

Introducing the New Urban Agenda



Birmingham City Council

Leader- leading global green city;

Planning- (2031)
150,000 population;
51,800 new homes;

Presentation:

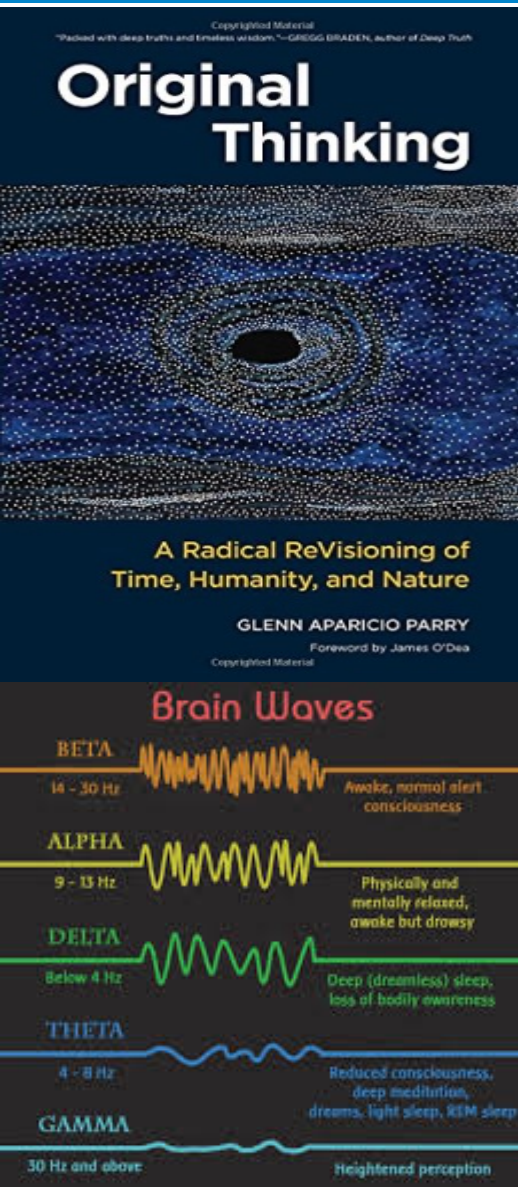
1. Context
2. City tests
3. Building the Birmingham Model



Nick Grayson, Climate Change & Sustainability Manager,
Senior Research Fellow, University of Birmingham



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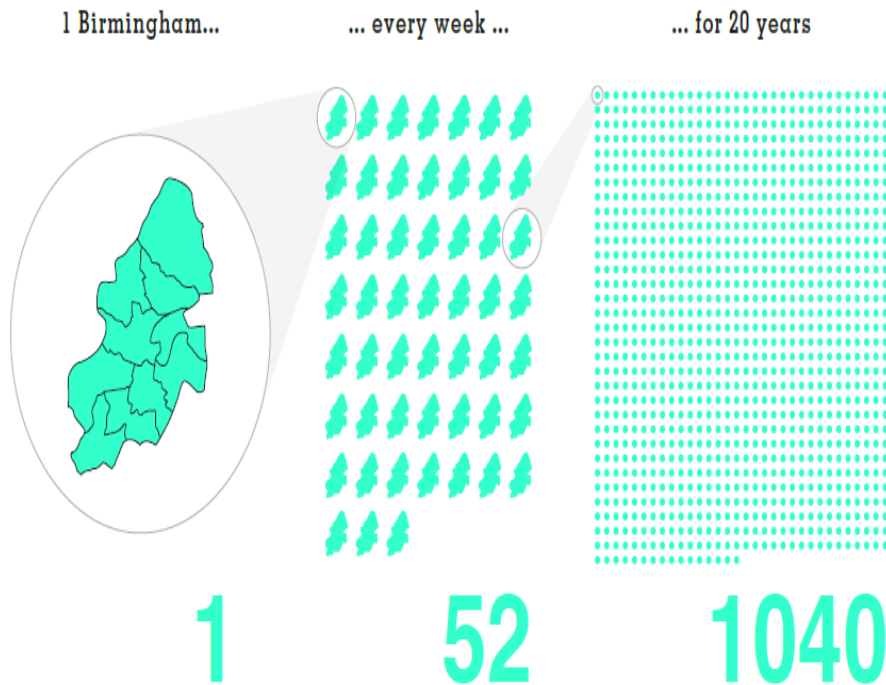


"The world must know what is happening here, they must perceive how destroying forests and indigenous people destroys the entire world."

