



Enterprise - University Partnership in Doctoral Education

How to develop generic skills: Developing awareness of skills

Knowledge Economy Skills Scholarships (KESS)

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March 1936, a worker testing the links of a giant chain in a chain works in Pontypridd, South Wales (photo by Fox Photos / Getty Images)

Where is Bangor?



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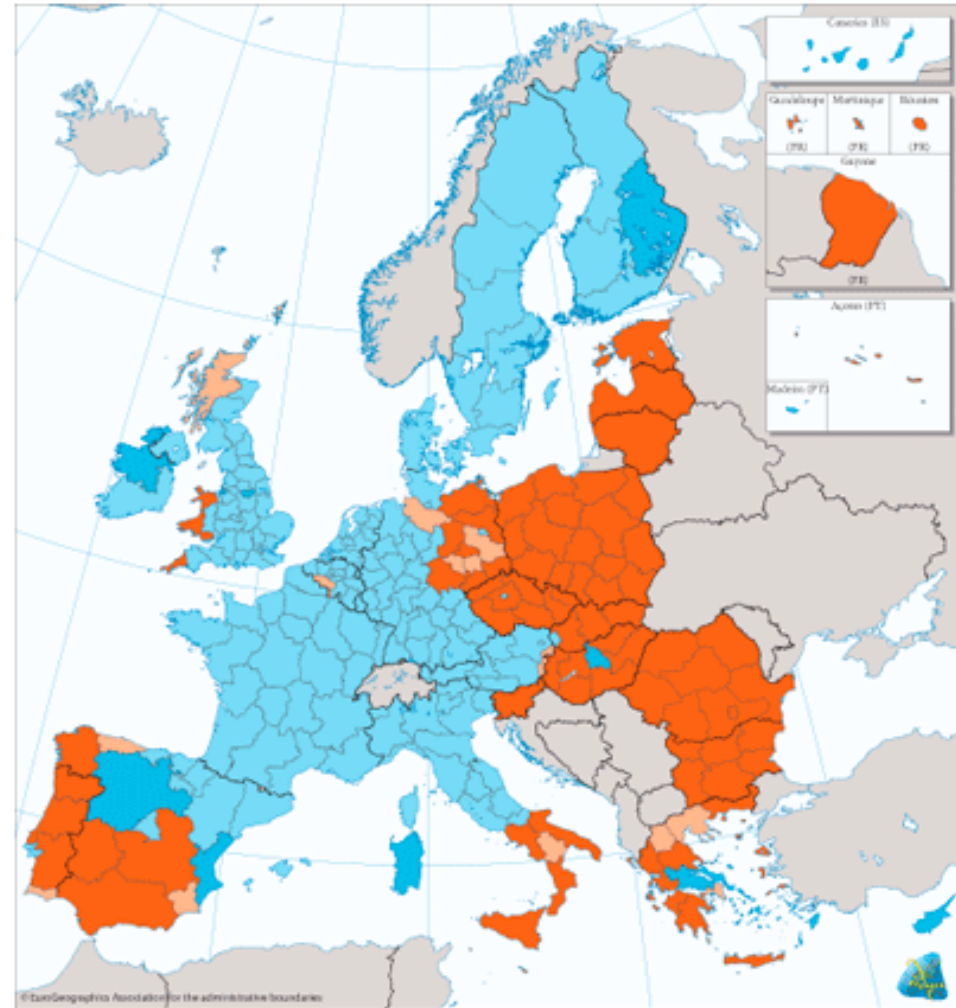


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European Structural Funds

- Convergence Funds 2007 - 2013
- Lisbon and Gothenburg Agendas
- Cross cutting themes
- Territorial Co-operation





