LIVERPOOL CITY REGION GREEN INFRASTRUCTURE FRAMEWORK

Welcome

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LIVERPOOL CITY REGION GREEN INFRASTRUCTURE FRAMEWORK

24th November 2010

Paul Nolan
The Mersey Forest

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- BACKGROUND
- PURPOSE
- WHAT'S THE POINT
- PRIORITIES
- WHAT HAVE WE DONE?
- ASSETS AND PINCH POINTS
- HOW CAN IT BE DELIVERED?

Overview

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Green Infrastructure

Our life support system – the network of natural environmental components and green & blue spaces that lie within & between our cities, towns & villages and provide multiple social, economic & environmental benefits

“Just as we must address haphazard development, we must also address haphazard conservation – conservation activities that are reactive, site-specific, narrowly focused, or not well integrated with other efforts.

Just as we need smart growth to strategically direct and influence the patterns of land development, we need “smart conservation” to strategically direct our conservation practices.”

WHY IS IT A GOOD IDEA?

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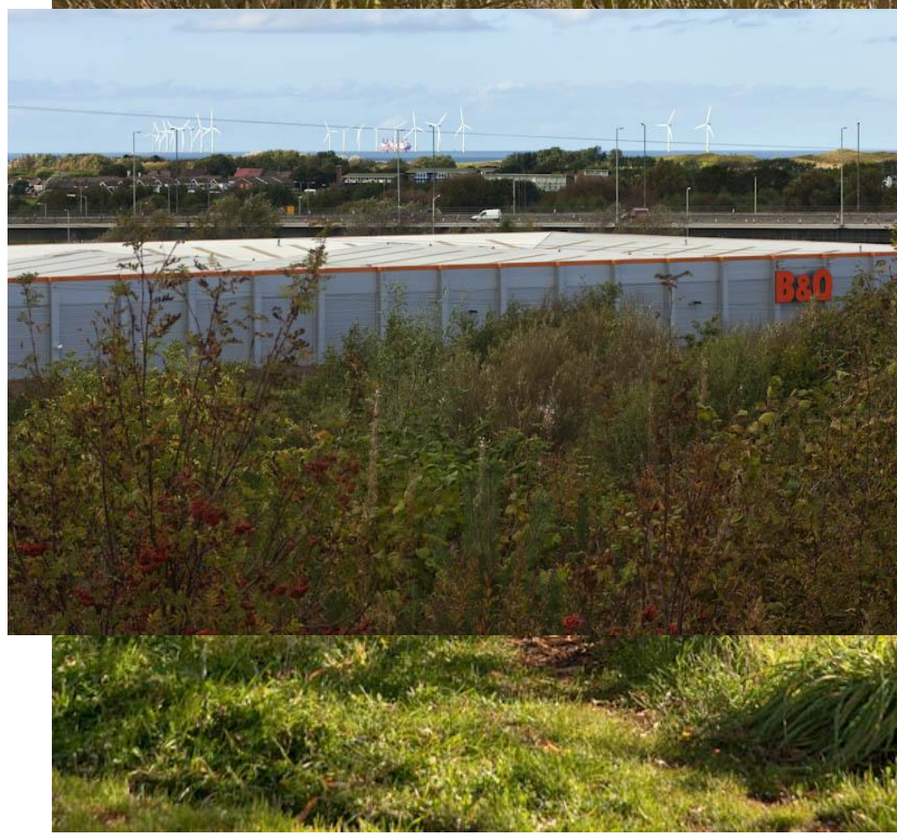
- A CRITICAL INFRASTRUCTURE

- UNDERPINING THE WAY IN WHICH OUR SOCIETY AND ECONOMY WORKS



WHY IS IT A GOOD IDEA?

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WHAT ARE THE BENEFITS?

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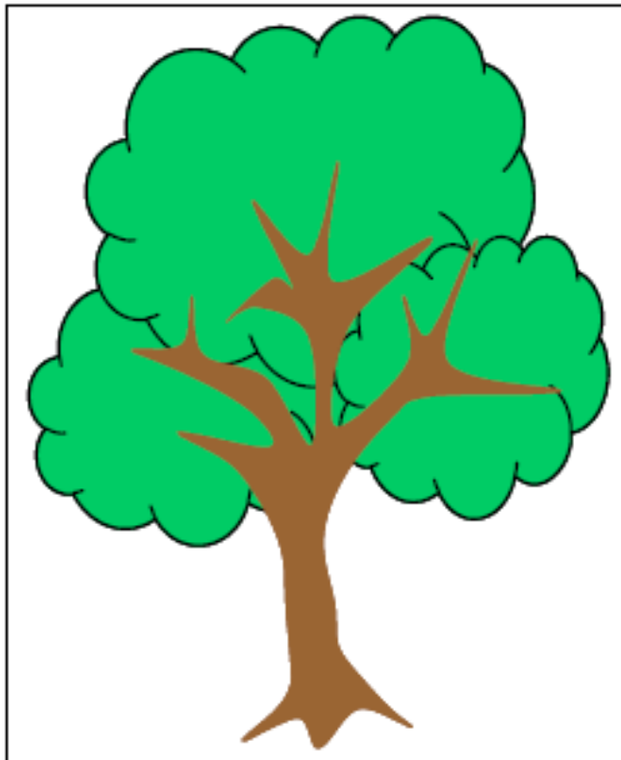

EVAPO-TRANSPIRATION	→	CLIMATE CHANGE ADAPTATION - URBAN COOLING	→	£ REDUCED AIRCONDITIONING COSTS/HEALTH
CARBON SEQUESTRATION	→	CLIMATE CHANGE MITIGATION	→	£ MARKET VALUE OF CO_2 STORED
PARTICULATE FILTERING	→	IMPROVED AIR QUALITY	→	£ REDUCED HEALTH COSTS

GI OUTPUT / INTERVENTION	→	GI FUNCTION	→	GI BENEFIT	→	GI VALUE (£)

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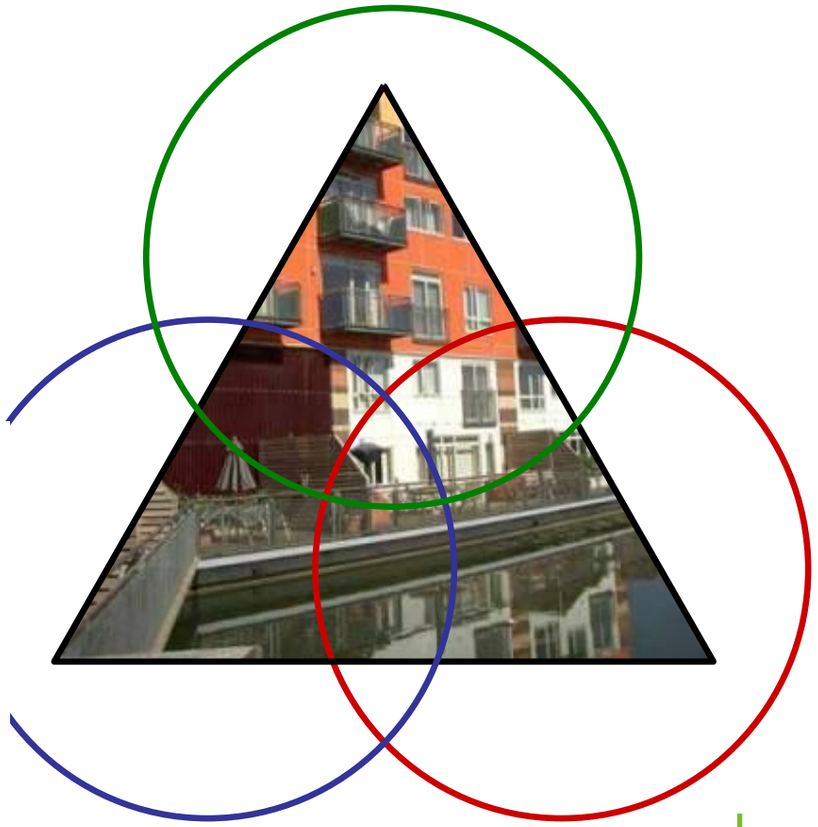
Elements of “Good Design”

(Courtesy of CABE and Vetruvius (apparently!)

Firmness

Will it last?



Delight:
Does it look good?

GI Looks

What does it need to do?

functions are needed

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What’s the point?

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- Green infrastructure as a critical infrastructure for the city region
  - planned
  - valued
  - resourced
  - Tackling key issues
- Better integration into “grey infrastructure”
  - Quality of Place
  - Quality of Life

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- Direct benefit
- Indirect benefit
- Cost reduction
- Risk reduction

FOCUS

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THE EVIDENCE

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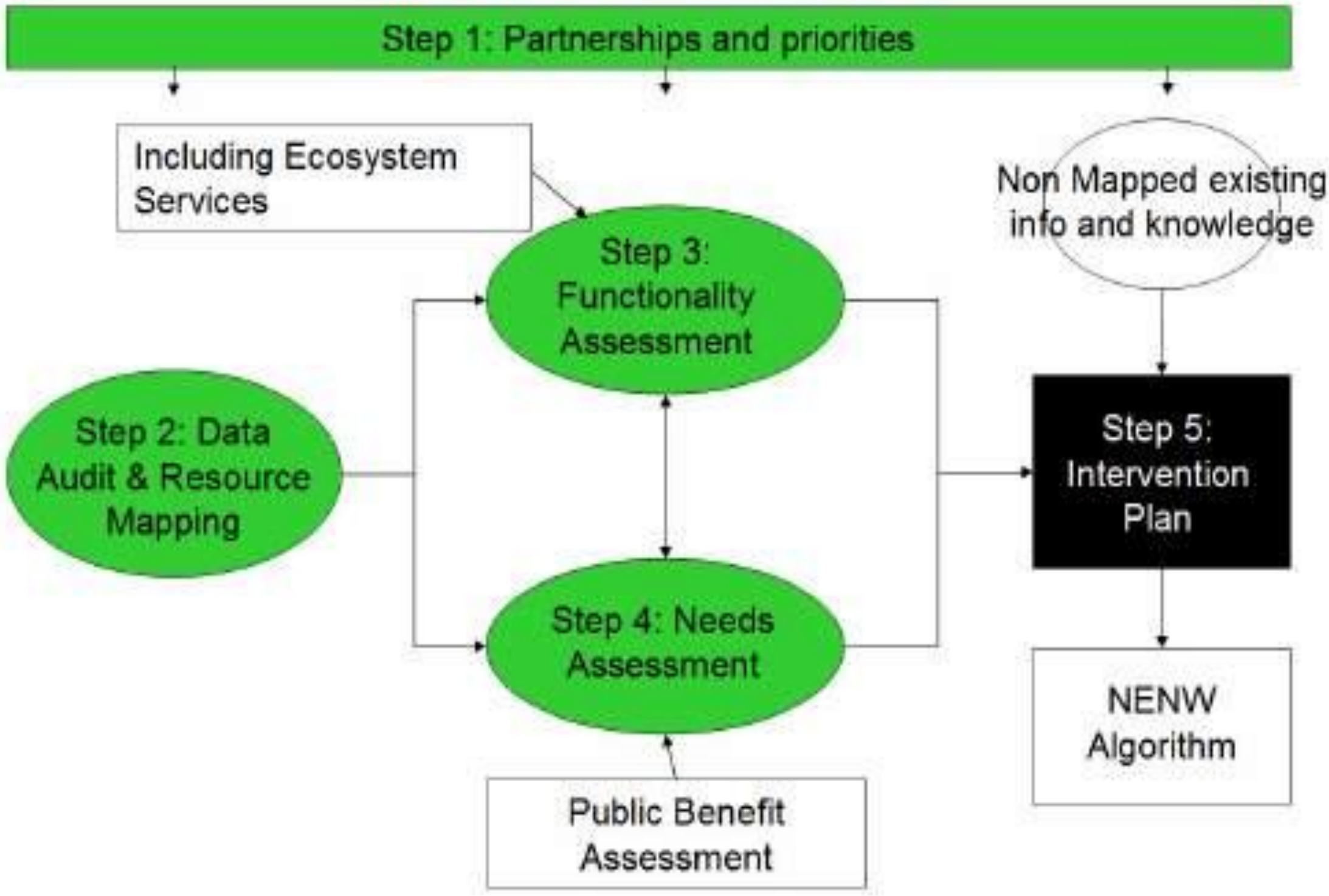
5 Steps to GI Planning



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Funder - NE

Priorities 2009

Mandate - Env and Waste board

Stakeholder meetings

2010

Links to City Region strategies

How did we get here?

