

Natural Economy Northwest

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Programme Director

The Socio-Economic Benefits of Investment in the Green Infrastructure



Natural Economy Northwest

A 3 year Regional Partnership Programme.

*for a prosperous economic future
with a thriving natural environment for the northwest England.*

£3 million funding

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Green - The 5th Critical Infrastructure



The 4 Critical Infrastructures:

Water.

Waste.

Power.

Transport.

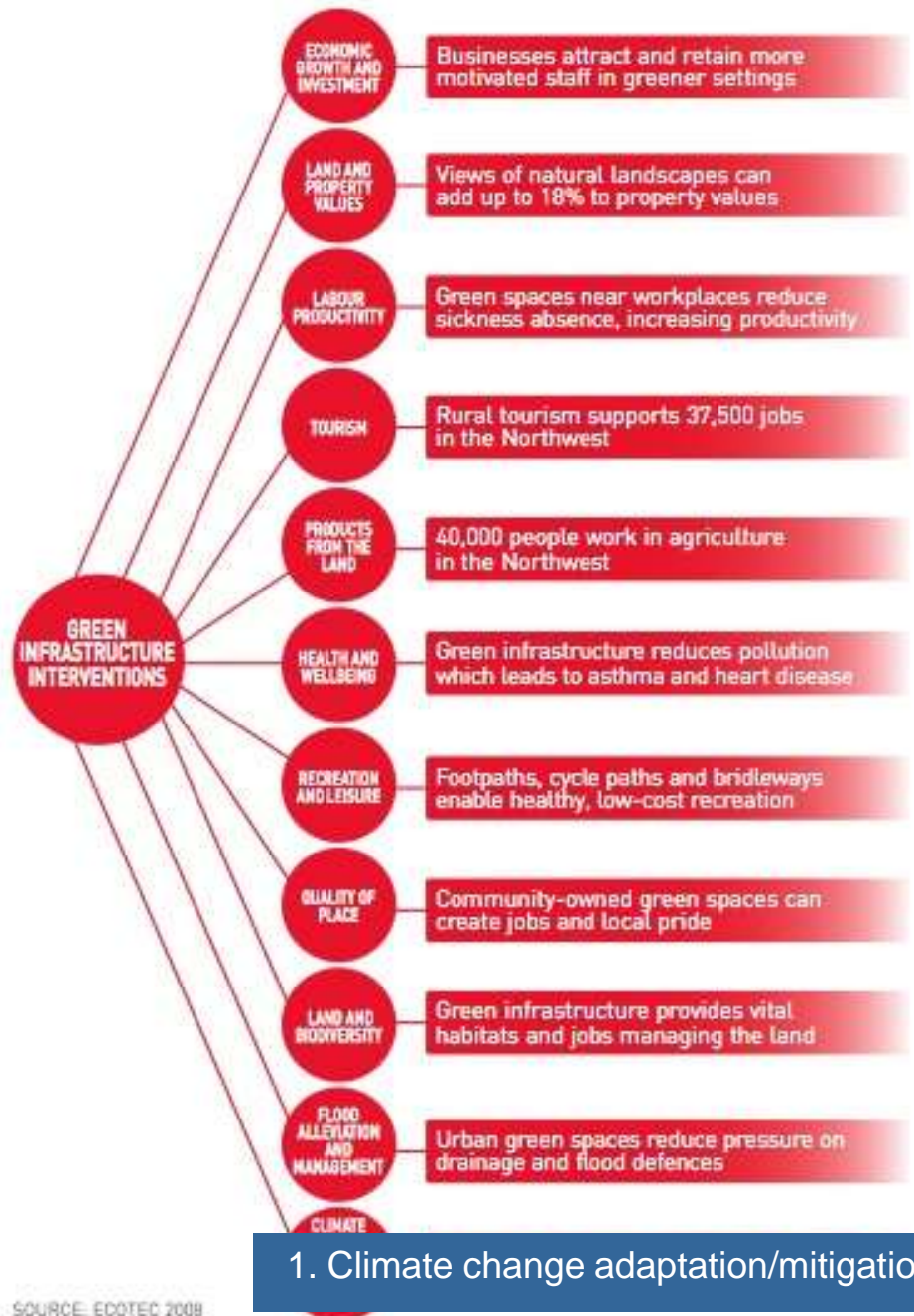
The 5th Critical is:

Green!





