

Oxford AHSN and Industry





The Oxford Academic Health Science Network is one of 15 AHSNs licensed by NHS England to deliver four key objectives:

- Focus on the needs of patients and local populations
- Speed up adoption of innovation into practice
- Build a culture of partnership and collaboration
- Create prosperity

The Oxford AHSN delivers these objectives through our programmes and themes:

- Best Care
- Clinical Innovation Adoption
- Wealth Creation
- R&D
- Patient and Public Involvement, Engagement and Experience (PPIEE), Informatics, Patient Safety



About Us

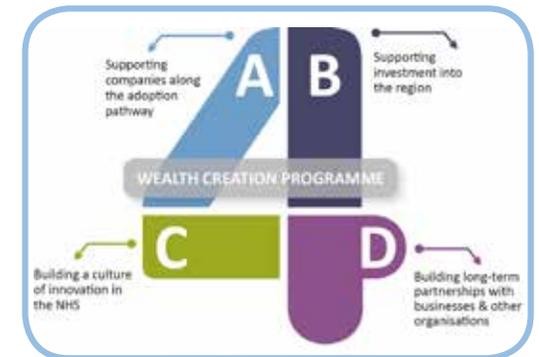
The Oxford AHSN region is a leading national and international life sciences cluster. It is home to over 640 life sciences businesses – including healthcare, medical products, pharmaceuticals, diagnostics and informatics companies.

The research and clinical assets pooled through the Oxford Academic Health Science Centre provide a deep resource for industry, with the Oxford AHSN strengthening wider regional opportunities. While industry is attracted to centres of strong R&D, this has to be linked to opportunities for early product launches in the home market to ensure competitiveness in the global market.

The role of the AHSN is to help bring together the academic, clinical and business communities through innovative partnerships. This means that the regional community – including innovators, academics, experienced entrepreneurs, clinicians, industry, investors and commissioners – has an opportunity to build greater alignment across the innovation and adoption pathway.

The wealth Creation programme

The Oxford AHSN Wealth Creation Programme is unique in that it provides the opportunity for support along the whole innovation pathway—from the origination of the idea, concept development and testing, regulatory approval through to clinical adoption.



We support wealth creation through the region in the following ways:

- Supporting companies along the adoption pathway, helping companies navigate the process
- Supporting investment into the region, to help improve local infrastructure
- Building a culture of innovation within the NHS with support like our Entrepreneurs' Programme
- Building long-term partnerships with businesses and other organisations.

Our Aim



Our aim is to help our region become the favoured location for inward life science investment, life science business creation and growth - helping the NHS to accelerate the adoption of clinical innovations bringing significant benefits to patients.

Our main work is in the following key areas:

- **Diagnostics**
- **Digital Health**
- **Medtech**
- **Pharma**
- **Sustainability**

Industry and the NHS

Industry is a key source of innovation. But understanding how a product or service concept might enhance patient care may be challenging for people outside of the NHS.

We help industry and the NHS to understand and articulate each other's needs and requirements.

- Industry learns how to access the healthcare market
- The NHS learns how to be a better customer for industry

Companies planning to bring a novel product or service to market must show clinical validity and care benefits, utility, and cost effectiveness before clinicians, healthcare providers or purchasers will consider

adoption into practice.

Your innovation gets the best chance of adoption into clinical practice, bringing novel healthcare products or services to market sooner.

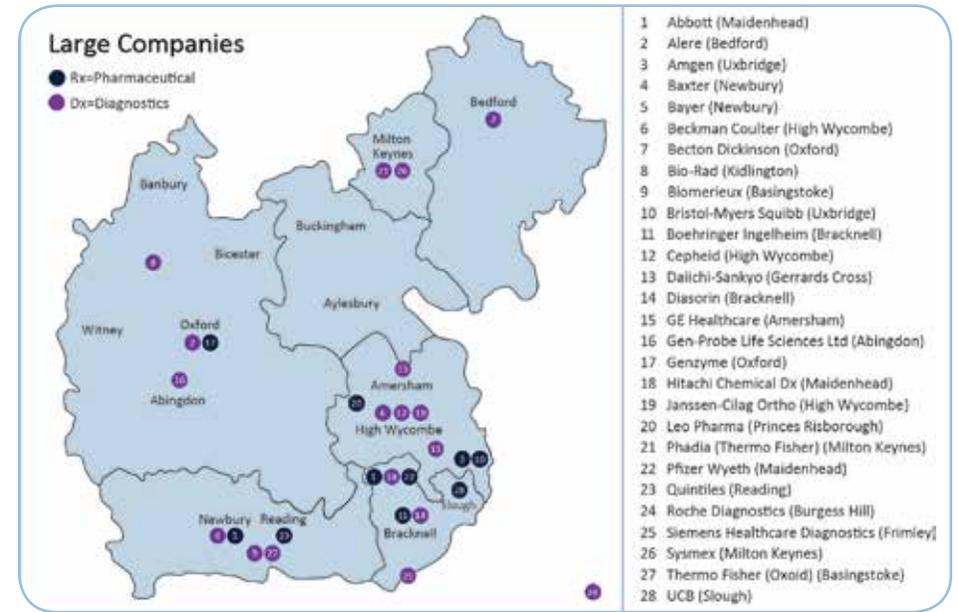
Supporting companies along the Innovation Pathway

