

The Greater South East

No Science City - No Problem?

(The State of the Knowledge / Innovation Economy of the GSE

An exploration in the Dark)

Nicholas Miles

GHK Ltd and Miles Strategic Consulting Ltd

LSE

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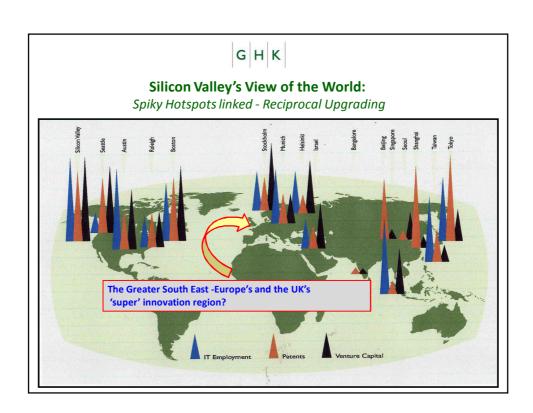


Structure of the Presentation

- Importance of the 'Region' in the Innovation Economy
- Importance of the GSE to the UK's Innovation Economy
- Challenges facing the GSE
- Possible Solutions:
 - Focus on Innovation Industrial platforms
 - Governance what is needed to respond to the way the KE / innovation economy operates today / tomorrow? - Platform Governance
 - Examples from Europe
 - Suggestions for the GSE

(City) Regions are Powerful Players in the Innovation Economy

- Complexity of innovation too great for any one player, firm or city.
- City Regions of 4-8-10 million:
 - Large enough to build an innovation ecosystem (range of innovation assets; agglomeration effects; diversity; natural home of open innovation.)
 - Large enough to be connected globally (effective channels to markets; enabling firm to go to scale)
 - Large enough to allow players to respond to the imperatives of the Innovation economy – (e.g. networking, collaboration, open innovation, trans-disciplinary research and economic activity, creativity)
 - Yet Small enough for communality of sentiment
 - Yet Small enough for effective governance?



GSE-Super Region



• Conflicting views:

- GOOD: Keep the Goose Fat Martin Wolf (FT)
- BAD: A Pestilence and a Plague Profs Amen and Massey
- INDIFFERENT: 'they're rich enough; they don't need a science city' (PM 'overheard'?)

But - as you know:

- 21 million people, some 35% of the population of the UK.
- 42% + of UK GDP; the 10th largest economy in the world (just behind Canada).
- Attracts some 60% of all UK private R&D investment.
- 70% of UK venture capital investment (and UK VC tops the European league)
- Accounts for around 46% of the UK's VAT registered businesses.
- Home to 71 of the UK's 131 Higher Education Institutions, with 4 in the world's top ten, and
- Has the highest concentration of Knowledge-Intensive Business Services (KIBS) .
- Home to Europe's largest clusters of biotechnology and health care companies.
- Leading financial centre (still) and centre of creative industries.
- The UK's 'gateway to the world'; some 60% of all container ships docking at UK ports arrive in the Greater South East, and Heathrow, Gatwick and Stansted airports dominate ATMs.

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The UK's 'super-saviour region' - the nation's economic driver; the engine of the nation; the golden goose; the nation's star region; the nation's world-class region; Europe's mega-region.......

