

The Liverpool City Region Knowledge Economy

Alan Welby





What are LEPs?

"We will support the creation of Local Enterprise Partnerships – joint local authority-business bodies brought forward by local authorities themselves to promote local economic development – to replace Regional Development Agencies (RDAs)."

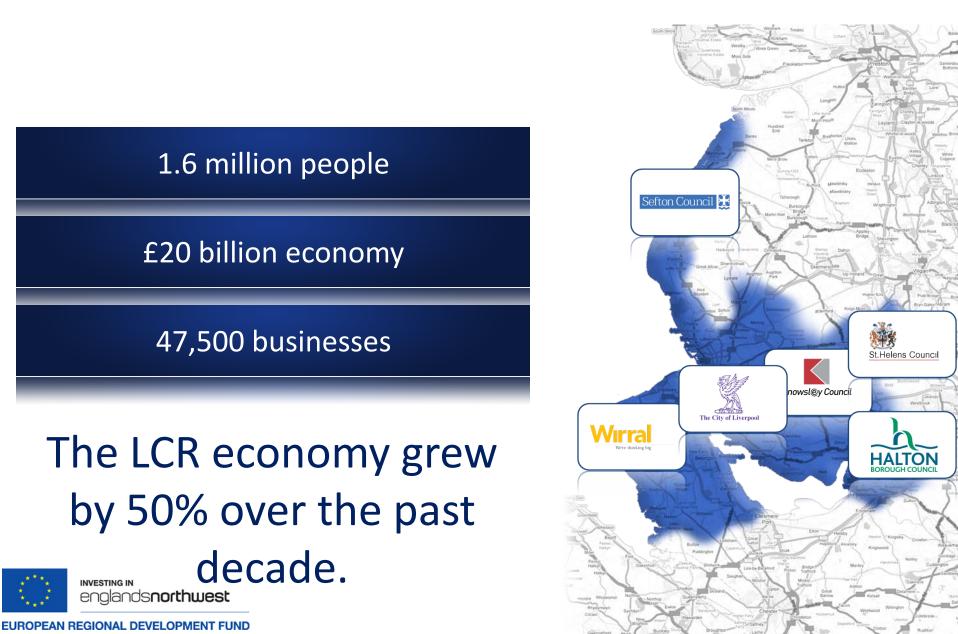


Coalition Programme For Govt. May 2010



Liverpool City Region





LCR LEP

- Unique membership model
- 450+ strong, fee-paying, and private sector-led
- Private sector-led Board chaired by Robert Hough
- Plus political leaders representing the six Local Authority areas
- Main body which representing City Region at Government level
- Innovation Board –chaired by Howard Newby
- Executive team based at Princes Parade









Strategic Objectives of the LCR LEP

Strategic Objectives

- Accelerate the rate of economic growth and create jobs
- Improve productivity
- "Re-balance" the economy

Actions

- Grow existing businesses
- Increase productivity levels of existing businesses
- Create new businesses
- Attract new investments to the City Region
- Change the business environment
- Create new jobs
- Support identified "Growth Sectors" in the City Region



Economic Context



"Liverpool City Region needs to strengthen its business base" 18450 businesses / 90000 jobs short

Business stock rate per 10,000 16-64 year olds

	2005	2008	2011	Change 2005-2011
UK	559.5	582.2	572.8	+13.3
LCR	369.7	401.5	384.2	+14.5
Halton	366.7	404.6	382.0	+15.3
Knowsley	243.7	276.5	286.6	+42.9
Liverpool	367.3	395.5	369.9	+2.6
Sefton	434.5	457.4	440.9	+6.4
St Helens	334.2	378.4	370.3	+36.1
Wirral	401.6	436.5	414.2	+12.6