The Oxford AHSN is working to create the conditions and opportunities for companies to grow and access the home market for revenue generation. We aim to work with our partners to find ways to accelerate the pace of innovation, and its adoption within the NHS. Cost effectiveness, and the creation of patient-centred integrated care pathways are the two main areas of development over the coming years, in line with the NHS Five Year Forward View and the Accelerated Access Review.

The Oxford AHSN aims to act as a guide around the local infrastructure, allowing companies to make the most of the resources available, including:

- Business advice from the Local Enterprise Partnerships (LEP)
- Advice on funding and research grant application support, including SBRI applications
- General advice on intellectual property
- Access to clinical trial units
- Signposting to office space and research facilities
- Access to disease-area experts
- Support in navigating the NHS
- Access to health economists to support the creation of business cases for innovations.

Focus on diagnostics



The diagnostics industry is currently undergoing some profound changes, influenced by a number of powerful forces.

- The development of new biomarkers for the stratification of diseases and patient populations
- The increasing use of genomics and other “-omics” technologies and their linkage with new algorithms for determining disease correlations.
- Changes in the delivery of care pathways in the NHS in line with the NHS Five Year Forward View and in particular new opportunities in point-of-care testing and other rapid methods of diagnostic analysis.
- A recognition that early recognition and diagnosis of diseases can reduce pathway costs
- New approaches to diagnostic images.

As well as these challenges, diagnostics companies within the UK also have to look at new ways of defining the value of any new diagnostic tool within changing care pathways, overcoming barriers to adoption within the NHS and the changes in regulation expected in the summer of 2016.

The Oxford AHSN region has significant strengths in diagnostics, being home to around 20 global companies, and over 50 SMEs.

These are supported by the region's strengths in the research and clinical space, which helps provide the facilities and skills needed for industry engagement and the opportunity to build a strong, vibrant diagnostics cluster in the region.

Focus on digital health

Digital health is a fast developing area. It encompasses a range of inter-related innovations, which can be broadly defined as:

- Interactive health apps for mobile devices
- Electronic health records
- Mining large datasets for information
- Telecare and telehealth
- Healthcare logistics (i.e. prescribing)

With over 400 stakeholder companies and organisations focused on digital health the Oxford AHSN region is rich enough to be classed as a digital health cluster.

Regional strengths include:

- Experience in genomics and big data, with a new Big Data Institute founded in 2015
- A concentration of large IT companies

- World leading centres for medical research, mathematics and computer technology at the University of Oxford
- International reputation for biomedical engineering.

These strengths have made Oxford AHSN a prime test bed location for the oncoming digital revolution within the NHS.

This is in line with the NHS Five Year Forward View, and the challenge to make the NHS paper-free at the point of care, and to integrate all available patient records across primary, acute and social care.

We are now looking at ways of working towards these goals with our local digital innovators.



Who we work with

Members of our Wealth Creation programme work directly with companies, the NHS, our Local Enterprise Partnerships, universities and investors.

Our partners also include the Association of the British Pharmaceutical Industry (ABPI), Association of British Healthcare Industries (ABHI), British In-Vitro Diagnostics Association (BIVDA) and the industry network. OBN represent the interests of our industry partners on the Oxford AHSN Partnership Board.



We are building a culture of innovation in the NHS and developing long-term partnerships with businesses, especially the pharmaceutical, diagnostic, medtech and digital sectors of the life sciences industry. A pipeline of innovations for commercialisation has been established with many projects already under way.

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