

Knowledge transfer between the business and universities worlds?

## A Welsh case study: The WEST Project and its context

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WEST: Welsh Energy Sector Training

### Main objective:

to develop skills to aid the <u>utilisation</u> and <u>uptake</u> of new technologies developed through the industrial research projects of the Low Carbon Research Institute Convergence Energy Program (LCRI CEP)





Themes:

Large Scale Power Generation

Hydrogen Technologies

**Solar Photovoltaics** 

**Marine Energy** 

Low Carbon Built Environment (LCBE)

Cardiff University – Engineering

University of South Wales

Glyndŵr University

Swansea University

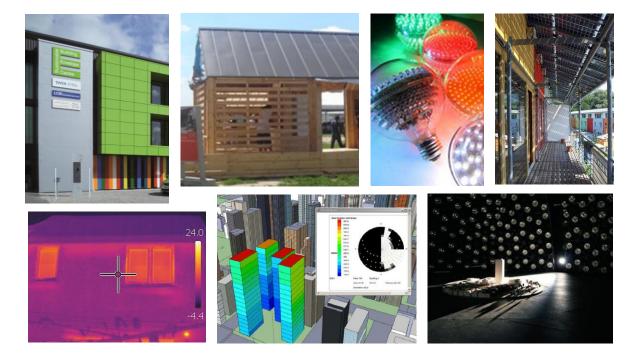
Cardiff University - Architecture





- Develop & pilot training modules
- Engage participants within the Welsh workforce
- Enable achievement of qualifications (CQFW Level 4 and above)
- Continued delivery of modules developed





### **LCRI LCBE Research projects**

- Sustainable Building Envelope
- Energy Efficient Lighting
- Timber in Building Construction
- Monitoring Energy Performance
- Low Carbon Building Design
- Urban Scale Energy Demand and Supply
- Innovation, Technology
   Deployment & Market Development

#### **Academic and Industrial Partners:**



Swansea University Prifysgol Abertawe



#### **Understanding the sector's needs**

- Drivers for skills demand
- Welsh Built Environment Sector training needs
- Interest of Welsh industry in training arising from LCBE research
- Appropriate training delivery methods



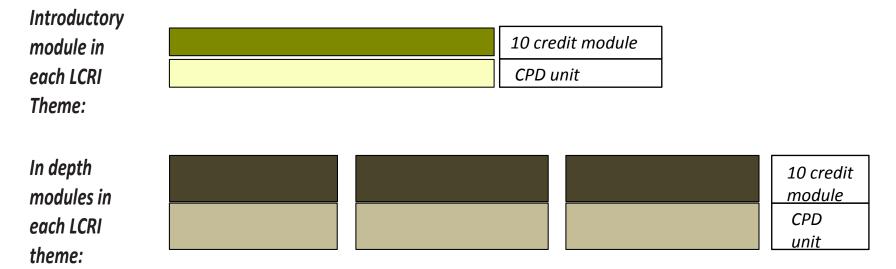


#### **WEST Course Suite**



Low Carbon Economy & Policy		
CPD unit	10 credit module	

Enterprise in a Low Carbon Economy		
CPD unit	10 credit module	





#### **WEST Course Suite**



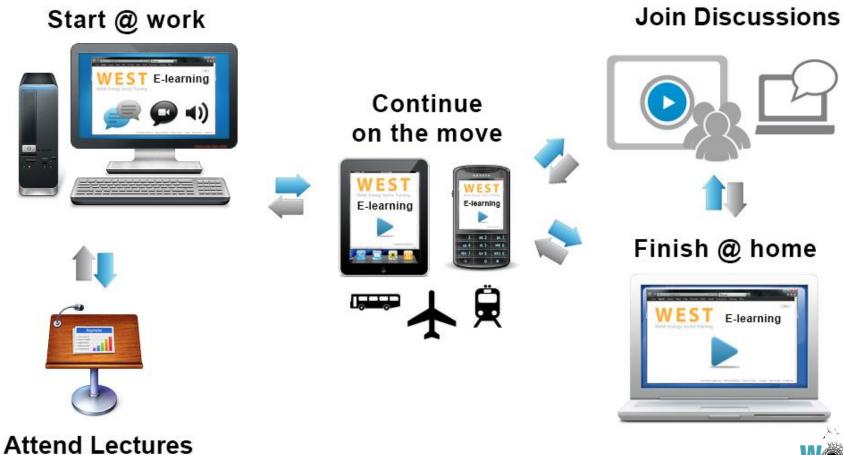
Induce deserts and

Low Carbon Economy & Policy		
CPD unit	10 credit module	

Enterprise in a Low Carbon Economy		
CPD unit	10 credit module	

Introductory module in			10 credit module			
each LCRI			CPD u	CPD unit		
Theme:						
						1
In depth modules in	Active Building Envelopes	Building with Tim Wales	ber in	37	mulation: Urban Scale	10 credit module