Assets and Pinch Points

2011

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Priority
Setting the Scene for Growth
Supporting Health and Well-being
Providing Recreation, Leisure and Tourism
Developing the Rural Economy
Supporting Adaptation to Climate Change
Enhancing the Ecological Framework

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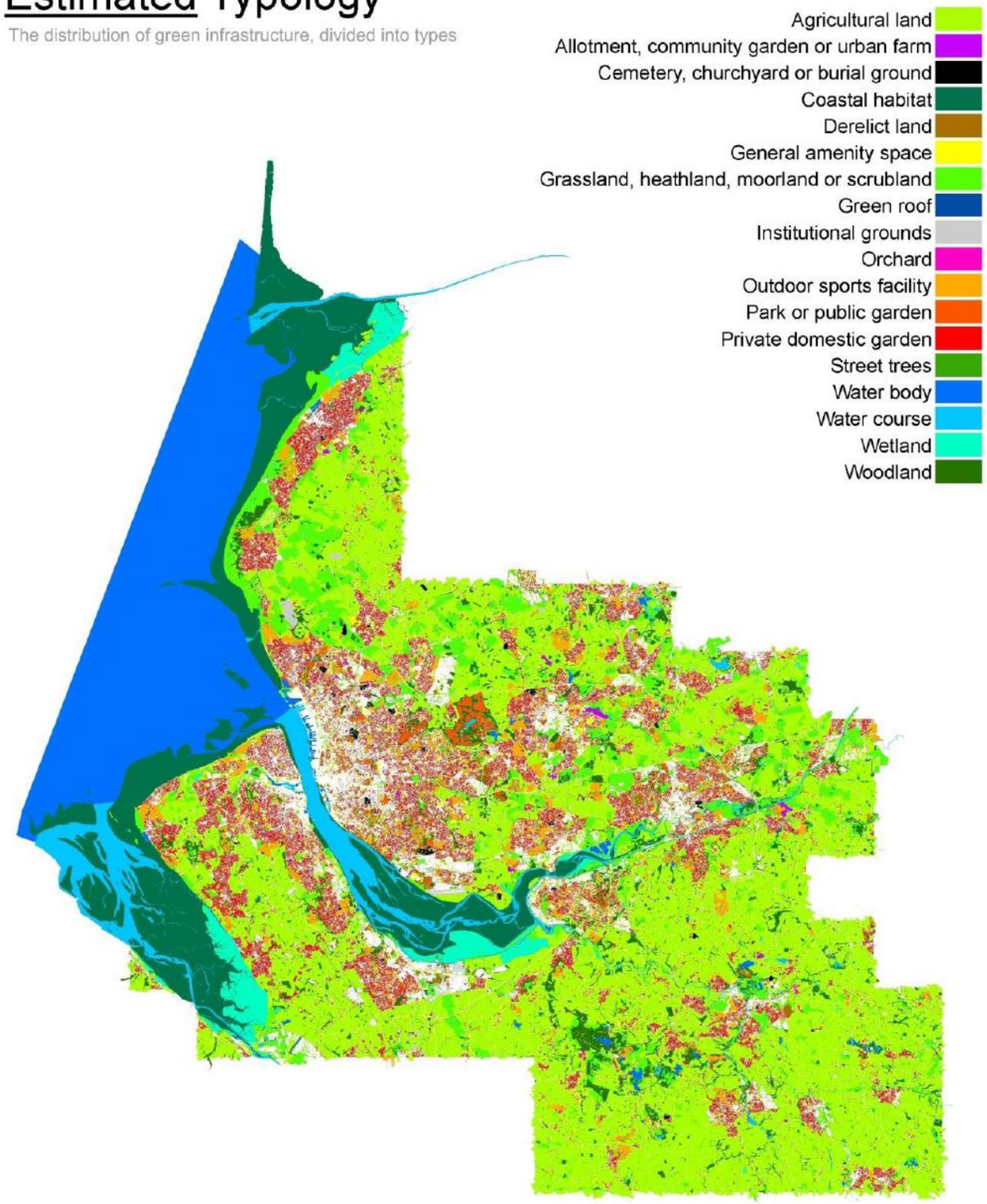
Estimated Typology

The distribution of green infrastructure, divided into types



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Typology	Area (km^2)	% coverage of the city region
Agricultural land	229.66	21.13%
Allotment, community garden or urban farm	3.56	0.33%
Cemetery, churchyard or burial ground	3.64	0.33%
Coastal habitat	126.54	11.64%
Derelict land	3.72	0.34%
General amenity space	37.42	3.44%
Grassland, heathland, moorland or scrubland	115.37	10.62%
Green roof	0.00	0.00%
Institutional grounds	17.44	1.60%
Not green infrastructure	227.37	20.92%
Orchard	0.18	0.02%
Outdoor sports facility	58.60	5.39%
Park or public garden	18.14	1.67%
Private domestic garden	128.13	11.79%
Street trees	1.10	0.10%
Water body	7.80	0.72%
Water course	40.69	3.74%
Wetland	10.10	0.93%
Woodland	57.27	5.27%

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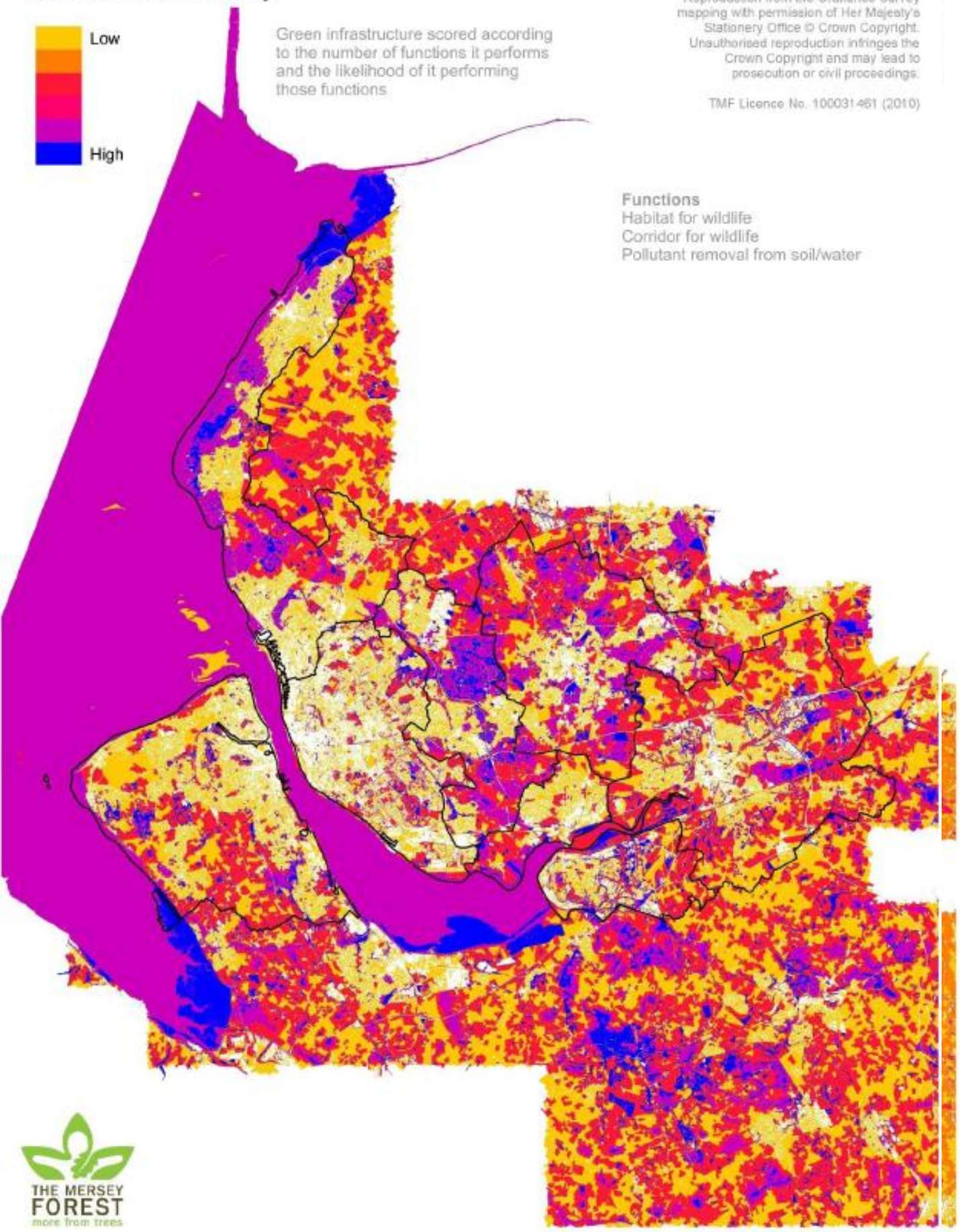
Enhancing the Ecological Framework

Multifunctionality



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FUNCTIONS FOR THE PRIORITIES

Asset

Needs

Green Infrastructure

Pinch Points

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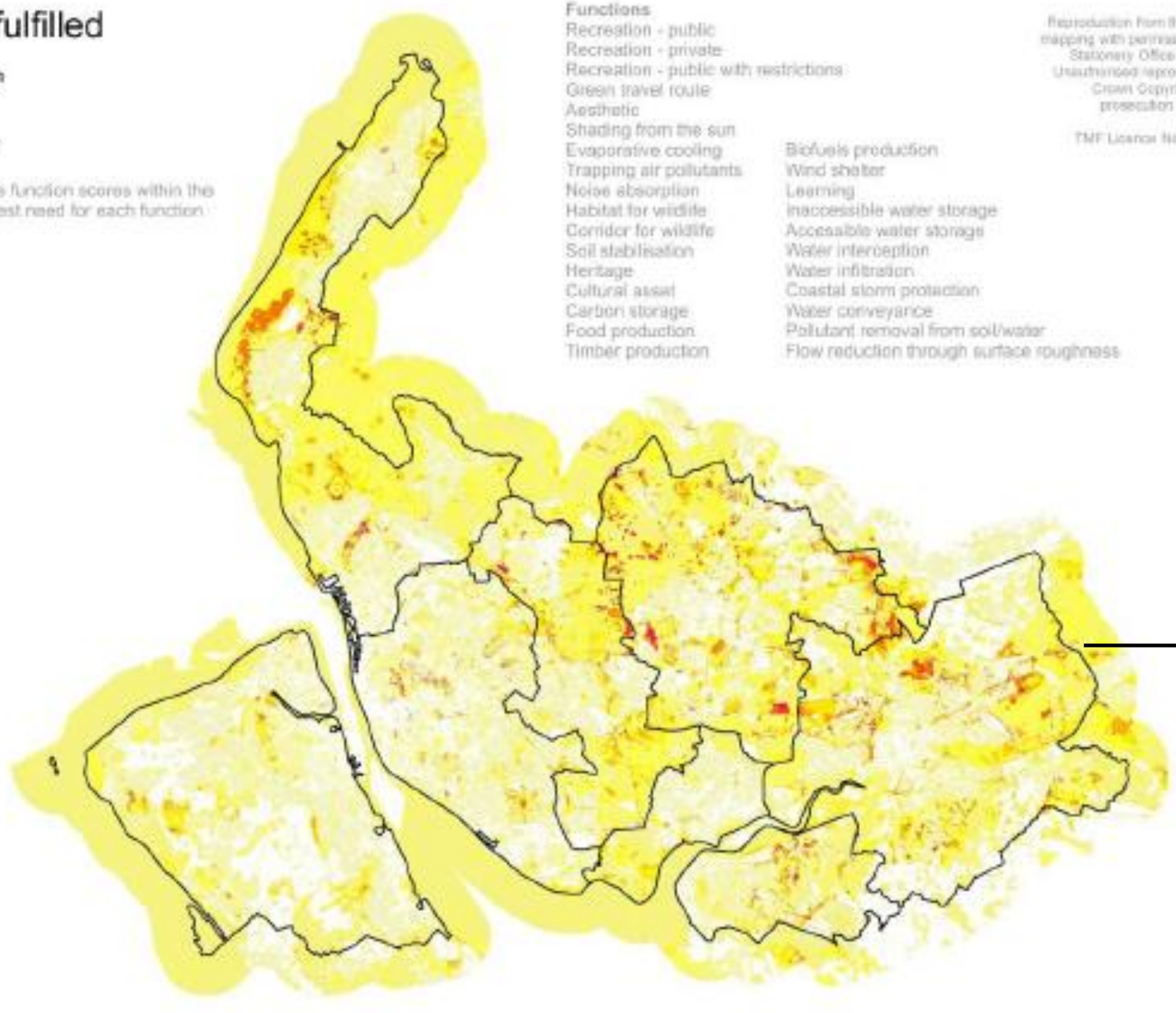
Needs fulfilled

High

Low

The sum of the function scores within the areas of greatest need for each function



Functions

Recreation - public
Recreation - private
Recreation - public with restrictions
Green travel route
Aesthetic
Shading from the sun
Evaporative cooling
Trapping air pollutants
Noise absorption
Habitat for wildlife
Corridor for wildlife
Soil stabilisation
Heritage
Cultural asset
Carbon storage
Food production
Timber production
Biofuels production
Wind shelter
Learning
Inaccessible water storage
Accessible water storage
Water interception
Water infiltration
Coastal storm protection
Water conveyance
Pollutant removal from soil/water
Flow reduction through surface roughness

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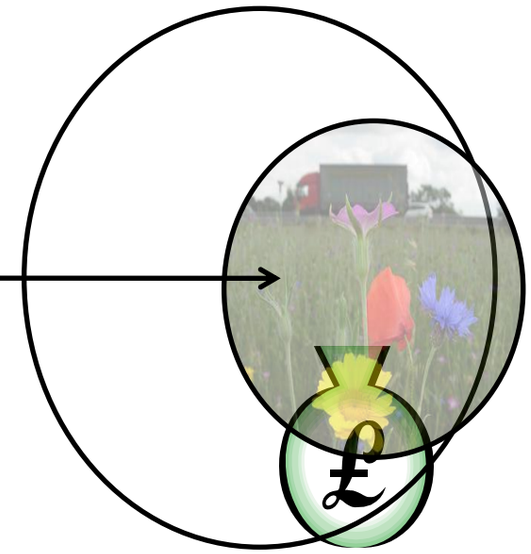

