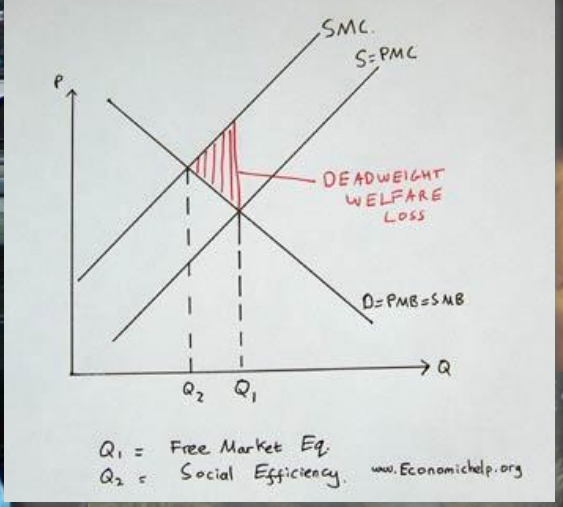
Moving health upstream in urban development decision-making

wellcome trust



No charge?

Valuing the natural environment

www.naturalengland.org.uk

NATURAL ENGLAND

NORTH BRISTOL URBAN EXTENSION

5,700 homes +
50ha employment

BRISTOL ARENA 12,000 seat stadium + 3.6ha masterplan

Advisory & appraisal

Min

UWE Bristol University of the West of England

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

CABE

BioRegional

GREAT BOW YARD

Exhibition of **Excellence -** Housing Design Awards 2006
Best Sustainable Development, Gold Award - What House Awards 2006
Gold Standard - Building for Life 2007
Winner, Building Regeneration - RICS Awards 2008 South West
Winner, Sustainability - RICS Awards 2008 South West
Project of The Year - RICS Awards 2008 South West
Finalist, Community Benefit - RICS Awards 2008 South West
Finalist - RICS National Awards 2008
Commendation for Restoration and Conservation of a listed building - Somerset Building Awards 2008

What is ‘GOOD DENSITY’ and how can real estate finance invest in it?

