

Liveable Cities

Annual Summit 2012

7 December 2012

Royal Society

UNIVERSITY OF
BIRMINGHAM

LANCASTER
UNIVERSITY

UCL

UNIVERSITY OF
Southampton

Purpose of the Day

Our focus being on an *80% carbon-reduced, resource-secure* city in which *wellbeing* is prioritised

The aim of the summit is to help to establish the performance criteria that should be used when conducting a balanced and holistic analysis of a city

At this event we will...

Discuss research progress to date

Solicit input to the direction of the research programme

Allow opportunities to engage with the research teams

Programme for the Day

10.00 Registration and Refreshments

10.30 Liveable Cities, an Overview

Thinking About Our Low-Carbon Future

A City Analysis Methodology

Wellbeing and the Liveable City

Ecology and Ecosystem Services and the Liveable City

Economy and Finance and the Liveable City

Policy and Governance and the Liveable City

12.30 Lunch

Programme for the Day

12.30 Lunch

1.30 Parallel Breakout Discussions

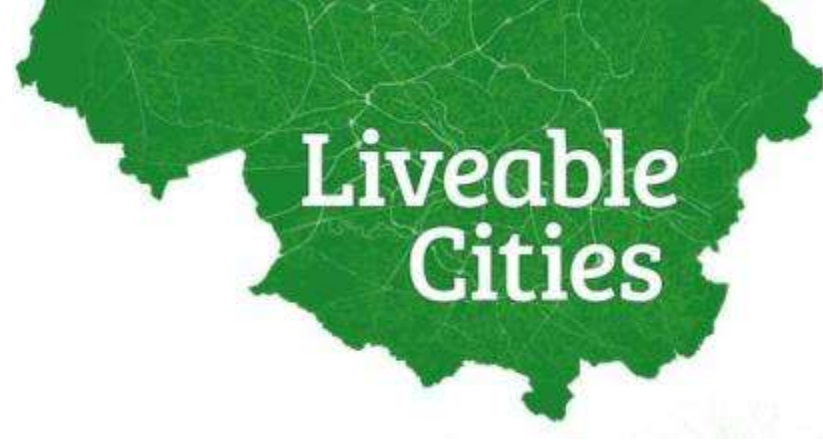
2.30 Plenary

2.50 Wrap Up and Date of Next Event

6 June 2013, Birmingham

3.00 Close

A Thought



A revolution does not arrive until we
reorganize our activities

Brian Arthur

Liveable Cities

An Overview

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A 5-year research programme to identify and test the radical engineering that will lead to low carbon, resource secure future cities in which societal wellbeing is prioritised

Our Vision



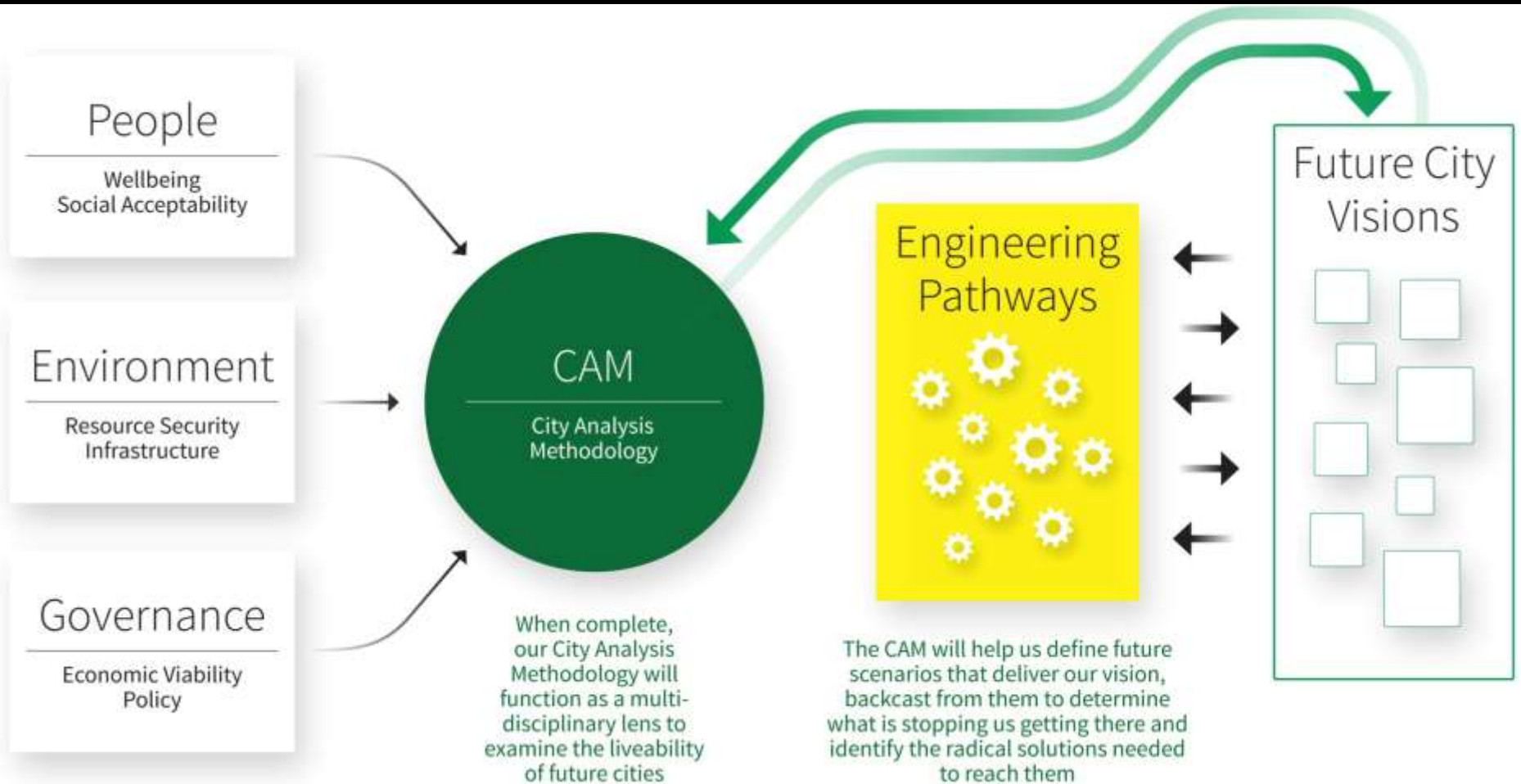
To transform the engineering of cities to deliver global and societal wellbeing within the context of low carbon living and resource security through developing realistic and radical engineering that demonstrates the concept of an alternative future

