

Birmingham City Council

Leader- leading global green city;

Planning-

150,000 population; 80,000 new homes;

Green

Commission

- -Green Vision;
- -Carbon Roadmap 60% carbon reductions;
- -Natural Capital





Nick Grayson

Climate Change & Sustainability Manager,



"We the mayors and governors of the world's leading cities. ask you to recognise that the future of our globe will be won or lost in the cities of the world."

Copenhagen Climate Change communiqué, December 2009





UK Statistics 2012

% of UK population living as urban?

% urban areas not built form?

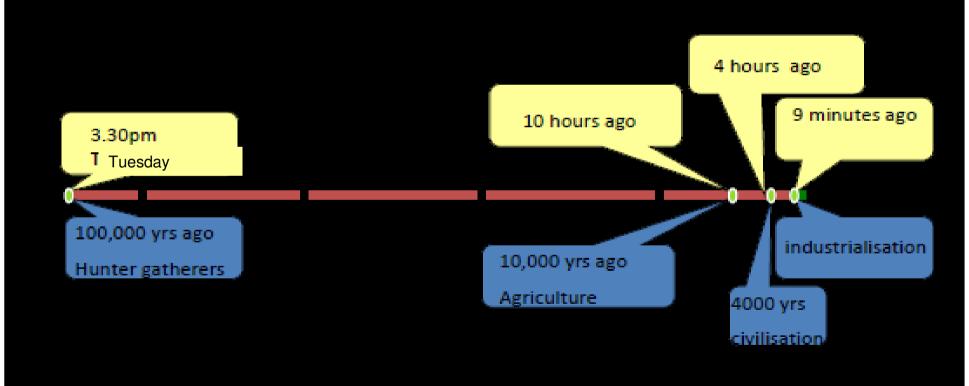
% total of England built on?

% GHG & natural resources – global cities?

"A Week in December"?

BOSF June Conference -Birmingham 2014

If we take an hour to equal 1000 years then from Tuesday now is 100,000 years; the time from the origin of mankind to today.



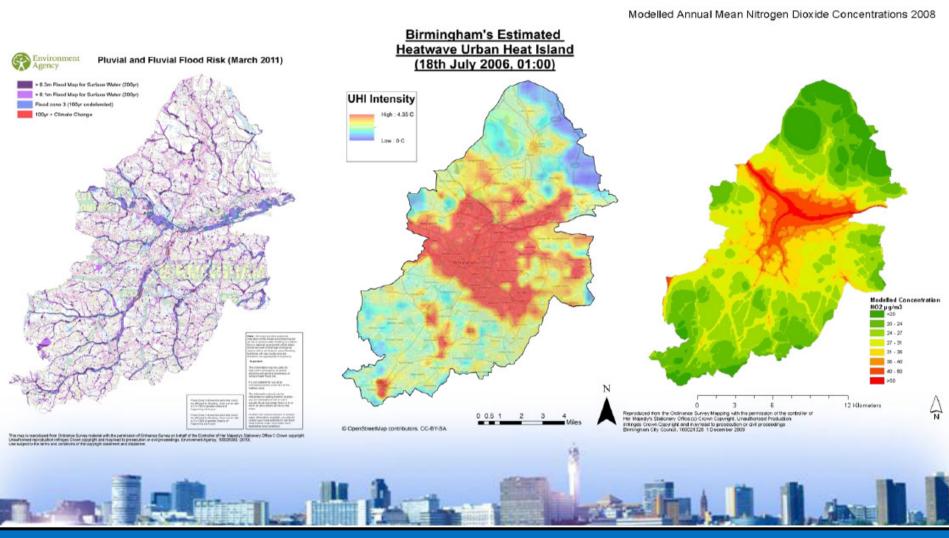


Non-communicable diseases represent a new frontier in the fight to improve global health. Worldwide, the increase in such diseases means that they are now responsible for more deaths than all other causes combined. Secretary General United Nations 2011