Urban Land Institute

University of Reading

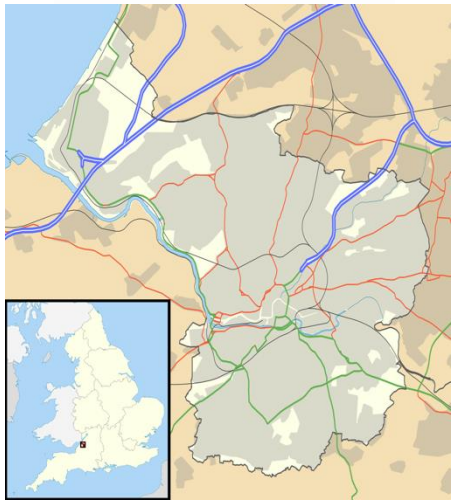
THE NEW CLIMATE ECONOMY

UNIVERSITY OF BATH

Transport
Green/blue infrastructure
Buildings
Governance
Employment

CLIMATE RISK ASSESSMENT

Impact on **Bristol's health system**



+

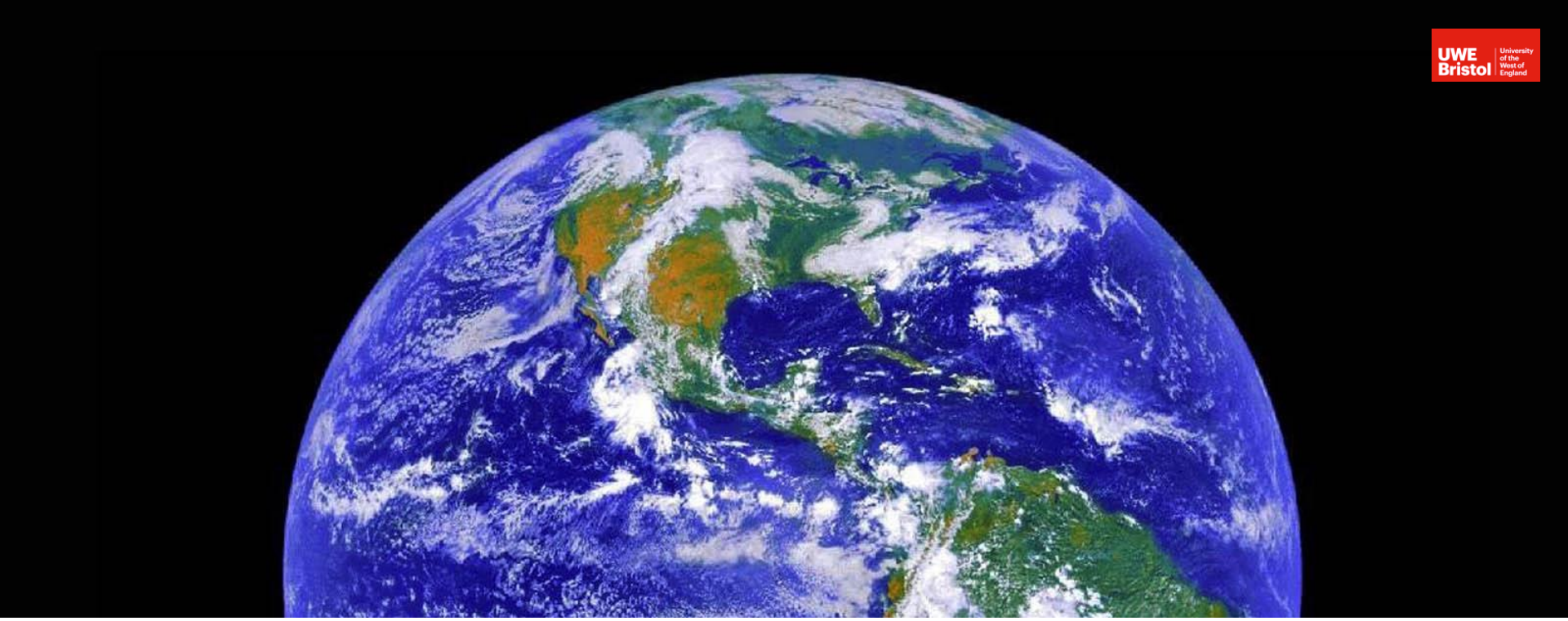
=

NHS

?

