

# Unlocking the potential of UK HealthTech

Data driven insights and recommendations to unlock the potential of UK HealthTech

3 April 2025

#### What are we going to cover in today's session

Background and research context Research approach Key findings Recommendations Current funding opportunities Open discussion

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#### KPMG The UKN kellehTech sector plays a pixela but often understimated role in the advancement of hashkaus, röffens a diverse array of tochoologies with the postetal ta save tiltes and enhance wellbeing. These innovations hold a position of global significance, benefiting besthere systems workdavie, including the HMS. Consider the emergence of Advance adapacities tools, for example, which analyse medical images with remarkable accuracy, expediting disease detection enhancing the proceeds of early treatment, ultimately continuing to the Nation's health. With a prominent Biophermaceutical sector in the LIK, HealthTech is often less calabrated Rith a prominent Biopharmaceutical sector in the UK, Health Tech is often less celebrated. The resents the results of an extensive examination, combining a review of existing research, athered through a survey of Health Tech enterprises, and interviews with key sector stake he objective was to identify opportunities for growth and enhancement within this importan the recommendations encompass critical areas such as research and devalopment, manufil and the recommendations encompass critical areas such as research and devalopment, manufil and the recommendations encompass critical areas such as research and devalopment, manufil and the recommendations encompass critical areas such as research and devalopment. Recommendations By embracing these recommendation, the UK can faster a thriving Healthich ecsystem that not only spors indivorus to tail also embraces patient care, sections exponding our particular the section of the funding, NHS procurement, sector representation and data infrastructure Key findings The HealthTech sector is a key sector for the UK, with growth potential The HealthTech sector is a significant contributor to the UK economy with an annual turnover of £27. In 2020 and offering employment to approximately 138,000 professionals. In a recent report by College Londom, the sector Gross Valke Added showed a 19% compound annual growth rate betwee 2020 for MedTech (which adopts a narrower definition than HealthTech). Research and developmen Research and development Teatering Let-active performance and the second secon The UK is a net importer of HealthTech products and services According to the Medicines and Healthcare products Regulatory Agency (MHRA), there are appr million products registered for use on the UK market. The UK is a net importer of HealthTech, expo 25 billion worth products and services annually, and importing around 27.5 billion of HealthTech pro-The geographical spread of the UK HealthTech sector goes beyond London and the Golden Tr The Golden Triangle, encompassing London, Oxford (South East), and Cambridge (East of Enc undeniably a prominent hub for research and development in the field of life sciences and medicine. funding support for SMEs in this domain. five universities ranked among the world's top twenty-five, alongside some of the globe's largest i institutions, including the Sanger Centre, the Francis Crick Institute, and Research Complex at Harwe Facilitate clinical testing partnerships: promote and establish partnerships betw lowever, it's essential to recognise that the UK's HealthTech sector extends well beyond th prominent clinical settings, such as major hospitals for real-world testing within the UK. For example, additional funding and resources are required to make Academic Health Science Networks ("AHSNs") even more proactive in facilitating innovation and collaboration between end-users, healthcare providers, HealthTech businesses, and consumers. Transfes borders: This sector should be similar to the treasured areas (MMHS WMI DepOl). If Transfes borders: This sector subhis significant diversity and a substantial presence throughout it While the South East region leads in employment, turnover, and the number of Health Echs is Modum Enterprise (SME) Health Tech businesses are dispersed evenly across surious Uh Focusing funding and support solely within the <u>Calden Therefore excludes a substantial number</u> **Unlocking the** or innovation and streamlining the process f ed collaboration with organisations like Nation overseas regulators (such as Food and Dri Protecting and commercialising IP tential of lik he conceptualisation of relevant UK technologie companies for demand signalling. It is particularly arket pull' technologies without a clear view of the h professionals have. Without improved demand A 190 Methods deployed to protect Intellectual Property **HealthTech** ng allocated to areas that do not maximise value he use of Confidentiality Agreements to maintain control of inte ost utilised form of in or combinantly Agreements to mamma control or intelectual property generated by respondence strained from of intelectual property rights protection for UK Health Tech businesses. In terms ad rights, patients and registered trademarks are used by approximately one-fifth of business aginghy, warreness of IP protection issues appears wide-spread in the UK Health Tech sector given i portion of businesses that do not formally protect their intellectual property. 85%+ KPMG Use of this Report is Invited - see Note 0 2024 HPMG LLP in the UK. All rights Figure 5.1: How do you currently protect IP generated in your UK-based organisation there is a need for an extended-term plan to boost e economics of production in the UK and product ing skills gaps coupled with improved access to armonisation and consistency across healt afacturers. Developing harmonised guadennes ro icial value definitions) across the trusts will make Data driven insights and recommendations to unlock the potential of UK HealthTech Sum of Small Sum of Large Commissioned by the UK Office for Life Sciences dered one of the popular regions for filing HealthTech patents. In 2021, the UK accounted fi January 2024 14.9% of all European HealthTech patent applications. Whilst the UK has seen a declining trend in the number of life sciences patents filed per 1,000 population between 2016 and 2020, the UK has risen to fourth up from sixth compared to other comparators due to a similar declining trend seen in other similar countries Use of this Report is limited - see Notice on page 2