"Kayapó indigenous leaders"



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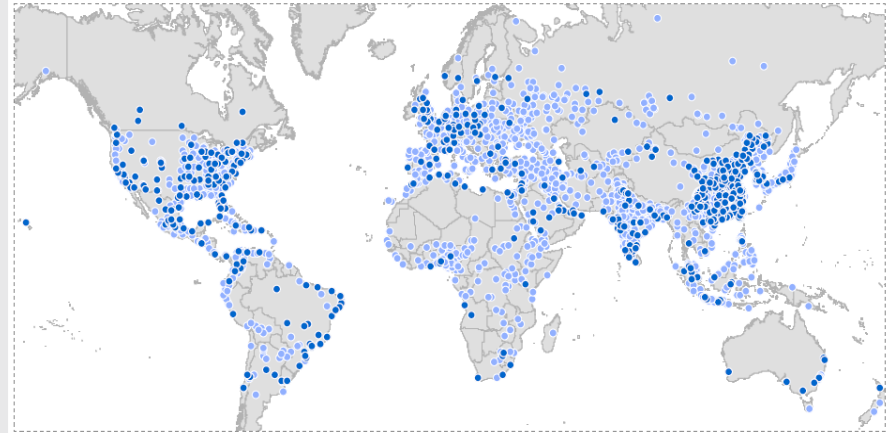
We need to build the equivalent of one Birmingham a week around the globe for the next 20 years if we are to house the growing urban populations.

THE FARRELL REVIEW INTRODUCTION

9

The City 600: MGI's Cityscope identifies the world's fastest-growing megacities and middleweights

● The City 600 (600)
● Additional cities in MGI Cityscope (~1,400)



SOURCE: McKinsey Global Institute Cityscope 1.0

20 YEAR PATTERN OF GLOBAL GROWTH



Climate Alliance

Climate Alliance represents \$21 Trillion Dollars of global investment awaiting climate proofing

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The New Urban Agenda

2016



COP21 • CMP11
PARIS 2015
UN CLIMATE CHANGE CONFERENCE

SUSTAINABLE DEVELOPMENT GOALS



2015

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HABITAT III DRAFT NEW URBAN AGENDA

28 July 2016



Planning
Governance
Municipal Finance

HABITAT III 'SYNTHESISED' DRAFT NEW URBAN AGENDA

1. POLICY CO-ORDINATION & ORGANISATIONAL CAPACITY
2. APPROPRIATE GOVERNANCE AND DEVOLUTION
3. RESOURCE SECURITY
4. DIVERSITY
5. EQUITY & POVERTY
6. URBAN DESIGN, HOUSING & SYSTEMS
7. BIODIVERSITY & ECOSYSTEMS
8. RESOURCE EFFICIENCY
9. INDIVIDUAL AND SOCIETAL WELL BEING
10. CAPACITY BUILDING, EDUCATION & TRAINING
11. SUSTAINABLE FINANCIAL INVESTMENT
12. INCLUSIVE ECONOMIC VITALITY & GROWTH



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Natural Capital can be **defined** as the world's stocks of **natural** assets which include geology, soil, air, water and all living things. It is from this **Natural Capital** that humans derive a wide range of services, often called ecosystem services, which make human life possible.