ASSETS

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Needs not fulfilled

High

Low

The number of areas of greatest need not covered by their corresponding function

Functions

Recreation - public
Recreation - private
Recreation - public with restrictions
Green travel route
Aesthetic
Shading from the sun
Evaporative cooling
Trapping air pollutants
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Habitat for wildlife
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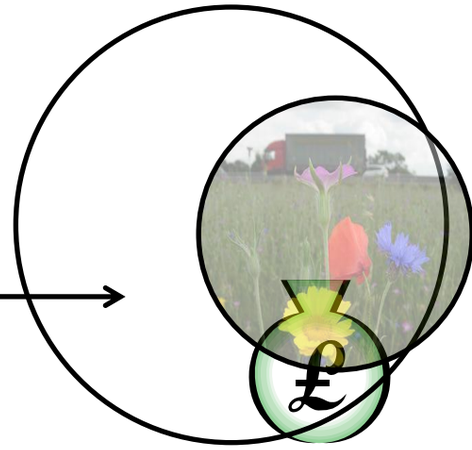

STILL NEEDY

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- Key City Region Locations
- By Priority
- Where there is a risk to economic growth due to lack of functionality

Priority	Pinch
HIGH	Risk of inadequate water supply
	Risk of flooding
	Risk of loss of carbon storage
	Risk of loss of biodiversity
	Risk of urban heat island effect
	Risk of coastal storms
	Risk of poor air quality
	Risk of soil erosion
	Risk of poor tourism, recreation, culture & heritage
	Risk of poor aesthetic
	Risk of little green travel
LOW	Risk of noise

IDENTIFYING THE PINCH POINTS

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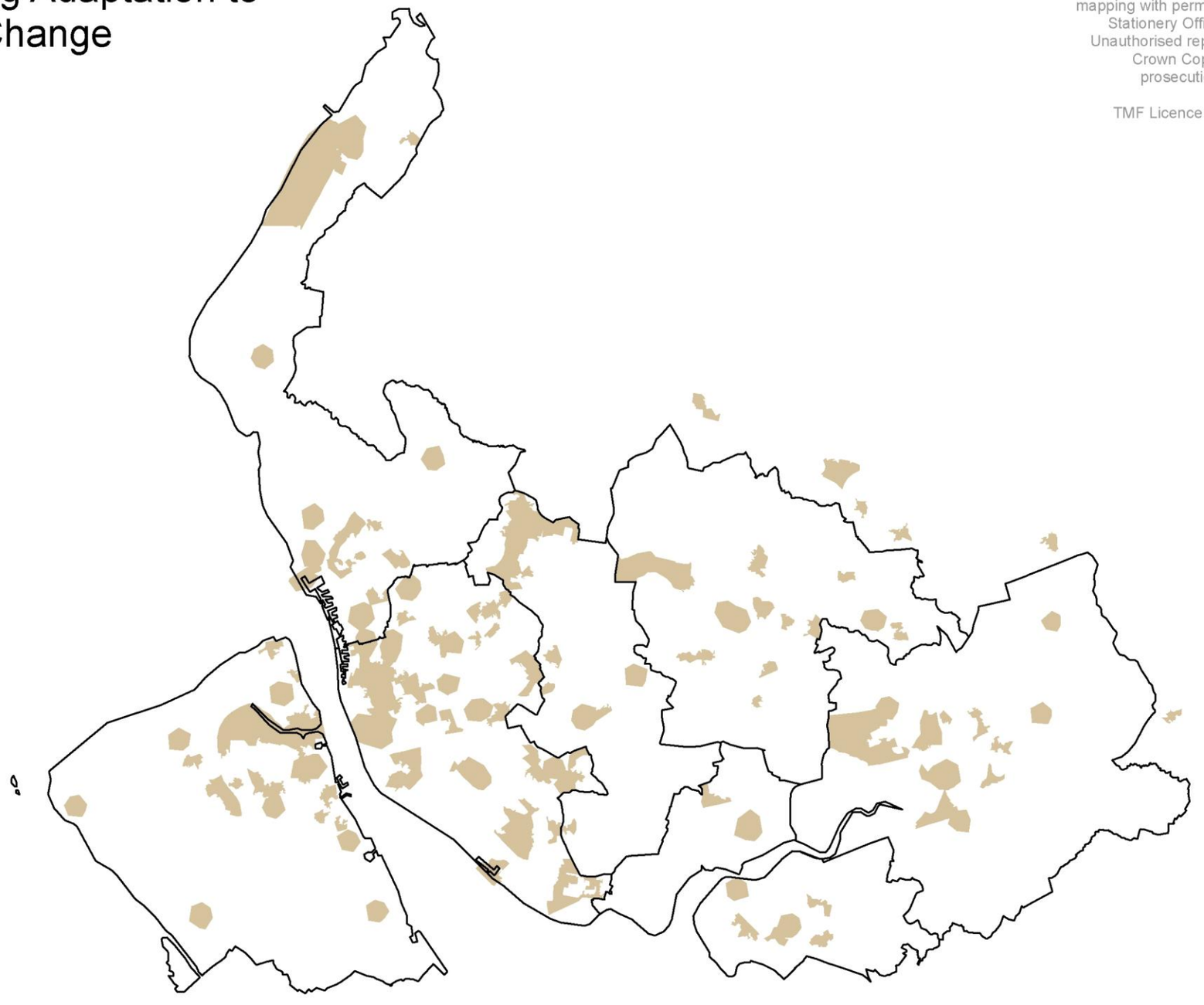
Supporting Adaptation to Climate Change



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- Resources
- "Critical" status
- Language
- New policy world
- Link to Local Development Frameworks
- Link to other city region plans

CHALLENGES

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WHAT NEXT?

- Test the assets and pinch points
- Feedback – including the key questions
- Keep City Region board informed
- Actions
- Valuation
- Stakeholder meeting in Feb
- Final Framework in March

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No shade tree?

Blame not the sun, but yourself

Chinese proverb

Image courtesy of David Armson, University of Manchester

Ecological Framework

Christine Bennett
MEAS

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Green infrastructure and Climate Change

Susannah Gill
The Mersey Forest

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Green Infrastructure to Combat Climate Change

A Consultation Draft Action Plan for Cheshire, Cumbria, Greater Manchester, Lancashire, & Merseyside

susannah.gill@merseyforest.org.uk

communityforestsnorthwest
supporting the mersey, red rose and pennine edge forests

Northwest
REGIONAL DEVELOPMENT AGENCY

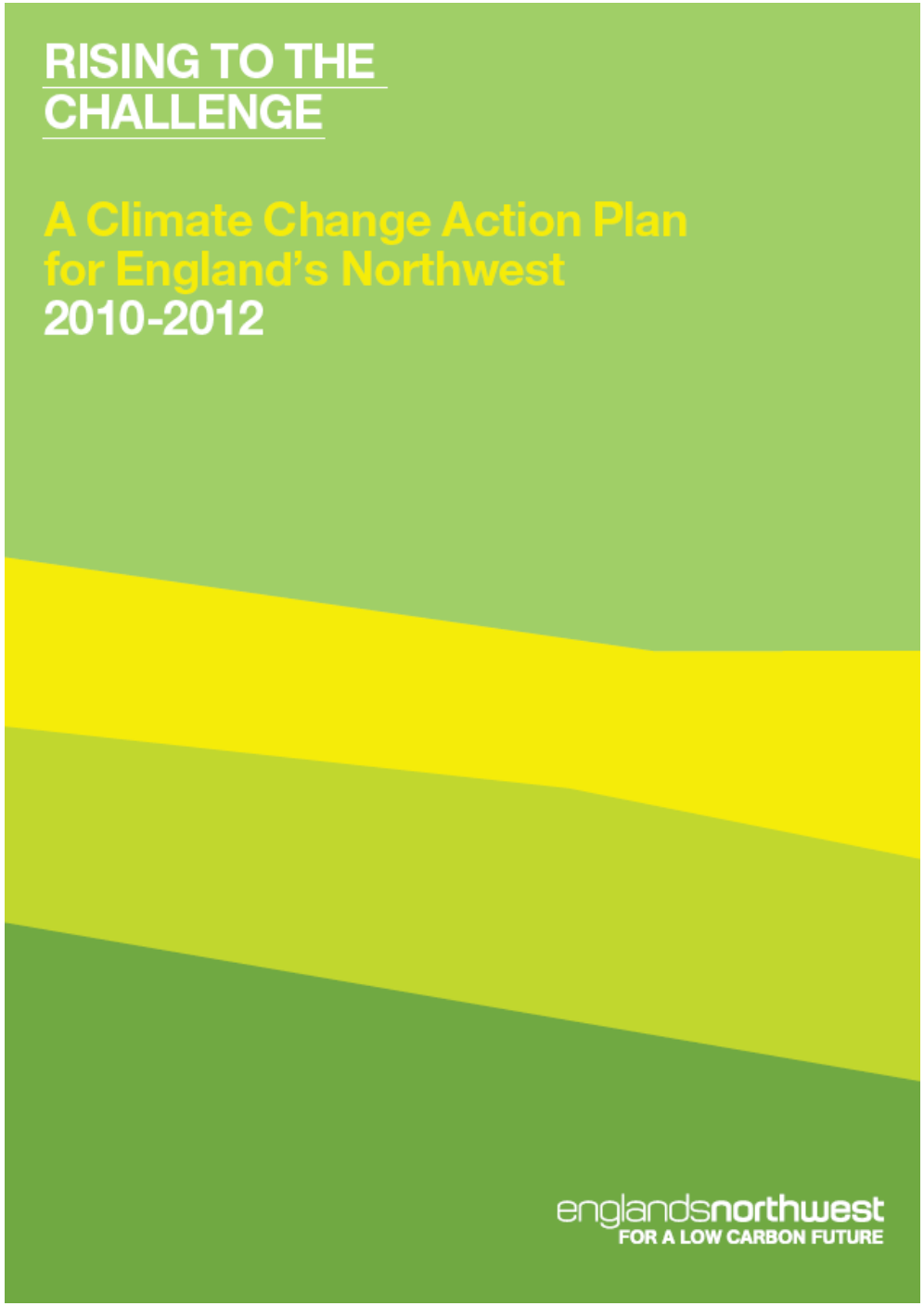
grabs
green and blue space adaptation for urban areas and eco towns

INTERREG IVC

European Union
European Regional Development Fund

Content

- Background
- Action Plan
- Some example actions
- Consultation



- Action 10.3
- Regional assessment of risks, opportunities & priorities for GI in adapting & mitigating for climate change

grabs
green and blue space adaptation for urban areas and eco towns

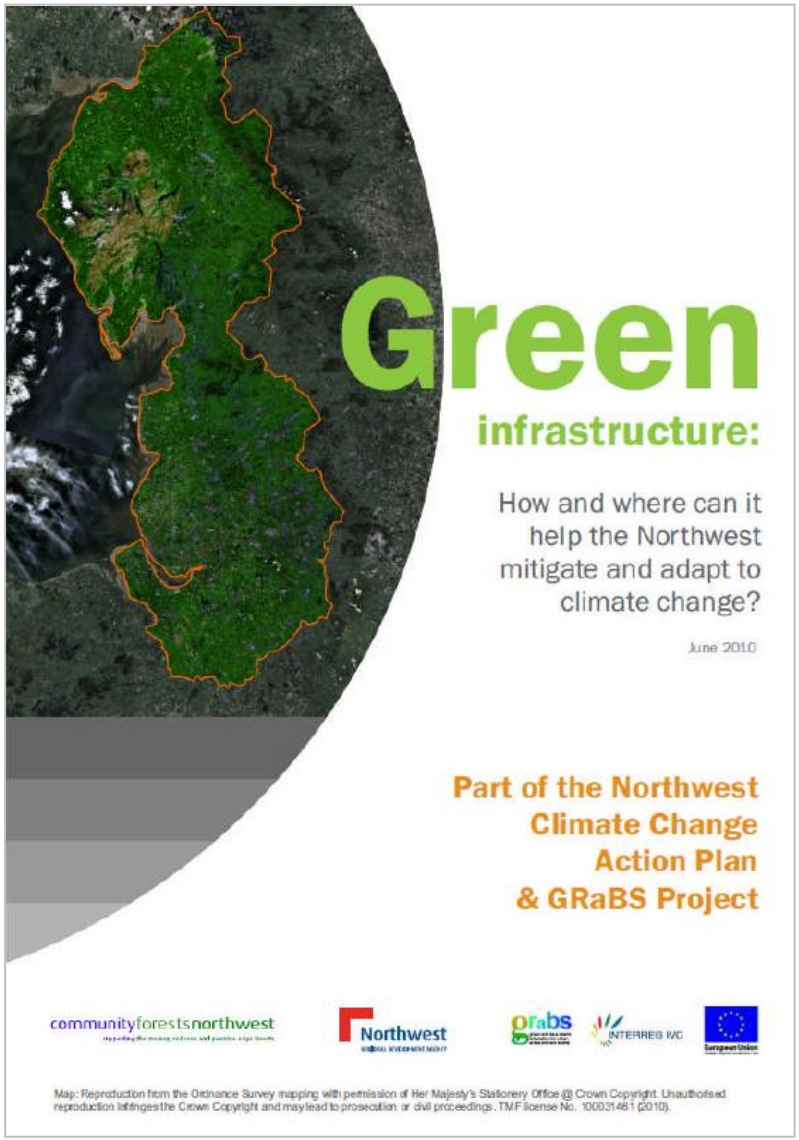
INTERREG IVC

European Union
European Regional Development Fund

- 2008-2011
- 14 partners from 8 countries
- To ensure existing & new **urban development** is **adapted** to the **impacts of climate change** through improving **planning policy** to put in place **green & blue spaces**
- www.grabs-eu.org