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**Executive summary** 



## 01 Background and research context

## 02

### Research approach

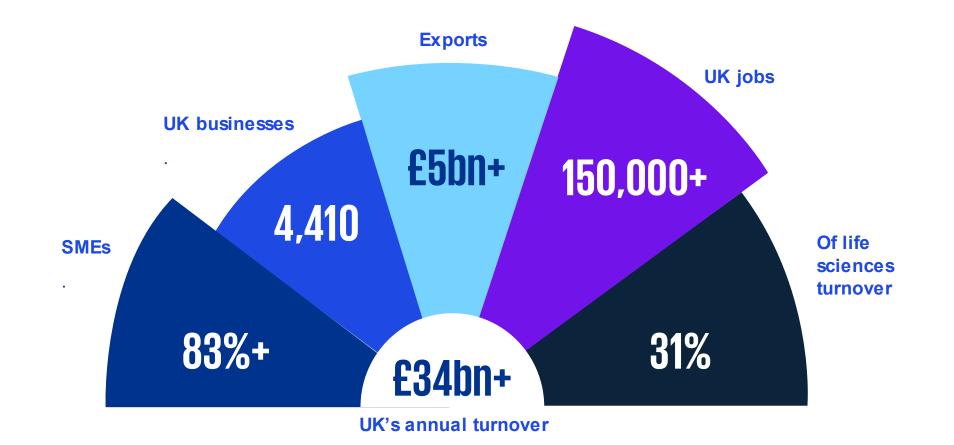
#### **Research** approach

- **1.** A review of existing research and data regarding the UK HealthTech sector
- 2. A primary research phase, including:
  - a. A survey of UK HealthTech businesses
  - b. UK HealthTech Key Informant Interviews
  - c. UK MedTech Trade Association inputs

## 03 Key findings

## 3.1 Economic contribution

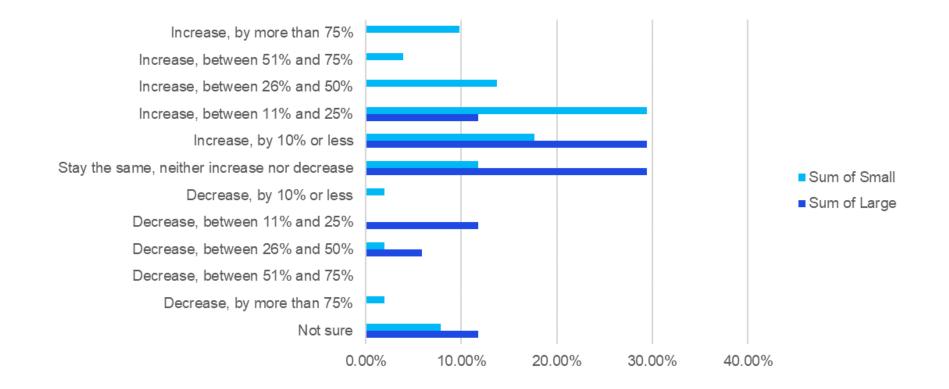
#### **Economic contribution of HealthTech**



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### **Economic contribution of HealthTech**

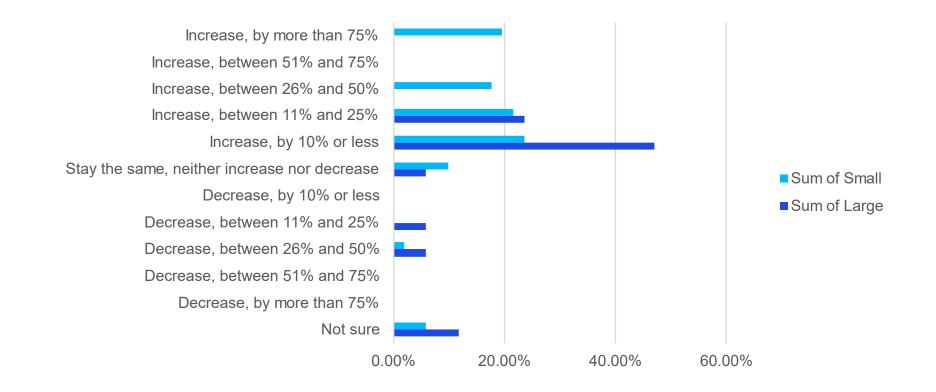
Figure 1.3: How do you expect your headcount in the UK to change in the next 12-24 months?





### **Economic contribution of HealthTech**

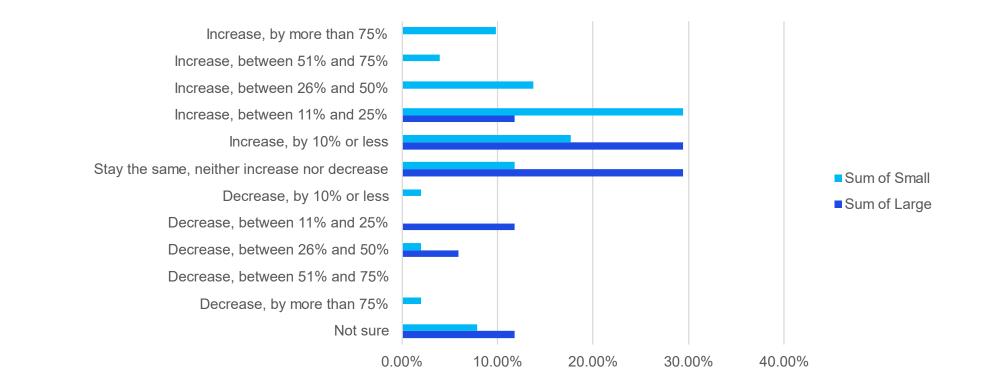
Figure 1.6: How do you expect your turnover from UK operations to change in the next 12-24 months?





#### The UK as a net importer of HealthTech

**Figure 1.4:** Approximately what proportion of your UK organisation's product / service revenue is derived from export?