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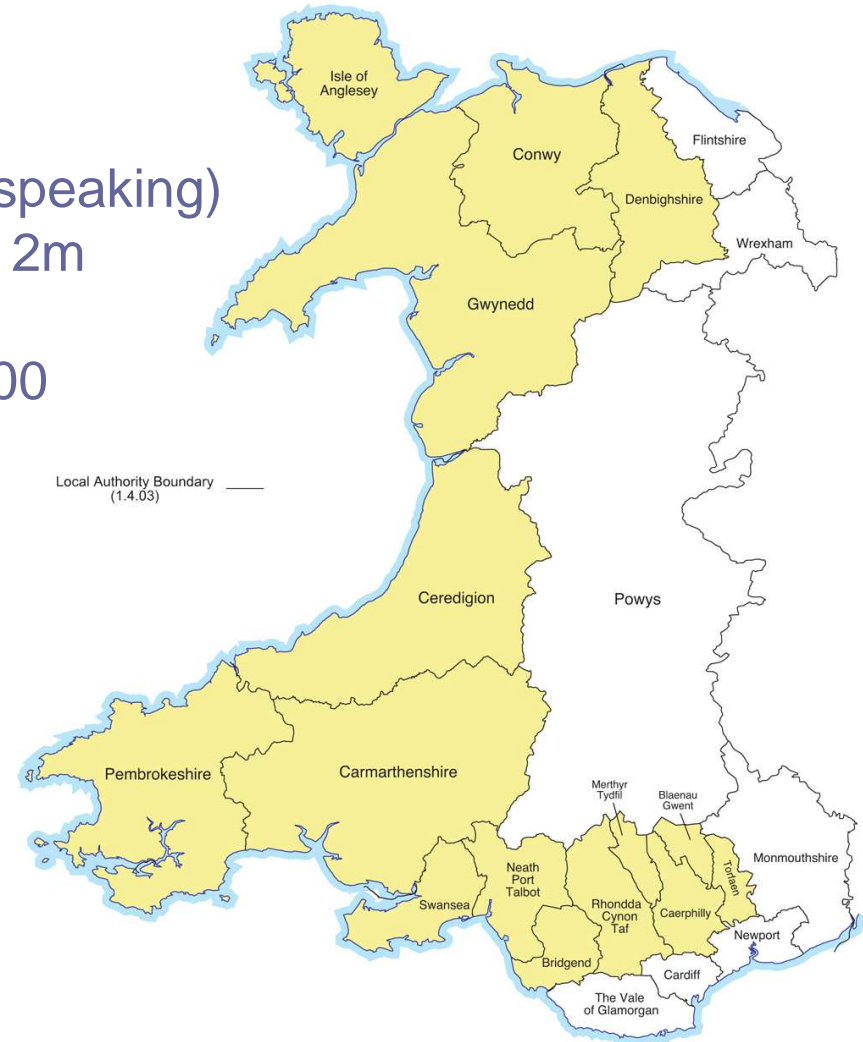
About Wales:

Population circa. 3m (22% Welsh speaking)
West Wales and the Valleys circa. 2m

Wales business population: 170,000

- SMEs 99.9%
- Micro SMEs 94%

Research spend (% of GVA) 1.3%
Lisbon target – 3%





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Travellers riding up the Snowdon Mountain Railway may experience communication problems. Your boss can't reach you. Even dogged telesales reps struggle. Damn those impenetrable mountain passes. Damn them. But the higher up you go the better the signal becomes. Which isn't such a bad thing. The view at the top is too good to keep to yourself.

visitwales.co.uk

area of outstandingly bad
mobile reception





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Bangor University

University College of North Wales Charter 1884

“ The objective of the College shall be to provide instruction in all the branches of a Liberal Educationto qualify for degrees in Arts , Science and other subjects.... and also give such technical or other instruction as maybe of immediate service in Professional and Commercial Life.....”





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Bangor University

Our Mission Statement

To be a world-class research-led university, to provide teaching and learning of the highest quality and to contribute to the development of the economy, health and culture of a sustainable Wales and a sustainable world.





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Bangor University (facts and figures)

- 9000 + Students
- 1,500 Postgraduates
- Circa 20% of our UGs are Welsh speaking
- 900 overseas students contributing £4.6 m to local economy
- 6 Colleges made up of 26 Academic Schools
- 600+ Teaching staff
- Annual Income of £96 million
- Knock on effect locally £176 million
- Export value of equivalent of £14million





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Bangor University

Background:

1. ESF Higher Skills Taught Masters

- ▶ Focused on local industrial sectors:
Marine Environmental Sciences, Chemical Skills, Countryside Management, Ecological Skills, Land based Skills, Exercise and Health Promotion and Heritage Management

2. Knowledge Transfer Partnerships (KTP)

- ▶ Ground breaking and award winning projects
- ▶ 100th Partnership
- ▶ Business and Management Training





