business support services, to flexible office space and laboratories. Visit website

Tramshed Tech
Cardiff, Newport, Barry, Swansea

A startup ecosystem providing spaces, support, and skills to businesses across Wales. Tramshed has sites right across South Wales, including Swansea, Cardiff and Newport. Their Soft-Landing programme is designed to support international businesses to scale in Newport, Wales thanks to a bespoke package of support including 6 months free office space. Visit website

Northern Ireland

AMP Growth Accelerator
Derry

Offers space to support business growth and development projects to scale with entrepreneurship programmes in Londonderry. Visit website

Barclays Eagle Labs at Ormeau Baths
Belfast

Providing businesses with a range of accelerator services to help them to connect, grow and scale. Visit website

Catalyst
Belfast/Derry

Independent, non-profit science and technology hub focused on fostering innovation and entrepreneurship in Northern Ireland. epicentre of innovation in Northern Ireland, – a home, a powerful community, enhanced by international networks of venture capital, and market development support. Visit website

Deloitte Ventures (Northern Ireland)
Belfast

co-create and co-invest with leading corporations to build new partnerships, platforms and products in disruptive technology start-ups across fast-growing tech sectors such as fintech and blockchain. Visit website

Innovation Factory
Belfast

Purpose-built coworking space, flexible offices, and meeting rooms with on-site business support. Home to innovative freelancers, start-ups, and growing businesses.1-2-1 business mentoring services designed to accelerate the generation and implementation of new ideas. Visit website

Pixel Mill's Accelerator Programme - Platform
Belfast

Platform gives creative industry studios access to facilities, mentors, training and funding, as well as the opportunity to attend industry events to build your business network. Visit website

Raise Ventures
Belfast

Commercial startup accelerator supporting early-stage companies, nurturing high potential, disruptive scalable ideas to create global enterprises through their accelerator programme. Visit website

Royal Academy of Engineering
Belfast

Providing specialist support for engineering and technology startups and scaleups. The Northern Ireland Hub is the dedicated contact point for innovation support from the Academy. Visit website

Ulster Bank Accelerator
Belfast

Supports and empowers UK entrepreneurs to scale their businesses to the next level. Visit website

Incubators	Accelerators
400 incubator programmes currently operating in the UK	300 accelerators in the UK
Incubators are spread evenly throughout the UK	Half of the accelerators are based outside London
Provide physical space for start-ups	Services offered through an intensive cohort-based programme of limited duration (typically 3 – 12 months)
1/3 of incubators have a focus on tech, including Fintech	Growth-driven, offering direct funding in return for equity
Incubators serve local businesses: on average, business traveled a shorter distance to participate in incubators than accelerators. There are also 'virtual' incubators and accelerators which operate online	More selective on start-ups
Funded publicly or through universities	Rely on corporate sources for funding rather than public sector or universities

Leading UK Technologies

Cyber

Why the UK?

- Nearly 2,000 cyber companies call the UK home, fostering a vibrant and collaborative environment.
- The UK hosts 19 distinguished University Centres of R&D Excellence in Cyber Security spearhead cutting-edge research and development.
- The UK's favourable investment climate attracted over £500 million in cyber investment during 2022, showcasing investor confidence in the sector.

Initiatives and Support

- Cyber Runway, the UK's largest cyber start-up accelerator, empowers diverse, innovative founders.
- The National Cyber Security Centre's (NCSC) dedicated program supports budding cyber start-ups.
- Manchester's Digital Innovation and Security Hub (DiSH) fosters the growth of digital security businesses through a powerful consortium.
- BetaDen, Worcestershire's award-winning tech accelerator, provides cutting-edge mentorship, funding, and tech networks.
- The Gloucestershire High Potential Opportunity initiative fuels cyber growth in the region.
- Cyber Map, a collaborative effort by techUK, Dealroom, and DCMS offers a comprehensive map and detailed information on over 1,000 UK cyber companies, facilitating connections and partnerships.

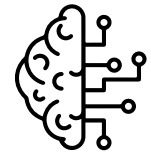
Academic Excellence and Talent Pipeline

- 19 UK universities, recognised as "Academic Centres of Excellence" conduct, world-class cyber security research.
- Centres for Doctoral Training offer industry-focused research opportunities with universities, like Royal Holloway, Bristol, and UCL, providing valuable talent with practical experience.