(Natural Capital Committee Third Report 2015)

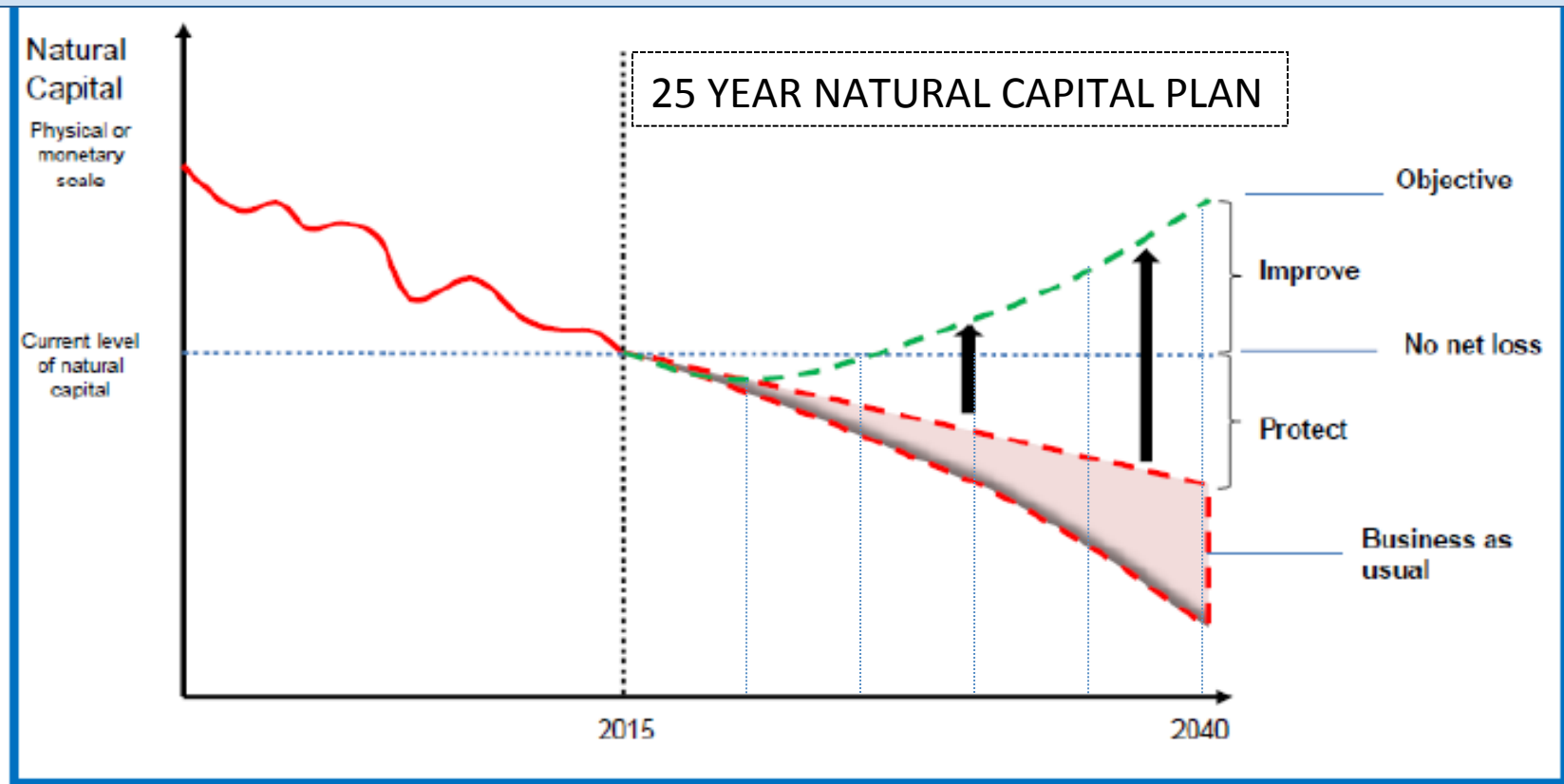
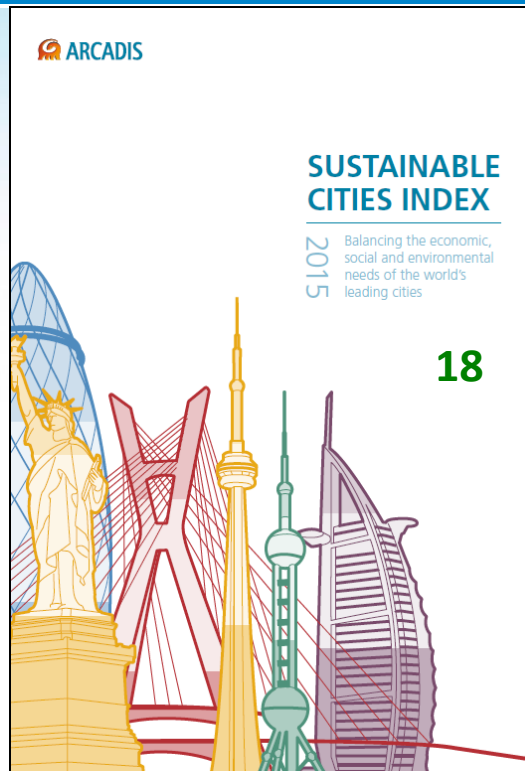