NERC SCIENCE OF THE ENVIRONMENT

Innovate UK
Technology Strategy Board



OUR **PLANET** OUR **HEALTH**

OVERPOPULATION
CLIMATE CHANGE
URBANISATION
FOOD

Supported by wellcome trust

Fantasy…

1 Latest urban fantasy

2 Standard volume delivery

3

…reality

...reality

UPSTREAM

Moving health upstream
in urban development planning

Supported by wellcome trust

1

Estimating cost of poor quality urban environment

2

Exploring barriers and opportunities for creating healthy urban environments

UWE Bristol University of the West of England

UNIVERSITY OF BATH

UNIVERSITY OF WASHINGTON 1861

BRISTOL CITY COUNCIL

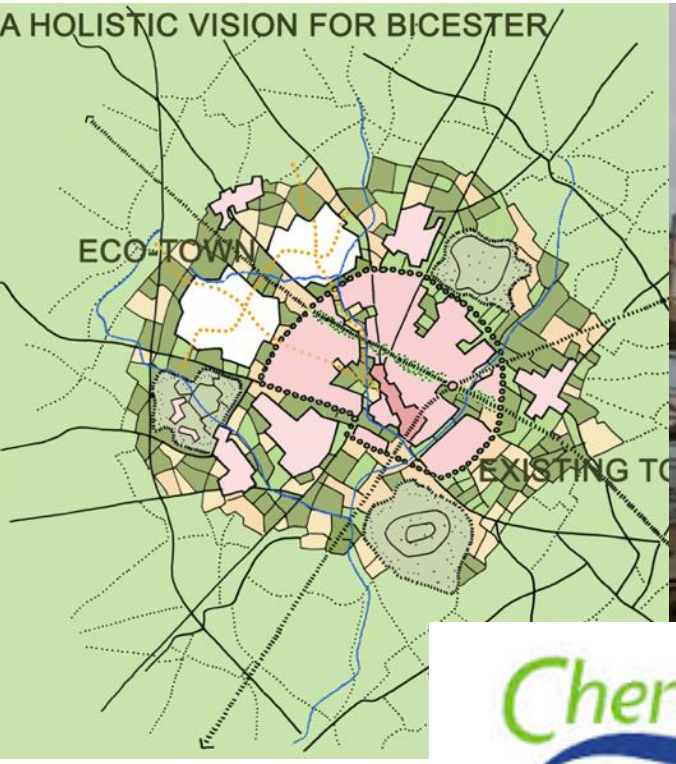
Bristol & Bath
Regional Capital CIC

CASE STUDY: **VOLUME BUILDER**

REDROW

OUR PRIDE~YOUR JOY

CASE STUDY: **LOCAL AUTHORITY**



Cherwell
DISTRICT COUNCIL
North Oxfordshire

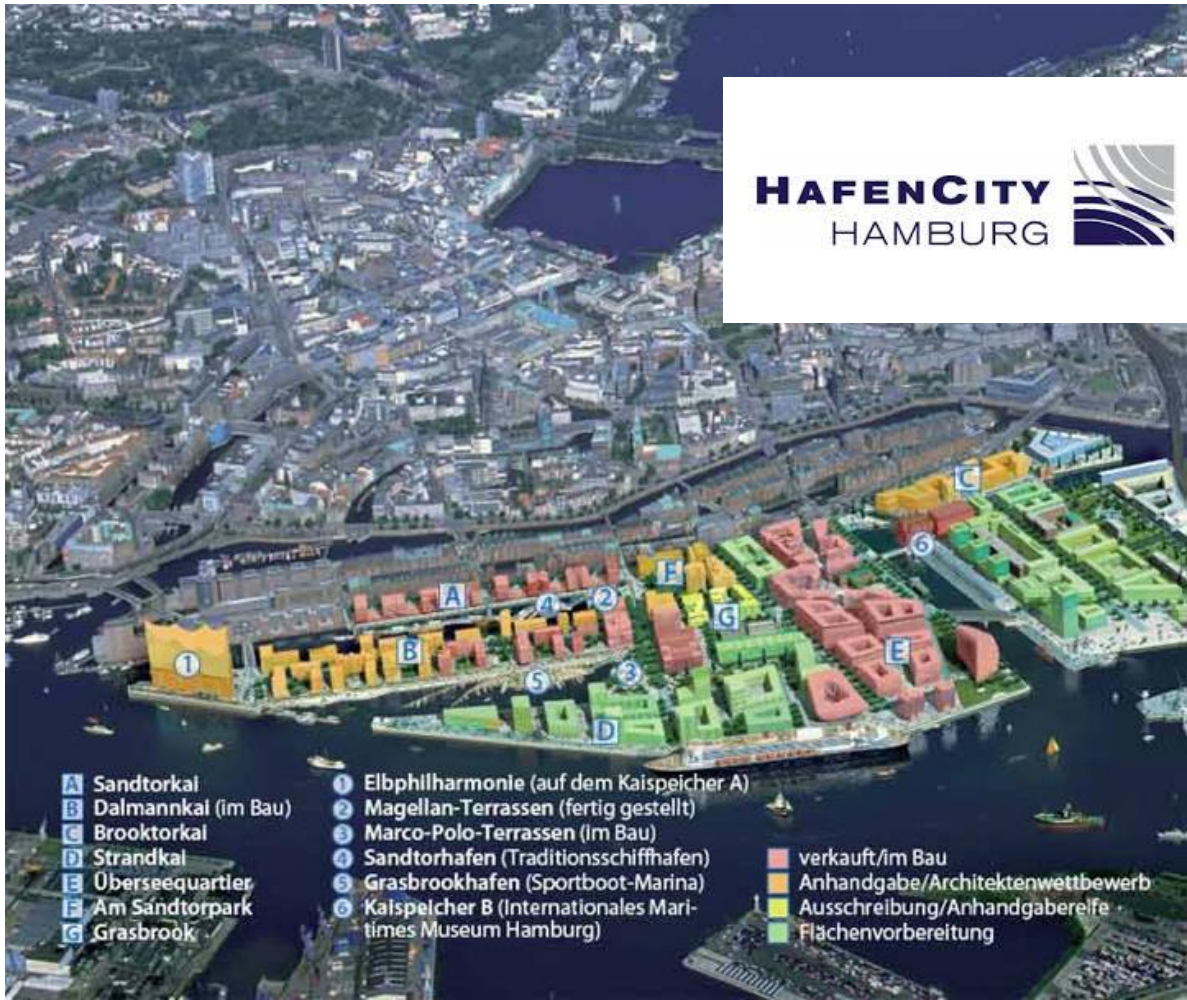
HEALTHY NEW TOWN

CASE STUDY: **SOCIAL HOUSING**

CompendiumLiving™