Our Ambition

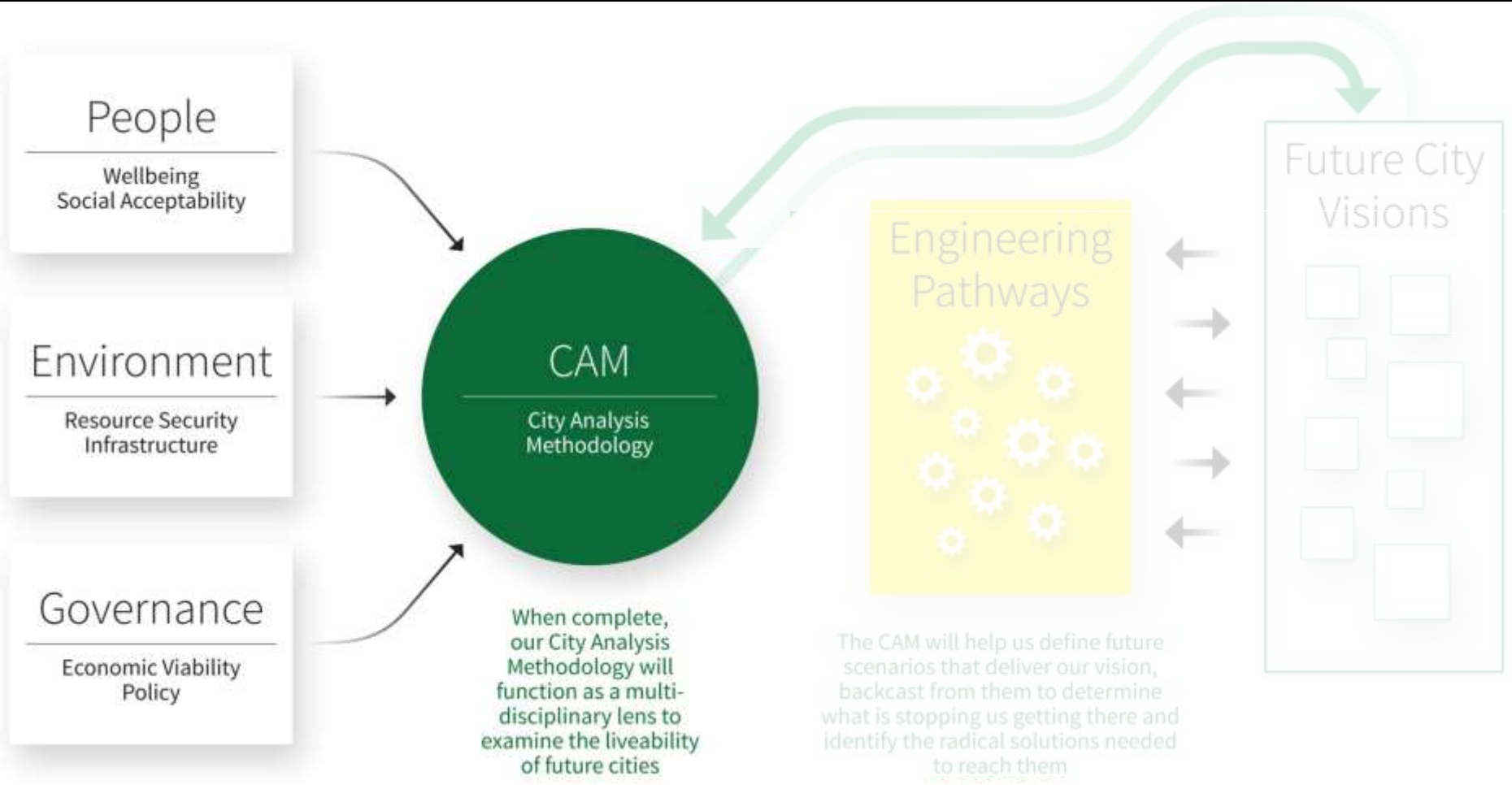


To create an holistic, integrated, truly multi-disciplinary city analysis methodology, which uniquely integrates wellbeing indicators, is founded on an evidence base of trials of radical interventions in cities, and delivers the realistic and radical engineering necessary to achieve our vision.