Figure 1: Protecting and improving natural capital over a generation – a stylised interpretation

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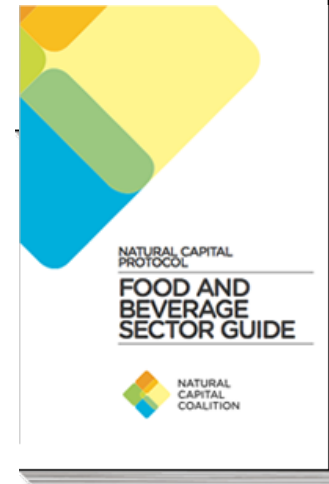
WBCSD Sustainable
Cities Framework



•PEOPLE

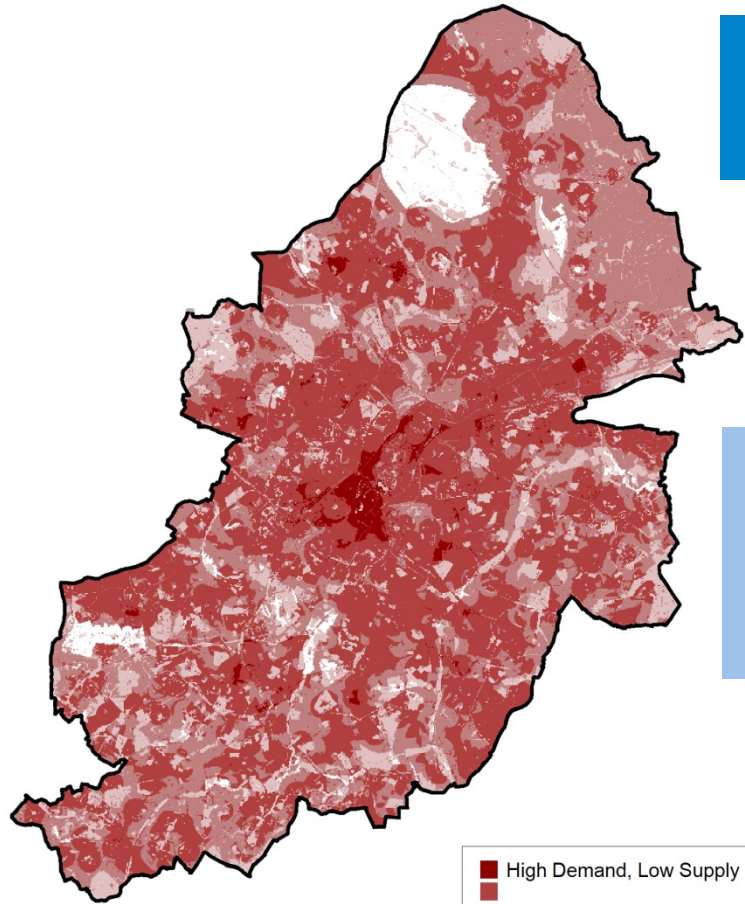
•PLANET

•PROFIT



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The Multi-layered Challenge map for Birmingham