CREATING A REAL SENSE OF PLACE

Urban Land Institute

ULI Building Healthy Places Initiative

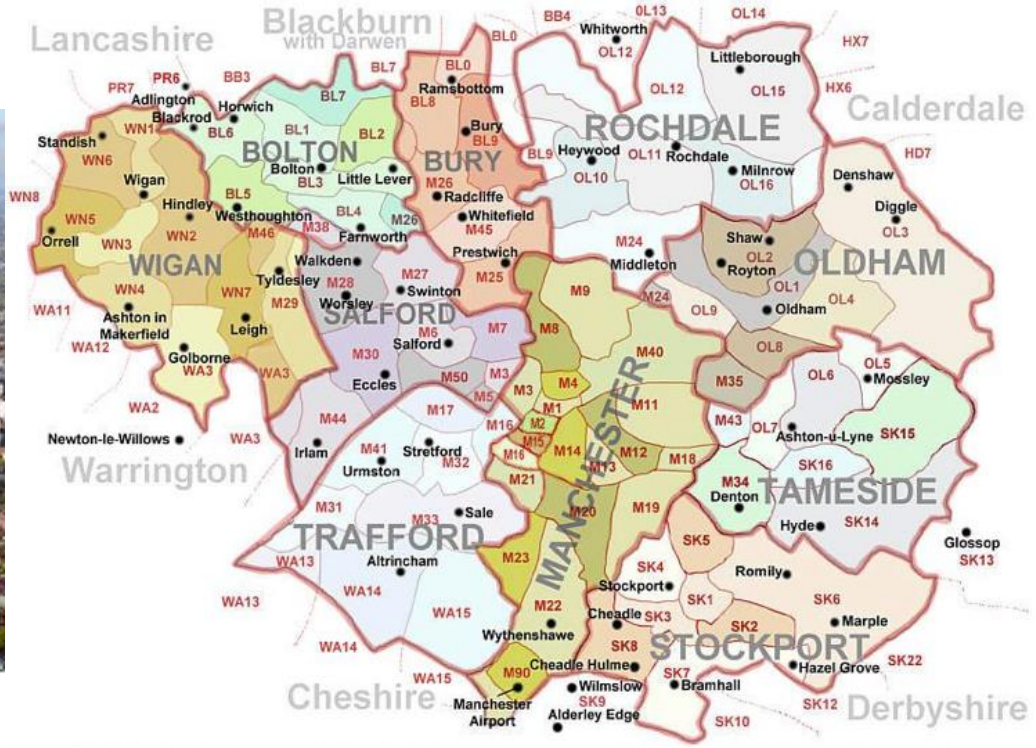


CASE STUDY: **CITY AUTHORITY**

(with £6bn NHS budget?)

GMCA

GREATER MANCHESTER COMBINED AUTHORITY



Homes & Communities Agency

GARDEN VILLAGES, TOWNS + CITIES

Homes & Communities Agency

Land disposal + development delivery

TYPES OF **INTERVENTION**

E.g.

- Corporate **Governance**
- **Landownership**
- Land **disposal**
- **Procurement**
- **Policy**
- **Innovative** / disruptive **delivery** vehicles
- New **partnerships**
- **Legislation**
- **Compulsory Purchase** Powers

4 PHASE PROCESS

1

Recruitment of advisory groups

Agreement of methodology

2

URBAN-HEALTH EVIDENCE

+

ECONOMIC VALUATION

3

BARRIERS

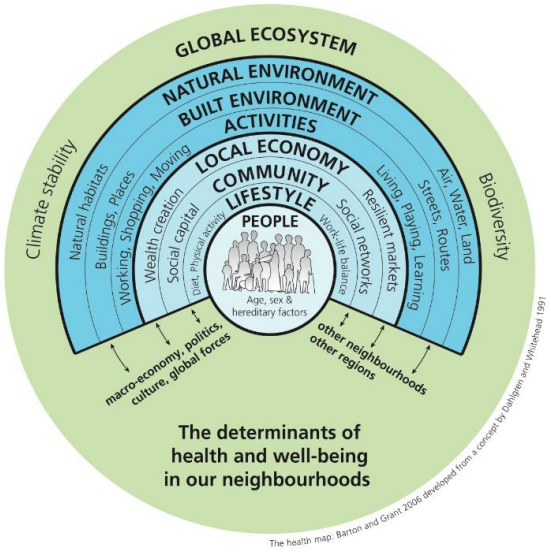
&

OPPORTUNITIES

4

Post hoc analysis

Dissemination



+ PHE topic list
+ Vancouver Healthy Toolkit
+ BREEAM Communities
+ HUDU Rapid HIA
+ Egan Review