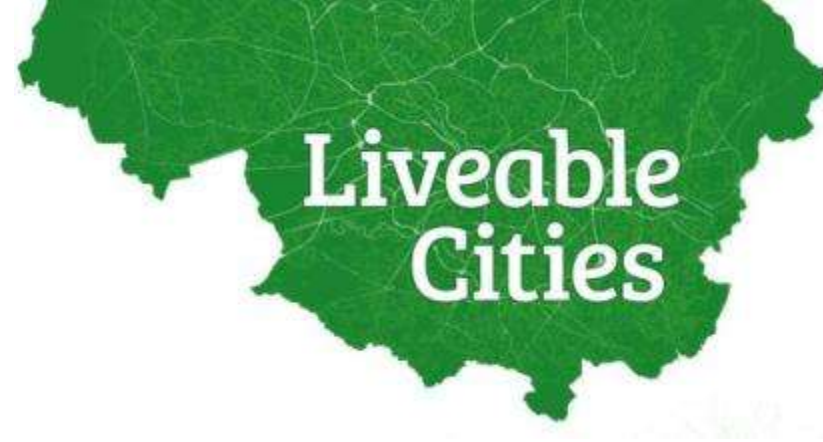
Programme



RC1: City Analysis

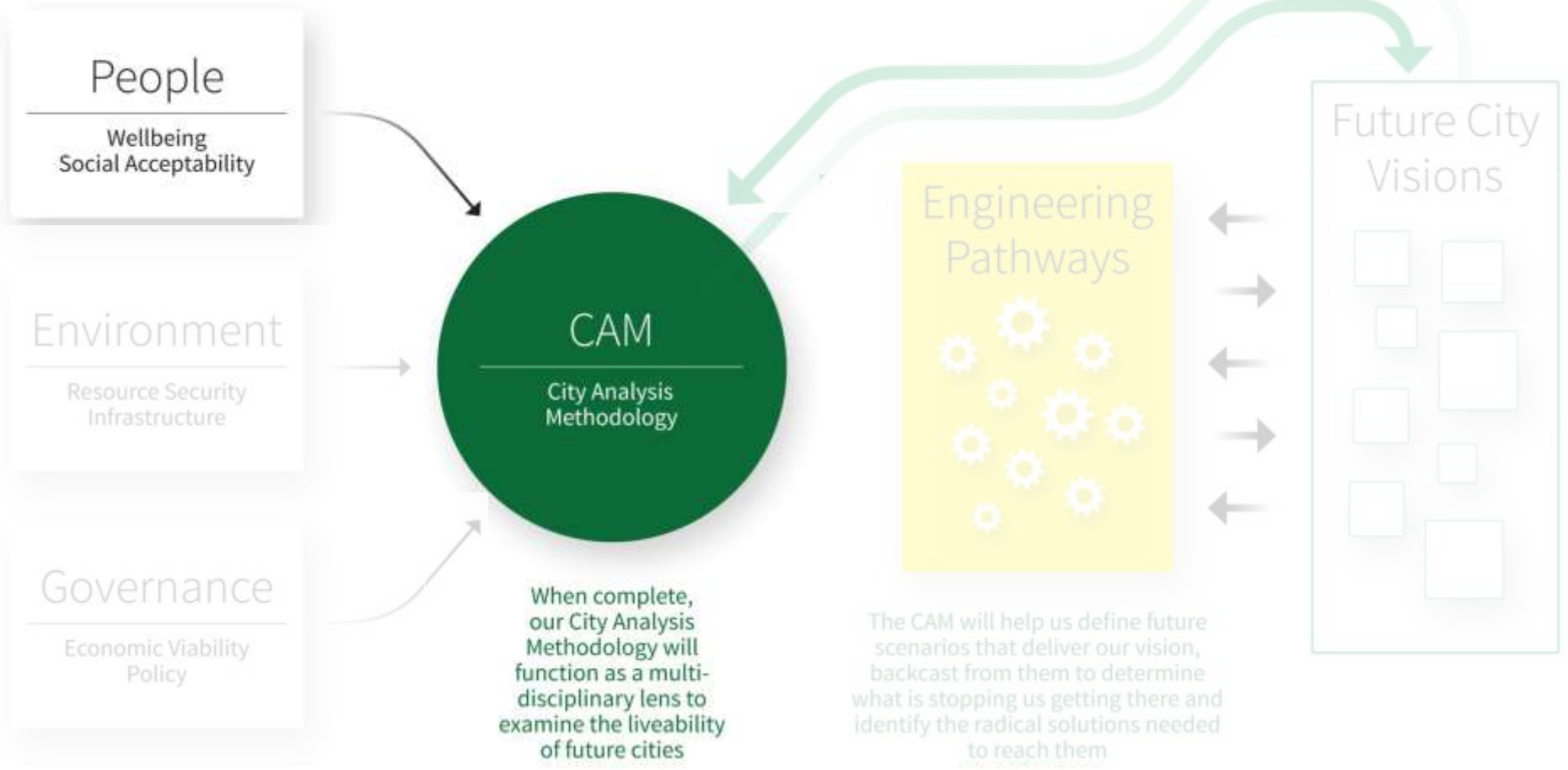


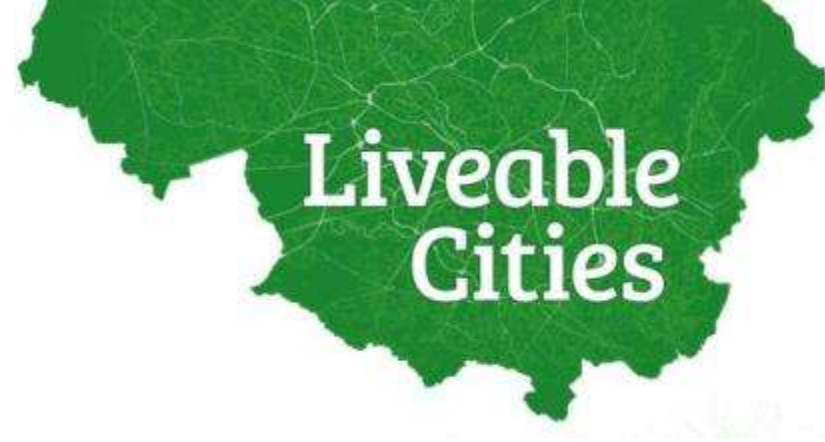
RC1: City Analysis



How can one undertake an *urban analysis* clustered to allow cities to be viewed through an *environmental lens*, a *social lens* and an *economy & governance lens*, and then synthesised to combine all relevant disciplines and cover the complete spread of perspectives?