The Economic Value of Green Infrastructure



SOURCE: ECOTEC 2008

1. Climate change adaptation/mitigation

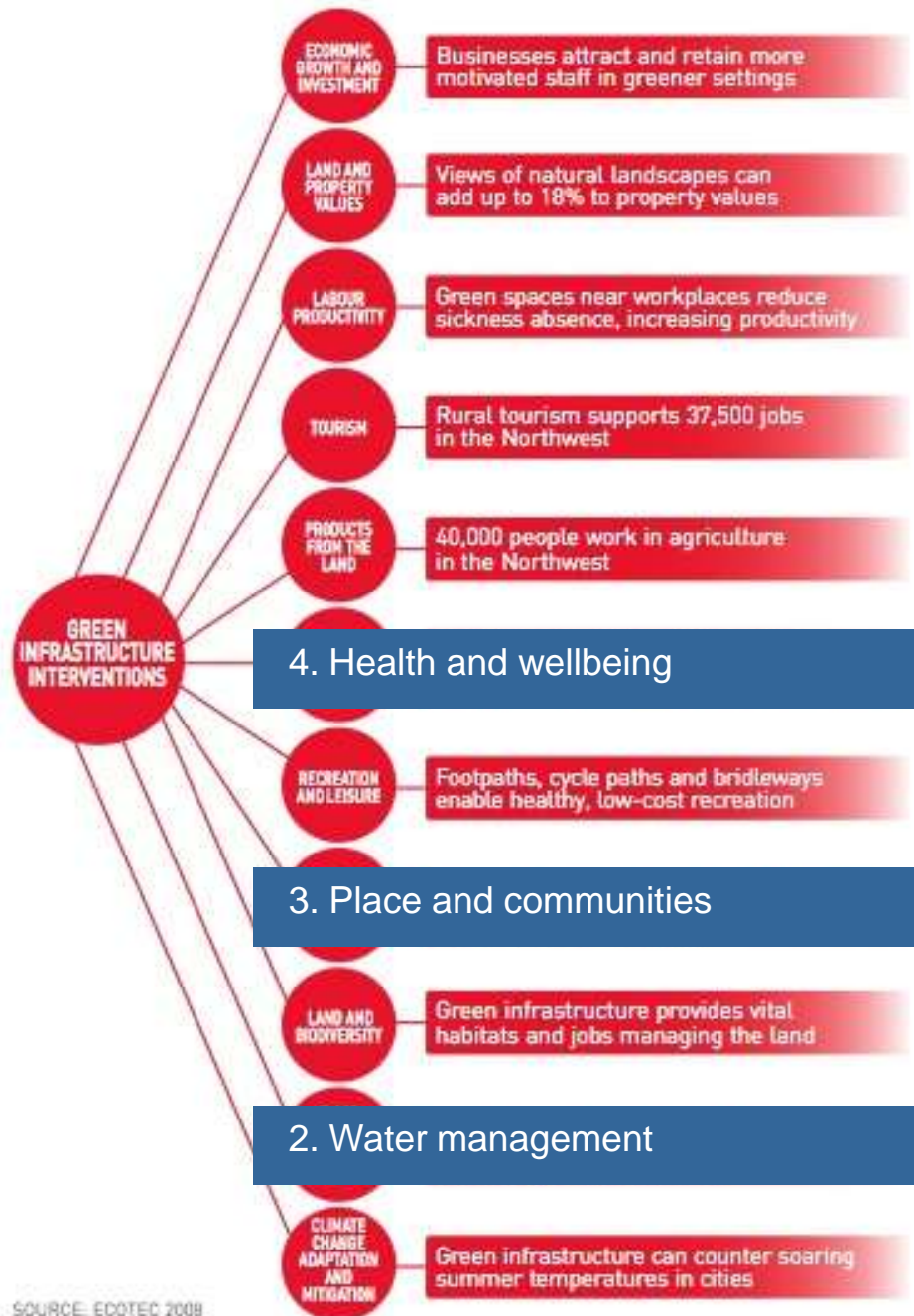
Climate change

Greenspace provides a natural buffer

- shelter can reduce the cost of heating and cooling buildings by 10%
- vegetation helps to moderate the urban heat island effect



