Moving health upstream in urban development decision-making
No charge?
Valuing the natural environment

www.naturalengland.org.uk
NORTH BRISTOL URBAN EXTENSION
5,700 homes +
50ha employment

FORMER LAUNDRY SITE

Advisory & appraisal

BRISTOL ARENA
12,000 seat stadium + 3.6ha masterplan

FORMER LAUNDRY SITE
115 units + 3.5 acre masterplan
What makes an eco-town?

A report from BioRegional and CABE inspired by the eco-towns challenge panel.
What is ‘GOOD DENSITY’ and how can real estate finance invest in it?

Transport
Green/blue infrastructure
Buildings
Governance
Employment
CLIMATE RISK ASSESSMENT
Impact on **Bristol’s health system**

![Image of hospital, thermometer, and NHS logo with a question mark.](image-url)
OUR PLANET OUR HEALTH

OVERPOPULATION
CLIMATE CHANGE
URBANISATION
FOOD
Fantasy...

1. Latest urban fantasy

2. Standard volume delivery

...reality
Moving health upstream
in urban development planning

1 Estimating cost of poor quality urban environment

2 Exploring barriers and opportunities for creating healthy urban environments
CASE STUDY: LOCAL AUTHORITY

UK's FIRST ECO-TOWN in BICESTER

A HOLISTIC VISION FOR BICESTER

ECO-TOWN

EXISTING TOWN

CHERWELL
DISTRICT COUNCIL
North Oxfordshire

HEALTHY NEW TOWN
CASE STUDY: SOCIAL HOUSING
ULI Building Healthy Places Initiative
CASE STUDY: CITY AUTHORITY
(with £6bn NHS budget?)
WHERE ARE THE NEW GARDEN TOWNS AND VILLAGES GOING TO BE?

ST CUTHBERTS NEAR CARLISLE CITY, CUMBRIA
BAILRIGG IN LANCASTER
NORTH CHESHIRE IN CHESHIRE EAST
INFINITY GARDEN VILLAGE IN SOUTH DERBYSHIRE
LONG MARSTON IN STRATFORD-ON-AVON
OXFORDSHIRE COTSWOLD IN WEST OXFORDSHIRE
CULM IN MID DEVON
WEST CARCLAZE IN CORNWALL

HALSNEAD IN KNOWSLEY, MERSEYSIDE
SPITALGATE HEATH, LINCOLNSHIRE
DEENETHORPE IN EAST NORTHANTS
DUNTON HILLS, ESSEX
LONGCROSS IN RUNNYMEDE AND SURREY HEATH
WELBORNE, HAMPSHIRE
TYPES OF INTERVENTION

E.g.

- Corporate **Governance**
- Land **ownership**
- Land **disposal**
- Procurement
- Policy
- **Innovative** / disruptive **delivery** vehicles
- New **partnerships**
- Legislation
- **Compulsory Purchase** Powers
4 PHASE PROCESS

1. Recruitment of advisory groups
   
2. Agreement of methodology
   
3. URBAN-HEALTH EVIDENCE + ECONOMIC VALUATION
   
4. BARRIERS & OPPORTUNITIES
   
   - Post hoc analysis
   - Dissemination
+ PHE topic list
+ Vancouver Healthy Toolkit
+ BREEAM Communities
+ HUDU Rapid HIA
+ Egan Review
## FINDINGS SO FAR: TRANSPORT

<table>
<thead>
<tr>
<th>Variable</th>
<th>Health Outcome</th>
<th>Strength of evidence</th>
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</thead>
<tbody>
<tr>
<td>Transportation noise</td>
<td>Poor academic performance among children</td>
<td>MODERATE</td>
</tr>
<tr>
<td></td>
<td>Health-related quality of life</td>
<td>STRONG</td>
</tr>
<tr>
<td></td>
<td>Heart diseases</td>
<td>STRONG</td>
</tr>
<tr>
<td></td>
<td>Type II diabetes</td>
<td>STRONG</td>
</tr>
<tr>
<td>Living near major roads</td>
<td>Dementia</td>
<td>MODERATE</td>
</tr>
<tr>
<td>Traffic-related air pollutants (NO₂ exposure)</td>
<td>General ill-health</td>
<td>STRONG</td>
</tr>
<tr>
<td></td>
<td>Pre/post-menopausal breast cancer</td>
<td>STRONG</td>
</tr>
<tr>
<td></td>
<td>Leukaemia</td>
<td>WEAK</td>
</tr>
<tr>
<td></td>
<td>Dementia</td>
<td>MODERATE</td>
</tr>
<tr>
<td>Infrastructure for walking, cycling and public transport</td>
<td>Increased walking, cycling and bus travel</td>
<td>MODERATE</td>
</tr>
<tr>
<td>Road safety- speed cameras, speed humps, tram priority, signal priority</td>
<td>Reduced road traffic collisions</td>
<td>MODERATE</td>
</tr>
<tr>
<td>Guided bus way + light rail</td>
<td>Reduced BMI + obesity</td>
<td>MODERATE</td>
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# ADVISORS + DEVELOPING METHODOLOGY

<table>
<thead>
<tr>
<th>First Name</th>
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<tbody>
<tr>
<td>Hugh</td>
<td>Barton</td>
<td>UWE (retired)</td>
</tr>
<tr>
<td>Graham</td>
<td>Parkhurst</td>
<td>UWE</td>
</tr>
<tr>
<td>Bill</td>
<td>Gething</td>
<td>UWE</td>
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<tr>
<td>Kathy</td>
<td>Pain</td>
<td>UoReading</td>
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<tr>
<td>Sue</td>
<td>Grimond</td>
<td>UoReading</td>
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<tr>
<td>John</td>
<td>Murlis</td>
<td>Env Protection UK</td>
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<tr>
<td>Kevin</td>
<td>Morgan</td>
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<td>Simon</td>
<td>Joss</td>
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<td>Phillip</td>
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<td>Jones</td>
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<tr>
<td>Matthew</td>
<td>Carmona</td>
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<tr>
<td>Nick</td>
<td>Falk</td>
<td>URBED</td>
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<tr>
<td>David</td>
<td>Burney</td>
<td>Pratt institute</td>
</tr>
</tbody>
</table>

GLOBAL HEAD OF RESEARCH, SAVILLS

FORMER MAYOR OF BRISTOL

FORMER CHIEF PLANNER, FREIBURG

FOUNDER OF ROCKWOOD CAPITAL

FORMER HEAD OF BELLWAY REGENERATION
Thank you for your time.