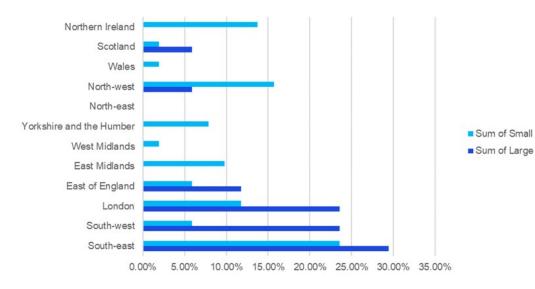


### 3.2

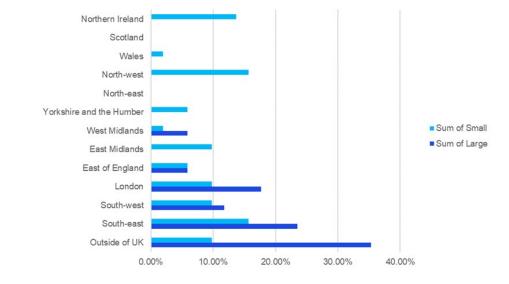
## Sector representation

#### **Beyond the Golden Triangle**

**Figure 1.1:** Where is your organisation's registered address in the UK?



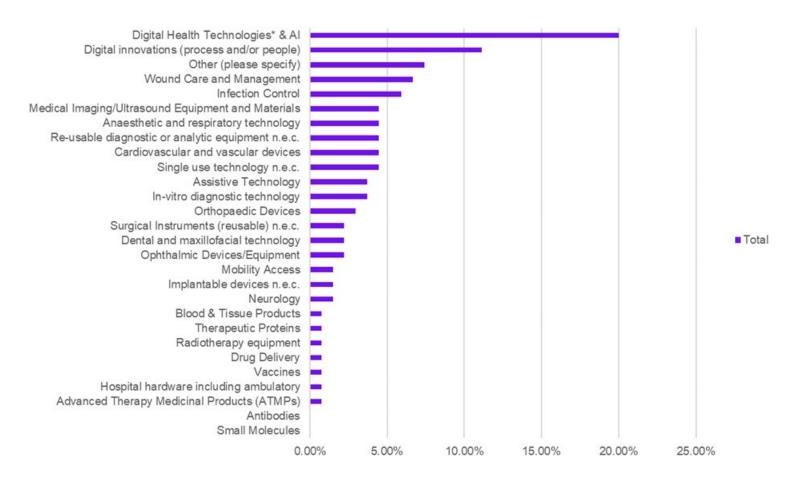
#### **Figure 1.2:** Where is your organisation's head office located?





### The need for a formal redefinition of HealthTech

#### Figure 1.5: In which HealthTech subsector(s) does your organisation primarily operate?

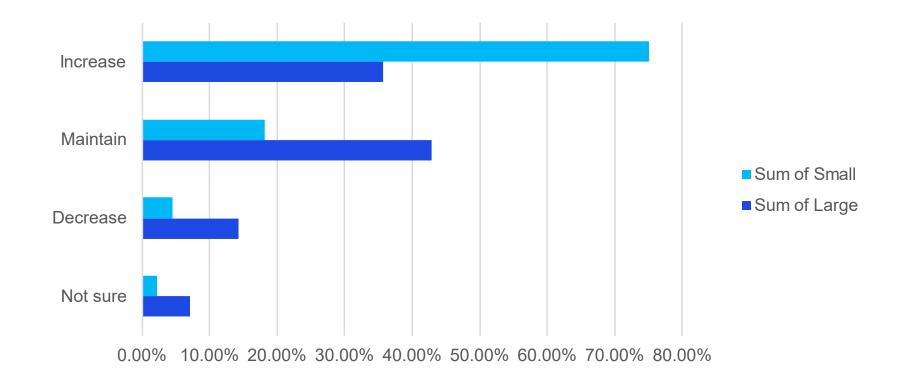




## 3.3 Innovation and R&D landscape

#### Strong commitment to R&D

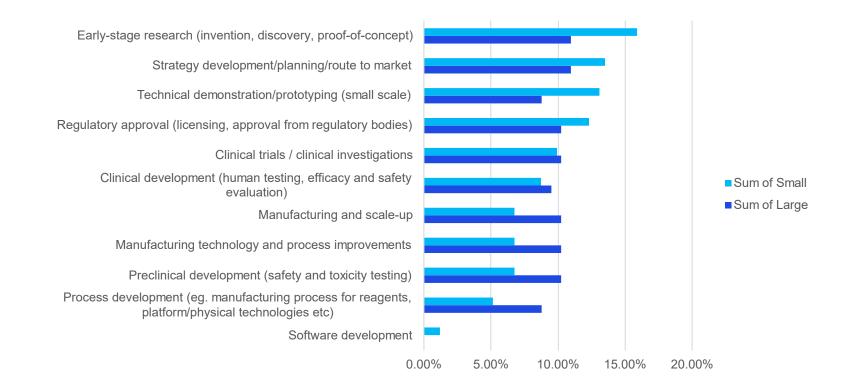
**Figure 2.2**: Do you plan to maintain, increase or decrease UK R&D activity specific to HealthTech in the next 5 years?