Key Outputs

1. Evidence base
2. Report – ‘GI: how & where can it help the NW mitigate & adapt to climate change’
3. Action Plan
4. Community training (CLASP funded)

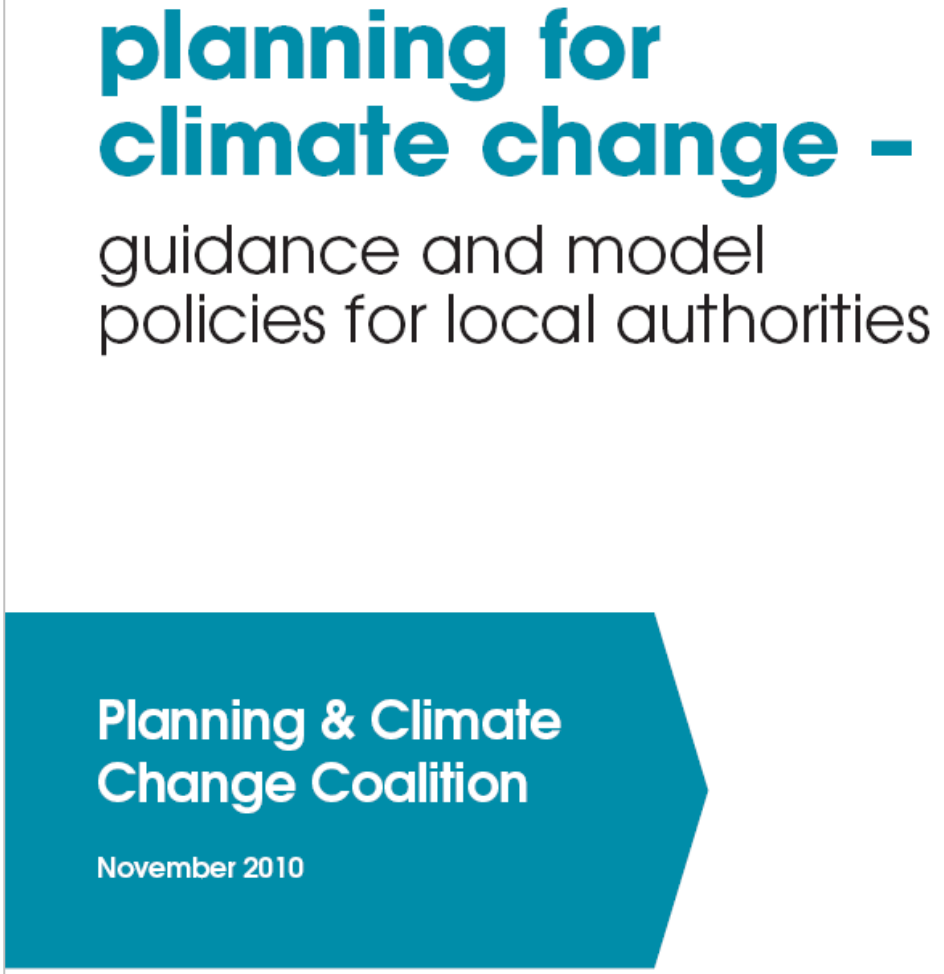


www.ginw.co.uk/climatechange

UK Adaptation Priorities

- Land use planning
- Providing national infrastructure
- Designing & renovating buildings
- Managing natural resources
- Emergency planning

- Guide for LAs & LEPs
- GI brings together biodiversity, heat, water, healthy living & transport needs to create environments in which people will want to live & work in the future
- 14 model policies
  - Policy 4 - Local planning approach for adapting to a changing climate
  - Policy 5 - Local planning approach for selecting sites for new development
  - Policy 12 - Designing for a low-carbon future in a changing climate



NW England by the 2080s
(medium emissions scenario, central estimate)

- 21% decrease in summer precipitation
  - Reduced stream flow & water quality, increased drought, subsidence, decreased crop yields, serious water stress
- 16% increase in winter precipitation
  - Increased flooding, subsidence, risks to urban drainage, sever transport disruption, risks to critical infrastructure
- 3.7°C increase in summer temperatures
  - Increased heat stress, infrastructure risks, risks to biodiversity, heat related deaths, risks to food security
- 32cm rise in relative sea levels in Liverpool

Green Infrastructure to Combat Climate Change

A Consultation Draft Action Plan for Cheshire, Cumbria, Greater Manchester, Lancashire, and Merseyside

September 2010

Supported by
communityforestsnorthwest
Northwest Regional Development Agency
grabs green and blue space adaptation for urban areas and eco towns
INTERREG IVC
European Union

Action Plan Vision

GI within Cheshire, Cumbria, Greater Manchester, Lancashire & Merseyside is **planned**, **designed** & **managed** by all relevant **stakeholders** to combat climate change, whilst delivering other benefits. All **opportunities** are taken to **safeguard**, **create**, **enhance** & **maintain** GI in order **to optimise** the climate change **adaptation & mitigation services** it provides.

Climate Change Services

- Managing **surface water**
- Managing **high temperatures**
- **Carbon** storage & sequestration
- Managing **riverine flooding**
- **Food** production
- **Material** substitution
- Fossil **fuel** substitution
- Reducing the **need to travel by car**
- Helping **other species** to adapt
- Managing **visitor pressure**
- Reducing **soil erosion**
- Managing **water supply**
- Managing **coastal flooding**

Action Plan Delivery

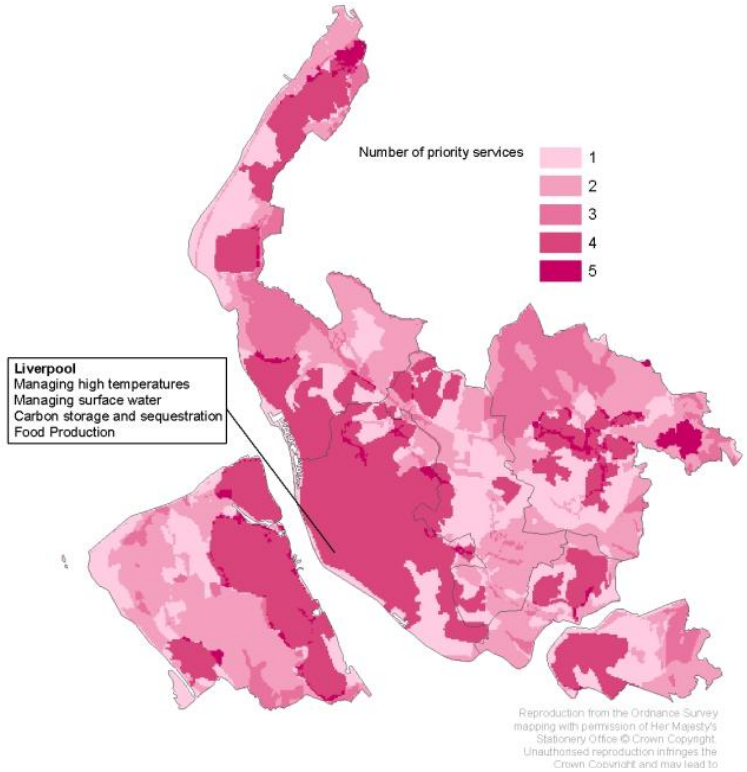
- Range of stakeholders
- Partnership working
- Named champions & action owners
- Logos to show support

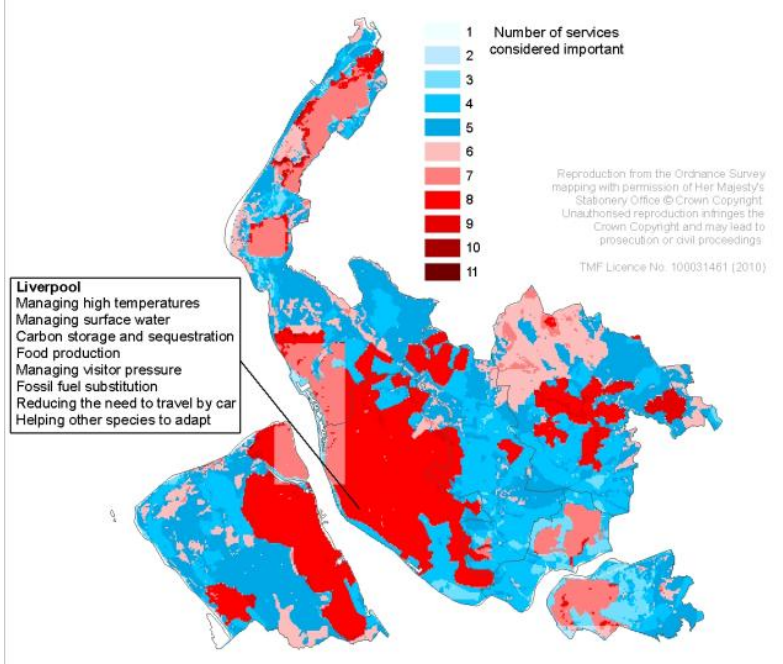
75 Actions

- Overarching actions, then grouped by service
- Mix of championing, policy, targeting, engagement & training, specific interventions
- Case studies
- Link to maps in report
- Priority actions highlighted
- For each action
  - Level – strategic, neighbourhood, plot
  - Owner
  - Mechanism
  - Supported in
  - Link to other services

- Some examples…

- **1. Overarching actions**
- c. **Target** GI interventions to areas where the **highest number of prioritised services** are considered important (fig 25/app B)
- *Level:* Strategic
- *Owner:* Environmental bodies; Land owners & managers
- *Mechanism:* Grant schemes; Incentives





- **2. Actions for managing surface water**
- b. Stronger **planning policy** requiring **new developments** & **restructuring** to use **SUDS**. Suitable train of SUDS techniques to manage surface water effectively so that it does not pass on flood risk to other areas.
- *Level:* Strategic
- *Owner:* Planners; Environment Agency; United Utilities
- *Mechanism:* LDF informed by SFRA & SWMP; S106; Planning conditions
- *Supported in:* NW RSS Flood Risk Appraisal
- *Link to services:* Water supply

- **3. Actions for managing high temperatures**
- c. **Maintain & manage existing large canopied trees**, including through TPOs, for their provision of shade.
- *Level:* Strategic; Neighbourhood; Plot
- *Owner:* LA tree officers
- *Mechanism:* Tree Strategies; TPOs
- *Supported in:* No Trees, No Future (TDAG); Urban Environment Report (RCEP)
- *Link to services:* Surface water

Workshop discussion

- Conscious plan is not resourced & may not be short term priority
- But will be important in future
- How best to make Action Plan relevant to & embed within existing & emerging structures, & strategic & local planning & policies
- Written comments by 6th December to susannah.gill@merseyforest.org.uk

Rural economy

Gemma Melia - St Helens MBC - MREAP

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GreenZone2025
Merseyside Rural Economy Action Plan

Merseyside Rural Economy Action Plan (MREAP)

Northwest Regional Development Agency
The Mersey Partnership — Developing the Economy of the Liverpool City Region
The Mersey Forest — more than trees
Halton Borough Council
Knowsley Council
St Helens Council
Sefton Council
Wirral

What is MREAP?