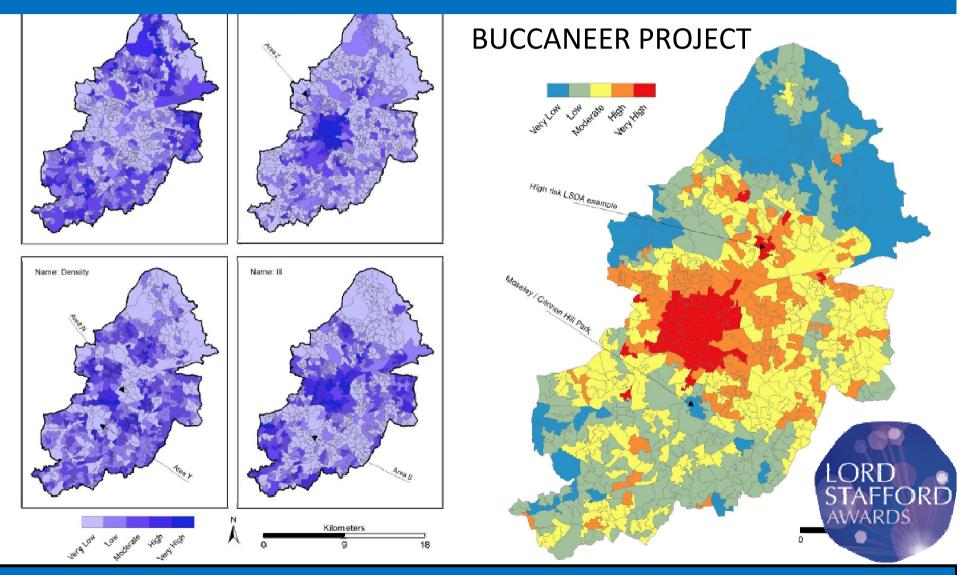
BOSF June Conference -Birmingham 2014

BUCCANEER — Birmingham Urban Climate Change Adaptation Neighborhood Estimates of Environmental Risk

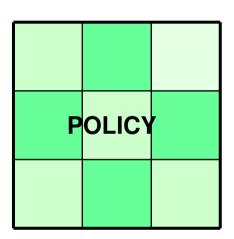
Assessing the risks to Birmingham



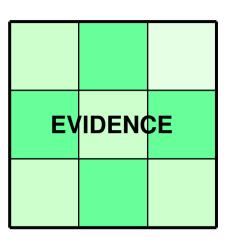
BOSF June Conference - Birmingham 2014

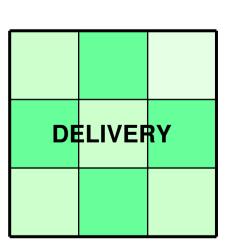


The 9 piece jigsaw



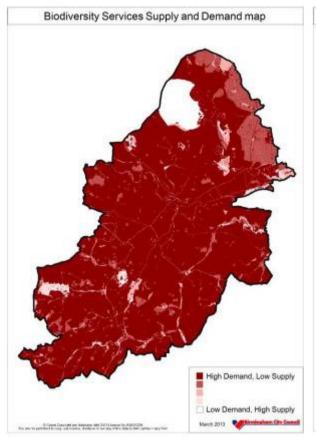
Green
Infrastructure &
Adaptation
Delivery Group

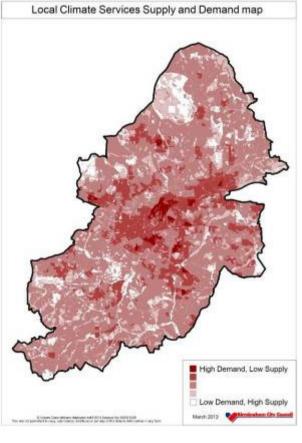


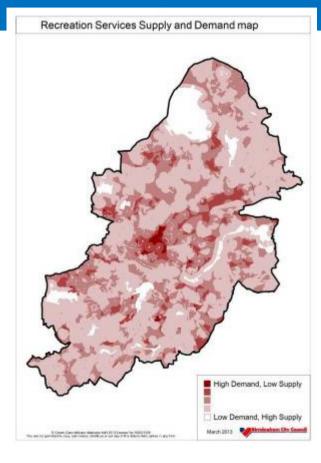


Climate Risk Water Green Infrastructure Health & Well Being **Biodiversity** The LEP & Business Community + Resilience **Planning** Transport & Infrastructure

Principle	Outcome		
An Adapted City	Retain City's top ranking for adaptation		
	Ensure all future growth is adapted Trees for cooling and thermal insulation Green roofs, walls and street canyon research		
The City's Blue Network	Adopt water sensitive urban design		
	•Integrated SuDS, flood and water management solutions •Blueprint for enhance walking and cycling offer •Blue Corridor/ network policy with Canal Rivers Trust		
A Healthy City	Adopt Natural Health Improvement Zones (NHIZ)		
	Integrate the delivery of health and green living spaces Continue to extend the 'Be Active' offer Public Health as key partners in Planning		
The City's Productive Landscapes	Embrace urban forestry and urban food growing		
	Continue to promote allotments Facilitate community food growing and orchards Promote the multiple benefits of urban forestry		
The City's Greenways	Change gear- to a walking and cycling City		
	Create walkable/ cyclable neighbourhoods Citywide signed routes linked to public transport Link healthcare activities and prevention programmes		
The City's Ecosystem	Birmingham as a Biophilic City		
	City to adopt an ecosystem services approach Partners to lead on District Nature Improvement Area plans Birmingham to join global Biophilic Cities Network		
The City's Green	Birmingham an international City of Green Living Spaces		
Living Spaces	◆Adopt the 7 principles across Planning Framework ◆Green Infrastructure and Adaptation Delivery Group		