### **Disparity in innovation lifecycle**

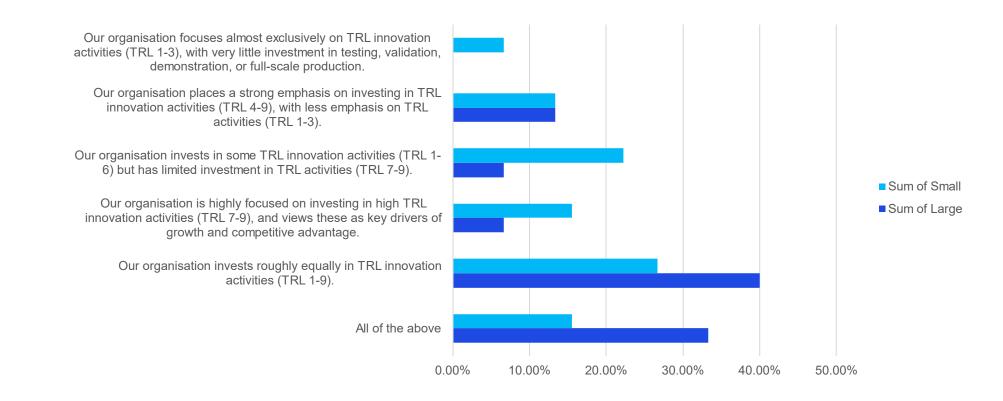
**Figure 2.6:** Please indicate the R&D activities that your organisation engages in the UK and overseas specific to HealthTech







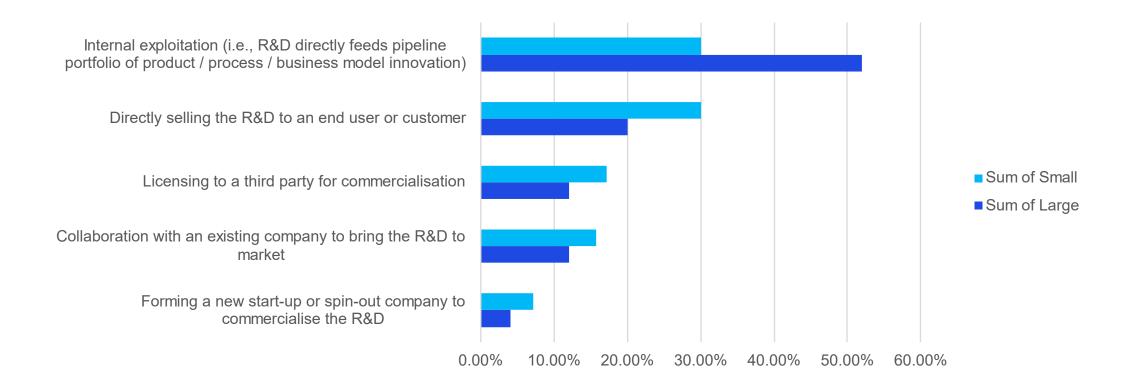
**Figure 2.8:** Which of the following best describes your organisation's investment in R&D activities specific to HealthTech across the range of Technology Readiness Levels?





#### **Routes to commercialisation**

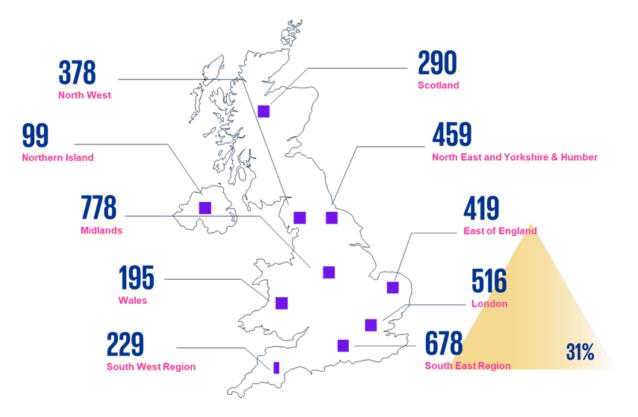
**Figure 5.5:** What methods or pathways does your organisation utilise to commercialise your R&D specific to HealthTech?





### Committed to manufacturing in the UK

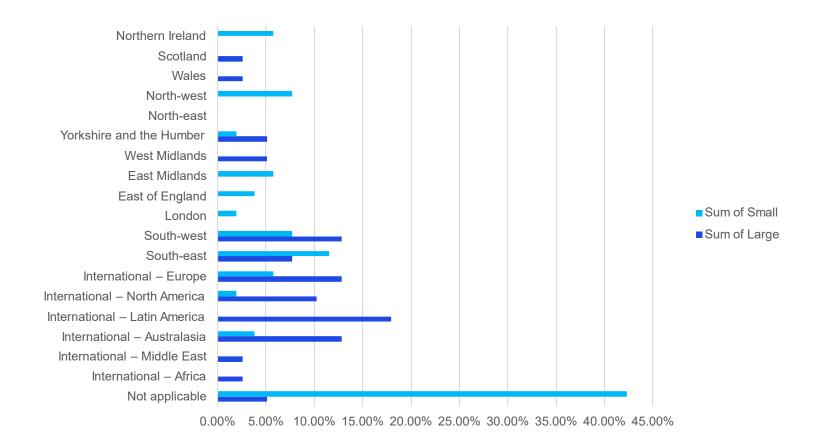
Figure 3.1: Numbers of HealthTech manufacturers in 2020





### Committed to manufacturing in the UK

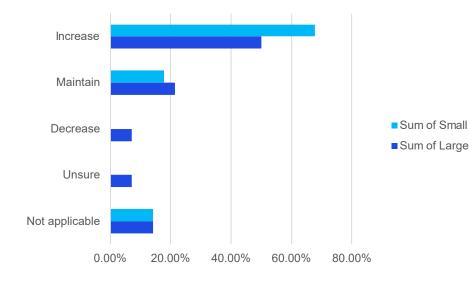
Figure 3.6: Where is your organisation's manufacturing activity located specific to HealthTech?