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KESS Timeline

- 1. Phase 1: Developing Research Skills**
Objective 1 ESF Oct 04 - Oct 07
50 PhDs (Bangor)
- 2. Phase 2: Research Skills Training**
Objective 1 ESF July 05 - June 08
60 Additional PhDs
(40 Bangor, 20 Aberystwyth, 20 Swansea)
- 3. Phase 3: Knowledge Economy Skills Scholarships**
Convergence ESF (Sept 08?)
PhDs (220) + Masters by Research (200)





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North Wales
Rural ► Industrial

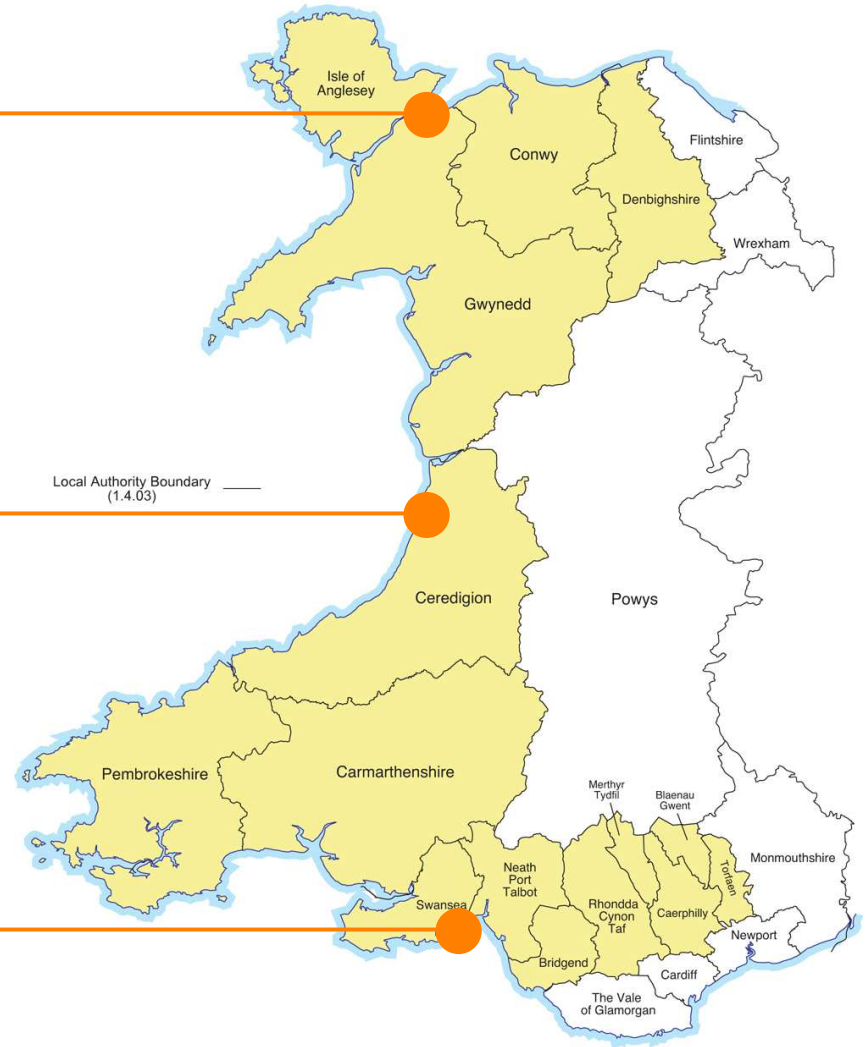


Mid Wales
Rural ►



Swansea University
Prifysgol Abertawe

South Wales
Industrial ►





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Knowledge Economy Skills Scholarships (KESS)

Objectives:

- Prepare and train individuals to contribute to research as professionals.
- Increase the research capacities of SMEs by linking with a Ph.D. project.
- Encourage SMEs to undertake research and recruit researchers.
- Support development of key technologies in the Convergence area





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Knowledge Economy Skills Scholarships (Phase 1&2)

Model:

- 50% ESF intervention.
- Attractive package for Student and Company (Cash and In-kind Contributions)
- ESF funding dependent on student achieving 60 credit transferable skills module
- Students received £12k / €15.2k p.a. bursary + up to £3K / €3.8k p.a. travel and equipment





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Knowledge Economy Skills Scholarships (Phases 1&2)

Student Stipend

Scholarship £10k / €12.6k

Research Council Av. £12k / €15.2k

KESS PhD £12k / €15.2k

KTP Associate £20k / €25.3k





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Knowledge Economy Skills Scholarships (Phases 1&2)

Company Contributions (per annum)