RC2: Wellbeing



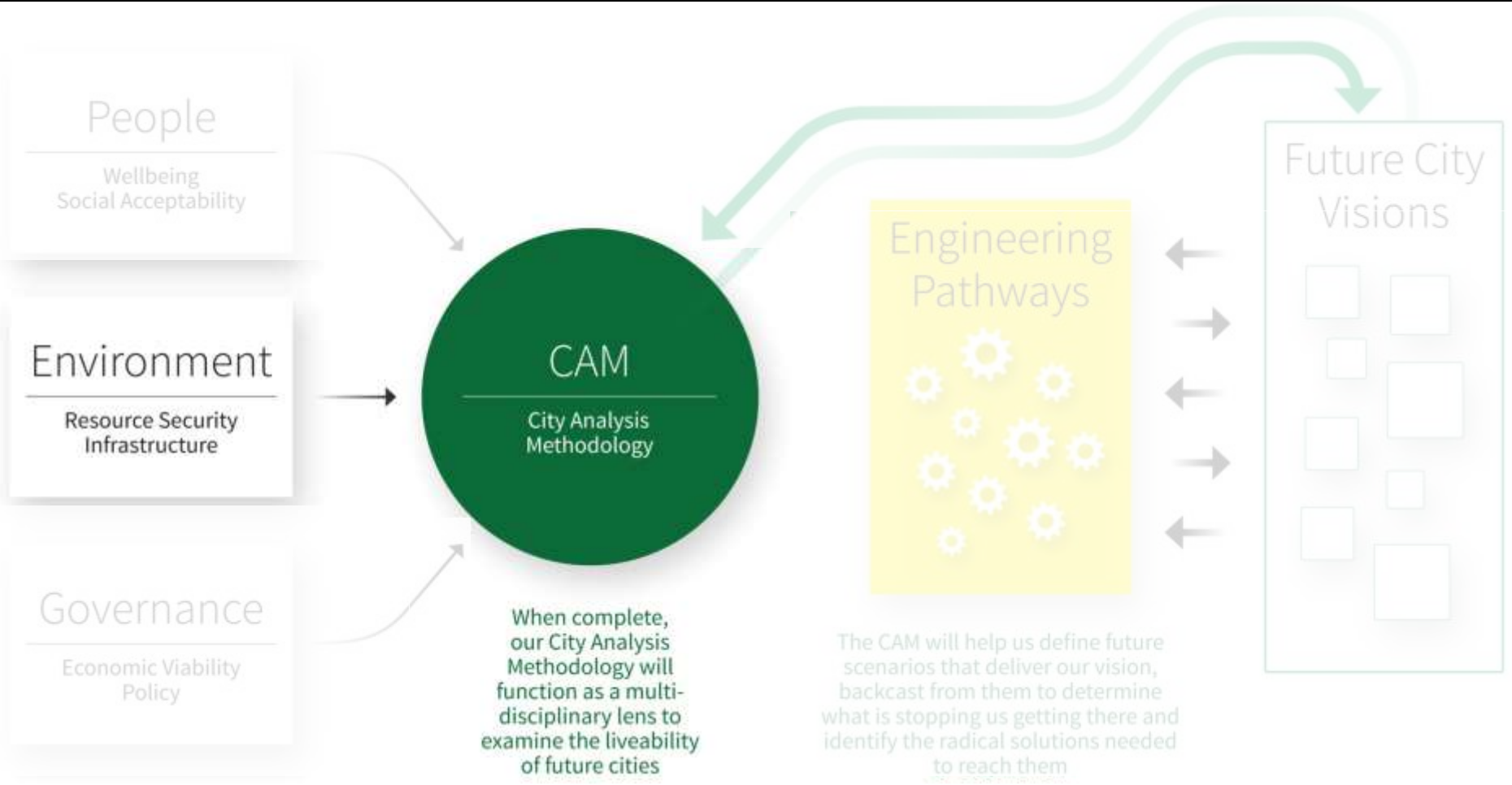


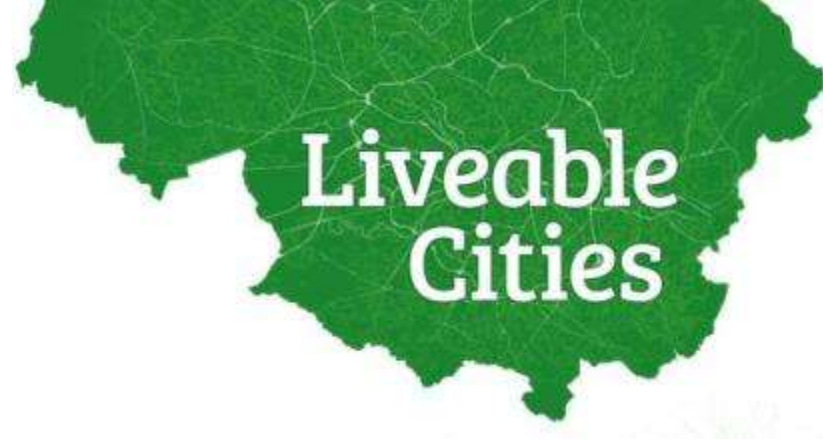
How do we ensure that radical engineering solutions take into account the human dimensions of living and working in a city?

How do we assess quality of life, wellbeing and citizen aspirations, and translate them into design criteria for transforming the engineering of cities?

How can our understanding of human and organisational aspirations and behaviour inform engineering to deliver low carbon living?