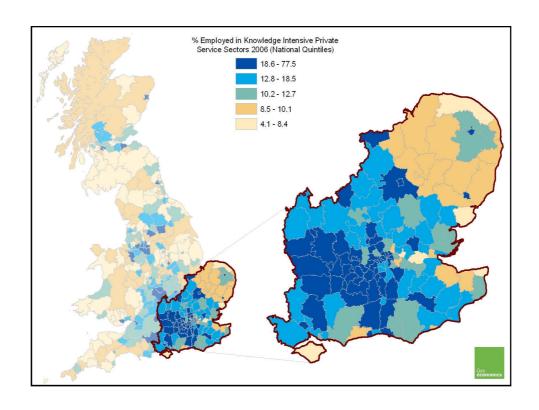


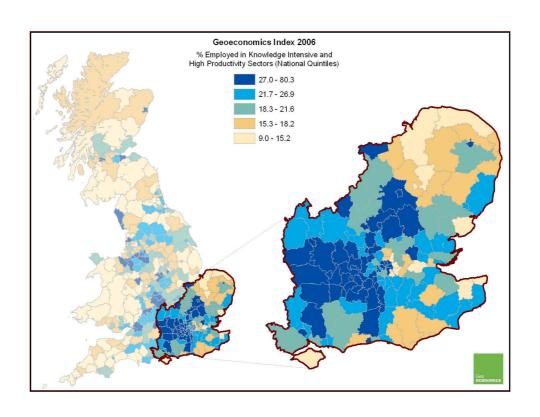


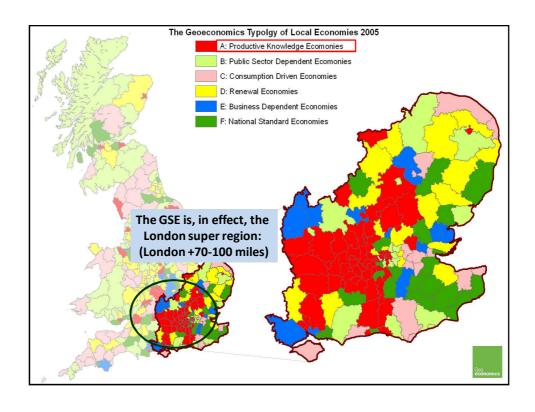
"There is no realistic prospect that our regeneration towns and cities can converge with London and the South East. There is, however, a very real prospect of encouraging significant numbers of people to move from those towns to London and the South East."

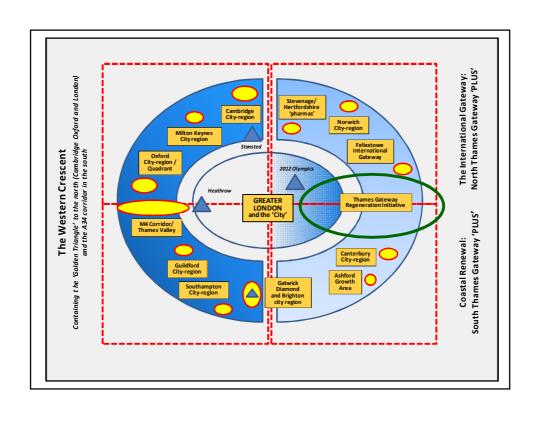
Cities Unlimited Making urban regeneration work











Drivers of Importance

Past critical success factors

- The development of an economy that could win in the global economy (WB 1976 memo).
- An economy characterised by market deregulation + 'financialisation'.
- Process far deeper and more effective in GSE than anywhere else in the UK.

1980-2006 UK growth rates outstripped those of Continental Europe. GSE companies and institutions, particularly City institutions, which were free and able to **continue to adapt** to the commercial opportunities associated with an evolving globalised economy. The GSE economy is big, brash and very important because of its adaptive structural environment.