Key Stakeholders in the UK

- UK Cyber Cluster Collaboration connects key cyber clusters across the UK, promoting knowledge sharing and collaboration.
- TechUK, the leading technology trade association, offers programs and regular meetings on cyber industry advancements, policy, and legislation.
- The National Cyber Security Centre is the UK's national authority on the cyber security environment: sharing knowledge, addressing systemic vulnerabilities and providing leadership on key national cyber security issues.
- GCHQ is a government agency that provides intelligence, protects information and informs relevant UK policy to keep society safe and successful in the internet age.

AI



Why the UK?

- The UK has a well-developed and interconnected AI ecosystem, which includes world-leading companies, research institutions, and funding opportunities. It is all supported by a highly skilled workforce.
- The UK is ranked number one in Europe and fourth in the world for AI, according to the Global AI Index.
- UK ranks 3rd highest in Oxford Insights Government AI Readiness Index 2023 (behind the USA and Singapore).
- UK ranks 3rd for private capital investment in AI after the US and China, accounting for around half of all AI private capital investment in Europe.
- UK ranks 3rd for number of AI publications per capita, reflecting research strength in this area.
- More than 3,000 AI companies have chosen to make the UK their home, the 3rd highest number of AI companies in the world after the US and China.

Initiatives and Support

- The newly formed UK AI Safety Institute is conducting world-leading research into how to safely achieve the enormous benefits of AI.
- The Alan Turing Institute, the UK's national institute for data science and AI, is collaborating with world-leading companies, government agencies, and 13 of the UK's top universities on its Turing 2.0 strategy to use data science and AI to make the world a better place.
- ElevenLabs, based in London, became the UK's first generative AI unicorn business in January 2024, raising $73 million in funding at a $1.1 billion valuation.

Academic Excellence and Talent Pipeline

- There are strong, world-leading academic AI clusters across the UK, each with a different AI specialization, for example, in Cambridge, Oxford, London (UCL and Imperial), Southampton, Bristol, Edinburgh, Leeds, and Manchester.
- There are 16 centres for AI doctoral training spread across the UK. An additional 12 centres were recently announced as part of a £118 million AI skills funding package.

Key Stakeholders in the UK

- Digital Catapult runs events and workshops to improve competitiveness and productivity; including the Machine Intelligence Garage which is an acceleration programme for machine learning and artificial intelligence startups
- The Centre for Data Ethics and Innovation is an independent body that advises the UK government on AI policy.
- UKRI supports collaborative research through its Challenge Fund which has a strong focus on AI, for multiple sectors including healthcare and creative.
- Innovate UK's Bridge AI programme is driving AI adoption across the UK, in key sectors such as agriculture, construction, transport and creative with high growth potential, but currently low AI adoption rates.

Future Telecoms

Why the UK?

- The UK's telecommunications sector plays a vital role, keeping its nearly 68 million citizens connected and powering global economic growth. By 2035, the UK's 5G rollout is expected to contribute a staggering £9.27 trillion to global economic output.
- The sector is a major contributor to the UK economy, generating £31.8 billion in 2022 with an expected revenue growth of 8.5% in 2023.
- The UK boasts a net positive trade balance in telecommunications services, exporting £8.8 billion and importing £5.2 billion in 2022.
- Strong global connections, established tech communities, and a world-class academic pipeline ensure a steady flow of talent and innovation.
- The UK government actively supports the industry through the £250 million Open Networks R&D fund, fostering diversification in the telecoms supply chain.

Initiatives and Support

- Adastral Park, a hub of major tech and telecoms companies like BT, sits at the heart of the UK's digital ecosystem.
- Future Network Programmes (FNP) lead R&D initiatives, including:
  - The Open Networks Programme: £249.5 million to diversify the telecoms macro network (2022-2025).
  - 5G Testbeds and Trials: £145 million to encourage innovative 5G use cases across key sectors (2017-2022).
  - The Shared Outcomes Fund: up to £8 million for projects like the Fibre in Water initiative and eight Digital Connectivity Infrastructure Accelerator projects (2022-2025).

Academic Excellence and Talent Pipeline

- The UK hosts many world leading institutions conducting research in future telecommunications, including: Loughborough University 5G Research Centre; University of Surrey 5G/6G Innovation Centre; KCL Centre for Telecommunications Research; Bangor University Digital Processing Centre for Excellence.