RC3: Energy



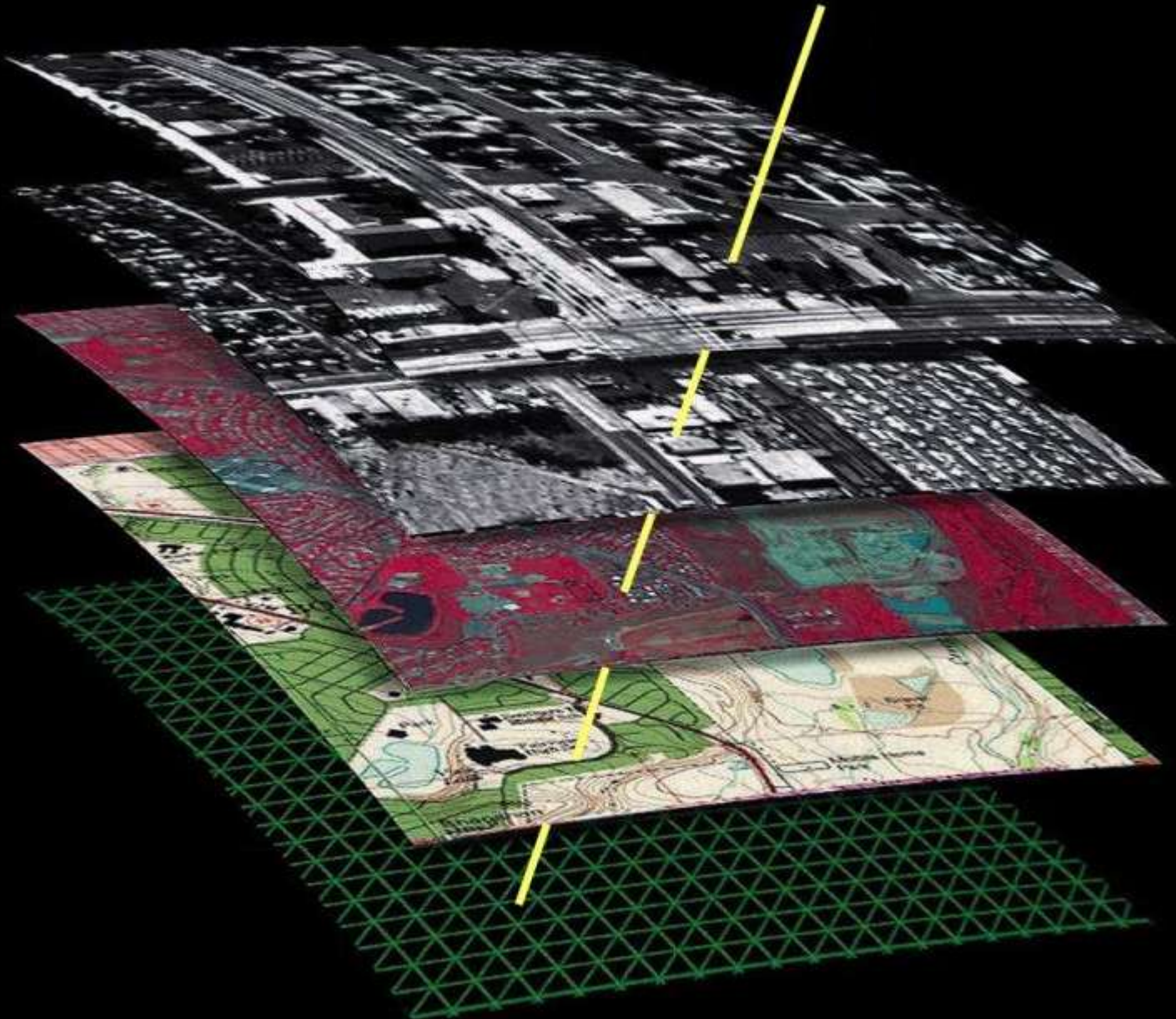


How do we address energy consumption to meet low carbon targets?

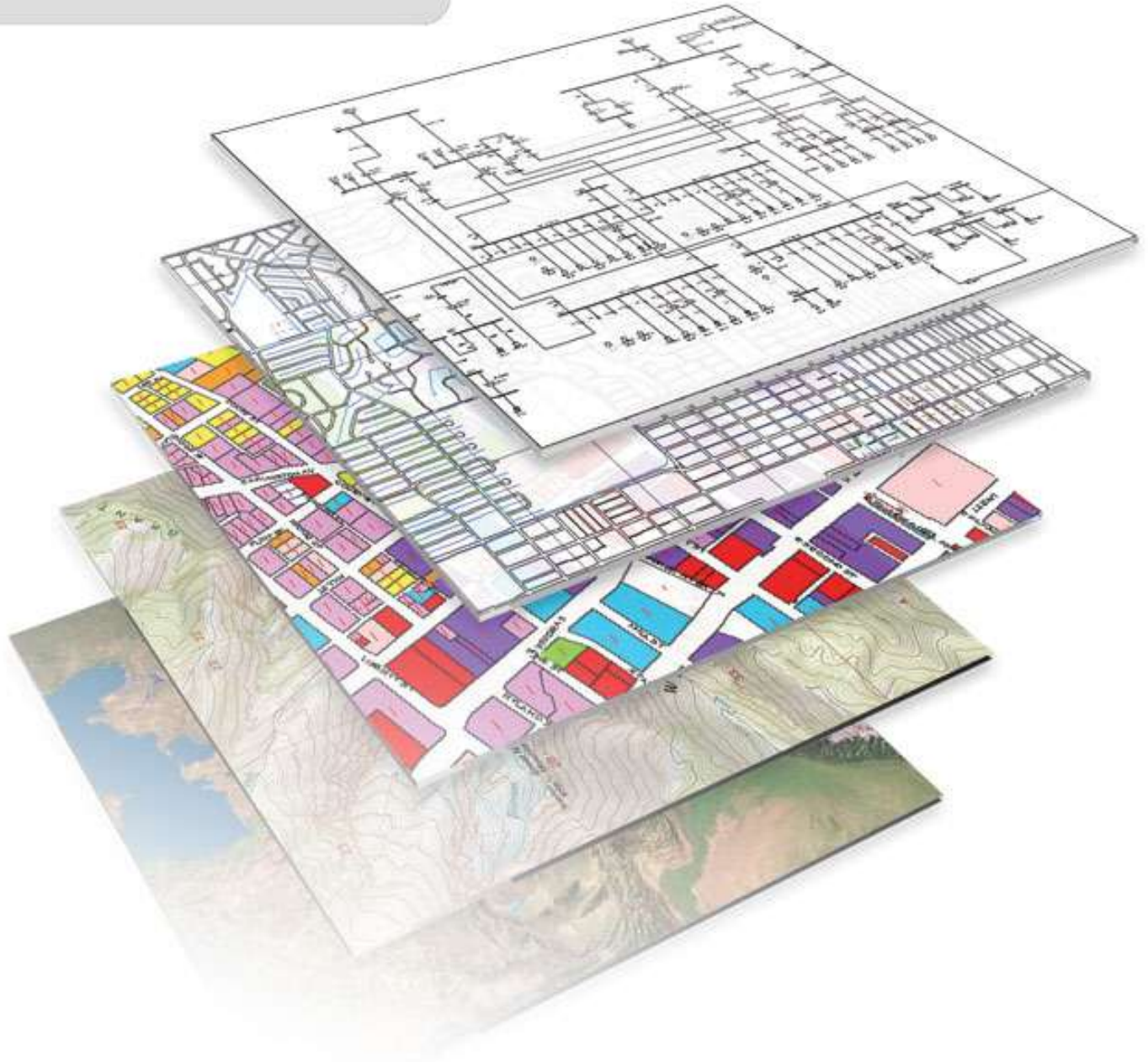
How do we address infrastructure “lock in” to improve the carbon performance of the urban environment?