Company Size	Nos. employees	Cash £k / €	In-kind £ / €
Micro	< 10	1.5 / 1.9	2.0 / 2.5
Small	< 50	3.0 / 3.8	2.0 / 2.5
Medium	< 250	5.0 / 3.8	2.0 / 2.5
Large	> 250	5.0 / 3.8	2.0 / 2.5





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Knowledge Economy Skills Scholarships (Phases 1&2)

Collaboration Agreement (IP)

- No publication without written agreement
- All project results and IP owned by BU (STATE AID)
- Obligation on BU to protect IP but company over all costs
- Exclusive or non-exclusive licence granted by BU to the company to use IP





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Knowledge Economy Skills Scholarships (Phase 1&2)

Business Sectors Involved:

- Aquaculture
- Biotechnology
- Creative Industries
- Environmental Goods and Services
- Food Manufacturing
- Materials Science
- Professional and Health Services
- Petroleum Refinery
- Software Development
- Tourism



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Knowledge Economy Skills Scholarships (Phase 1&2)

Spectrum of PhD Study:

- Agriculture and Forestry
- Biology
- Business
- Chemistry
- Computer Science
- Electronics
- Environmental Science
- Engineering
- History
- Linguistics
- Language Technology
- Maths
- Marine Science
- Media
- Music
- Psychology
- Social Science
- Sport Science
- Theology



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Knowledge Economy Skills Scholarships

Size of Participating Companies (Phases 1)





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Knowledge Economy Skills Scholarships (Phase 1&2)

PhD Case Studies:



Myti Mussels Ltd. and the School of Ocean Sciences, Bangor University

Shore crab dynamics and impacts on
commercial mussel beds in the Menai Straits

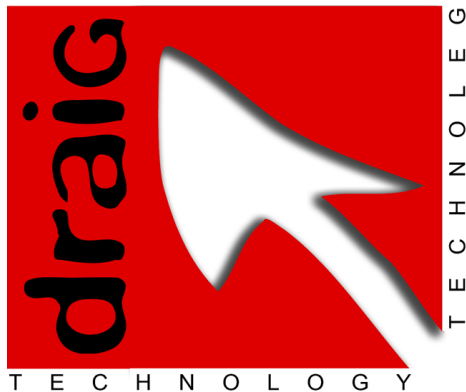


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Knowledge Economy Skills Scholarships (Phase 1&2)

PhD Case Studies:



Draig Technology Ltd and Bangor Business School

Marketing of innovation: the case of a
Welsh SME in the ICT sector



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Knowledge Economy Skills Scholarships (Phases 1&2)

Results of Evaluation:

- Importance of skills development and networks
(Students and Companies)
- Innovative and successful model
(Lisbon agenda, regional R&D)
- Employability of doctoral students has risen
- Responsible Partnering Framework
(www.responsible-partnering.org)
- University's research profile raised
- Greater flexibility in the model



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Knowledge Economy Skills Scholarships (Phase 3)

ESF Convergence Programme

Overall Aim

To create a high skill knowledge driven economy with full employment, a skilled, adaptable workforce and responsive businesses, at the cutting edge of sustainable development

Priority 3 - Improving skills levels and adaptability of the workforce.

Theme 2 - Skills for the Knowledge Economy: higher level skills and systems for workforce development





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KESS Headlines (Phase 3):

- £30m total project cost / 5 years of provision
- Core partners Bangor, Swansea, Aber
(with provision for other Convergence HEIs)
- Approval July 08 / Start Oct 08 ?
 - ▶ Phased introduction Oct 08 - Oct 09





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Knowledge Economy Skills Scholarships (Phase 3)

ESF supported high skills training provision with business and enterprises based in the Convergence area of Wales.

1. KESS Mini (Masters by Research)
2. KESS Maxi (PhD)
3. Shared Higher Skills Development Modules





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Knowledge Economy Skills Scholarships (KESS)

New Developments:

- Business Focused Skills Development Modules
- Postgraduate Training Network
- Graduate Centre
- Dedicated Marketing / Business Development resources
- Future Territorial Cooperation potential





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Knowledge Economy Skills Scholarships (KESS)

Conclusions:

- Demand driven
- Unique and Innovative
- Supports University wide developments: Graduate Centre, new Skills modules
- Bringing Research and Knowledge Transfer together
- Profile and Reputation





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Diolch, Merci, Thank you, any questions?



Working Globally, Impacting Locally

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