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Visitor Economy

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Low Carbon Economy



Knowledge Economy

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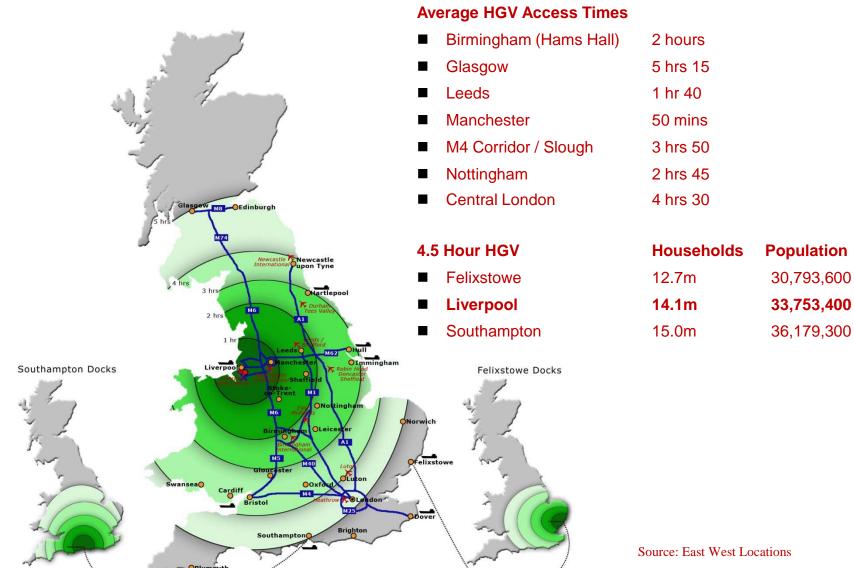
LEP Growth Sector Approach





EUROPEAN REGIONAL DEVELOPMENT FUND

The UK's Central Port Centric Liverpool City Region Local Enterprise Partnership



Liverpool City Region Local Enterprise Partnership

SUPERPORT

- Liverpool 2 New deepwater container facility enhancing global connectivity
- Capacity for two 13,500 teu vessels to berth at once (Current capacity 3,500 teus)
- Will be able to handle over 90% of the worlds container fleet including all post panamax vessels







SUPERPORT



- Liverpool 2 Removes the need for goods to be transhipped
- Port currently handles
 650,000 teus per annum
- New facility will double capacity
- Potential saving of 150 million UK road miles per annum



nvesting in Englands**northwest**





SUPERPORT

Liverpool City Region Local Enterprise Partnership

Multimodal Facilities

- 3MG: fully operational intermodal terminal facility handling 120,000 containers per annum
- Room for 3.5m sqft of warehousing space
- Partnership between
 Stobart and Halton









SUPERPORT



Investment

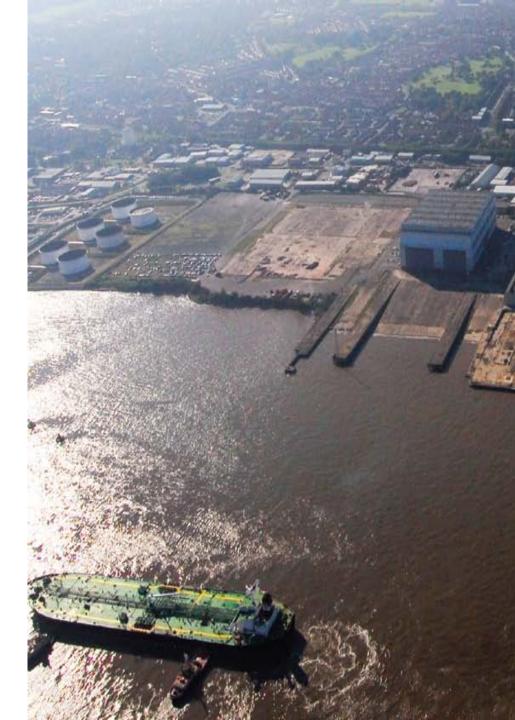
- £1.8bn of investment in transport and logistics infrastructure across the City Region to further improve connectivity
- Mersey Gateway Bridge £600m new 6 lane toll bridge





Low Carbon Assets & Opportunities

- Sustainable Energy
- Offshore Wind
- Retrofitting and Microgeneration
- Hydrogen Network
- Tidal and Wave





EUROPEAN REGIONAL DEVELOPMENT FUND

Sustainable Energy

Opportunity: Sustainable Energy Action Plan has identified over 50 opportunities for energy projects including heat networks across the City Region. Delivery of sustainable energy alongside £1bn investment by Scottish Power in the City Region's energy infrastructure over the next 10 years will create a more robust energy system and several thousand jobs in construction operation and maintenance.