The Economic Value of Green Infrastructure



SOURCE: ECOTEC 2008

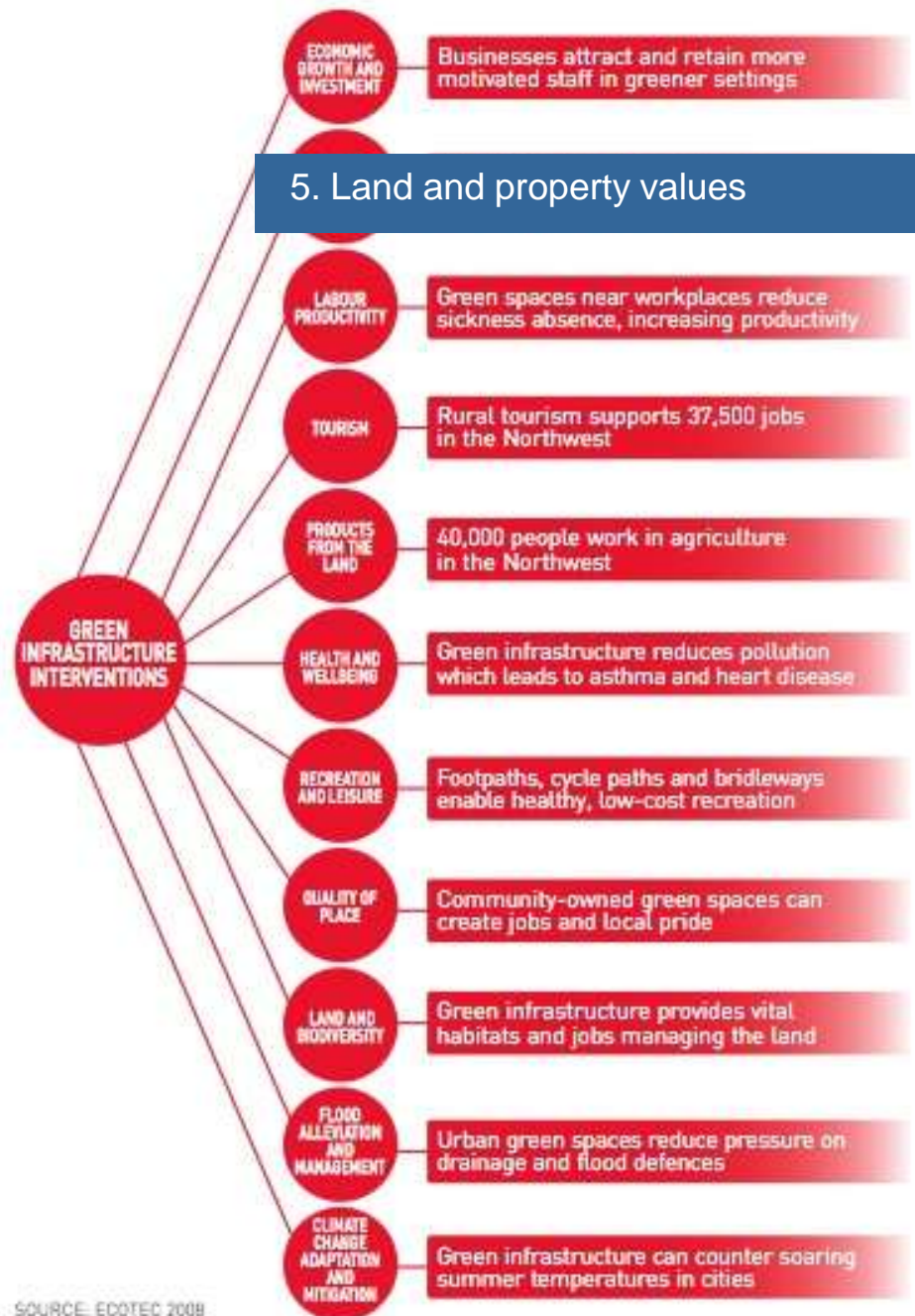
Well being

- over 10 million workdays lost to stress in 2006
- as little as 3 - 4 minutes exposure to greenspace brings measurable stress relief