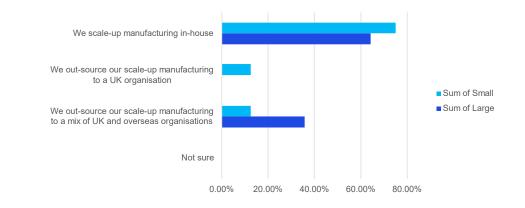
### Committed to manufacturing in the UK

**Figure 3.7:** Do you plan to maintain, increase, or decrease the level of UK-based manufacturing activity in the next 5 years specific to HealthTech?



**Figure 3.8:** How does your organisation scaleup\* its manufacturing activity?

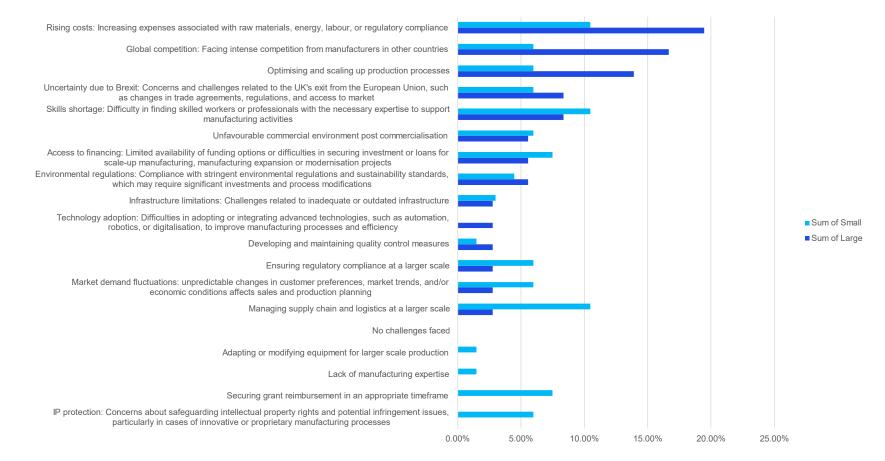
\* taking a manufacturing process from pilot scale to a scale at which it is commercially feasible





#### **Challenges in scaling-up manufacturing**

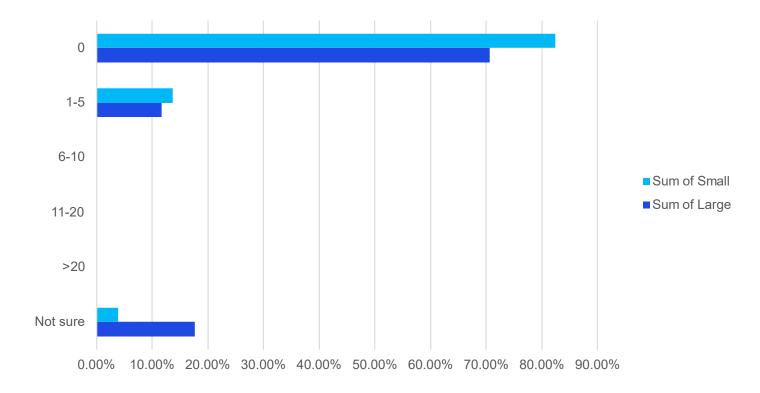
#### **Figure 3.9:** For those that manufacture, what are the top 3 challenges your business faces when scaling up from R&D to production manufacturing specific to HealthTech?





### Grant funding for manufacturing / production

**Figure 4.7:** How many UK-based manufacturing / production grant applications have been submitted in the past 24 months specific to HealthTech?





#### **Reliance on public funding by SMEs**

**Figure 4.2:** Which types of government funding has your UK organisation accessed in the past 24 months, specifically related to R&D and/or manufacturing within HealthTech?

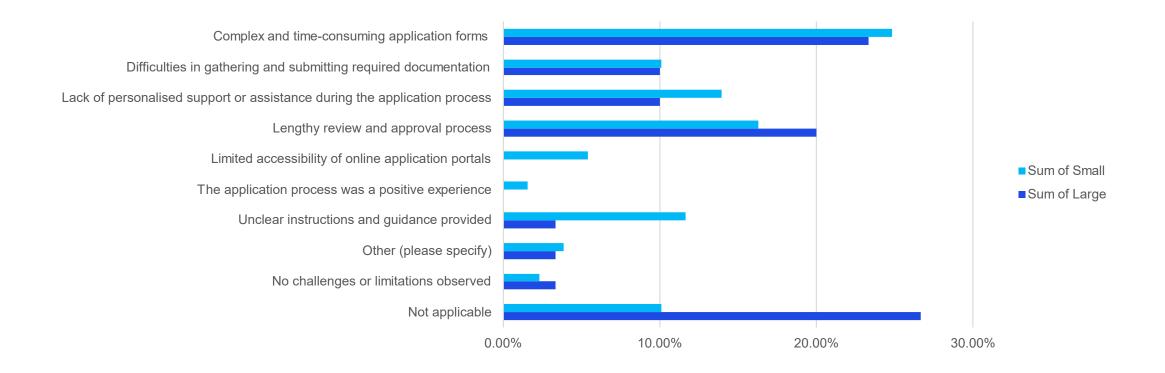
**Figure 4.3:** Which types of government funding does your UK organisation plan on applying to in the next 24 months (specifically related to R&D and/or manufacturing within HealthTech)?





### **Challenges of applying for public funding**

**Figure 4.4:** If you have applied for government grants, have you encountered any of the following challenges during the application process?