Offshore Wind

Opportunity:

A substantial offshore wind manufacturing, installation, operating and maintenance centre will be developed in Liverpool City Region to serves the proposed £18bn Irish Sea installations and wider UK and global offshore opportunities. Hundreds of jobs already created at Cammell Lairds, RWE, Dong etc in installing and servicing current offshore wind farms

Retrofitting & Microgeneration

Opportunity: <u>Retrofitting</u> - Roll-out of energy efficiency measures in existing properties stimulated by Green Deal and Energy Company Obligation (ECO) incentives – including heating systems, solid wall insulation, double glazing <u>Microgeneration</u> - photo voltaic and other renewable energy technologies to residential and commercial buildings using UK Government incentives

Opportunities for renewable technology manufacturers, suppliers and installers

Hydrogen Network

Opportunities: Work with Universities, Automotive manufacturers, specialist research companies and Europe's largest H2 producer to develop a Hydrogen Network for new generation of fuel cells for vehicles and other applications

Develop a sustainable supply chain to support low emission vehicle production

Tidal and Wave Energy

Opportunities: Power from the Mersey – The UK's most advanced Tidal Energy Scheme - 700MW potential. Led by Peel Energy Irish Sea/Atlantic – Some of Europe's best wave energy locations – Cammel Laird engaged

Future opportunities for research, investment, manufacture, installation and maintenance

Visitor Economy Assets & Opportunities

- Retail
- Culture
- Sport
- Major Events
- Conferences
- Waterfront
- Business Tourism

















Life Sciences

Creative and Digital

Advanced Manufacturing

Financial and Professional Services

Global 'Megatrends' – recurring themes to 2030



- People
 - Population Growth
 - Urbanisation
 - Western Aging
 - Growing Middle Class
 - Individual Empowerment
 - 'Generation Y' Consumption

Technology & Markets

- Enhanced Connectivity . . . & portability
- Increased Resource Competition
- Increased Productivity
- Regulatory Harmonisation

Macro-Economy & Geo-Politics

- Crisis-Prone Global Economy
- Wider Scope for Regional Instability
- Emerging Economy Growth





Government Office for Science - 'UK Growth Opportunities for the Technology Trajectories

	Theme	Component	
		Genes & Cells	
	Biotech & Pharma	Sensors & Computing	
		Production	
	Materials & Nanotech	Advanced Materials	
		Applications	
		E-Infrastructure	
	Digital & Networks	Analytical Tools	
		Processors, Interfaces & Sensors	
	Energy & Low- Carbon	Infrastructure	
		Cars & Beyond	
		Resource Efficiency	
		Energy Technologies	

Technology Trajectories



Theme	Component	Examples
	Genes & Cells	Synthetic biology & genetic medicine
Biotech & Pharma	Sensors & Computing	Lab-on-a-chip, bio-imaging, & e-health
	Production	Agri-tech & biotech
Materials & Nanotech	Advanced Materials	Nanotech & intelligent polymers
	Applications	'Smart' materials & 3D printing
Digital & Networks	E-Infrastructure	Complex systems & ubiquitous computing
	Analytical Tools	Decision tools, search, & modelling
	Processors, Interfaces & Sensors	Photonics, biometrics, & swarm robotics
Energy & Low- Carbon	Infrastructure	Smart grids, microgeneration, & batteries
	Cars & Beyond	Intelligent, low-carbon vehicles & fuel cells
	Resource Efficiency	Recycling & carbon capture & storage
	Energy Technologies	Nuclear, bio, solar, marine, & wind tech