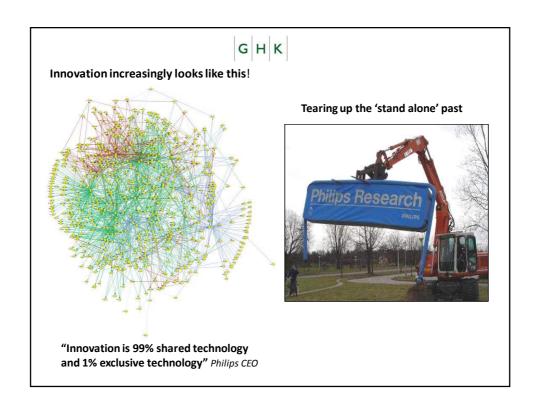
Recent disruptive processes

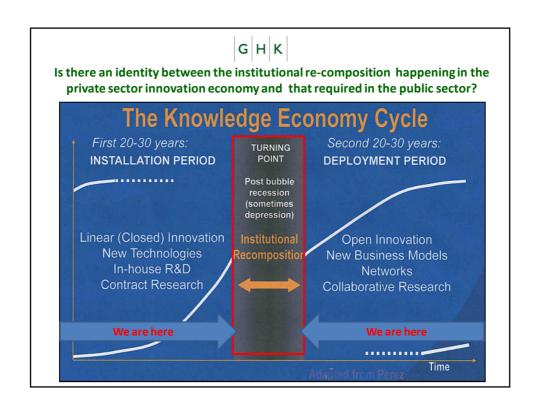
- Economy Knowledge soaked, but difficult
 - easer to invent the steam engine in your shed than clone genes
- Inter-disciplinary open innovation
 - key intersections: nano-genetics-bio-informatics etc
- Service-manufacturing fusion
 - Nokia content manager Rolls-Royce energy supplier 24/7
- Producer user blurring (use driven innovation –'crowded house')
- 'Non Linear'+ moving from the heavy metal fixation (Design London Imperial College and RCA Cranfield doing the same thing...etc). Importance of symbolic knowledge



Changes in the KE/Innovation Economy

- Rise of networked firms
 - Value networks compete NOT individual firms (rise of network hunting)
 - Innovation ecosystems compete
 - People [talent] from anywhere are located anywhere deemed the best location for the delivery of the business proposition in question
- Collaboration is increasingly the name of the Game (the world is too complicated and inter-connected for any one firm or nation to go it alone):
 - Between / amongst firms, universities, user groups......etc
 - BUT often concentrated in key city-regions / innovation 'hotspots' (why diversity and size; creative interactions; global links and channels to market – scaling assetsknowledge a 'social process' concentrated within city regions)
 - Within innovation regions (within borders -importance of ecosystem)
 - Between innovation regions (cross border)
- PLACE matters in the new geography of innovation. The World is NOT Flat it spiky and likely to get spikier! Quality of Place matters – attracts and nurtures the 'creatives'
- Business / Economic Success often f (privileged position within national /global value networks - innovation-industrial platforms)







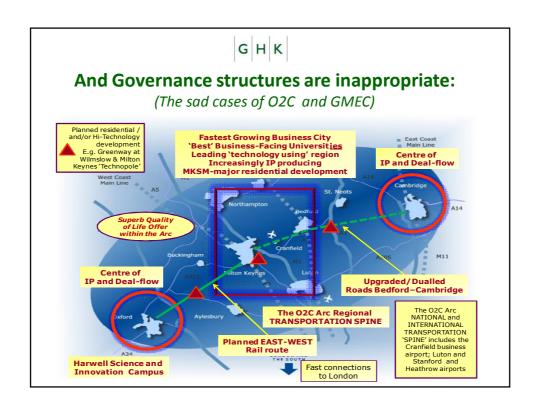
- Recession; yes, but even longer 'plays' are:
 - Rise of East (BRICs+)
 - Resilience of USA
 - Squeezing process (BRICs+ v USA) leading to (relative) decline of Europe and UK
 - Responding to the new Knowledge economy (Policies governance structure educational regimes?)

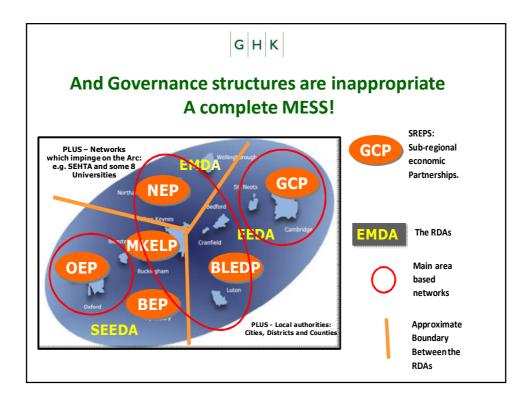
Critical mass problem

UK firms (increasingly) don't dominate leading technologies. (Plastic Logic –Vistec)

• Indicators and Signposts:

- Slipping in world rankings (UK and the GSE)
- Value capture elsewhere and 'by others' (value destruction US / other firms waiting to pounce on good ideas – aggressive defensive (and entirely rationale) business strategy)
- 80% Oxford Biotec start-ups exist to the US! (source Espire VC)
- GSE not used as best practice case studies by others (e.g. WB to Holland and Germany)
- Weighty and creaking governance
- Overheated and increasingly costly
- Physical infrastructure constraints (e.g. transportation; premises)
- Economic infrastructure constraints (e.g. skills all types)
- Conclusion: GSE Adaptive structural environment needs a revamp, not just a
 re-balance (There is momentum in the system; collapse overnight out of the question, but..........)







