

Liveable Cities

9th Bi-Annual Summit

8th December 2016
Goodenough College

UNIVERSITY OF
BIRMINGHAM



UNIVERSITY OF
Southampton

Bi-Annual Summit Agenda

Arriving at 10.30 ...

11:00-12:30 Findings from Liveable Cities

Ecosystem Serviced City ... Birmingham

City Analysis Methodology ... applied to Birmingham

Wellbeing ... in Birmingham and other case study cities

Rezoned City ... Southampton

12:30-13:15 *Lunch*

13:15-15:00 Telling the Story of Liveable Cities

The Overarching Liveable Cities White Paper

Open Discussion:

How would you use the Liveable Cities findings?

What are your take aways?

What might you do but can't, so how might what we have done help you to do this?

What else do you need for it to be truly useful?

15:15-15:30 Wrap Up and Close

Liveable Cities Phase 1 Research Themes

1. *City Analysis Methodology* (CAM)
2. Material and Energy Flows, or *Urban Metabolism*
3. *Ecology and Ecosystem Services*
4. *Aspirations*
5. *Wellbeing*
6. Innovating *Mobilities* for Low Carbon Liveable Cities
7. Large Field Trial of an *Energy Intervention in Households* in Southampton
8. *Modelling the Potential for Energy Saving* in Cities
9. Relationships between *Energy Consumption and Wellbeing*
10. *Future Visions*
11. *Radical Engineering Solutions* – Preferable Future Vision
12. *Governance and Policy*
13. *Finance*

LC Phase 2 Programme

Sequence of activities:

March 2015 – *Sharing City*

September 2015 – *Car-Free Birmingham*

December 2015 – *Ecosystem Serviced City*

March 2016 – *Rezoned City*

September 2016 – *City of Synthesised Flows*

... using mobility as a service as an exemplar

Trialling of *Principles into Practice*

30th April 2017 – Original Programme End Date

31st December 2017 – New Programme End Date

... *as a result of a no cost extension*

Accessible LC Dissemination

Production of a series of White Papers

We are producing a White Paper on each major topic

Wellbeing, Aspirations, Mobilities, Urban Metabolism, Ecosystem Services, CAM, Energy, Governance, and so on

... viewed collectively to allow the dependencies and synergies to be identified

We are also creating two overarching White Papers:

Visions and Principles and *LC Methodology*

... and progressively we are creating five Phase 2 White Papers

This yields, in accessible language (c.f. McKinsey Reports):

stories and thoughtpieces on our major advances

We are creating a synthesis in *Engineering Liveable Cities*

Current systems' performance in its unique context

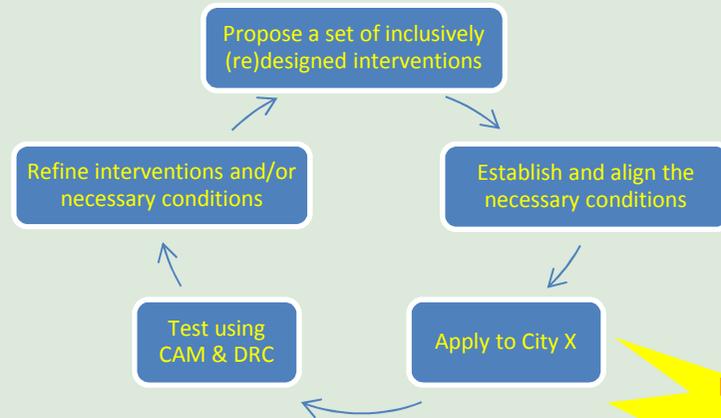
Apply the CAM

A set of radical interventions, all with associated sets of 'necessary conditions' to work now and in the future

Liveable Cities by 2050: high-level principles met and sustained

The goal

A city's wellbeing, resource use and carbon emissions performance is a function of its, policy, economic, social, environmental and governance systems.



A Liveable City is defined by high-level principles meeting LC criteria : Wellbeing (5-city model, aspirations, QoL), responsible Resource use, Carbon emissions reduced.

LC Principles, visions, aspirations

Apply the CAM

The LC Framework:

1. Identify generic principles for a Liveable City (the 'Liveable City' principles).
2. Establish the baseline conditions and performance of the city that is the focus of the study (City X).
3. Compare City X current performance to the 'Liveable City' principles – what does a Liveable City X look like? Where are the gaps to improve in terms of Wellbeing, Resources and Carbon?
4. Radical interventions are designed for City X to address these gaps and meet the 'Liveable City' principles. They are co-created with a complete range of disciplines and stakeholders. The interventions are designed to take advantage of (inter)dependencies between different systems.
5. The interventions needed to make the transition from now to the target state are identified with a set of 'necessary conditions' that must be in place now, and in the future, for the interventions to deliver the intended benefits. The implementation requires alignment of the necessary conditions.
6. The consequences of the interventions are tested using CAM and DRC analyses.
7. The interventions and/or the necessary conditions are refined in the light of these analyses.
8. Iteration will yield a set of interventions and implementation strategies that combine to best effect.

Phase 1&2-inspired radical interventions are designed

Establish the 'necessary conditions' for benefit delivery ... including all forms of governance

Test the intervention – will it work now and in the future?

Refine the intervention and/or forms of governance

LC's Overarching Activity

Trialling Principles into Practice

We will trial emerging ideas from the Phase 2 studies, for example:

Car-free, how does it relate to the 5 cities model?

... including our priorities of people and planetary wellbeing?

Can the approach be improved, and what are the lessons?

The outcomes are expected to be:

It only works if xxxxx, and implications are xxxxxx, and the barriers to implementation are xxxxx, ...

... and there are feeds back into the other spheres of research (flows, or governance, or energy, or ...)

The Phase 2 think pieces are extremes to allow us to test ideas

If we can show how these extreme things might work in practice, then lessons for easier things will be made manifest

liveablecities.org.uk



Transforming the Engineering
of Cities to deliver Societal
and Planetary Wellbeing

UNIVERSITY OF
BIRMINGHAM



UNIVERSITY OF
Southampton

EPSRC