#### **Private funding for HealthTech**

#### Private sector funding challenges in UK HealthTech

- Lack of private capital leading to acquisition of smaller HealthTech businesses by larger entities.
- Limited private market interest in funding R&D, with concerns over the absence of guaranteed reimbursement for effective and cost-efficient products.

#### Navigating investment and regulatory environment

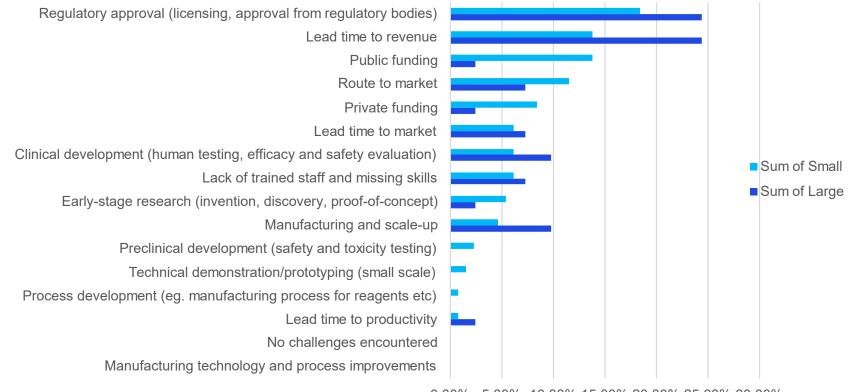
- Difficulties in navigating investment rounds in a challenging global financial climate.
- Importance of a favourable tax, legal, and regulatory framework to sustain the UK's position as a leading investment hub for HealthTech, as underscored by Lord Harrington's Review.



## 3.4 Barriers to growth

### **Regulatory approvals present a barrier to innovation**

#### Figure 2.9: What are the top 3 challenges your businesses faces in its R&D activity specific to HealthTech?



0.00% 5.00% 10.00% 15.00% 20.00% 25.00% 30.00%



#### **NHS procurement policies**

#### **Opportunities and challenges with NHS procurement**

• The NHS's approach to reducing supplier numbers for cost savings and economies of scale may inhibit innovation and restrict smaller HealthTech businesses' market access

#### Adopting innovative technologies

• Current focus on short-term cost savings in NHS procurement processes potentially delays the adoption of innovative technologies that promise significant long-term benefits and cost savings

#### Strategic overhaul for sector development

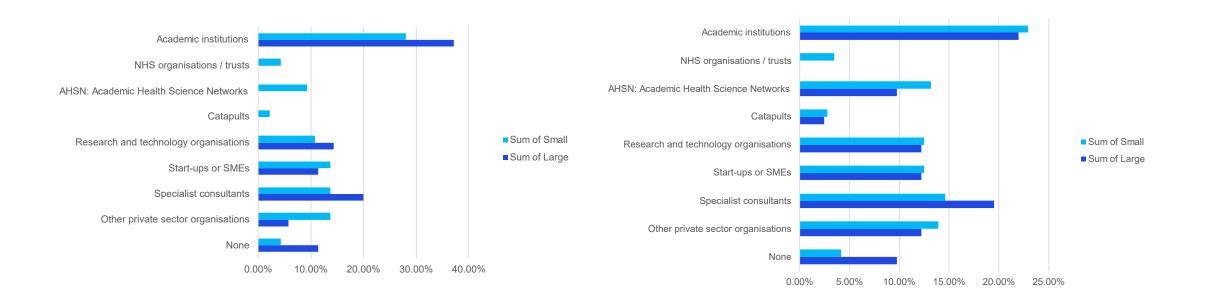
• Emphasising value-based purchasing and fostering practices that encourage innovation within NHS procurement strategies is crucial for the advancement of the HealthTech sector



#### **Collaboration to address skills shortages**

**Figure 2.10:** Which of the following organisations have you collaborated or partnered with on an R&D project / initiative in the past 2 years?

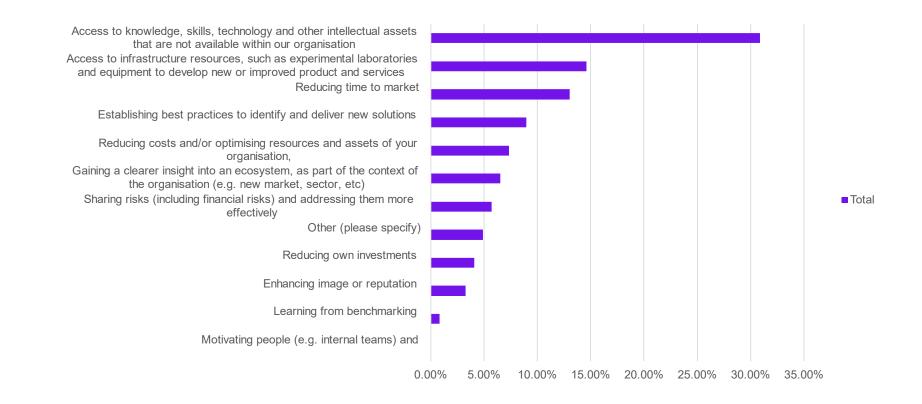
**Figure 2.11:** Which of the following organisations do you plan on partnering or collaborating with in the next 24 months?