Key Stakeholders in the UK

- The UK Telecoms Innovation Network is the innovation network for the UK telecoms sector bringing together industry, government stakeholders and academia.
- Cambridge Wireless is a not for profit organisation which provides their members with a dynamic forum where they can network with their peers, track the latest technology trends and business developments and position their organisations in key market sectors. They also organise major conferences and start-up competitions along with other high-quality industry networking events and dinners.
- Comms Council UK is a membership-led organisation that both represents and supports telecommunications companies that provide services to business and residential customers in the UK.
- Internet Services Providers' Association brings together the UK internet industry to provide essential support through innovation, knowledge and experience in order to benefit the UK economy and society.
- Ofcom is the UK's telecommunications regulator.

Quantum

Why the UK?

- The UK houses the second-highest number of quantum companies globally, behind only the US.
- Europe's leading hub for quantum startups, the UK ranks third worldwide, attracting impressive investments of USD 979 million between 2001 and 2021.
- Recognizing the potential of this field, the UK government has committed £900 million to build a new exascale computer, pushing the boundaries of computational power for deep tech and research.
- Since 2015, the UK has attracted the second-highest number of inward quantum foreign direct investment projects globally, demonstrating its competitiveness and attractiveness.
- Further solidifying its commitment, the UK is doubling its investment in quantum technologies with an additional £2.5 billion over the next decade.

Initiatives and Support

- The National Quantum Technologies Programme, established in 2014, spearheads UK's quantum endeavors with over £1 billion invested.
- The Engineering and Physical Sciences Research Council (EPSRC) plays a key role in NQTP, funding critical research and contributing a further £94 million over the next five years.
- NQTP has established four hubs involving over 15 universities, 130 industry partners, research institutions, and government departments, fostering collaboration and innovation.
- Practical applications are already emerging, with over 20 products developed across areas like sensors and timing devices.

Academic Excellence and Talent Pipeline

- Two existing Centres for Doctoral Training (CDTs) offer opportunities for universities and industry to collaborate on research projects.
- The UK aims to fund an additional 1000 postgraduate research students, on top of the 470 funded to date, in quantum-related disciplines by 2033, further strengthening its talent pipeline.

Key Stakeholders in the UK

- UK Quantum, Quantum Engineering Technical Network (QETN), EPSRC, Innovate UK, NPL, GCHQ, Dstl, and techUK are some key stakeholders fostering collaboration and progress.
- The Knowledge Transfer Network (KTN) Quantum facilitates the development, industrialization, and adoption of quantum technologies in key areas. Their Quantum Landscape Map provides a comprehensive overview of the UK'squantum ecosystem.

Fintech

In a challenging 2022 global market, the UK remained a leading destination for innovators and investors, receiving $12.5 billion of VC investments, across 545 deals. This follows record-levels of investment in 2021, when the UK tripled the amount of capital investment than it received in 2020 or 2019.

The UK also has access to world-class talent and a progressive approach to regulation to encourage FinTech innovation, with FinTech innovation distributed across the whole of the UK.

76,500 people work in FinTech UK-wide, and this number is set to grow to 105,500 by 2030.

2,500+

FinTech firms are located in the UK

Source: The Global City UK, Fintech

$12.5bn

UK FinTech maintains global leadership attracting $12.5 billion of investment in 2022

Source: Innovate Finance, 2022

Investors put more money into UK FinTech than the next 13 European countries combined in 2022.

