

OXFORD & THE THAMES VALLEY

a favoured location for life science inward investment

The ideal location for business growth

- **Enviably geography** close to the heart of the UK, an hour from London and Heathrow airport
- **Highly skilled labour force** with a higher proportion of graduates than any other English county
- **Unique grouping of big science and research facilities** including: *UK Atomic Energy Authority Culham Centre for Fusion Energy; Science and Technology Facilities Council's Rutherford Appleton Laboratory; Diamond Light Source, the national synchrotron facility; the Medical Research Council's Harwell facilities; and the Satellite Applications Catapult Centre*
- **Technology cluster with outstanding strengths in four overlapping technologies:** bioscience/medtech/pharmaceuticals; instruments, magnets; engineering, electronics, motor sport; and telecoms, computer hardware and software
- **Around 1,500 high tech companies**, many focusing on R&D across a range of technologies employing over 43,000 people

Healthcare industry statistics

- Arguably the **largest life science cluster in Europe**
- **Top UK cluster for funds raised** 2014; \$221m in venture financing and \$485m on public markets
- T-cell pioneer **Immunocore** raised \$320m in global industry's second largest venture round (July 2015)
- Four c.\$1bn market cap life science companies
- **Over 620 life science companies**, majority SMEs
- 10 large pharma; 79 CMO/CROs; 110 therapeutics discovery/development; 116 associated industries; 200 medtech

Second to none in academic excellence

- **University of Oxford** – UK's No. 1 for quality of research. No. 1 in *Times Higher Education* 2013-2014 world university rankings for pre-clinical and health
- **University of Reading** – ranked in the top 1% of global universities
- **Five business schools** including UK No. 2 ranked *Henley Business School*
- **Vibrant modern universities** (*Oxford Brookes, Buckingham and Bucks New, Cranfield, Bedfordshire, West London, Open*) majoring in technology and healthcare professional training
- **New** *University of Buckingham Medical School*

Strength in diagnostics

- **79** diagnostic companies (April 2015)
- **61** SMEs
- **18** global diagnostic companies command 83% world market share
- *Oxford AHSN Diagnostics Industry Advisory Council* supporting industry-NHS collaboration
- **£736 million** invested in 182 companies (2011-14), including UK-leading £200m *Circassia IPO*

Best in class precision medicine

- **Oxford Nanopore:** accurate bedside genotyping using transformative sequencing technology
- **Genomics Ltd:** leading UK SME in large genomic data set analysis from whole genome sequencing



A world-ranking university

- Oxford is in the **top five** of the world's leading universities
- *Medical Sciences Division* amongst the largest in Europe
- At the forefront of UK's multi-disciplinary institutions
- Manages one of the largest UK clinical trials portfolios
- Recognised expertise in taking discoveries from laboratory to clinic
- Generated highest number of university spinouts in three years (2010 to 2012)

National capabilities pioneered in Oxford

- Commitment to developing national capabilities to benefit country's research community
- Inclusive member or coordinator of programmes including:
 - **Genomics England:** whole genome sequencing to determine genetic basis for rare diseases
 - **UK Biobank:** health data from 500,000 people aged 46-69 years 2006-2010
 - **NIHR Biomedical Research Centres:** improving translation of basic science to clinical benefits
 - **Dementias Platform UK:** public-private partnership to accelerate progress in research
 - **Diamond Light Source:** harnessing the power of electrons to study new medicines, treatments for disease, innovative engineering and cutting-edge technology

Leaders in cancer research

- **One of only three major Cancer Research UK centres.** Ranked first among the total 21 centres by an international panel of leading cancer experts
- **First multi-gene DNA sequencing test** predicting cancer patients' responses to treatment developed here and launched in the NHS
- **Genomic Medicine Centre** designated for cancer and rare disease
- **UK's first proton beam therapy research facility** planned here

Leaders in imaging

- Functional magnetic resonance imaging (fMRI) programme with UK's only 7T magnet
- Companies range in size from Siemens to SMEs including:
 - **Perspectum Diagnostics:** novel MRI technologies for non-invasively measuring liver fibrosis
 - **Mirada Technologies and Acuitas Medical:** image analysis
 - **IP around iron based MRI signals** to localise individual molecular targets in specific tissues

About us

Oxford Academic Health Science Network

One of 15 national *Academic Health Science Networks* (AHSNs), Oxford AHSN serves a population of 3.3 million across Oxfordshire and the Thames Valley, including Berkshire, Bedfordshire, Milton Keynes and Buckinghamshire.

Our remit is to engage the region's NHS, industry and universities to:

- Improve health and generate economic growth in our region
- Accelerate uptake of proven healthcare technologies and services
- Stimulate business growth and the demand for innovation

www.oxfordahsn.org