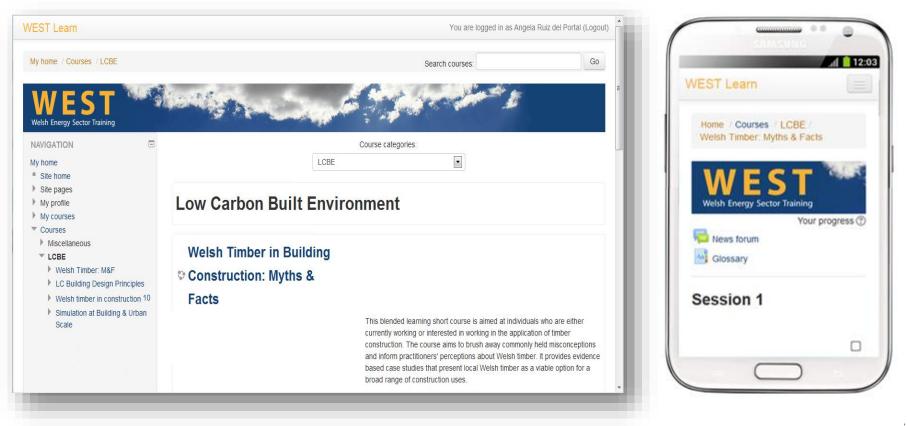




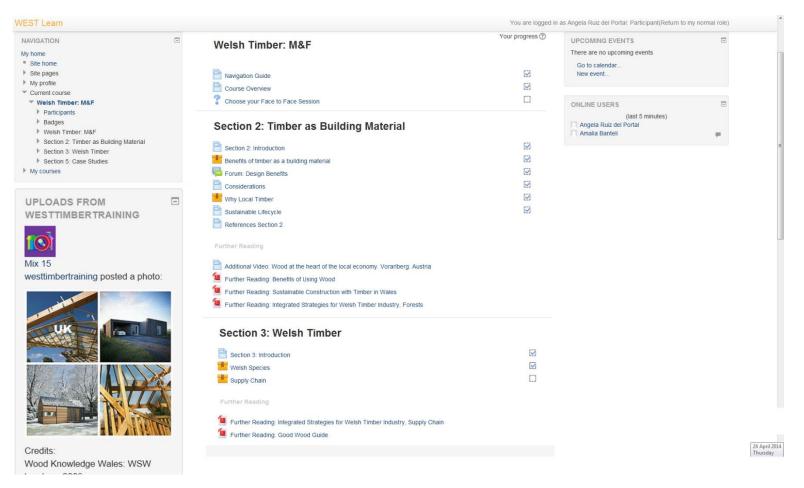




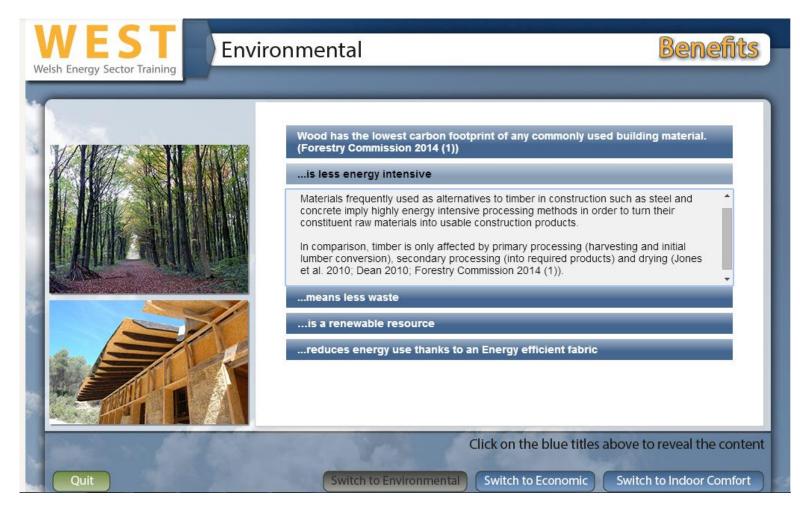














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web: <u>www.westproject.org.uk</u>











#### BANGOR Isle of PRIFYSGOL glyndŵr Flintshire Conwy Denbighshi Wreyha Gwynedd ABERYSTWYTH Ceredigion Powys Carmarthenshire embrokeshire Cardi Swansea University Prifysgol Abertawe University of South Wales Prifysgol De Cymru The Vale Y Drindod Dewi Sant Frinity Saint David CARDIFF Cardiff Prifysgol Metropolitan University Caerdydd PRIFYSGOI

### **Knowledge transfer initiators**









Un o fentrau Llywodraeth Cymru Welsh Government Initiative





The Way Forward 2012-201



CARDIFF

CARDYD Our focus

Research and innovation We will be firmly positioned in the top ten UK universities in REF terms with success judged by the effect on our reputation.