The Economic Value of Green Infrastructure



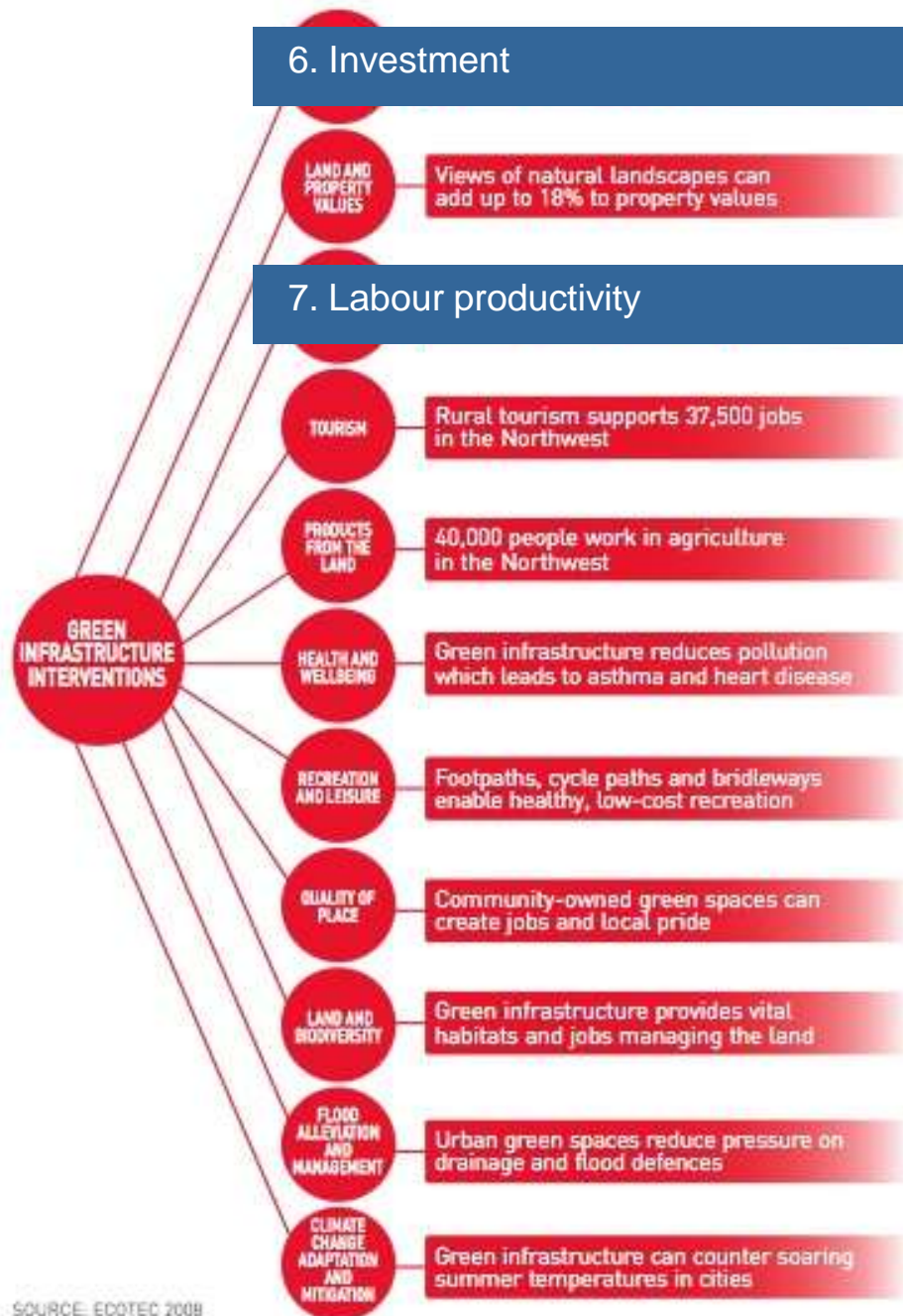
SOURCE: ECOTEC 2008



People are prepared to pay up to 18% more!



The Economic Value of Green Infrastructure



SOURCE: ECOTEC 2008

Labour productivity

Green surroundings

- improve staff morale
- enhance problem solving
- increase output
- reduce absenteeism
- lower staff turnover
- aid recruitment



The Economic Value of Green Infrastructure



SOURCE: ECOTEC 2008

Facilitating projects to maximise the benefits.



Green infrastructure benefits - environmental projects

- Carbon sequestration & Climate adaptation

- Investment for business and tourism.



Green infrastructure benefits - biodiversity projects

- energy efficiency, water management & enhancing roof life
- new open spaces & better image & amenity value
- contributing to the local economy

22 hectares of potential green roofs in Manchester.



