



Oxford and 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
- **University of Oxford No 1 in world university rankings**
- **Unique grouping of big science and research facilities**
 - [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](#)
 - [Satellite Applications Catapult Centre](#)
 - [European Centre for Space Applications and Telecommunications](#)
- **Technology cluster with outstanding strengths in five overlapping technologies;**
 - Life sciences and healthcare
 - Space and satellite applications
 - Advanced engineering, electronics and materials including Formula 1
 - Energy and environment
 - Big data and supercomputing
- **Around 1,500 high tech companies**, many focusing on R&D across a range of technologies employing over 46,000 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
 - 2015: \$1,042m raised with \$381m in venture financing and \$646 on public markets; represents over 43% of total UK fundraising
- T-cell pioneer *Immunocore* raised \$320m in global industry's second largest venture round (July 2015)
- Largest presence in patient capital (over £1.2bn in funds)
 - Woodford Patient Capital Trust, which has raised over £850m
 - Oxford Sciences Innovation is the largest University IP commercialisation investment vehicles with over £350m
- Three c.\$1bn market cap life science companies

Wealth Creation



- **Over 640 life science companies**, majority SMEs
- 10 large pharma; 79 CMO/CROs; 110 therapeutics discovery/development; 116 associated industries; 200 medtech; 79 diagnostics
- **Oxford University Innovation** spun-out 18 new life science companies in the last year

Second to none in academic excellence

- **University of Oxford** – UK's No. 1 for quality of research. No.1 in *Times Higher Education* 2016 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 across all life science and health

- **Pharma** – 110 companies, including broad grouping of global players
- **Medtech** – 200 companies, including large corporates and SMEs
- **Diagnostics** - 18 global diagnostic companies command 83% world market share
- **Digital health** – over 400 organisations including companies and academic institutions involved in digital health innovation

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 **No 1** of the world's leading universities
- *Medical Sciences Division* amongst the largest in Europe
- At the forefront of UK's multi-disciplinary institutions
- NIHR Oxford Biomedical Research Centre will receive £113.7m to conduct 'world-leading' medical research in cancer, diabetes, genetics, neurology and surgery
- An additional £12.8m awarded to Oxford Health NHS Foundation Trust for a new research centre dedicated to translating innovative research into better treatments for mental health disorders and dementia
- Manages one of the largest UK clinical trials portfolios
- Recognised expertise in taking discoveries from laboratory to clinic,



- including the pioneering *Structural Genomics Consortium* (needs link)
- 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
 - *Big Data Institute*: analysis of large, heterogeneous data sets for research into causes and consequences, prevention and treatment of disease.

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

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