HEALTH MAP	Elements of urban form	Multiplier
Global Ecosystem		
Climate Stability		Climate change
Biodiversity		
Natural Environment		
Natural Habitats		Natural Environment
Air		
Water		
Land		
Built Environment		
Buildings		Buildings
Places		Neighbourhood Design
Streets		
Routes		
Activities		
Working		
Shopping		
Moving		Transport
Living		
Playing		
Learning		
Local Economy		
Wealth creation		
Resilient markets		
Community		
Social capital		
Social networks		
Lifestyle		
Diet/nutrition		Food
Work-life balance		
Physical activity		

FINDINGS SO FAR: TRANSPORT

Variable	Health Outcome	Strength of evidence
Transportation noise	Poor academic performance among children	MODERATE
	Health-related quality of life	STRONG
	Heart diseases	STRONG
	Type II diabetes	STRONG
Living near major roads	Dementia	MODERATE
Traffic-related air pollutants (NO_2 exposure)	General ill-health	STRONG
	Pre/post-menopausal breast cancer	STRONG
	Leukaemia	WEAK
	Dementia	MODERATE
Infrastructure for walking, cycling and public transport	Increased walking, cycling and bus travel	MODERATE
Road safety- speed cameras, speed humps, tram priority, signal priority	Reduced road traffic collisions	MODERATE
Guided bus way + light rail	Reduced BMI + obesity	MODERATE

ADVISORS + DEVELOPING METHODOLOGY

GLOBAL HEAD OF RESEARCH, SAVILLS

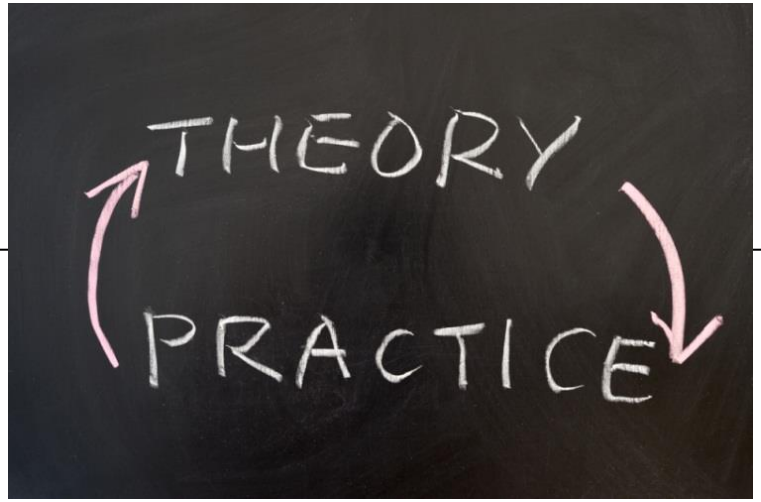
FORMER MAYOR OF BRISTOL

FORMER CHIEF PLANNER, FREIBURG

FOUNDER OF ROCKWOOD CAPITAL

FORMER HEAD OF BELLWAY REGENERATION

First Name	Surname	Organisation
Hugh	Barton	UWE (retired)
Graham	Parkhurst	UWE
Bill	Gething	UWE
Kathy	Pain	UoReading
Sue	Grimond	UoReading
John	Murlis	Env Protection UK
Kevin	Morgan	UoCardiff
Simon	Joss	UoWestminster
Phillip	Rode	LSE
Phillip	Jones	Cardiff Uni
Matthew	Carmona	UCL, Bartlett
Nick	Falk	URBED
David	Burney	Pratt institute


THEORY
PRACTICE

ΔX = X_f - X_i
ΔV = V_f - V_i
E = mc²
(a + 2)x = b - 4c
ax + 2x = b - 4c
V = √(T/P)
a = V²/R
y = x² - 4x + 5
π = 3,14159265
5(3x - 1) - 7(2x - 4) = 35
15x - 5 - 14x
5(2x-1)=3(x+1)
YEAR
R1
R2
R3
R4
R5

Thank you for your time

Daniel Black
Founder / Director
db+a

Director

Visiting Research Fellow
WHO Centre for Healthy Urban Environments

Visiting Research Fellow
Henley Business School
(Real Estate and Planning)

Janet Ige
Research Associate
Public Health & Wellbeing

Faculty of Health and Applied Sciences

CONTACT DETAILS

Janet.Ige@uwe.ac.uk

info@db-associates.co.uk

www.db-associates.co.uk

www.uwe.ac.uk