Green infrastructure benefits - socio-economic projects

**Back to work
through
environmental work**

- Reduce social costs
- Increase self esteem
- Into employment



www.naturaleconomynorthwest.co.uk



Natural Benefits for Business

The contribution of biodiversity projects to the economy,
the environment and the community

Northwest case studies from SITA Trust and Natural Economy Northwest



Growing
Natural Tourism

Analysing, presenting and comparing natural economy projects.

Benefit	Project A	Project B	Project C	Project D
Climate change adaptation and mitigation.	Red	Red	Red	Red
Water management.	Red	Yellow	Orange	Red
Place & Communiies.	Red	Orange	Orange	Orange
Health and well-being.	Yellow	Orange	Yellow	Yellow
Land and property values.	Yellow	Yellow	Yellow	Red
Investment	Red	Orange	Orange	Yellow
Labour productivity.	Red	Red	Yellow	Red
Tourism.	Yellow	Orange	Orange	Yellow
Recreation and leisure.	Yellow	Yellow	Yellow	Orange
Biodiversity.	Yellow	Orange	Orange	Yellow
Land management	Red	Yellow	Yellow	Orange

Building natural value for sustainable economic development

The green infrastructure valuation toolkit user guide

STEERING GROUP



Moving Forward:
The Northern Way



Natural Economy
Northwest

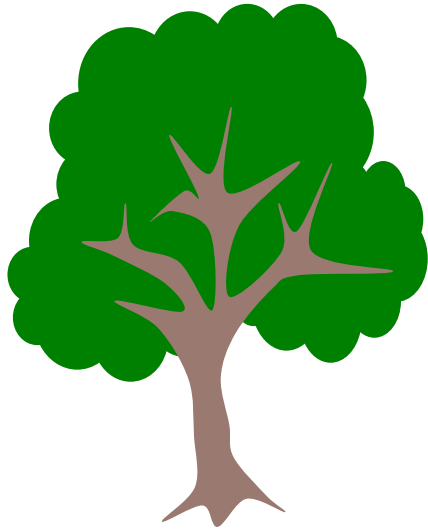


**GREEN
INFRASTRUCTURE
ASSET / INTERVENTION**

FUNCTION

BENEFIT

VALUE



SHELTER FROM
WIND



£ REDUCED BUILDING
HEATING

M

£ AVOIDED CO₂

M

EVAPO-
TRANSPIRATION



CLIMATE CHANGE
ADAPTATION &
MITIGATION



° C REDUCED
TEMPERATURES

Qt

CARBON
SEQUESTRATION



£ MARKET VALUE OF
CO₂ STORED

M

PARTICULATE
FILTERING



HEALTH & WELL
BEING



£ REDUCED POLLUTION
CONTROL

M

REDUCTION
PULMONARY DISEASES

QI

In **monetary** terms

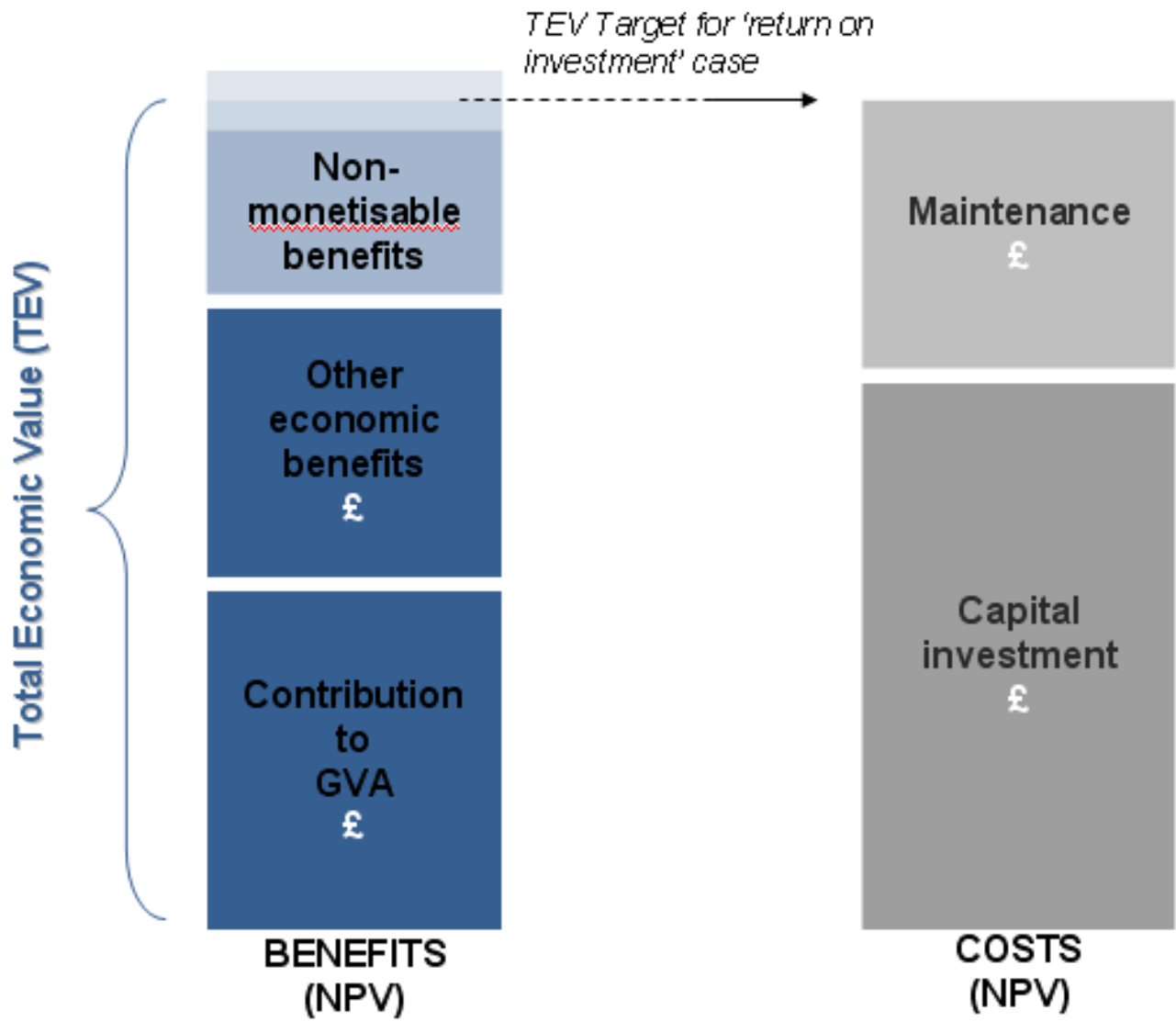
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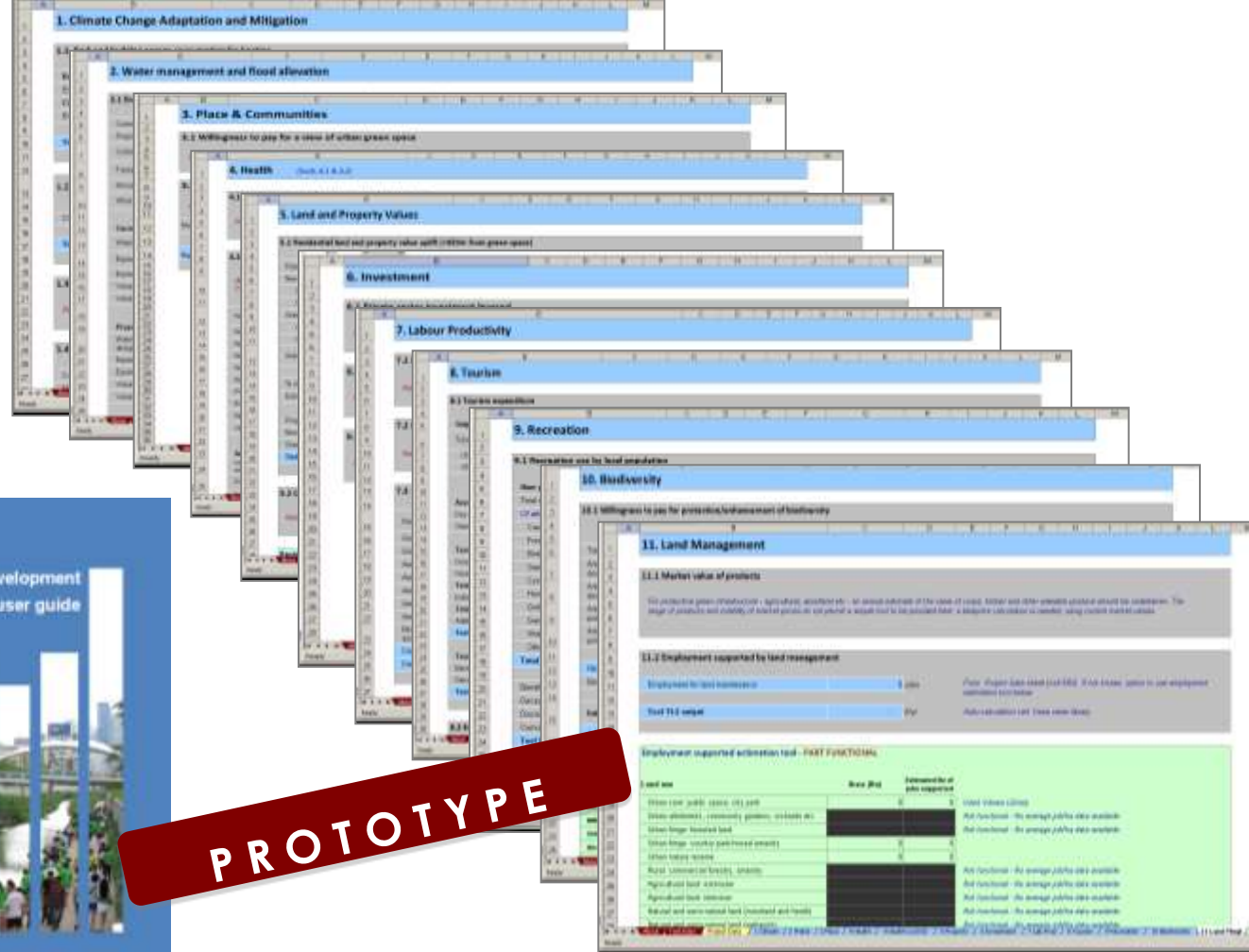
In **quantitative** terms