#### Education

We will educate our students to the very highest standards and support them through the transition to independent learning.



#### International

We will form a tight-knit collaboration with two other outstanding international universities.



Engagement We will demonstrate our commitment to the communities of Cardiff and Wales through knowledge exchange projects.



CARDIFF UNIVERSITY PRIFYSCOL CAERDYB	& Innovation Services	CARDIFF UNIVERSITY PRIFYSGOL CAERDYD
Research and Innovation Services About Us Why work with us? Access to Experts Innovation Network Latest Ventures Contacts for Business News, Events and Training Research Funding Preparing and Submitting an Application Contracts Managing Your Grant	<ul> <li>Business Development team is the University's central point of contact for any business development enquiries, providing expert advice and guidance on the various business-facing activities that Cardiff has to offer, including:</li> <li>Knowledge Transfer Partnerships</li> <li>Strategic Insight Programme</li> <li>Cardiff University Innovation Network</li> <li>Consultancy</li> <li>Training and Development</li> <li>Access to Specialised Facilities</li> <li>For any enquiries, whether large or small, the team are on hand to advise you further.</li> </ul>	Related R         Image: Solution of Control
RIS enables l	inks with businesses in different ways:	

**Knowledge transfer enablers** 

- Consultancy
- Training: CPD
- Placements
- Innovation meetings

• ...

### Knowledge transfer enablers: EU funding



European Regional Development Fund Investing in your Future



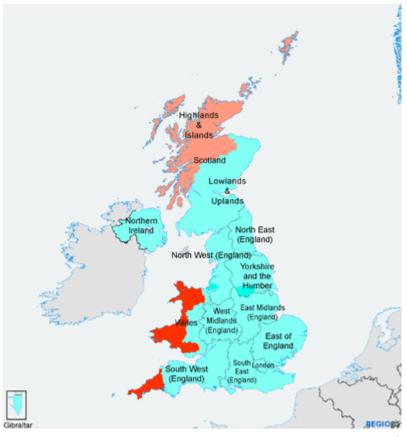
European Union European Social Fund Investing in jobs and skills



Llywodraeth Cymru Welsh Government

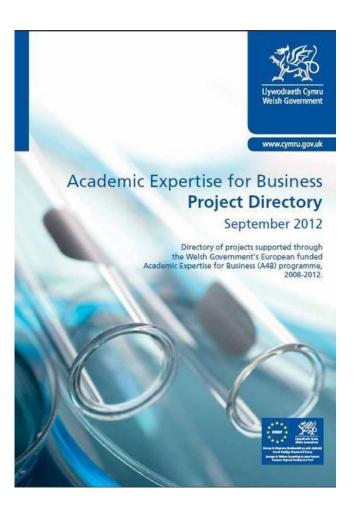


- Convergence Regions
- Phasing-out Regions
- Phasing-in Regions
- Competitiveness and Employment Regions





#### **EU funded Examples**







Europe & Wales: Investing in your future European Social Fund

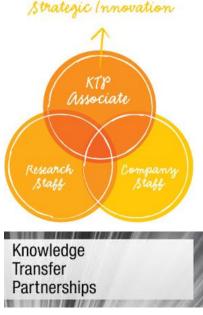


LCRI LOW CARBON RESEARCH INSTITUTE



Ewrop & Chymru: Buddsoddi yn eich dyfodol Cronfa Datblygu Rhanbarthol Ewrop Europe & Wales: Investing in your future European Regional Development Fund





UK gov. / Company

In place for almost 40 years
Managed by TSB (Technology Strategy Board)

### **Government and Industry funded programmes**



Strategic Insight Programme

WG through HEFCW (Higher Education Funding Council of Wales) **EngD** Engineering Doctorate

Sponsoring company

- Short-term placements
- Cross-sector relationships
- Collaborative projects

- PhD w strong industrial focus
- Based on sponsoring company
- Efficient technology transfer



### **Knowledge transfer enablers: Welsh Government**

### 'Science for Wales: A strategic agenda for science and innovation in Wales'

- To build upon Wales' scientific strengths "...support a better economic future..."
- Three Grand Challenge priority areas:
  - Life science and health
  - Low carbon, energy and environment
  - Advanced engineering and materials
- Commitment

### "...work to deepen academic-business partnerships and encourage collaboration..." including consideration of proposals for:

- closer integration of the research
- innovation
- commercial development



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Thank you!