Strategy & programme to unlock the economic potential of rural Merseyside

MREAP = Merseyside Rural Economy Action Plan

- Led by St.Helens Council as designated LCR rural ED lead

+ Halton, Knowsley, Sefton & Wirral Councils, TMP, Mersey Rural Leader, Mersey Forest

- Rural Economic Development Officer co-funded by St.Helens & NWDA

PART 1:

- Baseline economic analysis of value, volume & opportunities
- Framework strategy & area profiles

PART 2:

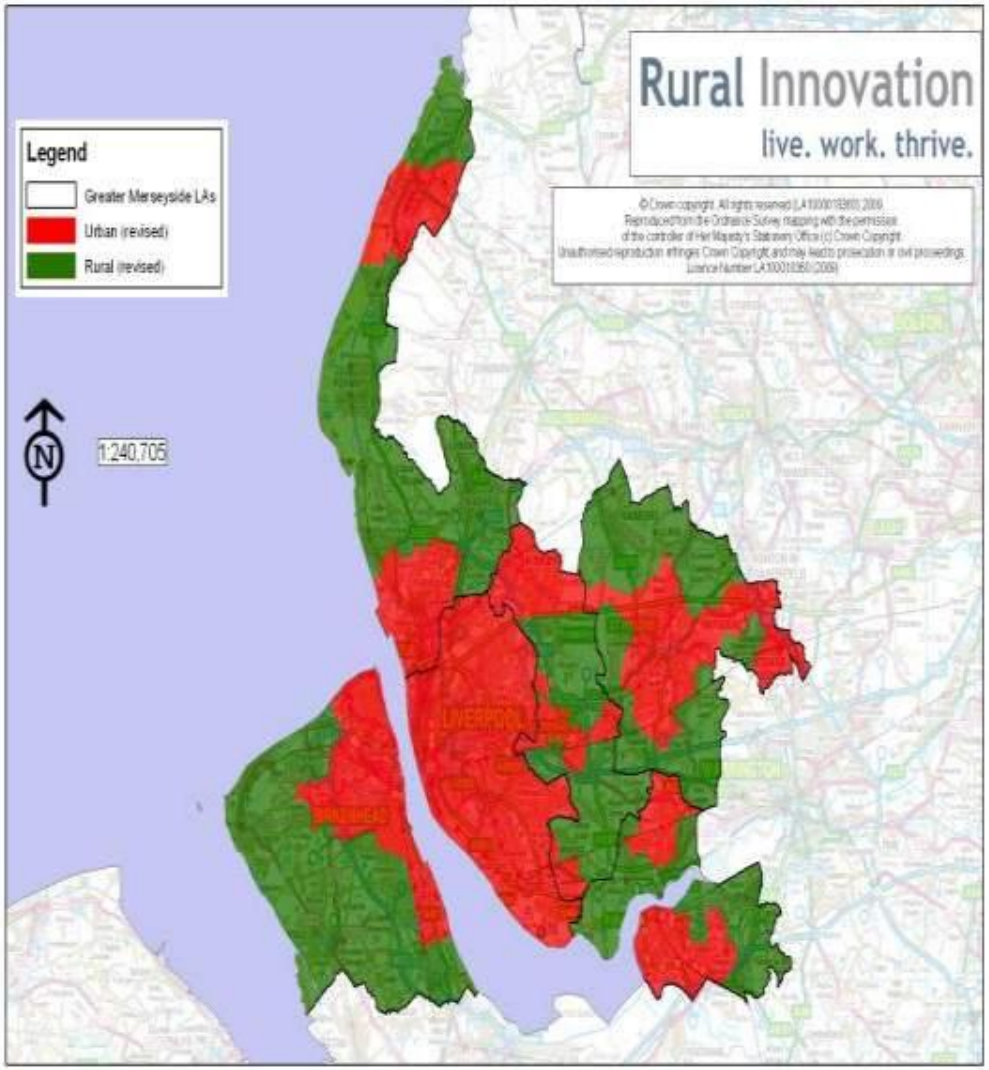
- 5 themes - 58 projects & programmes - £91m total identified investment/costs

MREAP Vision: *By 2025 Rural Merseyside will be recognised as a valuable part of the Northwest's low carbon economy & as an important and integral contributor to the economic growth of the Liverpool City Region, characterised by a distinctive & high quality environment which is a rewarding place to work & to visit.*

GreenZone2025
Merseyside Rural Economy Action Plan

What is the “Green Zone”?

- 58% of LCR defined “rural” based on greenbelt + other planning factors
- 630km² designated rural of 1087km² total LCR; 230km² of this agricultural
- Rural 21% of total LCR employment
- Includes major employment sites - Daresbury/Arrowe Park/Clatterbridge
- 22% of total LCR businesses
- 600 farms/horticultural businesses managing more than 20,000 hectares
- High landscape value
- Critical to the LCR (golf) coast & countryside tourism offer
- Higher skills levels & GVA per worker than urban Merseyside
- Contributed £4.6 billion to LCR economy in 2006 = 22% of GVA



GreenZone2025
Merseyside Rural Economy Action Plan

SWOT Analysis

Strengths
- Existing economic contribution - value & volume
- Major employment sites
- Thriving small commercial centres
- Land quality (20% grade A land)
- Coast & environmental assets
- Quality of life

Weaknesses
- Complexity of LCR Green Belt
- Lack of rural & urban market connectivity
- Limited functionality of smaller settlements
- Environmental impact of movement.
- Low demand for agricultural skills training
- Non-recognition of rural ED opportunities

Opportunities
- Attraction of knowledge-based investment
- Transition to a low carbon economy
- Round 3 wind energy
- New/developing visitor economy products
- Major golf championships
- ERDF, NWDA, RDPE funding (very short-term)
- New Local Economic Partnership
- New government policies
- More skilled & entrepreneurial people

Threats
- Short-term competitiveness impact of actions to reduce greenhouse gas emissions
- New approach to land management needed
- Need for new skills
- Need to reduce personal mobility
- Limited access to private sector investment
- Massive reductions in future public spending
- Lack of capacity -> ongoing focus on urban LCR

Analysis has also highlighted a number of key things that the Green Zone must do to support sustainable economic growth across Merseyside.

• Maximise the sustainable productive capacity of our farmland, providing the highest quality raw materials for the food, drink & renewable energy sectors

• Develop our businesses, increasing their productivity, creating employment, supporting the establishment of new businesses, & attracting entrepreneurs

• Develop our communities to ensure that they are functionally sustainable

• Maximise the biodiversity that it supports, providing the best possible natural environment & green infrastructure for residents, businesses & visitors

• Ensure that it provides “ecosystem services” to urban neighbourhoods including clean air, water flood alleviation & waste management.

From Strategy to Delivery

MREAP Strategic Themes

1. Managing Land to Deliver Value to All
2. Maximising Productivity & Competitive Business
3. Developing Rural Destinations
4. Planning for Multi-Functional Settlements
5. Creating Skills Needed for Transformation

Love….

Our Productive Land

Our Thriving Businesses

Our Tourism Destinations

Our Sustainable Communities

Our Renewable Energy

-> direct contribution to 4 LCR LEP priority transformational sectors:
Visitor Economy - Low Carbon Economy - Superport/Logistics - Knowledge Economy

GreenZone2025
Merseyside Rural Economy Action Plan

Love our productive land . . .

LCR's land produces food & fuel, stores carbon, & provides flood defences

Assets:

- 20,000 hectares of farmland
- 50% of which is best quality (Grades 1 & 2), producing vegetables & cereals
- 600 farm businesses producing food & supplying homes, shops, restaurants
- Large areas of land managed to protect low lying/coastal areas from flooding.

Issues & Opportunities:

- Integrated land management to increase outputs & broaden benefits from rural land
- Greening projects to encourage inward investment & migration of entrepreneurs
- Connect food producers & consumers, & invest in processing capacity to increase food security & reduce food miles
- Need to protect habitats & biodiversity.

Harvesting in Billinge

GreenZone2025
Merseyside Rural Economy Action Plan

Love our productive land . . .

LCR's land produces food & fuel, stores carbon, & provides flood defences

MREAP Action Programme:

- Future Land Use for Merseyside – assess & plan for optimum land use food / fuel / biodiversity / access / flood alleviation
- Planting for economic growth – greening areas to attract investment & improve quality of place.
- Supporting Merseyside - supporting local farms to move up the food & fuel supply chain
- Taste Merseyside – bring local food to consumers via retail & hospitality, farmers markets, farm shops
- Liverpool City Region Ecological Framework – an interactive mapping tool for landowners & developers to protect local wildlife & ecology

Claremont Farm, Bebington

GreenZone2025
Merseyside Rural Economy Action Plan

Love thriving businesses

Businesses based in the Green Zone contribute £4.6 billion to the LCR's GVA = 22%

Assets:

- 1/3 LCR businesses based in the Green Zone, generating 22% of both employment & economic wealth
- Key employment sites & workspace e.g. Daresbury & Stanley Grange
- Highly skilled/educated local population; good schools, HE & FE.

Issues/Opportunities:

- LCR needs more businesses, jobs & productivity to achieve its potential
- Support required for SMEs to develop commercial applications for the low carbon economy
- More, recognised rural education & training needed to create new jobs
- Planning policy/procedures cited by SMEs as a significant growth barrier.

Daresbury Innovation Centre, Halton

Love thriving businesses

Businesses based in the Green Zone contribute £4.6 billion to the LCR's GVA = 22%

MREAP Action Programme:

- Rural Business Support: provision of diverse support to rural businesses
- Low Carbon Logistics: training in carbon savings for haulage/logistics cos.
- Rural Trade School & Urban Farm: an interactive farm-based learning centre
- Facilitate private sector capital investment, e.g. Stanley Grange Workspace buildings improvements
- Rural Planning Support: dedicated planning support to rural SMEs
- Melling House Farm – renovating listed buildings for sustainable farming purposes
- Builderscrap – a dedicated website to reuse surplus building materials & provide SROI calculations & a carbon calculator.

The Woodlands Business Park, Newton-le Willows

Love green energy

Merseyside's Green Zone: a natural power station

Assets:

- Outstanding natural assets for green energy generation – onshore & offshore wind farms, biomass, biogas, tidal stream/change, solar power
- 2,600 hectares of new woodland planting in the last 20 years
- Enough potential biomass from forestry management to heat 2,800 homes.

Issues/opportunities:

- Round 3 windfarm assembly/supply chain opportunities – TMP report
- Anaerobic digestion - conversion of farm waste to energy a major government focus
- LCR imports most biomass -> locally produced renewable fuels & supply chains
- High/prohibitive SME capital outlay costs for green energy equipment investment
- Funding often focused on communities owning green energy projects & outputs.

Windfarm off the Sefton coast

GreenZone2025
Merseyside Rural Economy Action Plan

Love green energy

Merseyside's Green Zone: a natural power station

MREAP Action Programme:

- More from Trees & Biomass Energy – develop scale of supply & processing capacity to serve increasing local demand for biomass feedstock
- St.Helens Future Farming Studies – investigate heat & energy recovery for vertical farming, & see how waste management can create energy
- Maximise the benefit of feed-in tariffs to support development of local market for renewables – e.g. Thornton Hall Hotel green energy project & Knowsley Safari Park energy development plan
- Enable community-owned renewable energy schemes e.g. Port Sunlight Village heat & power from biomass.

PS Johnson & Sons Farm, Heswall

GreenZone2025
Merseyside Rural Economy Action Plan

Love our tourism destinations

LCR's coast & countryside is home to stunning scenery, attractions & events

Assets:

- England's Golf Coast; The Open at Royal Birkdale & Royal Liverpool
- Miles of accessible coast & seaside in Sefton & Wirral
- Iconic public art: *Dream* & *Another Place*
- Major attractions, e.g. Lady Lever Art Gallery, Knowsley Safari Park
- Food offer – festivals, farmers markets, award-winning chefs, cafes, restaurants.

Issues/Opportunities:

- Connect rural offer & urban markets
- Make rural areas more accessible/navigable
- Enhance/develop existing products
- Develop new products, to complement the city offer & differentiate from competitors
- Greater VE emphasis on local food
- Need for more good quality accommodation

Houghwood golf course, Billinge Hill

Love our tourism destinations

LCR's coast & countryside is home to stunning scenery, attractions & events

MREAP Action Programme:

- Develop *Dream* as a visitor destination per se & a gateway/catalyst for the wider forest park – *Dream* Legacy & Bold Forest Park
- Knowsley Modern Pentathlon & Equestrian Sports Centre – an international standard polo & pentathlon centre.
- Wirral International Visitor Centre – capitalise upon the annual 200,000 visitors to Wirral Country Park
- Lewis Carroll Interpretation Centre Daresbury – new visitor attraction
- New/improved accommodation & facilities at Mere Brook House, Thornton Hall & Spa, Mersey Valley Golf Club.

The landmark *Dream* sculpture, Sutton Manor

GreenZone2025
Merseyside Rural Economy Action Plan

Love living sustainably

The Green Zone is a place where people & families can live, work and thrive

Assets:

- Attractive, well-connected towns/villages
- Rapid transit bus & rail network
- Strongly performing schools & colleges
- Highly skilled resident population
- Investment in smart grid & energy efficiency in housing & workspace
- Great natural assets = economic well-being.