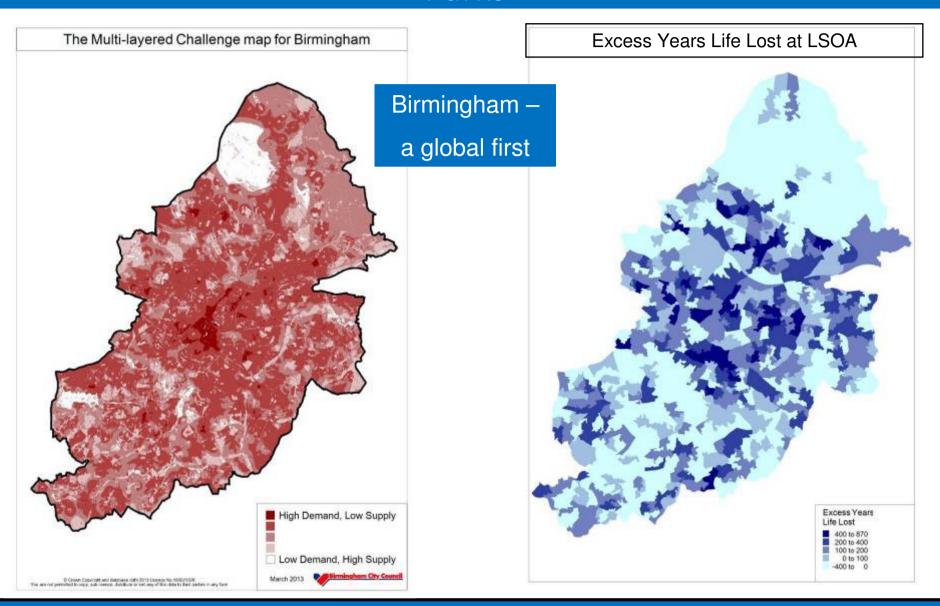


Biodiversity

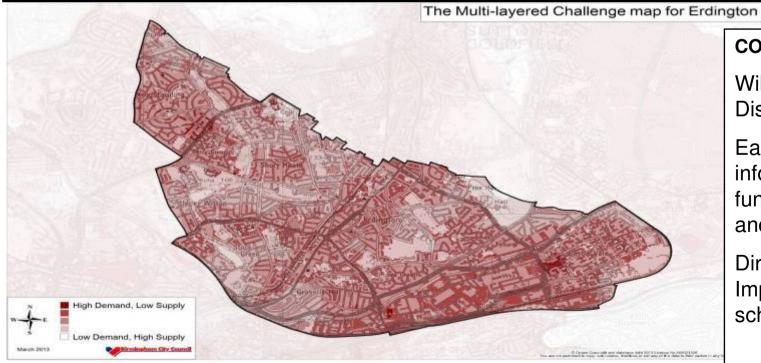
* Local Climate

* Recreation

Education



Birmingham	Your Green and	Birmingham's Health & Well Being Strategy 2013	Birmingham's
Development Plan	Healthy City (SPD)		Green Living Spaces
2014	2014		Plan 2013
Embraces the Birmingham Forest	Sustainable Development Policy	Social determinants of health & climate change	Embeds 7 Key Principles



COMMUNITIES

Will have access to District Plans;

Each plan could inform community funding applications and priorities;

Direct link to Nature Improvement Area schemes;

Take the Green	out of Birmingha	am – Millions £
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	3
Flood damage costs	42.5
Lost development sites	3,600.0
Air quality (particulates)	21.8
Community cohesion (vols.)	0.82
Recreation value	81.2
Recreation spend	136.0
Health & well-being – mental	174.0
- inactivity	126.5
- current savings	5.85
Property value (5%)	640.7
Tourism lost	1,275.0
Ecosystem services	11.66
-	

Total green budget circa £20M

Grand total

Return on Investment 300:1

6,1163.03

WHAT DOES YOUR CITY NEED TO BE RESILIENT? ROCKEFELLER FOUNDATION – 100 YEARS- \$100 MILLION - 100 CITIES















City of Gothenburg, Sweden, 2013, issues Green Bonds: 500 million Swedish Kroner (£45,000,000)



Seimens lodges 6 billion euros with European Central Bank- wanting to invest in climate proofing schemes