■ High Demand, Low Supply
■ Low Demand, High Supply

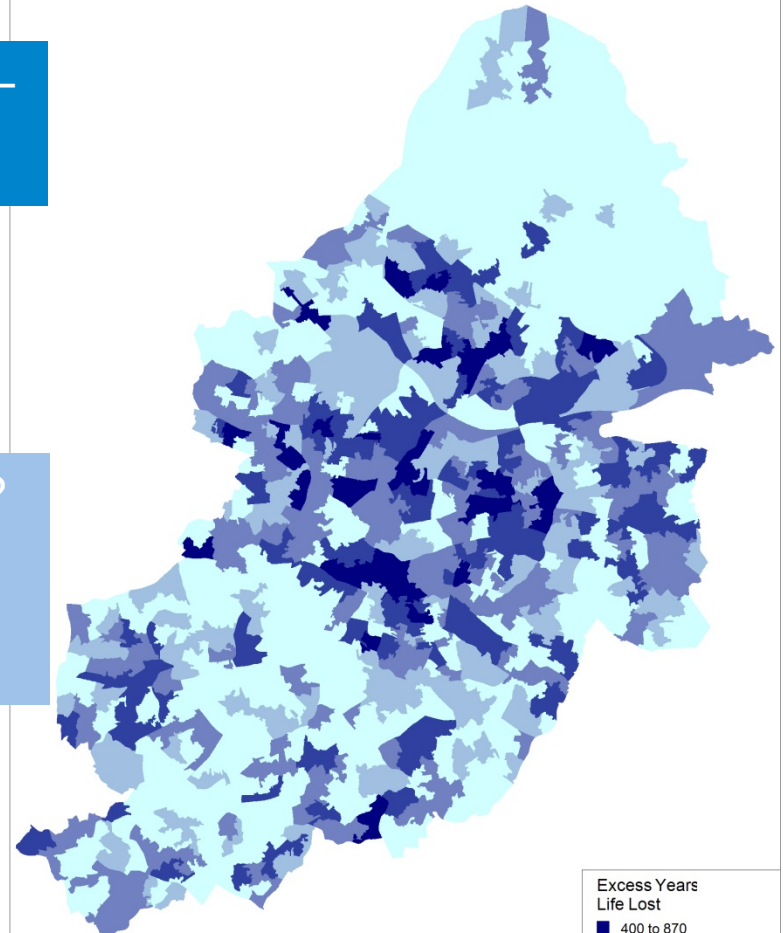
March 2013



Birmingham –
a global first

Manchester?
GLA?
New York?

Excess Years Life Lost at LSOA



Excess Years
Life Lost

■ 400 to 870
■ 200 to 400
■ 100 to 200
■ 0 to 100
■ -400 to 0

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March 2013



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CITY RESPONSE

- PLANNING SYSTEM
- GOVERNANCE
- FINANCE SYSTEM

URBAN WELL BEING PARK

- 5 YEAR LIVING LAB – LC RESEARCH LEAD
- MEASUREMENTS
- DAILY DOSE
- SOCIAL PRESCRIBING
- PLACE BASED BUDGET
- COMMUNITY ASSET TRANSFER
- EMPLOYMENT & TRAINING – 'NEETS'



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Development Impact Score

Total for 71.5 Ha of Assessed Land-use Changes

Ecosystem Service	Adjusted Scores	Unadj. Scores
1. Harvested Products	-359.1	-359.1
2. Biodiversity	+55.7	+55.7
3. Aesthetic Values	-7.7	-7.7
4. Recreation	+72.3	+72.3
5. Water Quality Regulation	+1.9	+1.9
6. Flood Risk Regulation	+1.1	-0.7
7. Air Quality Regulation	+22.6	+22.6
8. Local Climate Regulation	-1.6	-1.6
9. Global Climate Regulation	-57.8	-57.8
10. Soil Contamination	+0.0	+0.0
Development Impact Score	-27.3	-27.4