Qt

In **qualitative** terms

QI





User Guide

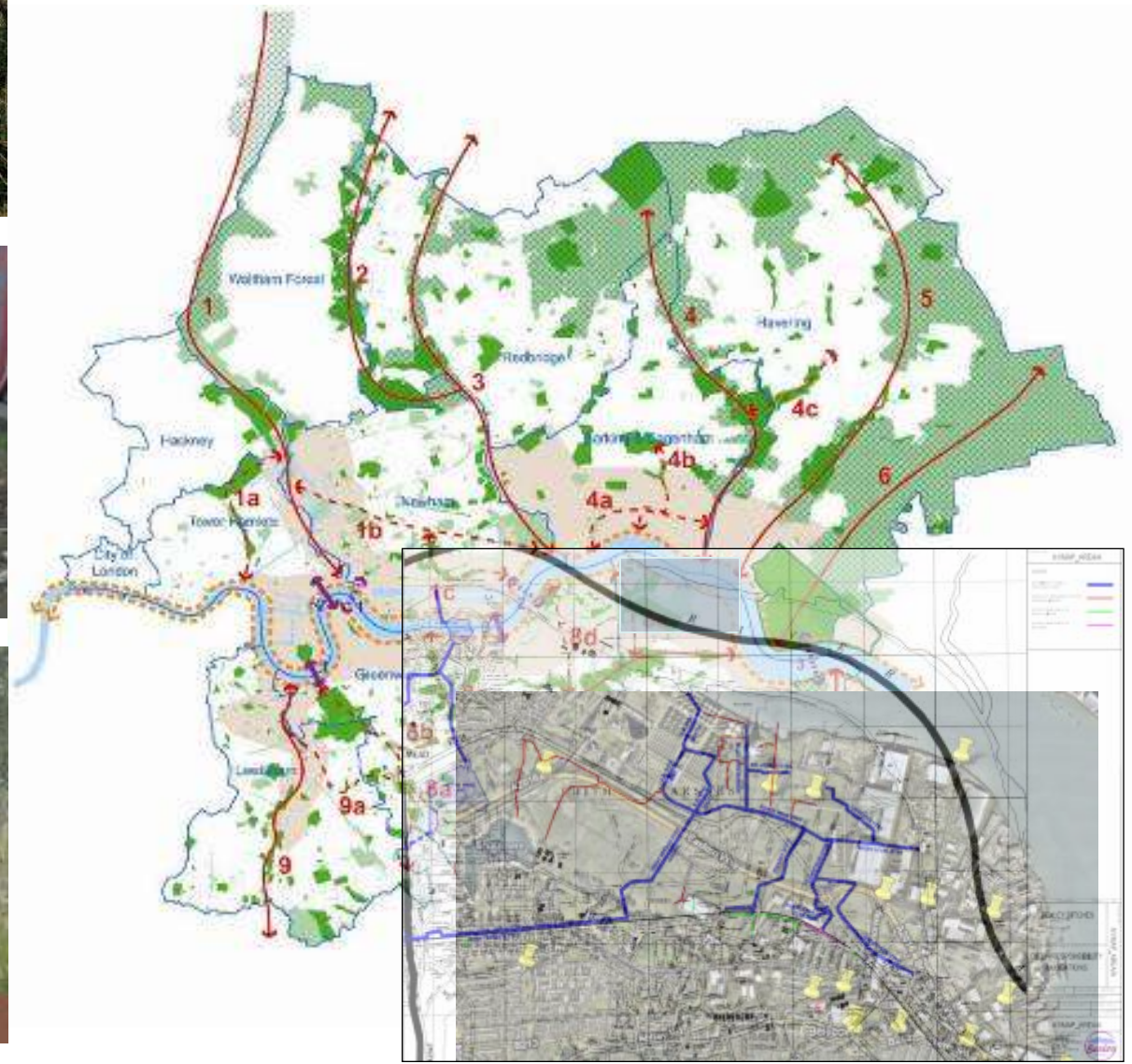
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Spreadsheet-based
Calculator