Issues/Opportunities:

- Many LCR rural settlements not achieving their economic potential
- 70% of economically active residents commute beyond the Green Zone to work
- Car is the dominant mode of travel to work
- Substantial greenhouse gas emission reductions required re. people/goods/ services.
- limited availability of rural workspace

Antony Gormley's *Another Place*, Crosby

GreenZone2025
Merseyside Rural Economy Action Plan

Love living sustainably

The Green Zone is a place where people & families can live, work & thrive

MREAP Action Programme

- Delivering improvements to rural transport via Station and Bus Stop Improvements
- Rural Cycle Signage provide cycle signage within St.Helens & Knowsley to help encourage cycling & raise awareness of cycling routes.
- Demonstrating community scale application of renewable heat & power at Port Sunlight
- Developing exemplar eco homes via Helena Partnerships' Green Base
- Encouraging home-working and live-work through positive planning - Rural Planning Advice

The Bottle & Glass pub, Rainford

GreenZone2025
Merseyside Rural Economy Action Plan

Next Steps

Making it happen…

- Finalise LCR Rural Steering Group & ToR
- Get individual LA buy-in/approvals to MREAP
- Print, launch, publicise MREAP
- Support ongoing project developments & delivery e.g. *Dream* legacy
- Support new project development
- Assist with securing funding
- Support to SMEs & stakeholders
- Dovetail with emerging LEP agenda

Tigers at Knowsley Safari Park

GreenZone2025
Merseyside Rural Economy Action Plan

Planning Framework

Tom Ferguson - The Mersey Forest

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- City region policy priorities:
- Major economic initiatives with a spatial dimension
- City region spatial character relevant to green infrastructure
- Evolving strategic greenspace issues within the constituent authorities
- National policy context
- Cross boundary links

Overview

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- A commitment to sustainable development
- The need to tackle climate change
- The removal of the regional tier of governance
- Priority to be given to decision making at the local level
- A requirement for local authorities to cooperate and support for the LEP
- Community led engagement
- A period of severe public sector financial constraint

NATIONAL POLICY

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- Liverpool City Region approved
- Relationship to spatial planning
- Relationship to green infrastructure
- Paragraph 7.4

LOCAL ENTERPRISE PARTNERSHIPS (LEP)

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Landscape character

Hydrology

Biodiversity

SPATIAL CHARACTER

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Liverpool City Centre, including Liverpool One

Mersey ports inc Mersey Multi –Modal Gateway(3MG) and SFRI Parkside

Liverpool and Wirral Waters

Liverpool Knowledge Quarter

New Heartlands HMRI

Liverpool City centre

Northshore (formerly Atlantic Gateway)

St.Helens Regeneration Corridor

Southport Classic Resort

Liverpool John Lennon Airport

Daresbury Science and Innovation Centre

Liverpool Waterfront Growth Points

Eastern Gateway

Approach 580 Gateway

Huyton-Prescot

Mersey Waterfront Regional Park

Mersey Gateway

Liverpool Science Park

Mersey Tidal Energy Project

Strategic Investment Areas:

International Gateway (Speke/Halewood)

Wirral waterfront

LOCAL RELEVANCE: STRATEGIC INITIATIVES (lots)

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- **Local relevance: strategic greenspace**
- **Please check the list in the implications document**

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Atlantic Gateway

Iain Taylor
Peel

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Green Infrastructure Framework
Liverpool City Region

ATLANTIC GATEWAY

Iain Taylor
Partnerships Manager
Peel Holdings (Management) Ltd

Foundations of The Peel Group

- NW based with UK geographical spread
- Assets owned and under management approaching £6bn
- Regeneration track record
- Long term perspective – master plan approach

Sir Robert Peel

Daniel Adamson

Third Duke of Bridgewater

John Bright

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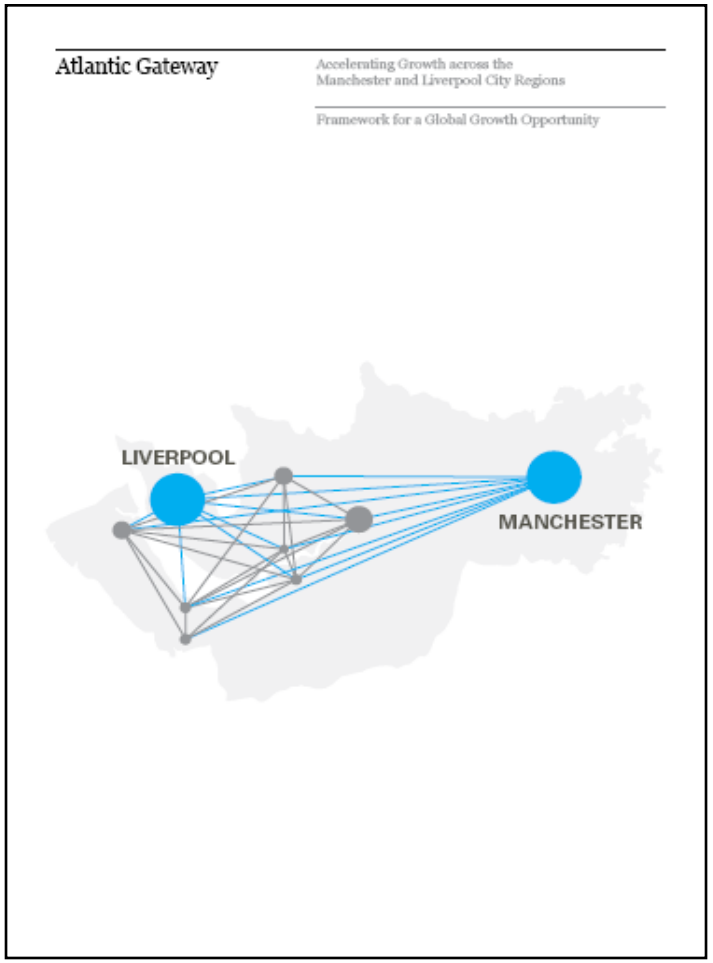
Atlantic Gateway Framework

The Vision

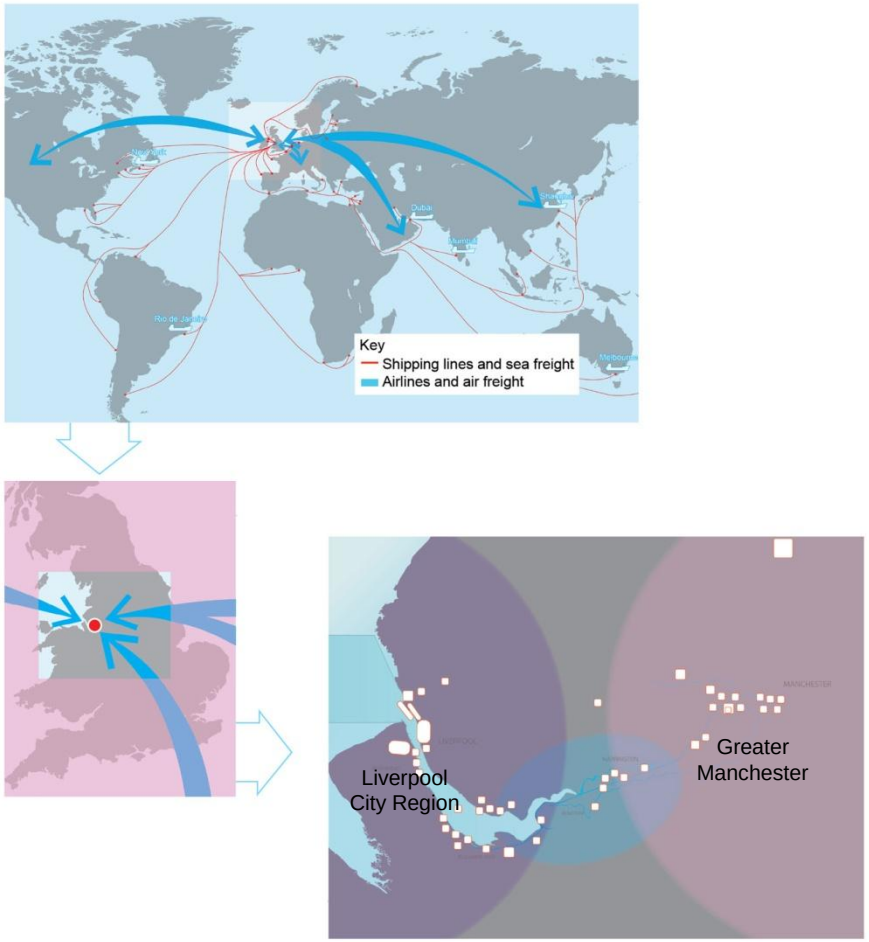
"The Atlantic Gateway will be a low carbon, sustainable, economic growth zone of international importance, driven by two of Europe's leading city regions and second only to London within a UK context."



NWDA
March 2010

Why Atlantic Gateway?

- Outward looking – Global reach
- Supporting enterprise and increasing competitiveness
- Market drivers of economic growth
- Partnerships with local stakeholders and customers
- Bringing together the economic strengths of the cities of Liverpool and Manchester with those of Cheshire and Warrington



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International Comparables – Scale is Important

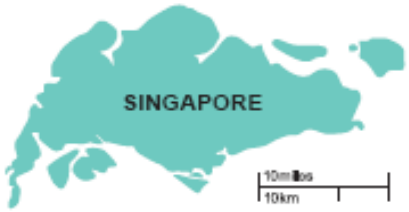
Atlantic Gateway

Population	6 million
Employment	1.4 million

The Ruhr, Germany

Population	5.2 million
Employment	2.27 million

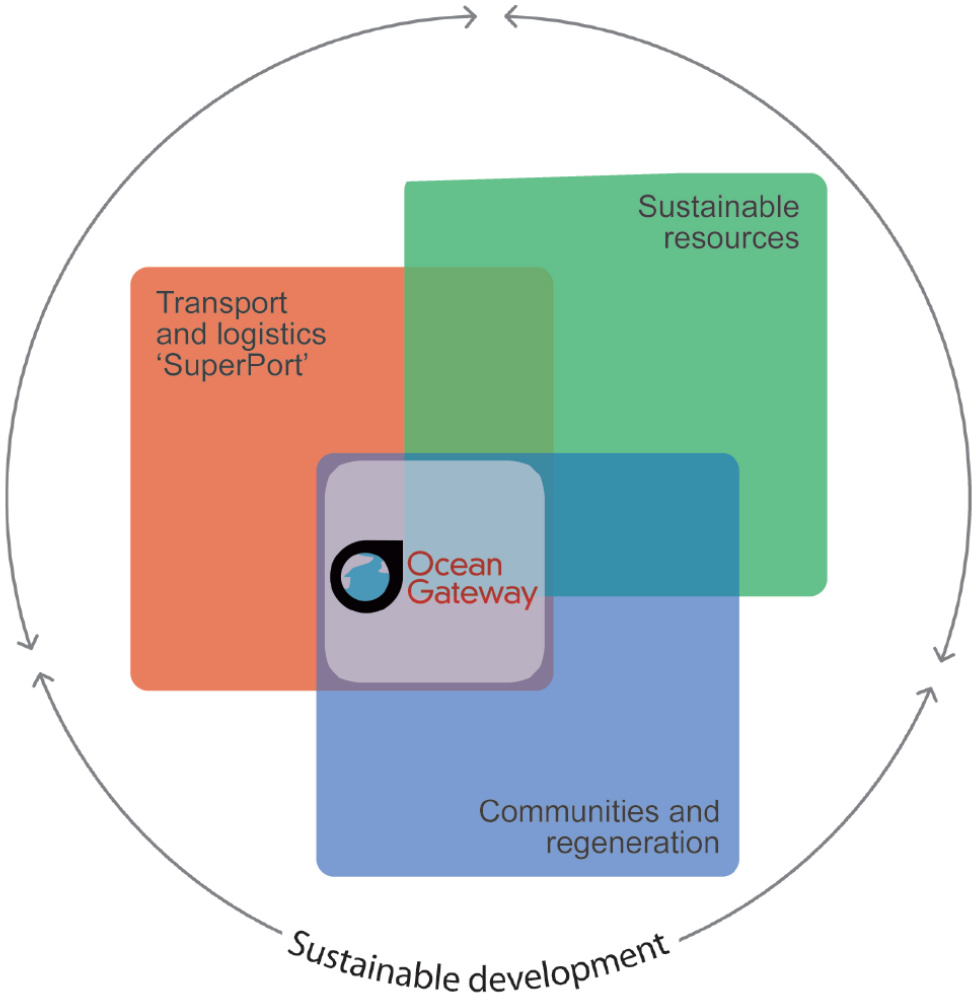
Singapore



Population	4.99 million
Employment	2.94 million

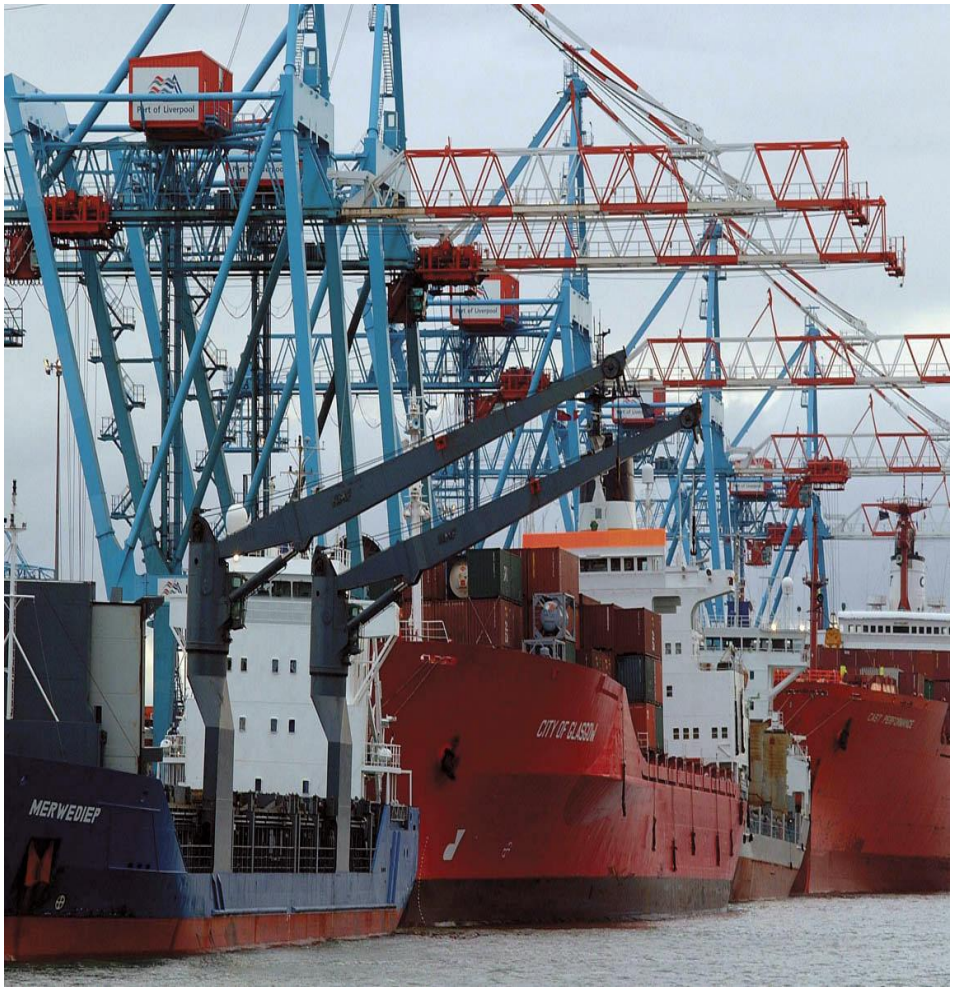
Unlocking the Opportunity – Key Themes

- Driving International Trade through Innovation in Key Sectors
- Creating a Globally Connected Gateway
- Creating an Environment for Growth
- Sustainable Infrastructure for a Less Carbon Intensive Economy



Port of Liverpool – The North's Global Trade Gateway

- 1994 - 9m tonnes pa
- 2009 - 32m tonnes pa
- 900,000 TEUs pa capacity
- Primary UK port for North Atlantic/ trade to Ireland
- New Cruise Terminal at Pier Head



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Seaforth Post-Panamax Container Terminal

A £200+ million Post-Panamax container terminal at the mouth of the River Mersey, which will almost double the container capacity of the Port of Liverpool to 1,500,000 teus per annum.