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

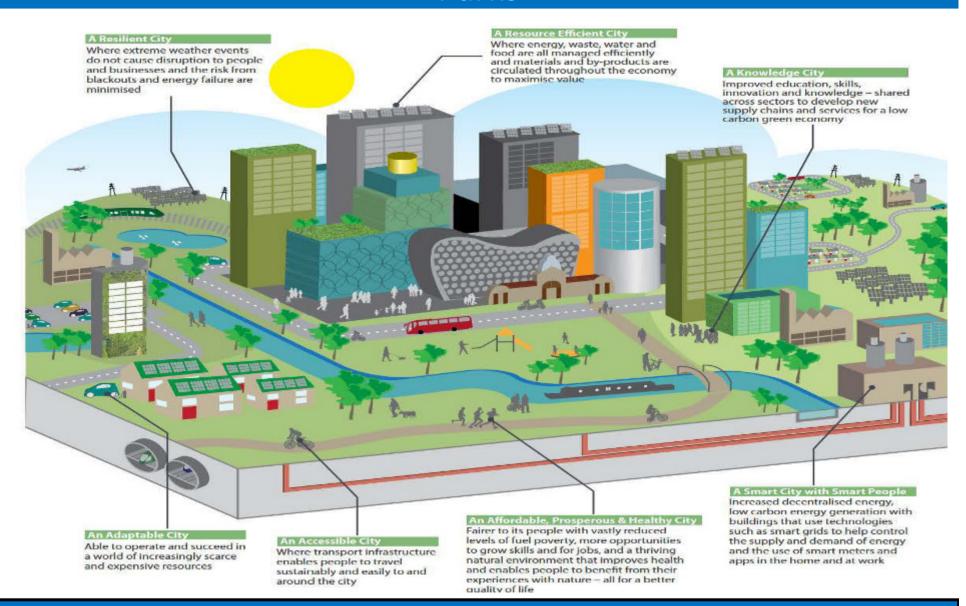


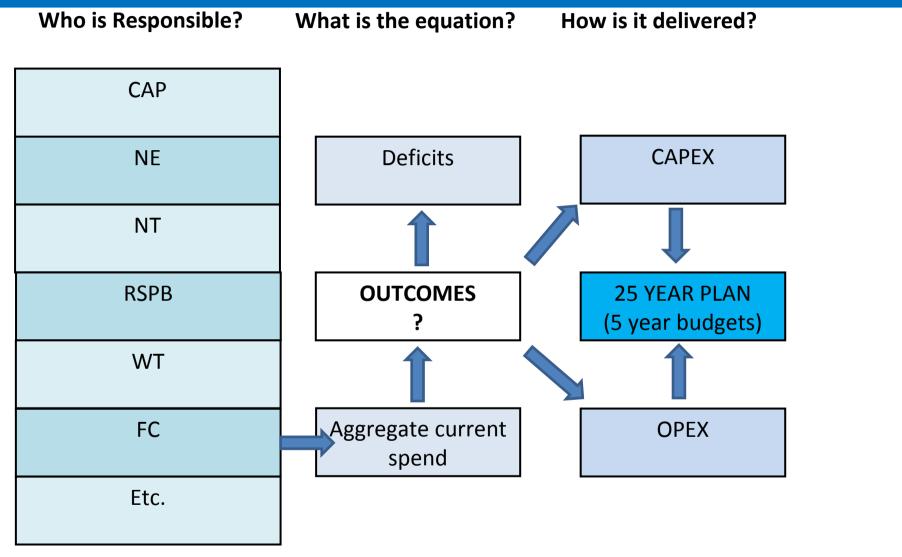
BIRMINGHAM'S GREEN COMMISSION CARBON ROADMAP





Development Tool & Community Infrastructure Levy e.g. 1% Biophilic City





NATURAL CAPITAL COMMITTEE NATIONAL PLAN

Future Cities Catapult



EPSRC

Engineering and Physical Sciences. Research Council

I-Build Project













Who we work with

Chief Financial Officers (CFOs) and finance teams Accounting community

Investors

Policy makers, regulators and governments



world business council for sustainable development

Birmingham: The UK's First Biophilic City

BiophilicCities - Cities that achieve a deep affinity with nature



www.birminghamclimate.comhttp://www.birminghamclimate.com

http://birminghamclimate.com/ie_index2.html

http://www.local.gov.uk/health/-/journal_content/56/10180/3510483/ARTICLE

http://greencity.birmingham.gov.uk/

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

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

http://liveablecities.org.uk/

http://www.theguardian.com/cities/2014/apr/03/birmingham-san-francisco-oslo-

global-green-biophilic-cities-club

http://biophiliccities.org/

http://www.landscapeinstitute.co.uk/PDF/Contribute/PublicHealthandLandscape CreatingHealthyPlaces FINAL.pdf