Source: Innovate Finance, 2022

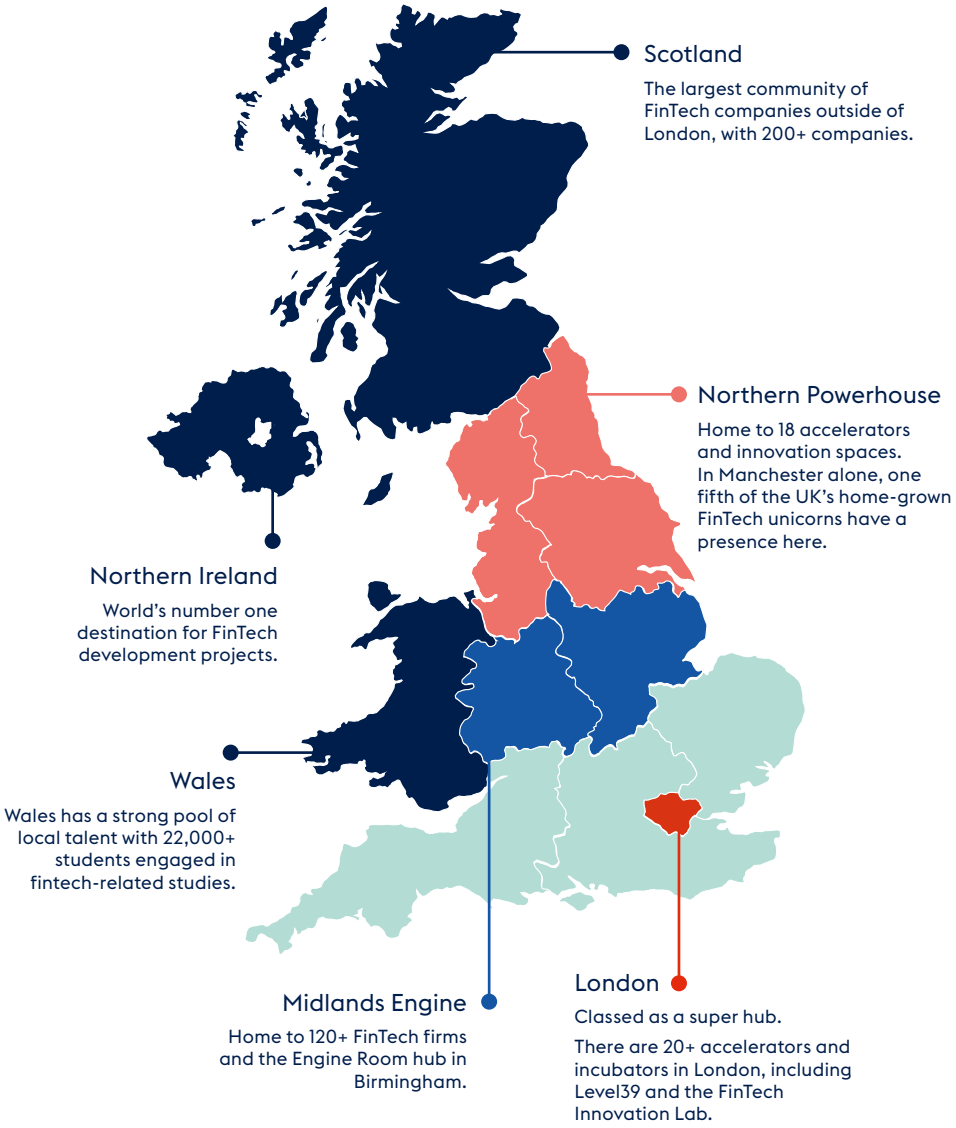
The UK accounts for 10% of the global FinTech industry.

Source: Kalifa FinTech Review Final Report

71%

UK's FinTech adoption rate is 71%. The global average is 64%.

Source: Innovate Finance, 2022



Venture Capital in the UK

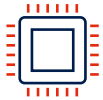
Key Facts

The UK is an excellent destination for VC investment.

$31bn

Venture Capital investment in the UK reached $31 billion in 2022.

Source: Dealroom, 2022



>$1tn

Value of the UK tech industry, a milestone only reached by the US and China

#1

The UK has attracted more new investment since 1997 than any other European nation

1st

The UK is the top destination in Europe for inward FDI stock in 2021

Source: UNCTAD World Investment Report 2022

Climate tech

The UK raised $2.9 billion for climate focused tech companies. This was the joint highest amount raised by any other European country.

Fintech

Second largest destination for VC investment in the world, three times the size of Germany and France.

Deeptech

Third largest destination for VC investment, behind the U.S. and China.

Department for Business and Trade

We are the UK's department for economic growth. We support businesses to invest, grow and export, creating jobs and opportunities across the country.

We are responsible for:

- Redrawing our rules to ensure businesses thrive, markets are competitive and consumers are protected.
- Securing investment from UK and international businesses.
- Advising, supporting, and promoting British businesses to grow and export.
- Opening up new markets for businesses by removing barriers and striking trade deals.
- Promoting free trade, economic security and resilient supply chains.

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