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Road haulage savings via Liverpool

Cost per HGV single trip

	Trafford Park	Lutterworth	Leeds	Birmingham	Glasgow	Newcastle
Liverpool	£162.67	£385.72	£201.63	£354.55	£468.52	£428.58
Felixstowe	£492.87	£387.67	£465.59	£416.89	£731.06	£546.44
Saving	£330.20	£1.95	£263.97	£62.34	£262.54	£117.86

- Liverpool shipping premium neutralised by inland transport savings

Source: Calculation methodology based on fixed / variable running costs. Fuel at £1/litre

Manchester Ship Canal

- 36 Miles of seaway linked to Mersey at Eastham
- Major carrier of oils, fuels, chemicals – 7.8m tonnes per annum
- Lifeline for Shell refinery – refining over 20% UK fuel
- UK Green Highway already removing 8,000 trucks per annum off roads

Manchester Ship Canal – Port Salford

- A comprehensive inland international terminal located in the industrial heartland of the North West of England
- Port Salford is to be developed on a 70 hectare site, with railhead capable of handling 8 container trains a day
- An integral barge feeder terminal connecting Port Salford with the Port of Liverpool

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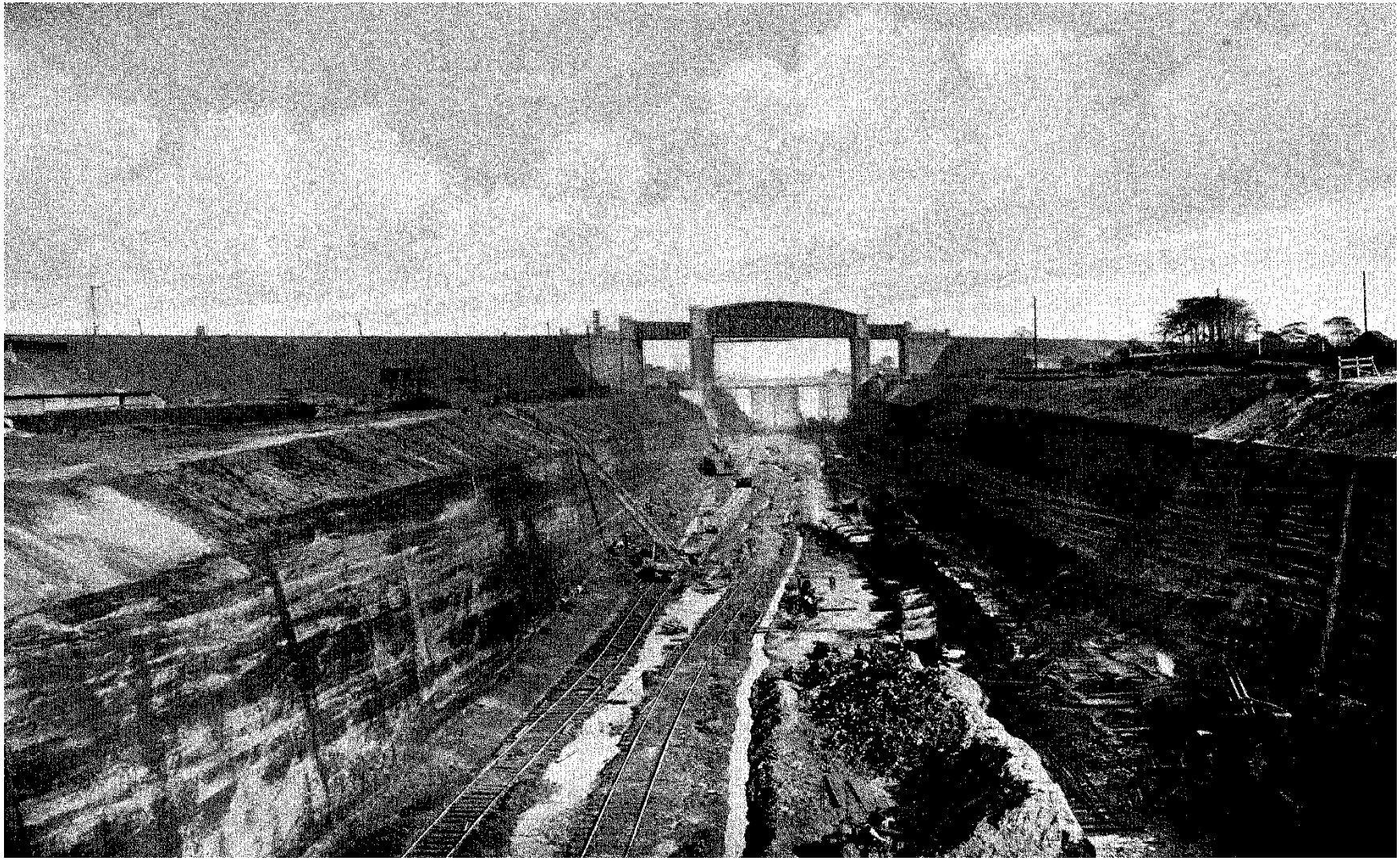
English Navvies and the Iron Horse, Acton Grange

Latchford Cutting and Viaduct - Warrington



Connectivity – Strategic Location

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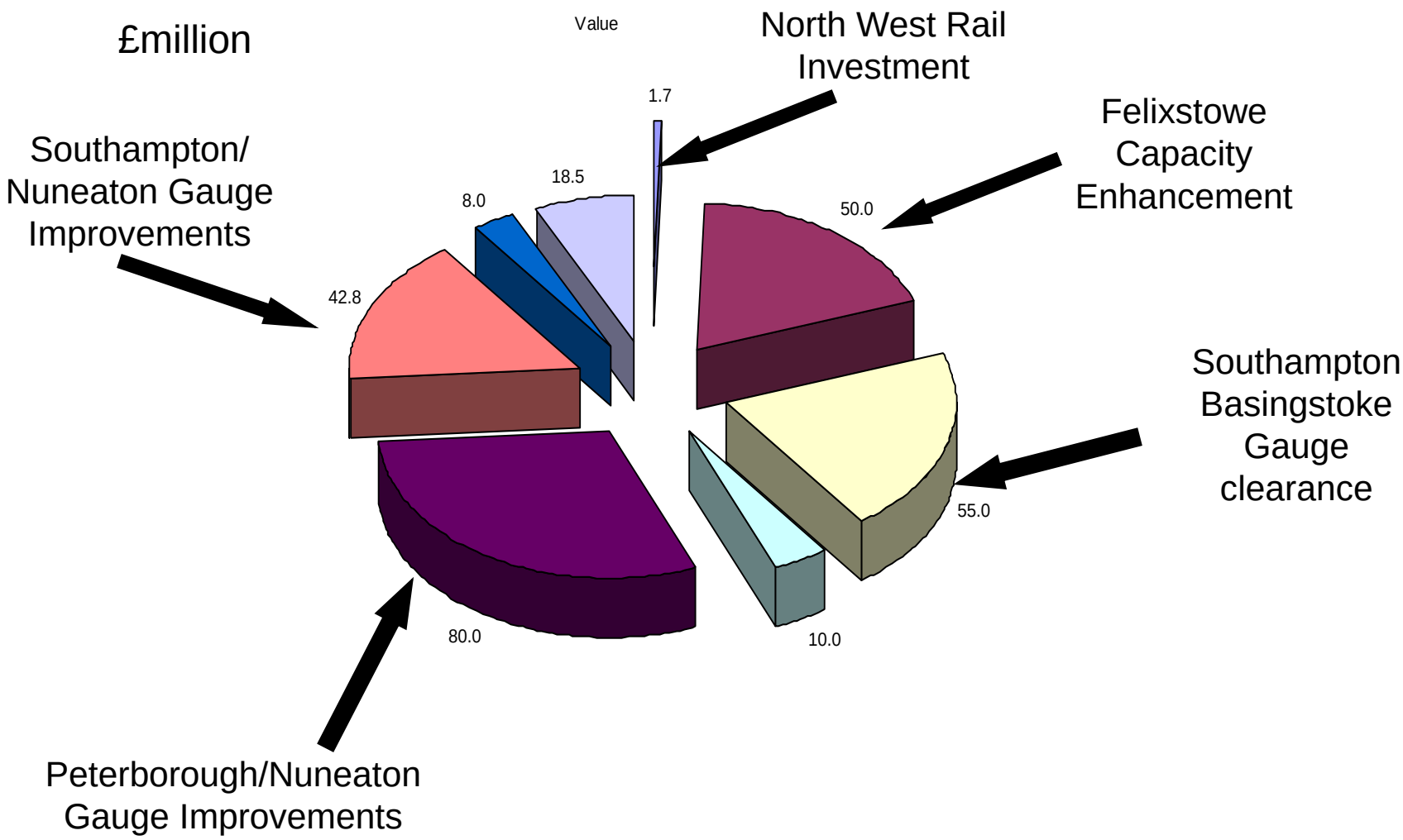
Strategic Rail Investment (Control Period 4)



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Low Cost = Lower Carbon

From	To	KG CO2
Antwerp	Liverpool	740
Liverpool	Manchester	233/80
	TOTAL	**973/820**

Further benefits from an inland waterway solution

From	To	KG CO2
Felixstowe	Manchester	**1430**

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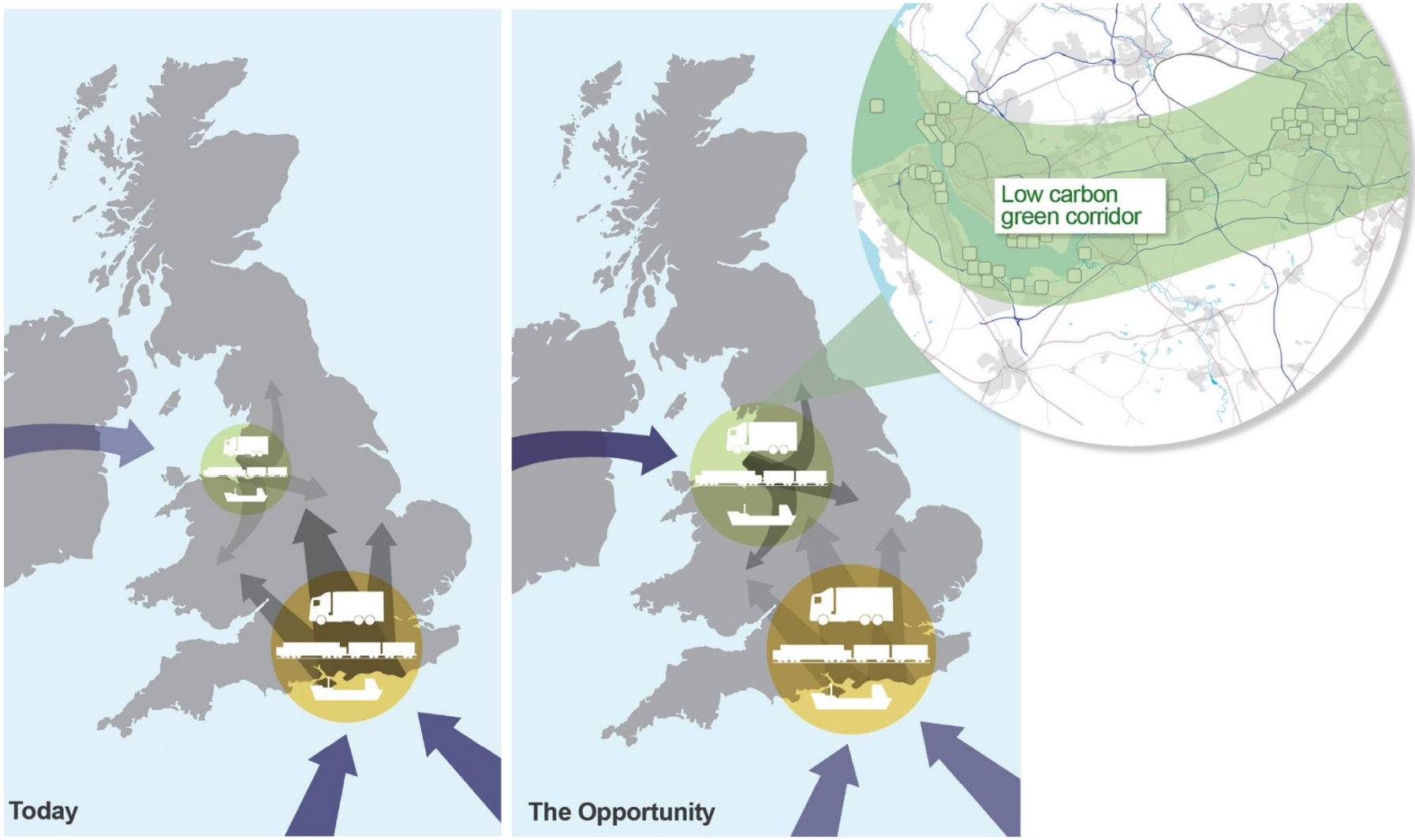
Sustainability - Global Freight via Low Carbon Local Ports



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Manchester Sur Mer – A Sea-Ductive Prospect

(By permission of the Proprietors of *Punch*.)