Langley SUE initial master plan concept capacity test



CITY RESPONSE

- PLANNING SYSTEM
- GOVERNANCE
- FINANCE SYSTEM

Net Positive for Natural Capital over a 25 year period, (273 ha)

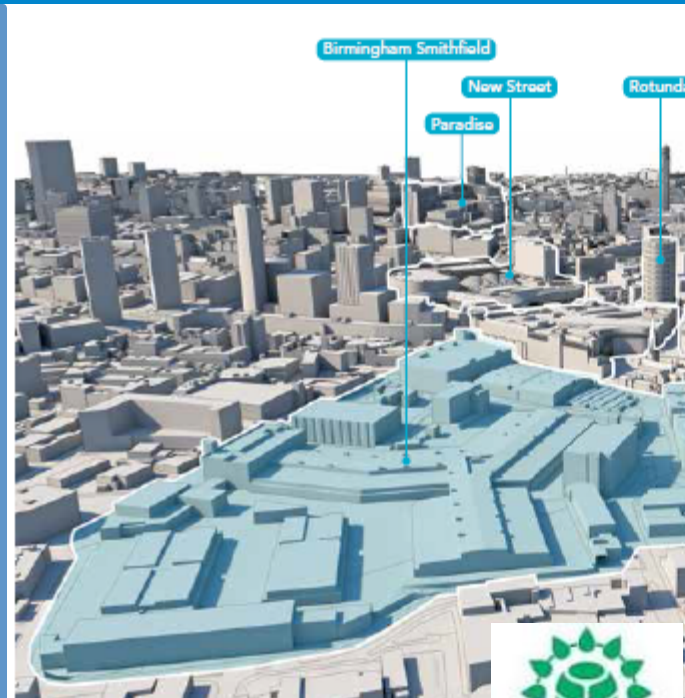
**LC- NERC NATIONAL TRAIL-
University Of Birmingham Lead**



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CITY RESPONSE

- PLANNING SYSTEM
- GOVERNANCE
- FINANCE SYSTEM



Zero Emissions Cities -ZEC



ZEC-PLUS (THE BIRMINGHAM MODEL)

A NEW COMPREHENSIVE
GLOBAL MODEL

NATURAL CAPITAL FINANCING-
VIA – LIVEABLE CITIES RESEARCH
LEAD

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UNIVERSITY OF
BIRMINGHAM

LANCASTER
UNIVERSITY

UCL

UNIVERSITY OF
Southampton

EPSRC

Liveable Cities

Transforming the Engineering of Cities to
deliver Societal and Planetary Wellbeing