How do we engender and embed low carbon pathways and engineering solutions for demand reduction and power generation in cities?

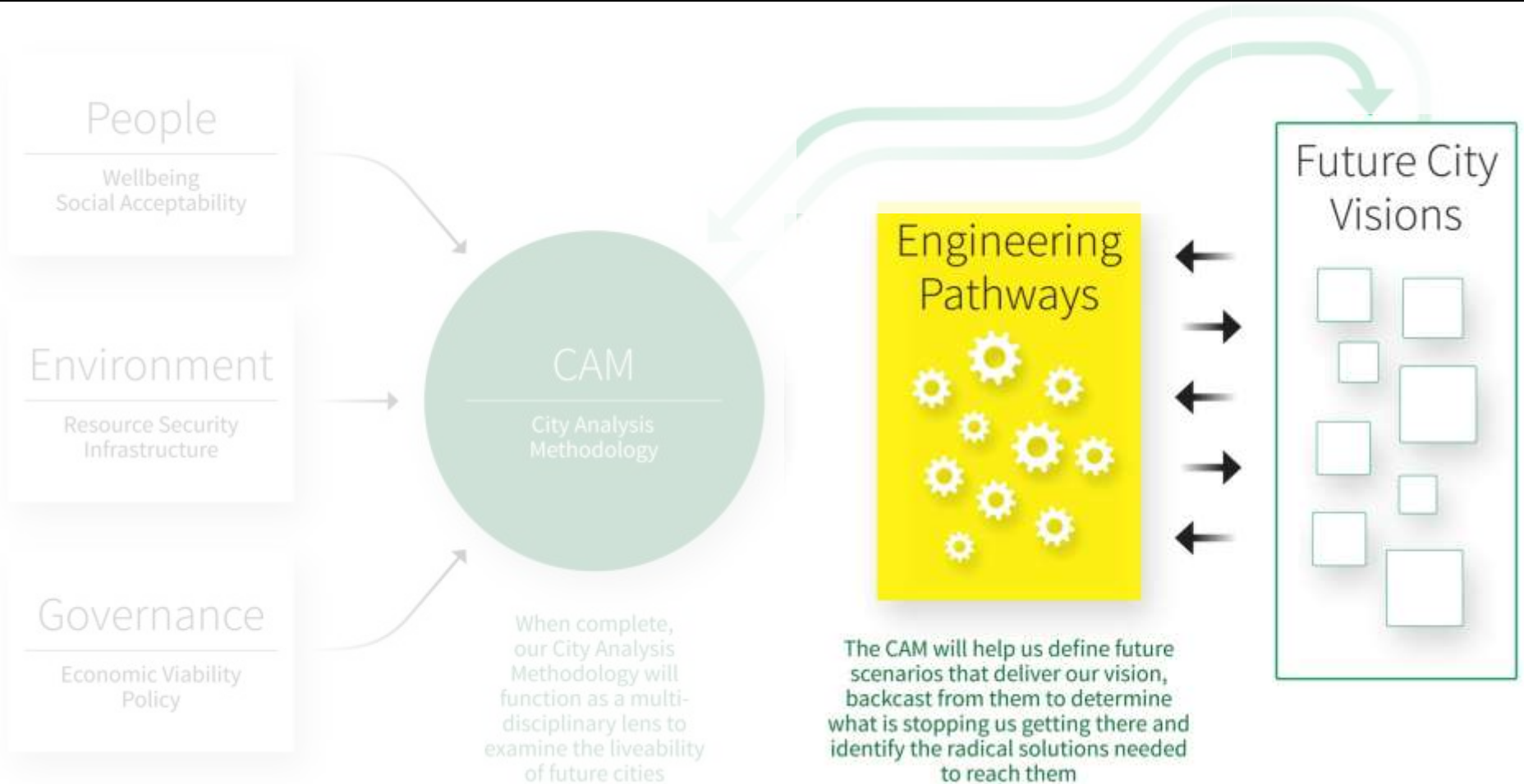
City Analysis Methodology

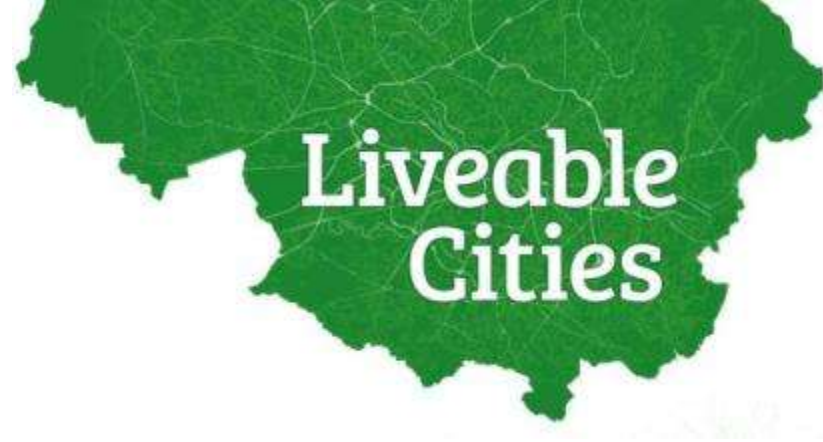


City Analysis Methodology



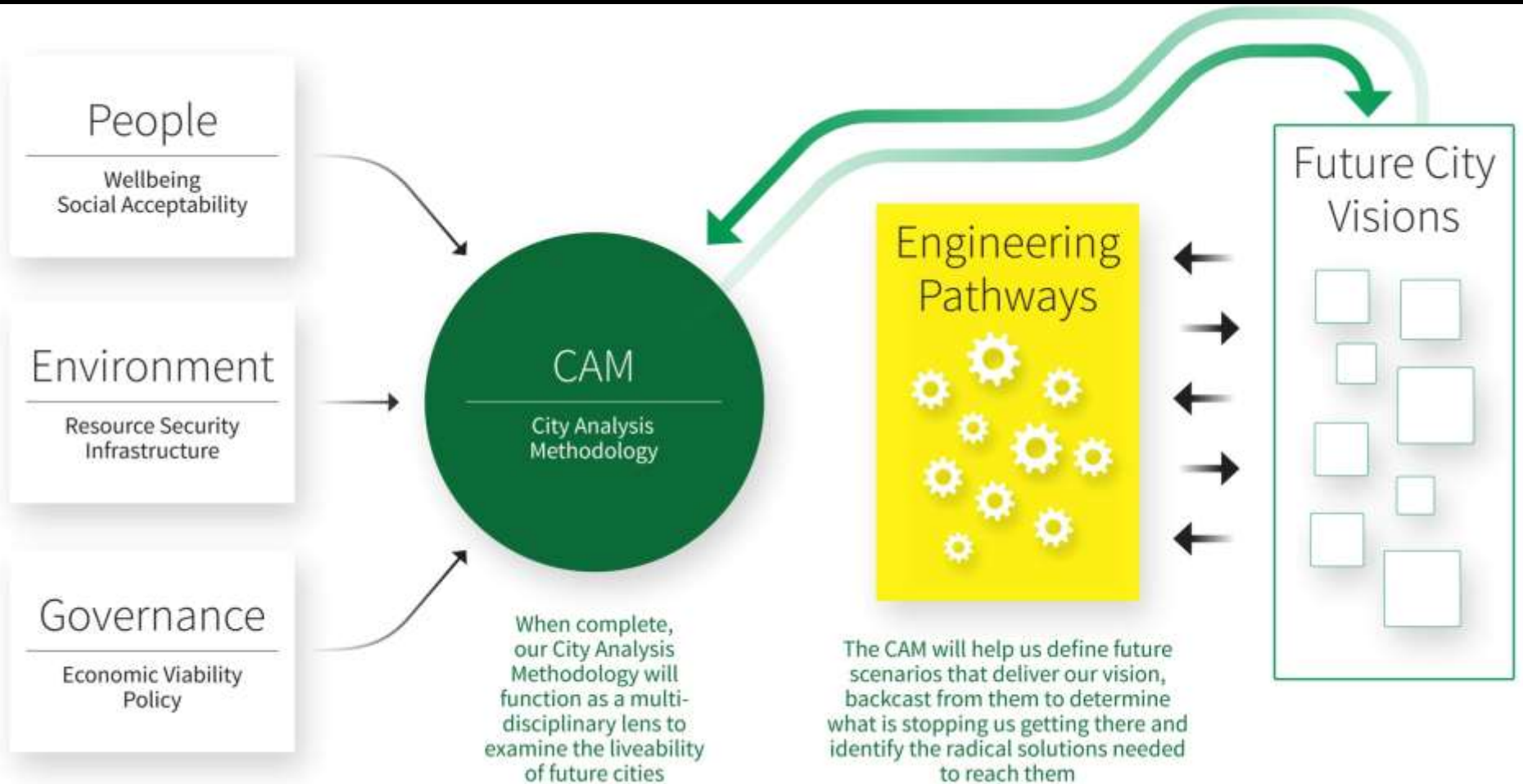