Low Carbon Resources - Energy, Waste and Water

Mersey Tidal Power –
Operational 2020

Scout Moor Wind Farm
65MW – Operational 2008

Mersey Wind Farm
13.6MW – Operational 2009

Ince RRP
95MW – Operational 2015
Waste reprocessing park
Tri-modal access

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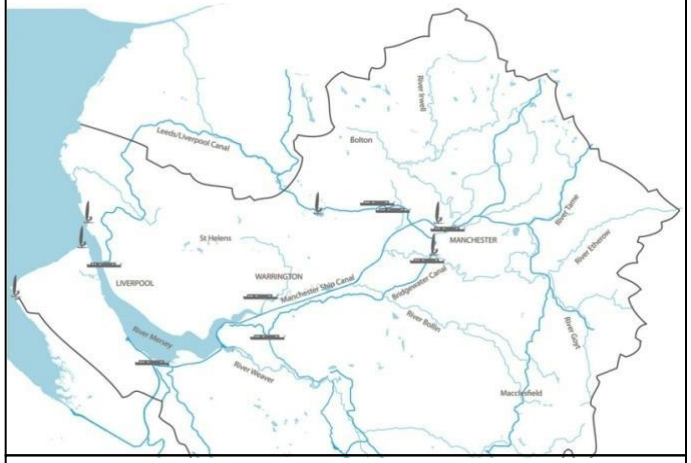
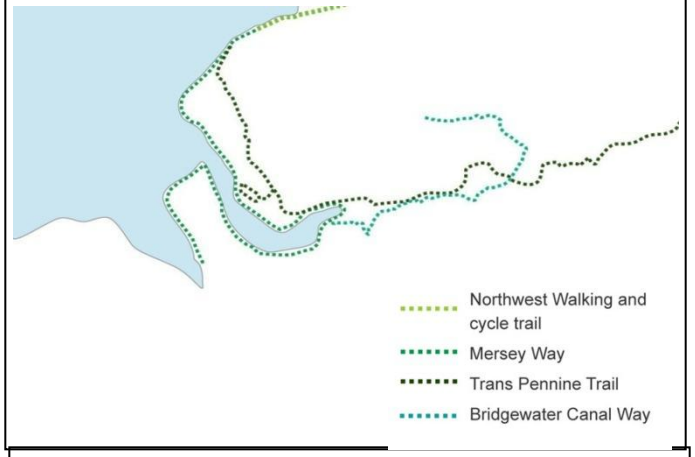
…. and Environmental Assets

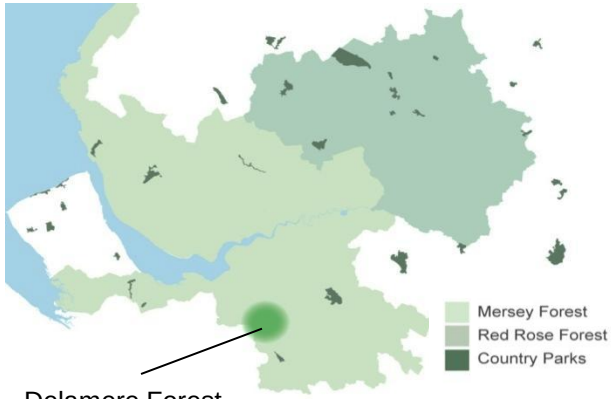
Water network



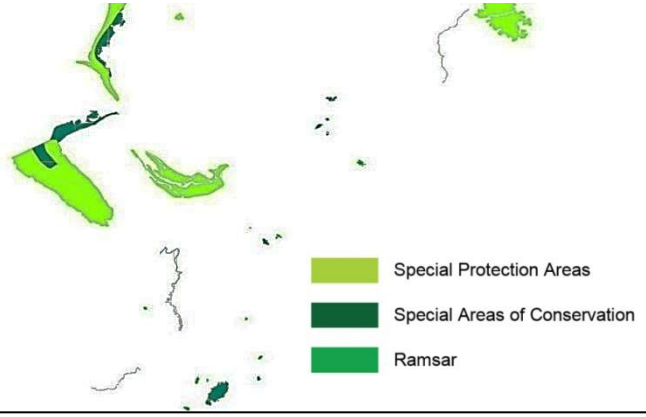
Strategic routes



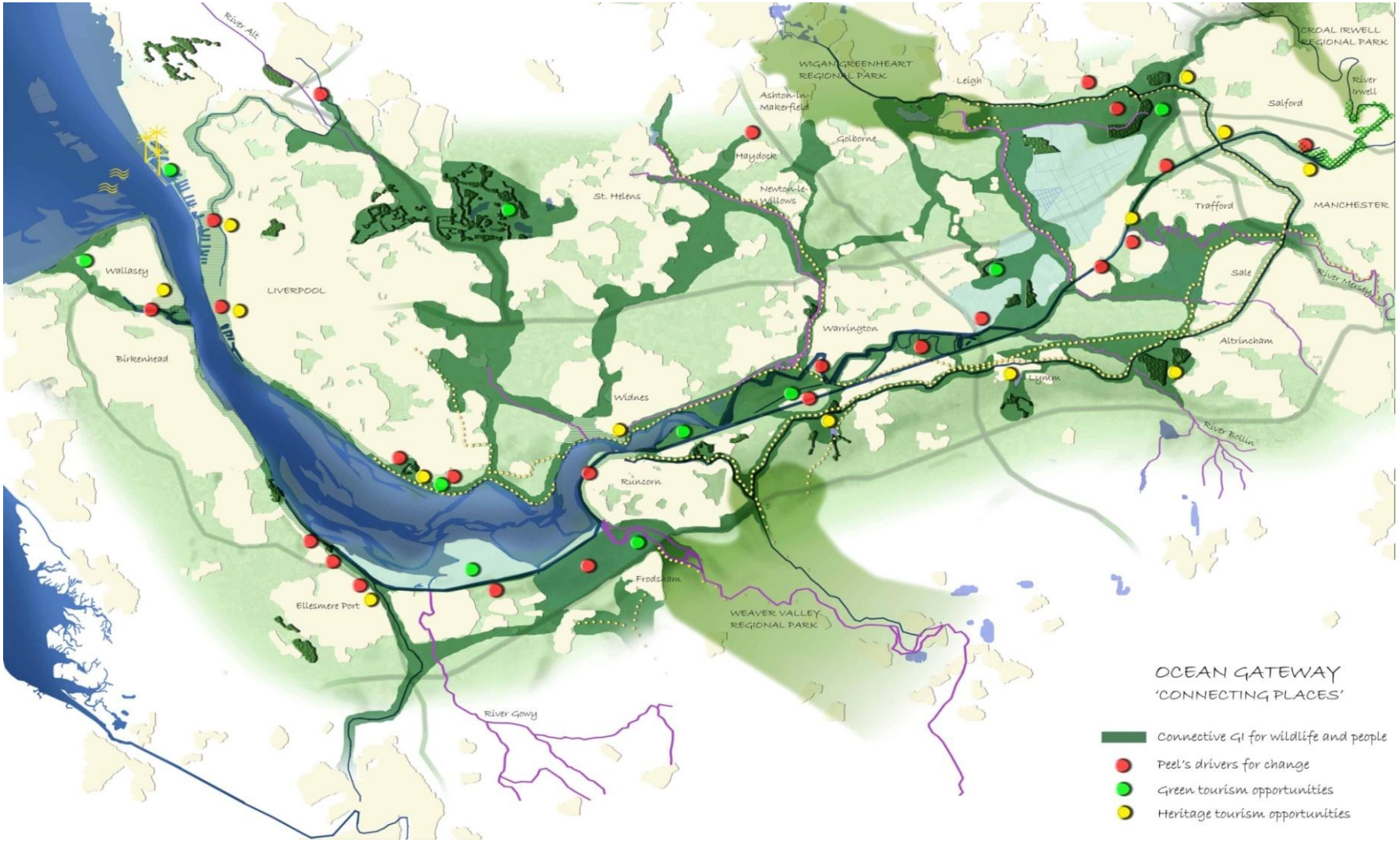
Country Parks and Community Forests



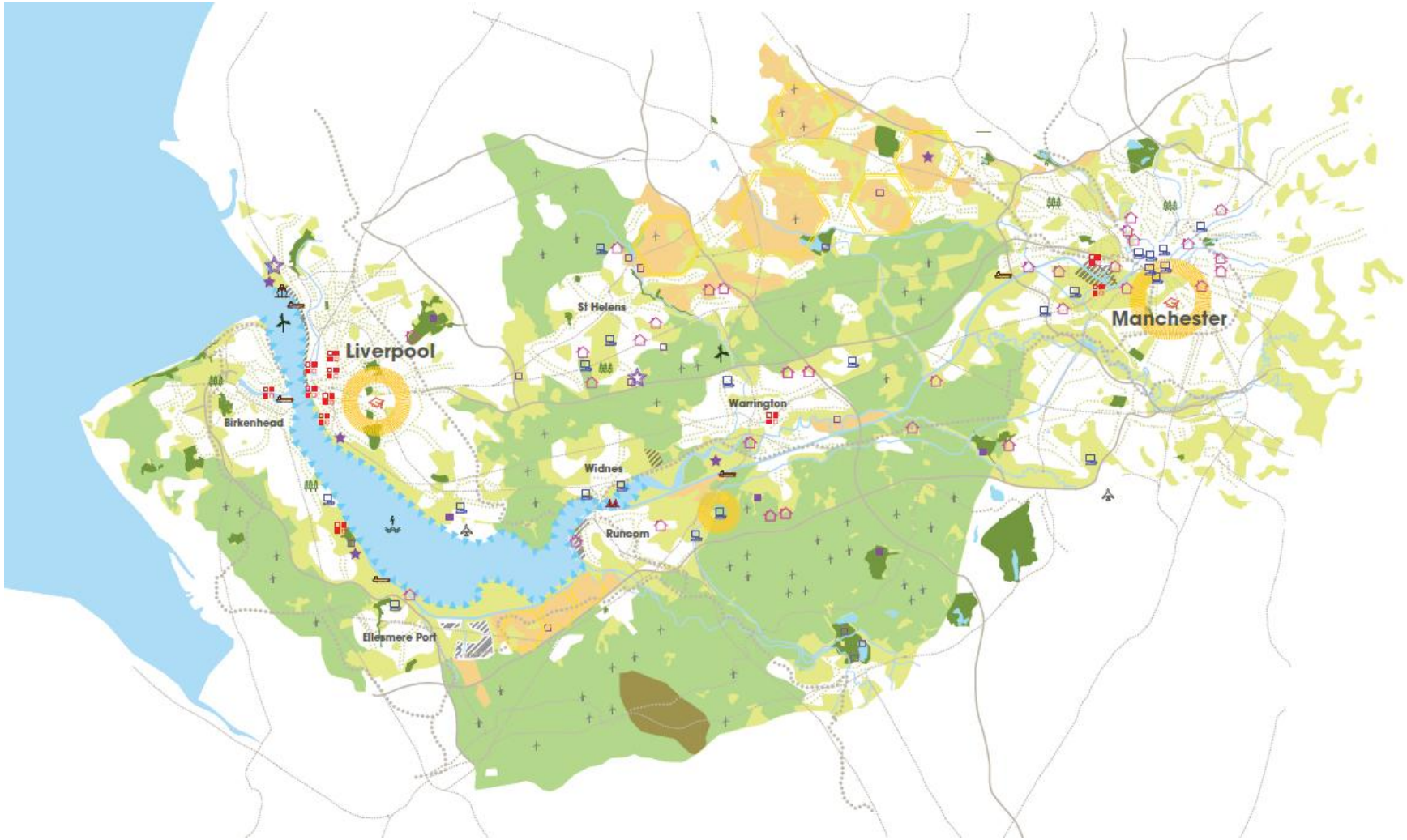
International designations



Green Infrastructure – Economic Growth in a Low Carbon Area



Adapting the Landscape



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Workshop

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