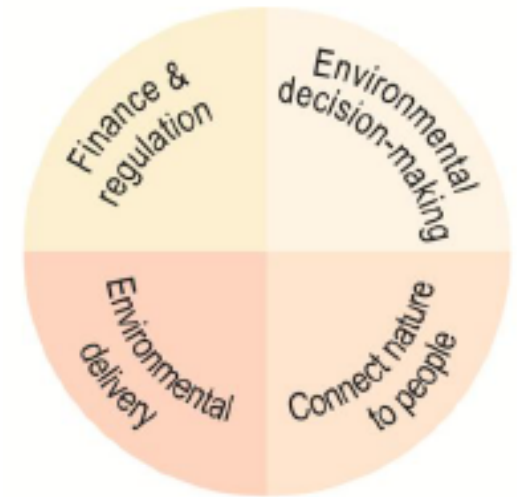
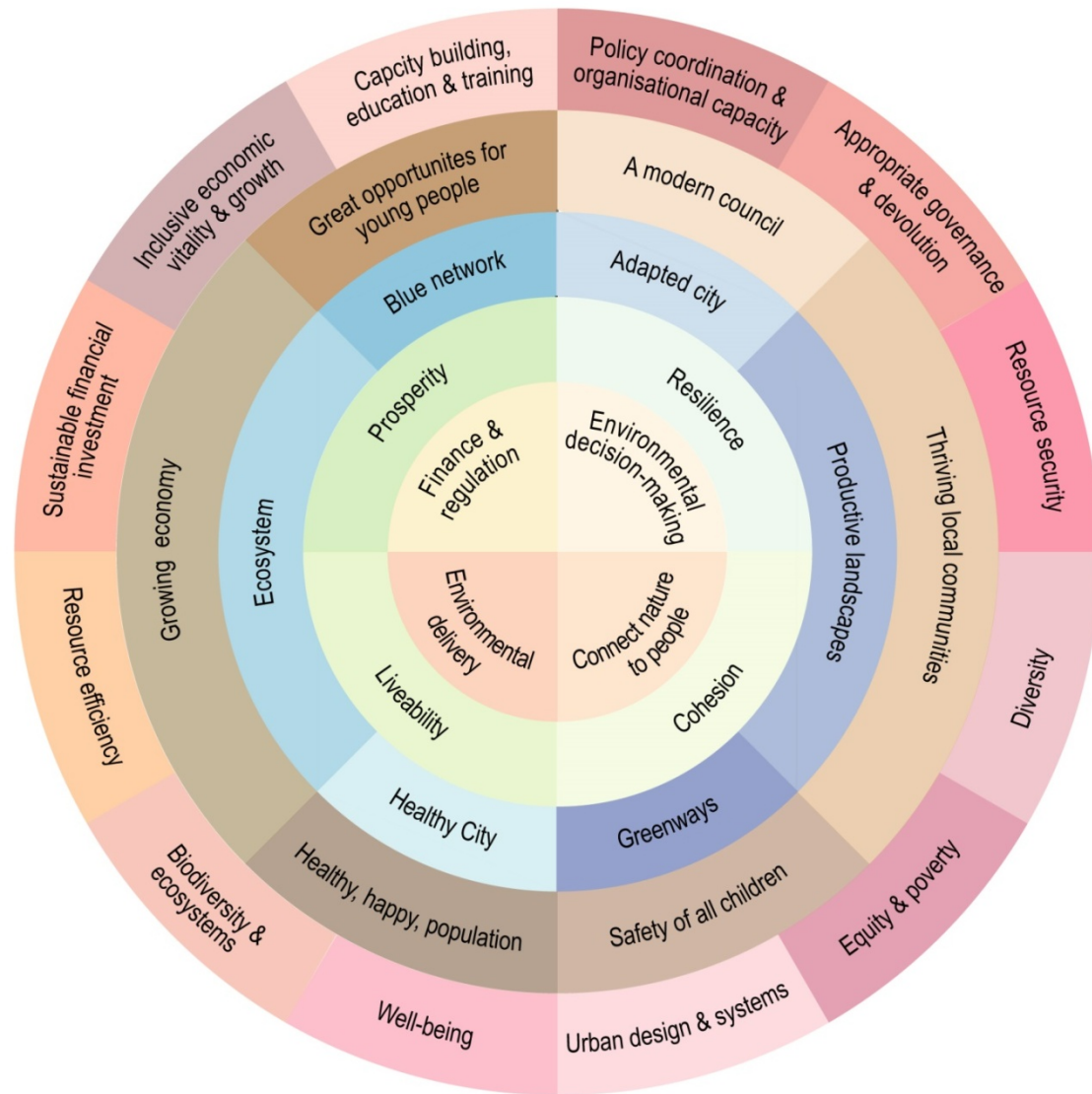
PACT Six Response Levels