EUROPEAN REGIONAL DEVELOPMENT FUND

Technologies >>> Growth Markets Local Enterprise Partnership

Global Markets

- Industrial biotechnology \$170bn in 2010, \$660bn in 2020
- Biopharmaceutical market \$100bn in 2012, \$392bn in 2020
- Agricultural Biotechnology \$8bn in 2010, \$50bn in 2025
- The Smart City Market \$2.1tn in 2020
- Green Environmental Products & Services \$2.74tn in 2020
- Chemicals \$5.3tn 2020

• For UK & EU opportunities, key markets

- Business services 'non-routine' knowledge work
- Highly-automated, highly-skilled industrial manufacturing
- Energy generation, management, & use reduction
- Healthcare & welfare services (inc. care technologies)
- Leisure, media, & entertainment



New Business Models



- Key themes
 - Vertical integration & distributed collaboration
 - Outsourcing & automation of high value 'knowledge work'
 - Migration to the web, & leverage of long tail markets
 - Aging workforce, working longer
 - Increasingly complex & connected markets, with increased risks
 - 'Non-routine' activities that cannot be automated innovation, leadership & sales - will dominate employment progressively from 2015
 - 'Creativity' will be the most important leadership competency for future successful business
 - Intelligence, agility, & responsiveness the key characteristics of business performance