RC4: Radical Engineering

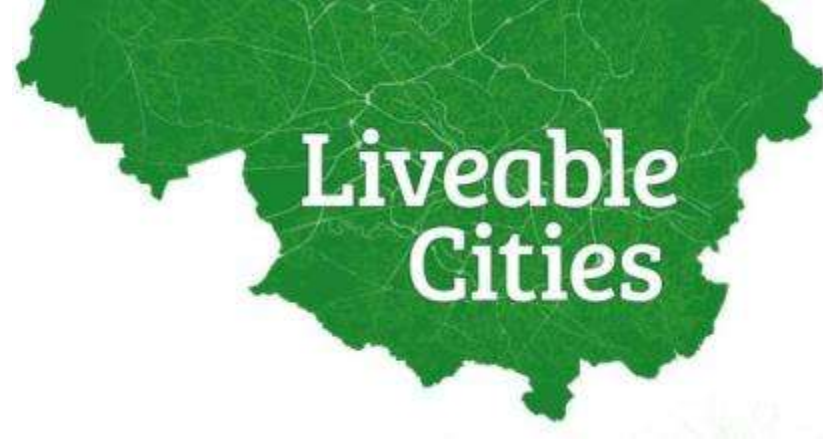




How to transform the engineering process through radical revisioning of the world and radicalising the engineering approach to shift solutions from the mundane “what we can do now” to the extraordinary “what we will do then”.