#### **Collaboration to address skills shortages**

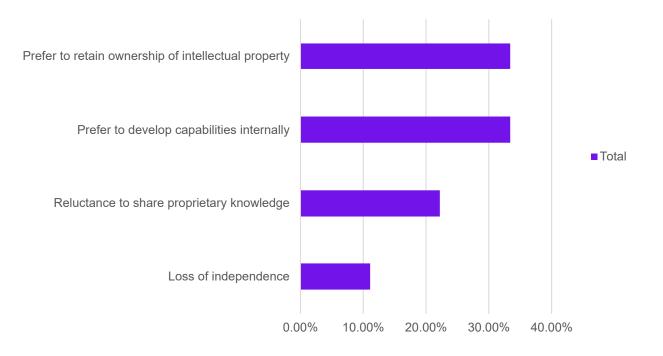
**Figure 2.12**: If you have partnered or collaborated (or plan to in the next 24 months) with one or more external organisation(s), select up to top 3 reasons for doing so





### **Concerns over IP prohibit collaboration**

**Figure 2.13:** If you have not partnered or collaborated (or plan not to in the next 24 months) with any external organisation(s), please explain why?

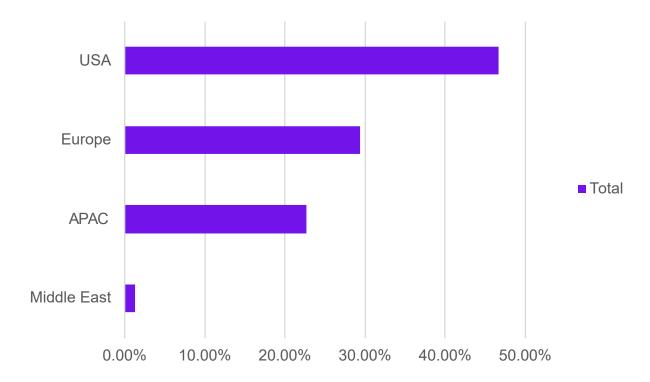


### 3.5

### International benchmarking

#### International competitiveness

**Figure 6.1:** Which geography would you describe as the UK's main competitor when for HealthTech R&D / manufacturing organisations?





## 04 Recommendations

**Dan Burton – KPMG** 



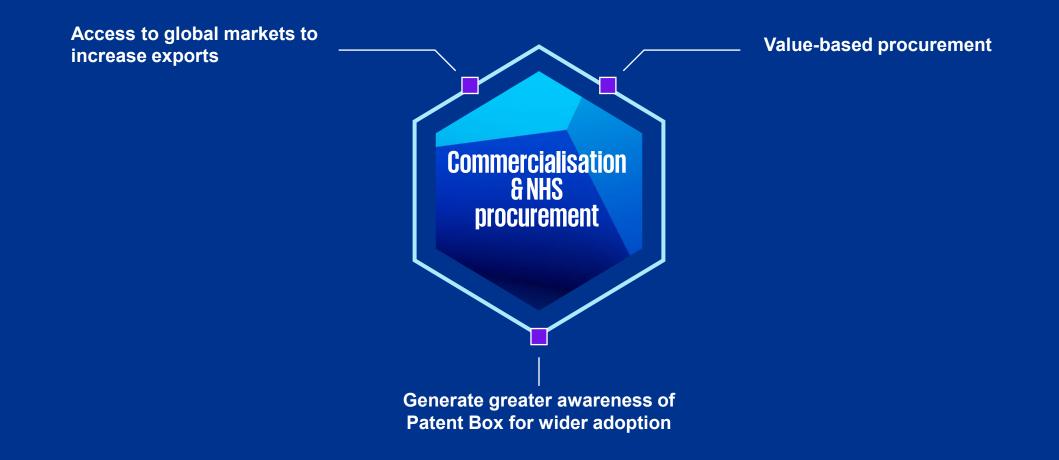












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# 05 Current funding opportunities

**Dan Burton – KPMG** 

	Tackling Health inequalities	Investor Partnerships in HealthTech	Invention for Innovation (i4i)
Funder	WYCA	Innovate UK	NIHR
Value	£120,000	£1,400,000	£150,000
Deadline	7th May 2025	9th April 2025	None specified
Who can apply	<ul> <li>UK-registered SMEs with a substantial operational presence in West Yorkshire.</li> <li>Includes alternative business models and charities undertaking economic activity.</li> <li>Single organisations or consortia (must all individually meet eligibility criteria).</li> <li>Consortium must nominate one organisation as the lead entrant.</li> </ul>	<ul> <li>Single applicants only.</li> <li>UK-registered micro or SME.</li> <li>Be growing their innovation activities in the health technology cluster in West Yorkshire.</li> <li>Carry out all its project work in the UK.</li> <li>Have been invited to apply by an investor from Innovate UK's pool of investor partners.</li> </ul>	<ul> <li>Lead must be located in the UK.</li> <li>SMEs.</li> <li>NHS organisations (including NHS Trusts and NHS Foundation Trusts), and equivalent UK authorities.</li> <li>Higher education institutions (including universities and research institutes).</li> <li>Not-for-profit organisations (including charities and Community Interest Companies).</li> </ul>
About	<ul> <li>Grants and support to accelerate the development of innovative solutions, products or services that address health inequalities in West Yorkshire communities.</li> <li>Solutions that tackle issues across different domains, including food, the environment, community engagement and healthcare access</li> </ul>	<ul> <li>Grant funding for projects that grow their innovation activities in the health technology cluster in West Yorkshire, alongside private investment from selected investor partners.</li> </ul>	<ul> <li>Supports R&amp;D of digital health technologies, medical devices, active implantable devices and in vitro diagnostic devices to a point where they are de-risked for follow-on investment.</li> </ul>