INVESTING IN englands**northwest** How do we compete? Knowledge is key

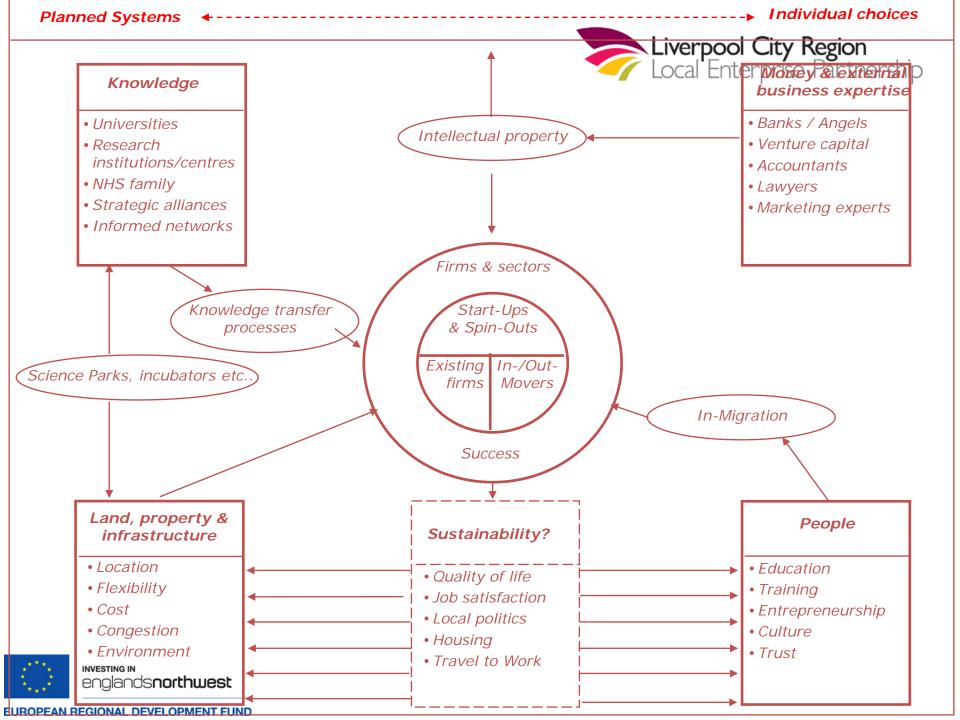


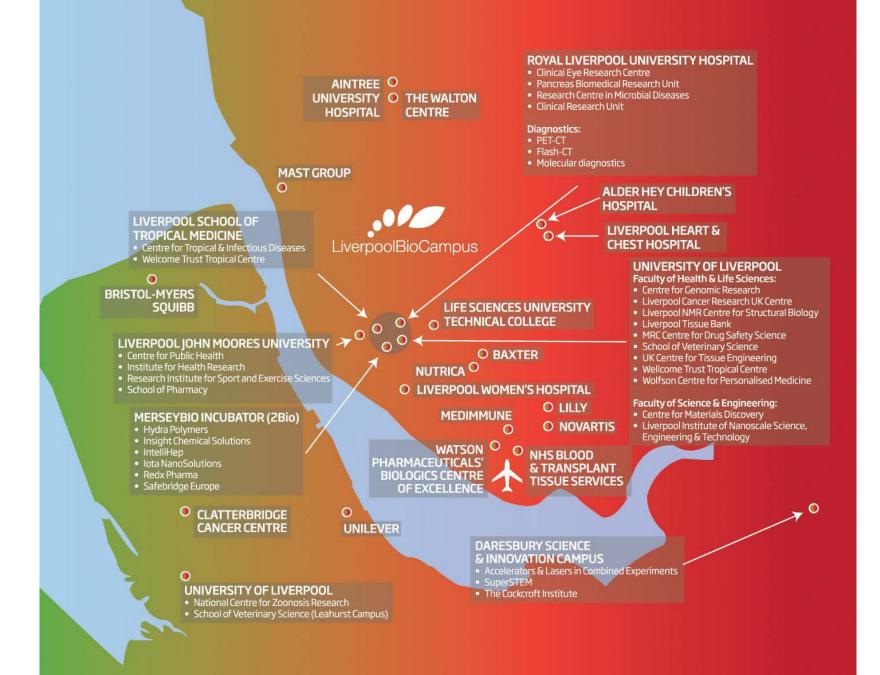
- Western companies increasingly can't compete in global mass market manufacture . . .(cost)
 - Instead, we may need to focus increasingly on
 - Niche markets esp. with design sophistication
 - Innovative new areas with lead in-times & IPR cover
 - Combinations of product & service the 'servicisation' model
 - Products & services tailored for the public sector
 - Military equipment & services, where competition is restricted

• To compete

- *R*&*D*
- Niche Manufacturing
- Marketing

Innovation – in all its forms – vital for our City Region





Life Sciences Key Activity 1 (Land Property and infrastructure)



BioCampus

"an exciting biomedical innovation environment where multiple businesses flourish in flexible partnerships with the primary Liverpool HEIs, Research Institutes and Hospitals"









Life Sciences Activity 2 (Knowledge)



Dallas

- Dallas assisted living programme new technology to change care and health services
- Improve knowledge, confidence and use of life enhancing technology
- £23m in 4 programs over 3 years (Liverpool)
- More Independent is one of the 4 programs, £7.7m from TSB
- Liverpool Primary Care Trust, Liverpool Community Health, Liverpool City Council, Riverside Housing, PSS and Hft
- Technology partnerships include Philips, Tunstall and Informatics Merseyside.







dallas



Life Sciences Activity 2 (People)

Life Sciences University Technical College

- specialist scientific and healthcare education with traditional GCSES, BTECs and A-Levels + qualifications such as GLP and GMP (Good Laboratory Practice and Good Manufacturing Practice)
- Sponsored by local employers: Redx, Novartis, Pro-Lab Diagnostics, Unilever and Thermo Fisher
- Underpinned by University of Liverpool
- 14-19 / City Region catchment
- Full day / 5 semesters







Liverpool City Region Local Enterprise Partnership

Key Programmes



- 1. Growing Places Fund of £18m to allocate
 - Submission of a £10m RGF 4 bid
- 2. Regional Growth Fund £10m Business Growth Grants
 - Minimum grant **£50k** and maximum **£750k**
 - Fund will be fully operational by summer 2013
 - £5m Small Business Grants bid submitted
- 3. AMSCI
 - £20million loan or grant funding
 - automotive and aerospace
 - + West Midlands LEPs
- 4. Mersey Waters & Daresbury Enterprise Zones
- 5. Skills for Growth Bank
 - Apprenticeship creation,
 - recruitment of targeted individuals
 - co-investment in skills businesses own workforce development budgets
- 6. European Regional Development Fund 2007-2014
 - 40% ring fenced spend for Merseyside
 - Calls in 4 priorities
 - Support for NW Fund / Chrysalis



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