

# Technology Strategy Board

Driving Innovation

## Help with completing this form

### Notes on completion and submission of this form

**Before completing this form, please refer to the document “Guidance for Applicants” for this Competition.** Competition requirements change between each competition, so please review this document even if you have entered other Technology Strategy Board competitions. The Guidance for Applicants and other competition documentation is available on the secure competition website (access details for which are included in the email to which this application form was attached).

**Check what constitutes a complete submission for this stage of the competition.** Details of any additional documentation required (which could include appendices and finance forms etc) are included in the Guidance for Applicants.

**Completion of this form:** The text entry areas within this form are fixed sizes. Applicants must ensure that their content is contained within the boundaries of the text areas as shown in **PRINT VIEW** or in the printed version of the application form. Any content entered which is not visible on the form or which goes beyond the page length indicated in the Guidance for Applicants will not be passed to the assessors of the application. The typeface, font size and colour for the text entry areas are predetermined and must not be changed. The document must be saved as **Microsoft Word** document (.doc or .docx), prefixed with the word FINAL – only the last version marked FINAL will be assessed.

**Please note that this application can be used for a single proposal ONLY.**

<b>Competition</b>	<b>Future Cities Demonstrator – Feasibility Studies</b>
<b>Study title:</b>	One Planet Super City: Brighton & Hove

## Feasibility Study Abstract

The abstract should provide a short summary of the content and objectives of the project. **Please refer to the Guidance for Applicants**

Towards a One Planet Super City: Embracing and stimulating business and community innovation in designing and managing city systems that drive economic prosperity, health and social well being within the principles of an accredited sustainable development methodology - One Planet Living - accessible and visible to a wide range of audiences and with global appeal.

## Application Details

Lead organisation name	Brighton & Hove City Council		
Address 1	King's House		
Address 2	Grand Avenue		
Address 3			
Town	Hove	County	East Sussex
Postcode	BN3 2LS	Country	England
<b>Lead Person contact details</b>			
Name:	Geoff Raw		
Email:	geoff.raw@brighton-hove.gov.uk		
Phone:	01273 290726		
Document ID:	1206_FCD_FSApplication.doc		
Project Number (internal use only):	23492-162370		

## Feasibility Study Details

The aim of this feasibility study grant is to help cities evaluate the potential benefits of integrating their city systems and to develop a full proposal for a large scale city demonstrator project. The project will culminate in a short report, and will provide critical information for any full scale application.

In the space below please provide an outline description of:

- 1) The urban area that will be the subject of the feasibility study; its approximate population and the size of its economy (GVA)
- 2) What challenges can you tackle and opportunities realise by integrating city systems?
- 3) Which systems do you plan to integrate and how will you approach the integration?
- 4) Existing relevant infrastructure projects – description, size of investment and planned delivery date

**Please clearly number your answers to cover all 4 areas outlined above.**

## Feasibility Study Details

1. **URBAN AREA:** Brighton and Hove is a compact city of global appeal and accessibility drawing up to 8m annual visits and inspiring the highest number of business start ups outside London. A city of rich heritage, culture and arts, Brighton is an impressive platform for the UK to demonstrate the very best in creating a 'sustainable super city'. The city continues to exhibit strong growth potential. It ranks first in total private sector employment growth 1998- 2008, with a GVA of £5,244m (2008). Its population is estimated at 256,000 (2009). A recent 'Sustainable City of the Year', the City Council is championing One Planet Living as a driver of business creativity, public service innovation and community health and well-being.

### 2. CHALLENGES AND OPPORTUNITIES

Our State of the City Report provides an intelligent snapshot of our city challenges and their impact <http://www.bhlis.org/news/item?itemId=65>. It underpins the work of the City Council, an integrated Public Service Board and a Local Strategic Partnership all signed up to the 10 principles of One Planet Living. Transforming the city on these principle rests in large part on integrating city systems and spurring innovation in the public and private sector.

**ENGAGEMENT SYSTEMS:** Driving innovation by engaging the business sector in developing and improving systems for engaging our local community and businesses in city service design and budget making, and releasing community capacity and solutions.

**CREATIVE & DIGITAL ECONOMY SYSTEM:** 23,600 jobs and 18% of the local economy (2010) are in the knowledge sector. We are aiming to foster growth and productivity in this sector supporting existing business mentoring and networks (e.g. Wired Sussex) and creating affordable, high quality managed work space offices, integrated with our universities and serviced by new and integrated system of city wi-fi and ultrafast broadband.