Possible solutions

- Promote smart niche plays within global innovationindustrial platforms
 - No need to 'out innovate and out-compete' the competition (Gordon Brown 2006). Unlikely due to critical mass problem.
- Build defensible niche positions within innovationindustrial platforms
 - Success –f (privileged position within national /global innovationindustrial platforms)
- Build an ecosystem around these positions that secure (and expand) these niche positions.
- Build a governance structure that is focused on this task.



Phil's CSFs!

- Regions with Opportunities for Combinatory Knowledge Dynamics are Advantaged
- Related Knowledge Variety' defines that Advantage
- Distributed knowledge networks in 'open innovation' platforms are key to economic well-being
- Policy at regional level should focus on supporting platforms
- Such platform policies are 'joined-up', flexible and involve 'distributed governance
- Build interactions among Clusters
- Establish 'related variety' 'aggregator' agency
- Implement 'lighthouse' projects lead markets (e.g. Solarpark; 'green' fleets; SolarMesse; 'renewable energy leader status' ICT in eco-tech; bio-ecotech demonstration projects etc.)

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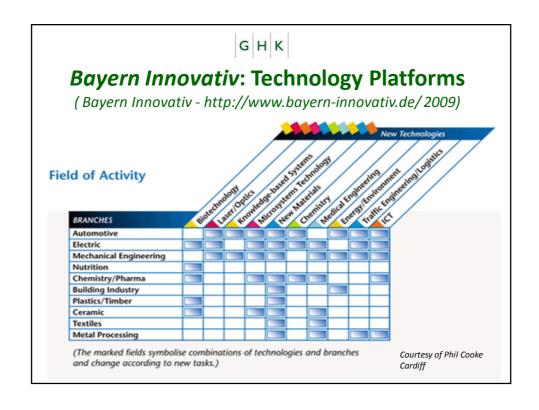