RC5: Governance and Policy





How do we synthesise the outcomes of Research Challenges 1-4 to form an engineering strategy and provide a pathway to implementation, thus embracing finance, policy, regulation and governance?

Case Studies

Birmingham

The first holistic case study to develop the City Analysis Methodology

Lancaster and Southampton

We will thereafter refine the City Analysis Methodology prior to testing and modelling using two further case study cities, which both provide different contexts and where past analyses have been conducted by the team

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of Cities to deliver Societal
and Planetary Wellbeing

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RC1 Team



Urban Analysis

Professor Chris Rogers

Dr Dexter Hunt

Dr Susan Lee

Joanne Leach

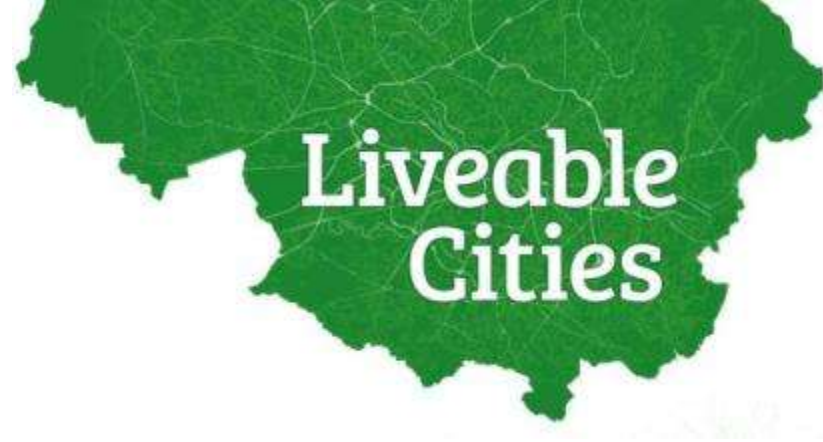
RC1 Team



Environmental Lens

Professor Jon Sadler
James Hale

RC1 Team



Social Lens

Mobility and Transport

Professor John Urry

Dr Katerina Psarikidou

Social Aspirations

Dr Hélène Joffe

Dr Nick Smith

RC1 Team



Economy and Finance Lens

Dr Francesca Medda

Dr Minette D'Lima



Professor Rachel Cooper
Dr Christopher Boyko

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Professor Rachel Cooper
Dr Christopher Boyko

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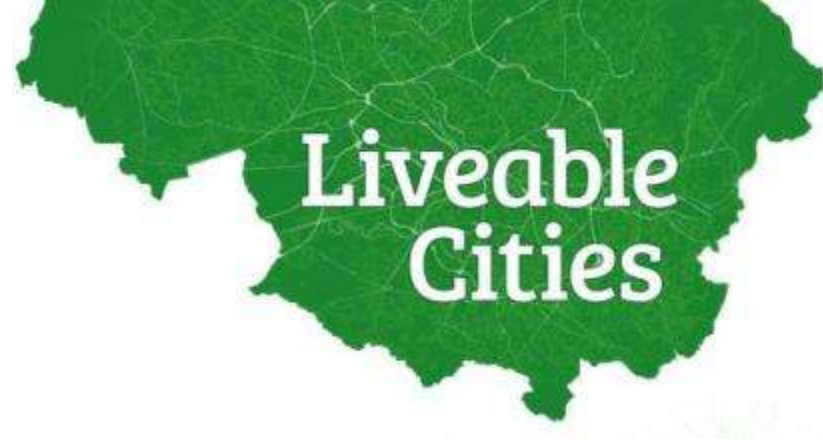


Professor AbuBakr Bahaj
Dr Patrick James
Dr Luke Blunden
Dr Mark Jentsch
Professor Jane Falkingham
Dr Milena Büchs

How do we address energy consumption to meet low carbon targets?

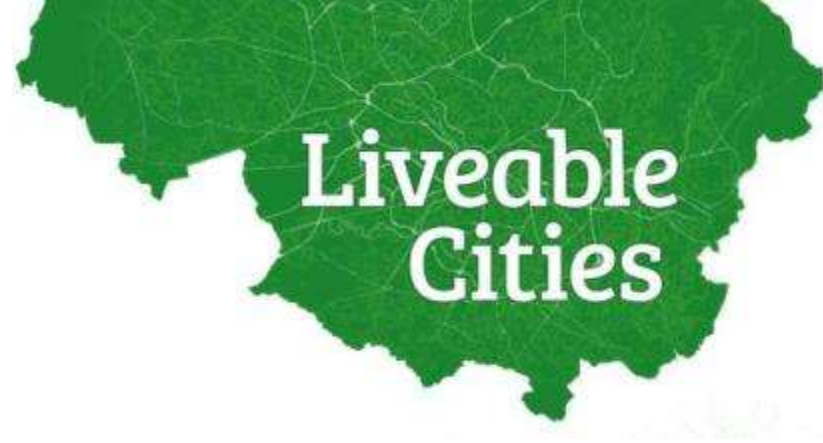
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Professor Nick Tyler
Dr Adriana Ortegon

How to transform the engineering process through radical revisioning of the world and radicalising the engineering approach to shift solutions from the mundane “what we can do now” to the extraordinary “what we will do then”.



Professor Brian Collins
Dr Katie Barnes

How do we synthesise the outcomes of Research Challenges 1-4 to form an engineering strategy and provide a pathway to implementation, thus embracing finance, policy, regulation and governance?