Ropner Park Stockton-on-Tees



Belvedere Green Links, London Borough of Bexley





- | | | | |
|---|--|-------------------------|----------|
| Agricultural land | Grassland, heathland, moorland or woodland | Park or public garden | Wetland |
| Allotment, community garden or urban farm | Green roof | Private domestic garden | Woodland |
| Cemetery, churchyard or burial ground | Institutional grounds | Street trees | |
| Demolish land | Orchard | Water body | |
| General amenity space | Outdoor sports facility | Water course | |

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Natural Economy Northwest and the Green Infrastructure Valuation Toolkit



www.naturaleconomynorthwest.co.uk

[www. bt.ly/givaluationtoolkit](http://www.bt.ly/givaluationtoolkit)

Follow up on Valuation Toolkit

givaluation.network@merseyforest.org

Acknowledgements

- 4NW
- AONBs
- BiTc
- Business Link
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- CBI
- Central Salford Regeneration
- Cheshire & Warrington Economic Alliance
- Cheshire County Council
- Cheshire Farmstay
- Cheshire Biodiversity Partnership
- Cheshire Wildlife Trust
- Chester & Cheshire Tourist Board
- Community Forest NW
- CREA
- Cumbria Biodiversity Partnership
- Cumbria Business & Environment Network
- Cumbria County Council
- Cumbria Tourism
- Cumbria Wild Zone Group
- Cumbria Wild life Trust
- Cumbria Woodlands
- Cumbria Vision
- Defra
- Professor Ed Maltby
- Environment Agency
- Enworks

- Forest of Bowland AONB
- F0restry Commission
- Friends of the Lake District
- Government Office NW
- Greater Manchester Biodiversity project
- Greenspace NW
- Groundwork Manchester
- Groundwork Merseyside
- Groundwork NW
- Homes & Communities Agency
- Professor John Handley
- Lake District National Park
- Lancashire & Blackpool TB
- Lancashire Biodiversity Partnership
- Lancashire County Council
- Lancashire Economic Partnership
- Lancashire, Manchester & North Merseyside Wildlife Trust
- Landscape Institute
- Liverpool City Council
- Liverpool Vision
- Manchester City Council
- Manchester Enterprise
- Martin Mere Wildfowl & Wetlands Trust
- Merseyside Waterfront Regional Park

- Merseyside Biodiversity Partnership
- Morecambe Bay Regional Park
- Morecambe Bay Wetlands Network
- National Trust
- NHS
- North West Biodiversity Partnership
- Northern way
- Peatlands for People Partnership
- Red Rose Forest
- RSPB
- RTPI
- SITA Trust
- The Mersey Forest
- The Mersey Partnership
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Natural Value. Natural Economy.