	LSIMF: EOI	Health Technology Assessment	Public Health Research
Funder	DSIT	NIHR	NIHR
Value	Discretionary	Discretionary	Discretionary
Deadline	None specified	None specified	None specified
Who can apply	<ul> <li>UK registered private sector businesses.</li> <li>Investing in life sciences manufacturing projects in the UK.</li> <li>Must be a product developer, contract development manufacturing organisation, or a generics manufacturer.</li> <li>Primarily a capital investment.</li> <li>A single company investment</li> <li>Manufacturing project for: human medicines; medical diagnostics; MedTech products</li> </ul>	<ul> <li>Organisations that can carry out high-quality health-related research.</li> <li>Include &gt;2 partners: industry, academia, and the NHS.</li> <li>Collaboration with SMEs encouraged.</li> <li>Charity partnerships are welcome.</li> <li>Applications are accepted from within the UK.</li> <li>Can address any health issue or problem.</li> </ul>	<ul> <li>Researchers in England, Scotland, Wales and Northern Ireland.</li> <li>It is expected that applicants will collaborate, where appropriate, with partner organisations, such as local government and voluntary organisations.</li> <li>Evidence of public involvement will be sought.</li> </ul>
About	<ul> <li>To increase UK health resilience by strengthening the UK's manufacturing capacity and capability.</li> <li>To create economic opportunity through investments that will make a substantial contribution to GVA and provide high-wage, high-skilled jobs around the UK.</li> </ul>	• Financial assistance to conduct research in the UK that assess the effectiveness of different healthcare treatments and tests for those who plan, provide or receive care from NHS and social care services.	<ul> <li>Funding available to support public health research projects.</li> <li>Research is funded through two routes: commissioned and researcher-led work streams.</li> </ul>

	Canada-UK collaborative R&D	UK Innovation & Science Seed Fund	Innovation Loas Future Economy
Funder	Innovate UK	Midven (Future Planet Capital) / DSIT	Innovate UK
Value	£300,000	£100,000-£500,000 // £1,500,000	£2,000,000
Deadline	16 April 2025	None specified	7 <sup>th</sup> May 2025
Who can apply	<ul> <li>UK and Canadian collaborations only.</li> <li>UK registered business of any size.</li> <li>Collaborations must involve at least one grant claiming UK registered SME and one eligible Canadian incorporated, profit orientated SME.</li> <li>UK lead can be UK registered: <ul> <li>Business of any size</li> <li>Academic institution</li> <li>Charity</li> <li>Not for profit</li> <li>Public sector organisation</li> <li>Research and technology organisation</li> </ul> </li> </ul>	<ul> <li>Deep tech companies are the target. This includes start-ups whose business model is based on high tech innovation in engineering, or significant scientific advances.</li> <li>Must fulfil one of the following:</li> <li>Be based at one a specified research campus.</li> <li>Be working in a strategic priority area engineering biology.</li> <li>The innovation is based on IP associated with one of a specified list of partners.</li> </ul>	UK registered SME carrying out a project from or in the UK.
About	<ul> <li>Grants to collaborate with Canadian SMEs on joint R&amp;D projects.</li> </ul>	<ul> <li>Invest in UK innovators who are facilitating sustainable growth, enhancing the health and security of society and delivering economic gains from the UK's publicly funded research.</li> <li>UKI2S makes equity and convertible loan investments (cheques £100,000 and £500,000). Follow-on rounds in the best-performing companies, up to £1.5 million.</li> </ul>	<ul> <li>UK registered SME businesses can apply for loans for innovative projects with strong commercial potential to significantly improve the UK economy.</li> </ul>



# 06 Open discussion

# **Defining HealthTech**

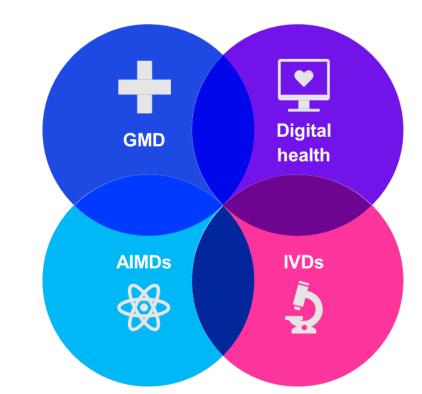
Health technologies or healthtech are broadly categorised as general medical devices (GMD), active implantable medical devices (AIMDs), in vitro diagnostic medical devices (IVDs), and digital health and software

#### **General medical devices**

Includes syringes, heart valves, dressings, ECG monitors, surgical robots, CT scanners, and dialysis machines. General medical devices also includes any software used to power them.

### Active implantable medical devices

Includes implants such as cardiac pacemakers, nerve stimulators, cochlear implants, and active monitoring devices.



#### **Digital health**

Digital health technologies encompass computing platforms, connectivity, software, data analytics and sensors when used to identify and manage health risks, diagnose or manage conditions, track health data, support clinicians in service delivery, or improve the efficiency and effectiveness of health systems. Digital health technologies include categories such as mobile health and apps, health information technology, wearable devices, telehealth and telemedicine, and personalised medicine.

### In vitro diagnostic medical devices

IVDs are equipment or systems used in vitro to examine specimens. This includes all instruments, software, reagents and calibrators, such as blood grouping reagents, pregnancy test kits and Hepatitis B test kits.

Note: The report <u>Medical Technology Strategy</u> defines medical technology industry as a combination of general medical devices, active implantable medical devices (AIMDs), IVDs and digital health and software which we have defined in this report as Healthtech Source: <u>Medical Technology Strategy</u>, accessed on 10 March 2023



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## **Get in touch**

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