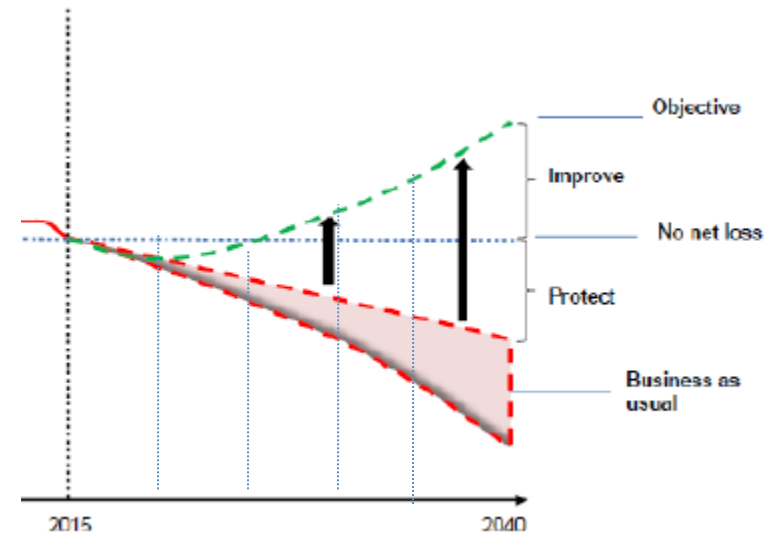
The Seven Emerging Themes:-

- 1. The Sharing City** – *exploring necessary conditions for sharing as a collective benefit to citizens / stakeholders.*
- 2. Radical Mobilities City** – *exploring necessary conditions for a city without cars.*
- 3. Ecosystem Serviced City** – *exploring service 'consumption' spatially / temporally.*
- 4. Re-Zoned City** – *adaptable, re-purposing.*
- 5. City of Synthesised Flows** – *systems across boundaries / scales / actors.*
- 6. Investing City** – *to lower emissions/resource use and enhance wellbeing.*
- 7. Delivering the Liveable City** – *rethinking how a city is engineered and people react.*

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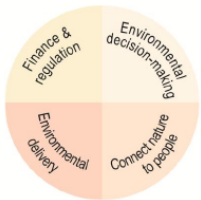


THE 4 PILLARS OF THE 25 YEAR NATURAL CAPITAL PLAN



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PERFORMANCE LEVEL OF CITY
LEVELS 1 - 6



FUTURE CITY BENCHMARKING TOOL FROM LIVEABLE CITIES- HIGHLIGHTING NATURAL CAPITAL												
6												
5												
4												
3												
2												
1												
	PILLAR 1			PILLAR 2			PILLAR 3			PILLAR 4		
	1	2	3	4	5	6	7	8	9	10	11	12
ALL 12 CITY BENCHMARKS												
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- 5 YEAR NATURAL CAPITAL GROWTH & INVESTMENT PLANS
- 5 YEAR INTERNATIONAL BENCHMARKING FOR CITIES
- 25 YEAR NATURAL CAPITAL CITY RESTORATION (BIOPHILIC CITY)

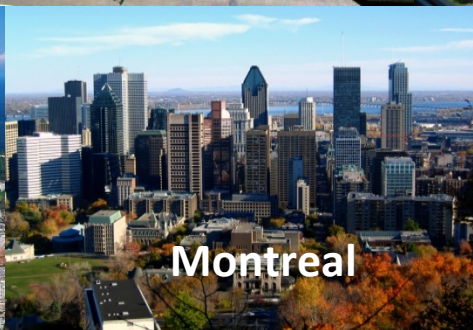
NATURAL CAPITAL
PROTOCOL

CITIES
PROTOCOL



Birmingham: The UK's First Biophilic City

BiophilicCities - Cities that achieve a deep affinity with nature



An Ecosystem Serviced City

Questions & Answers?

Nick Grayson, Climate Change & Sustainability Manager,
nick_grayson@birmingham.gov.uk;

<http://www.birmingham.gov.uk/greencommission>

<http://www.birmingham.gov.uk/greenlivingspaces>

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<http://www.un.org/apps/news/story.asp?NewsID=48773#.VrnAcVLctjo>

