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UK City LIFE<sub>1</sub> is a comprehensive tool for holistically measuring and assessing the liveable-sustainability performance of UK cities. The tool comprises 346 indicators structured in two ways. The first is within a four-tier, framework that focuses upon liveable-sustainability outcomes; for example, promoting healthy living and healthy long lives, minimising energy use, and uncoupling economic vitality from CO<sub>2</sub> emissions. The second is by themes that mirror government and disciplinary siloes; for example, health, energy, economy and climate change. Data arising from the tool's application are presented within an Excel spreadsheet. A Birmingham, UK, dataset is available.

### Tool Contents

UK City LIFE<sub>1</sub> combines data from primary and secondary sources. Data are representative of the city, but do not have to have sub-city scale components. Data from 2011 are included as a first preference (drawing from the 2011 Census), then data for the least recent year after 2011 and data for the most recent year prior to 2011. Where data cannot be collected, indicator values are marked as null.

### How has it been delivered?

UK City LIFE<sub>1</sub> has been used to understand what is known and unknown about the liveable-sustainability performance of Birmingham, UK, and to inform how those in government and those responsible for the delivery of the city's services can improve the city's liveable-sustainability performance into the future.

Metric chosen for UK City LIFE <sub>1</sub>	Related indicators chosen for UK City LIFE <sub>1</sub>	Indicator type (objective/subjective)	Indicator units	Birmingham performance	Geo
Duration of residence	Percentage of people who feel very or fairly strongly that they belong to their neighbourhood	Subjective	Percentage, persons	43.7	Birm
Sense of belonging	Average (mean) duration of living in city/area	Objective	Count, years	38.42	Birm
	Median duration of living in city/area	Objective	Count, years	36	Birm
Duration of residence	Mode duration of living in city/area	Objective	Count, years	55	Birm
	Percentage of people who think they are very or quite likely to be living in city/area in 10 years time	Subjective	Percentage, persons	73	Birm
Expectation of future residence	Urban form				
Area	City/area land area	Objective	Count, hectares	26773	Birm
	Percentage area of domestic buildings	Objective	Percentage, land area	8.8	Birm
Land use	Percentage area of domestic gardens	Objective	Percentage, land area	23.3	Birm
	Percentage area of non-domestic buildings	Objective	Percentage, land area	5.1	Birm
	Percentage area of road	Objective	Percentage, land area	12.4	Birm
	Percentage area of paths	Objective	Percentage, land area	0.9	Birm

Excerpt of UK City LIFE<sub>1</sub> Birmingham Data Spreadsheet

### Where has it been published?

- The Birmingham, UK, data set is freely available from <http://epapers.bham.ac.uk/3040/>
- A data paper describing the UK City LIFE Birmingham data set is freely available from <http://www.sciencedirect.com/science/article/pii/S2352340917305218>
- A journal paper describing the process of designing and applying UK City LIFE to Birmingham, UK, is freely available from <http://www.sciencedirect.com/science/article/pii/S0264275116305509>
- The Liveable Cities White Paper: Using City Performance Assessment Methods in Policymaking

### Who participated?

The design of UK City LIFE<sub>1</sub> and its application to the city of Birmingham, UK, was conducted in collaboration with local authorities, urban design decision-makers and urban professionals as part of an iterative process that included a series of workshops and meetings.

### Levels of Usability/Testability

- UK City LIFE<sub>1</sub> has been comprehensively tested on the city of Birmingham, UK, and the arising, experimental data set is freely available to download.
- UK City LIFE<sub>1</sub> has been refined for the neighbourhood scale through the design of a bespoke survey, which has been tested in the Hay Mills neighbourhood in Birmingham.