SQW

Triple Helix in a spatial perspective: Perspectives from Oxford and Cambridge

Christine Doel, SQW

Our evidence base

- "Cambridge Cluster at 50: the Cambridge economy in retrospect and prospect"
 - Commissioned by EEDA and partners, completed in 2011 by SQW
 - Based on in-depth consultations with local high tech firms, a review of secondary data, consultations with local stakeholders
 - Available at <u>http://www.sqw.co.uk/file_download/284</u>
- "Oxfordshire high tech cluster study" (working title)
 - Commissioned by the University of Oxford and Oxford Trust
 - Based on in-depth consultations with local high tech firms and a wider high tech firms survey, a review of secondary data, consultations with local stakeholders
 - On-going, although nearing completion to be published in the Autumn



1

Oxford and Cambridge both have substantial – and evolving – knowledge-based ecosystems

	Oxford/shire	Cambridge and sub-region
HEIs	University of OxfordOxford Brookes University	University of CambridgeAnglia Ruskin University
Research institutes	 Harwell Science and Innovation Campus – Rutherford Appleton Laboratory Culham Centre for Fusion Energy 	 MRC's Laboratory of Molecular Biology The Genome Campus – Wellcome Trust Sanger Institute Babraham Research Institute
Specialist tech-based sectors	BioscienceCyrogenics / instrumentsSpace-related	BioscienceIT/digital
Specialist "soft" infrastructure	 OBN Oxford Investment Opportunity Network (OION) 	 Cambridge Angels and some VC provision Cambridge Network
Specialist "hard" infrastructure	 Oxford Science Park Magdalen Science Park Begbroke Science Park 	 St John's Innovation Centre Cambridge Science Park Cambridge Biomedical Campus
High tech economy	 c. 20,000 high tech jobs (6.2% of total) 	 c. 30,700 high tech jobs (8.7% of total)



Evolving business models at the heart of the Triple Helix...

- Traditional sectoral boundaries are increasingly unhelpful...
- Business "models" are becoming more complex, differentiated and fluid...



 ...with implications for the relationship to "place" and "space"

Geography matters



Geography matters

In Cambridge, many tech-based firms want a "citycentre" location:

- West
 Cambridge and SJIC/CSP are
 "a very long way apart",
 and
 Addenbrooke's
 is also "very remote"
- proximity to London is very important for many firms



Some high profile responses: Microsoft

- Microsoft occupied a major, purpose-built, R&D facility within West Cambridge, next door to the Computer Laboratory
- But it chose to relocate within Cambridge...
- ...to Station Road, part of CB1
- Why?
 - better access to London
 - staff prefer "town centre location"
 - more space

Microsoft's current facility within West Cambridge



New Microsoft building, on Station Road, within CB1



6

Politics and spatial responses to growth have changed in Cambridge

- In the late 1990s/early 2000s:
 - "Cambridge is full"
 - Spatial policy was one of dispersal
- Since 2003:
 - Development of a new Spatial Plan and a review of Green Belt boundaries, allowing Cambridge to grow
 - Investment for growth particularly the new £180m Cambridgeshire Guided Busway which opened in 2011
 - > will it change perceptions of distance within Cambridge?
 - Announcement of AstraZeneca's relocation to the Cambridge Biomedical Campus in the south of the city
 - > part of a major development of biomedical R&D and new housing, much of it on land that was previously Green Belt
 - Inked to the railway station and city centre by the Cambridgeshire Guided Busway

Implications for high tech cluster growth

- Cambridge has allowed three geographies to continue to function: *all three are crucial for high tech growth*
 - within cycling distance
 - within an hour of Cambridge (including London)
 - anywhere around the globe
- As business models become more "networked" and "permeable", "flexing" these spatial "layers" through spatial planning will be a catalyst for economic growth
- For Oxford/shire, the same debate is underway, but
 - politically difficult
 - > now very challenging in relation to infrastructure investment
- The future of knowledge hubs depends on
 - "getting the spatial plan right"
 - investing in infrastructure to help make it happen

Contact

Christine Doel

Director

SQW

- t. 01223 209400
- e. cmdoel@sqw.co.uk
- w. <u>www.sqw.co.uk</u>