**TOURISM SYSTEM:** reinventing city's tourism offer through development of its eco-tourism credentials realising the opportunities as a city gate way to the South Downs National Park and an emerging Biosphere reserve, linked to accelerated investment in a city-wide sustainable transport system.

**ENERGY, DEVELOPMENT, HOUSING & TRANSPORT SYSTEMS:** In developing a new 'City Deal' underpinned with a new City Plan, we are aiming to bring together a basket of public sector funds and physical development investment opportunities to transform the physical fabric and public realm of the city within geographically focused corridors and areas and in so doing aims to demonstrate how innovative funding and development agreements can create the conditions for economic growth but reduce long term environmental impacts.

**FOOD & PUBLIC HEALTH SYSTEMS:** An unhealthy relationship to food in our city currently means 43,600 adults are obese and of these 6,400 are morbidly obese. 30% of Year 6 children are also obese or overweight cost the NHS system £78.1 million in 2010. Connecting health and food systems to spur commercial innovation and foster a wide range of benefits.

### 3. APPROACH TO SYSTEMS INTERGRATION

The council has shortlisted 5 study areas for further investigation supported with feasibility funding. Subject to the findings of the feasibility study stage, the council in conjunction with its bid partners and TSB officer advice, will review the focus of the final bid submission taking into account deliverability, impact and quality of outputs.

Integration of the the identified systems will be overseen and co-ordinated through the city's existing and well-established city governance. A new city council Sustainable City Unit will provide the day-to-day management of the project and a web platform will be set up as a resource to support the feasibility study, capture information and visualise a wide range of perspectives on what constitutes an intergrated systems 'One Planet Living super city'.

## Feasibility Study Details (continued)

Additionally, a multi-agency and sector working group would be established to steer and guide the project and the project team, including reviewing existing systems and proposals and generating priorities for system integration. The group would also be critical in devising the engagement plan for the project.

The systems we plan to integrate include:

Engagement systems; Creative & digital economy system; Tourism & visitor; infrastructure systems; Energy, development, housing & transport systems; and, Food & public health systems.

### 4. EXISTING INFRASTRUCTURE PROJECTS

City governance & engagement systems

Existing city governance, public led engagement and information systems.

Creative & digital economy eco system

Ultrafast broadband and city centre wi-fi infrastructure to underpin sustainable business growth. Up to £10m government and private sector investment from Nov 2012;

City Centre Block J Site Redevelopment – Sussex Innovation Centre managed new creative and digital work space hub premises, £3m from Sep 2012;

Tourism & visitor infrastructure systems

Southern Water's new wastewater treatment plant including recent renewal of 30 miles of water mains. £300 million 2012-2014.

The 'i360' a new sustainable international visitor attraction. Over £35m of public loan financing and private equity investment from 2012/13.

Energy, development, housing & transport systems

E.ON's Rampion offshore windfarm. £1 billion investment commencing 2013/14;

Shoreham Port renewable energy plan including a new 32 megawatt electricity generating station using waste and industrial oils delivered by ship; four-six medium sized wind turbines and a large solar PV array, all being investigated by MITIE, a FTSE 250 company from 2012.

Housing Estate Regeneration programme. Up to £100m from Autumn 2012-17;

Food & public health systems

A new trauma, teaching and tertiary (3Ts) hospital, with an investment value of approx £420 million, due to start on site in 2013/14 with a 10 year build;

'Harvest Brighton & Hove' food production & consumption in the city initiative. National Lottery 'Local Food' £235K to 2014.

## Public Description of the Project

**If your application is successful, the Technology Strategy Board will publish the following summary of your proposal to comply with government requirements. Provision of this summary is mandatory but will not be assessed. Please ensure it is suitable for public disclosure.**

Three and half planets; the number of planets required if everyone consumed the same level of resources as the city of Brighton & Hove. The city council and its partners have committed to making Brighton & Hove a one planet super city. It is a trailblazing initiative. A One Planet Super City is only achievable with a coherent integration of systems where the aims and objectives of raising prosperity and social well being is balanced with management of the environment and economic growth. All overseen by a governance and engagement system that facilitates collaboration and co-production for the goal of a one planet city.