Strategically Important Subjects in Higher Education: Partnership to Improve the Skills Base of UK plc

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Strategic skills

- RDAs delivering Regional Economic Strategies
- UK plc needs from the skills base
- RDAs and HE in partnership



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RDAs' purpose

- Sustainable economic growth
- Champion for smart growth
- 5 drivers of productivity:
 - Investment, including R&D
 - Innovation
 - Enterprise
 - Skills
 - Competition, driving efficiency



What can RDAs offer?

- 10 Year Strategy for Science and Innovation – RDA role
- DTI Technology Strategy RDAs facilitating knowledge based networks
- RDA Investment in SET



RDA SET expenditure

£240m SET-related expenditure

	£million
W Midlands	37
East England	9-10
East Midlands	9
London	15
North West	39
North East	60
South East	8-10
South West	10
Yorks Humber	50



What can RDAs offer?

- Voice of business:
 - Business Links; Investor Development Managers
 - Business South East
- Innovative approaches to driving productivity:
 - Manufacturing Advisory Service
 - Enterprise Hubs
- University Centres raising potential and addressing under-performance



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UK plc needs

- An internationally competitive workforce
- Graduates with the appropriate skills for employability
- Better skilled people in under-performing areas



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Internationally competitive workforce - innovation

Proportion of enterprises with innovation activities: 1998 - 2000 All enterprises



Vorking for England's World Class Region

Internationally competitive workforce - corporate strategy anyone?

Proportion of innovation active enterprises that implemented new or significantly changed corporate strategies: 1998 - 2000 All enterprises



torking for England's World Class Region

Internationally competitive workforce - new marketing strategy?



Note: No data available for France

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Data from: CIS3



Internationally competitive workforce science & technology skills

	S&T workers as % of total employment	Researchers per 1000 employment
UK	25	б
France	29	8
Germany	34	7
USA	33	9

- UK production of PhDs comparable to others, but...
- UK bottom of leading countries in S&T intensity of workforce



Creating an internationally competitive workforce

- Curriculum development and course delivery
- Critical subjects:
 - Sustainability of departments
 - Chemistry, Modern Languages, Statistics
 - Technical skills
- Work-based learning eg technical skills for new technologies



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Skills for employability

- Lambert review greater involvement of business in course design and delivery
- Graduates often not suitably skilled for a business environment
 - project management, entrepreneurship, innovation, people skills



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Lifting skills in under-performing areas

- Low participation rates in deprived areas
- Increase progression routes through FE
- School careers and course advice
- CPD needs for teachers



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RDAs and HE in partnership - articulating demand

- Regional Skills Partnerships
- Science and Industry Councils



RDAs and HE in Partnership – examples of success

- Student demand for courses
- Curriculum development by employers
- Education-led regeneration.
- Developing entrepreneurs
- Identifying critical subject shortages
- University collaborations

1. Influencing student demand -Computer Clubs for Girls (CC4G)





2. Curriculum development by employers

- The e-Skills degree
 - Focus on IT project management
 - Designed by industry, for industry
 - Delivery by Reading, Greenwich (at University Centre, Hastings), Leeds Metropolitan, Northumbria



3. Education-led regeneration

- Widening access and increasing progression through local HE provision
- Multiversities
 - The Thames Gateway Medway, East London, Southend
 - Hastings five point plan



University Centre Hastings (UCH)

Joint Centre for Universities of Brighton, Sussex, OU and Hastings FE College





Universities at Medway



Perspective view of mezzanine





View from Parade Ground, through tunnel

Medway Campus Stage C Report



4. Developing Entrepreneurs

- Higher Education Entrepreneurship Group a forum for entrepreneurship academics, professionals and practitioners
- Great Ideas in Science and Technology (GRIST)



5. Critical Subject Shortages

- Physical sciences, particularly chemistry; statistics
- Only 4 honours chemistry departments in the SE
- RDAs can:
 - provide regional intelligence on supply and demand
 - act as advocate for regions' HEIs





6. Collaboration for Excellence

- Balancing the Southern centre of gravity -White Rose consortium
- University of Manchester merger with UMIST
- West Focus



Conclusions

- RDAs contribute to the skills agenda
- RDAs, HEIs, Government and funding bodies must work in partnership to improve competitiveness
- HEFCE's role in creating the environment for education for productivity as well as learning for its own sake.