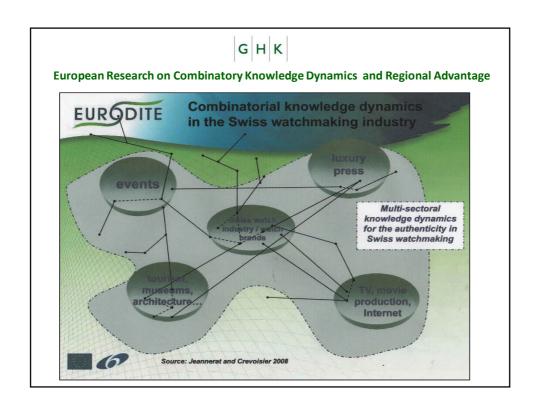


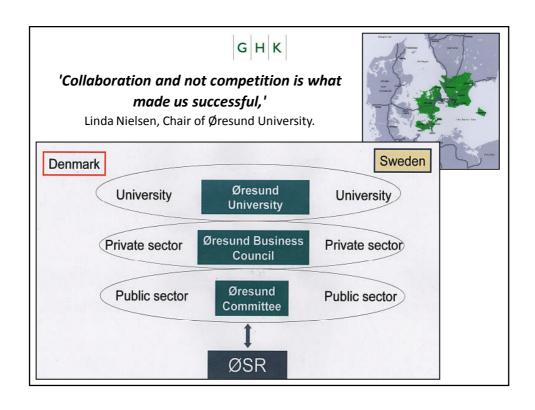
SIGNPOSTS FROM AROUND THE WORLD

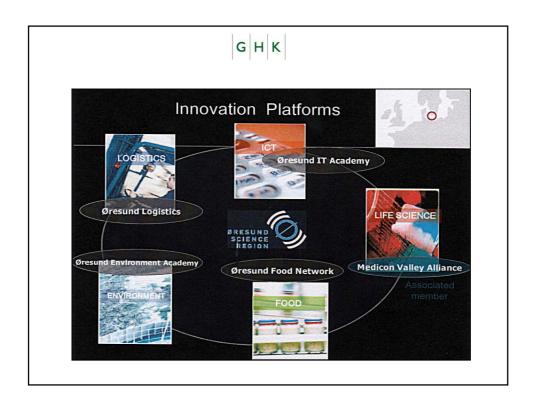




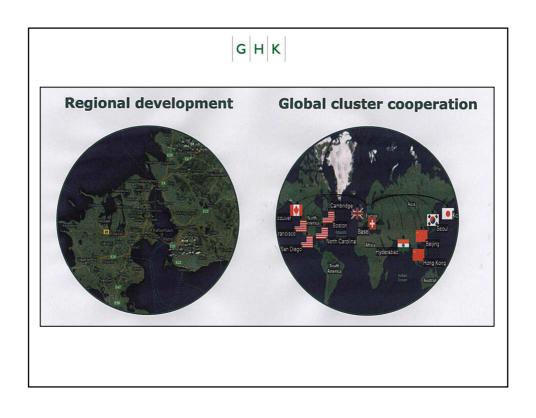


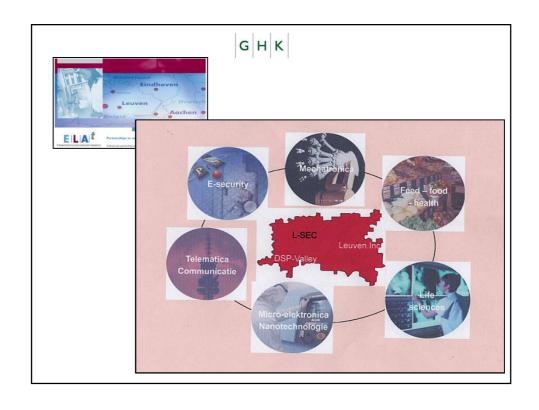




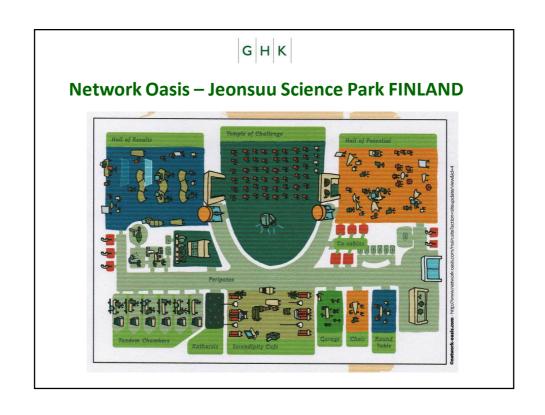


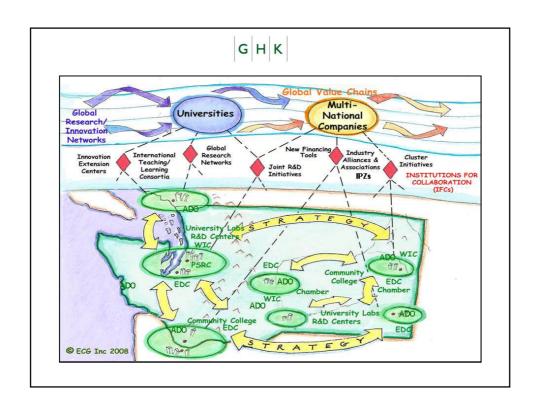












Back to the GSE

- No Science City No Problem? But needs to respond to the way the innovation economy is evolving – includes governance changes.
- Pritorise innovation platforms
 - Role of TSB RDA sector (Platform consortia)
 - Platforms cross administrative boundaries and change over time.
 - City regions important
 - MAA movable platform focused and change over time?
- Link into global platforms
- RDAs Focus on the Big Hit infrastructure interventions
- Be careful of place based and local innovation initiatives
- But a focus on local place making (quality of life) is vital)
- More important than ever before in times of economic stress
- Link into global platforms
- Need to Ground investigation into governance options in an understanding of how the regional economy is changing and positioned within the wider global arena.



