

Title:	Future Cities Large Scale Demonstrator – bid to the Technology Strategy Board
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Purpose/Key Messages:	For information
Significance to BHSP and Delivering SCS outcomes:	Promoting Enterprise; Living within environmental limits and enhancing the environment; Sustainable transport; sustainable health care for older people at home; addressing food waste
What is BHSP being asked to do?	Note the report
Next steps and report back mechanism:	The Strategic Director Place will report back at the next BHSP meeting with the TSB's decision

1. Background

- 1.1 In Spring 2012, the Technology Strategy Board¹ (TSB) announced a competition for local authorities to win £24m to demonstrate city systems integration.
- 1.2 The competition was run in two stages and 30² local authorities were successful at Stage 1 of the process, including Brighton and Hove.
- 1.3 Each of the 30 local authorities successful at Stage 1 was awarded £50k to undertake a feasibility study, develop their proposals and submit a full bid to the TSB.

¹ The TSB is about driving innovation. It is an executive non-governmental public body established by government in 2007 and sponsored by the Department for Business, Innovation and Skills (BIS)

² The other 29 local authorities are Belfast, Birmingham, Bristol, Cambridge, Camden, Cardiff, Coventry, Derby, Dundee, Enfield, Glasgow, Ipswich, Leeds, Leicester, London, Manchester, Milton Keynes, Newcastle, Nottingham, Peterborough, Plymouth, Salford, Sheffield, Southampton, Southend-on-Sea, Stoke-on-Trent, Sunderland, Swindon and Warrington

- 1.4 The deadline for submission is 14 November 2012 and the TSB will interview around 4 to 5 shortlisted authorities in early December.
- 1.5 The winner of the competition is expected to be announced in late December 2012/early January 2013.
- 1.6 The winning authority will get £24m to implement the demonstrator between January 2013 and March 2014 (probably with some flexibility).

2. Technology Strategy Board Objectives for the Competition

- 2.1 The objective of the demonstrator will be for a city to work with suppliers to test the additional value that can be created by integrating city systems to a level not previously achieved in the UK.
- 2.2 This will allow cities to explore new approaches to delivering a strong local economy and excellent quality of life for its citizens, whilst reducing the environmental footprint and increasing resilience to environmental change.
- 2.3 The TSB is looking for proposals that:
 - show the integration of multiple systems in novel ways
 - tackle specific challenges in the host city
 - have potential for large impact on the economy, quality of life and environmental impact
 - combine recent or current investment in city infrastructure with the demonstrator funding to create a more effective test environment
 - provide a platform that allows innovative companies, particularly SMEs, to test their ideas
 - offer potential for further development and use beyond the demonstrator funding.
- 2.4 The city council's bid is entitled: **Brighton and Hove: One Planet Smart City.**
- 2.5 The outputs required by the TSB are:
 - A final report on the feasibility study (which will be published on the TSB website and in the public domain)
 - The Proposal (the Bid) which will be assessed by 5 independent TSB assessors.

3. Project Governance and Management

- 3.1 A Project Board was established in September to oversee and guide the development of the bid and a project manager was appointed to act on behalf of the city council.
- 3.2 The Project Board includes the Acting Chief Executive of BHCC, The Strategic Director Place, the Leader of the council and elected members from all three political parties.
- 3.3 An invitation to tender for the consultancy work to undertake the feasibility study and write the bid was published in early September and The Real Economy was appointed as Technical Consultants.

4. Bid Development Process

- 4.1 In late August, The Strategic Director Place held an open briefing session that was attended by 30 people representing local businesses, technology companies, consultancy firms, the universities, partnerships and community groups.
- 4.2 In early September, the council issued an open call for proposals for city systems integration and received 18 submissions.
- 4.3 The submissions proposed a range of systems for integration including transport, public health, energy, tourism, food, water and engagement systems.
- 4.4 Several submissions proposed the use of open data (and an open data platform) as an enabler for systems integration.
- 4.5 The proposals were assessed against the following criteria:
 - The TSB criteria (as set out in para 2)
 - The extent to which they addressed challenges in the city and identified in existing city strategies and action plans
 - The feasibility of delivering the work within the short timeline for the demonstrator.

5. The Process and Stakeholder Involvement

- 5.1 The feasibility study assessed ideas against TSB criteria, BHCC's priorities as set out in the various strategies and plans for city and the feasibility of implementing them between January 2013 and March 2014.

- 5.2 Over 30 individual meetings and 3 events with interested parties and key players were held between late September and early November.

6. The Proposal

- 6.1 The core of the city council's proposal centres on using open data (including real time data) to encourage the integration and efficient use of all systems in Brighton and Hove.
- 6.2 There is already evidence that open data and the technologies associated with it can unlock untold opportunities for businesses, citizens and governments - to create value, to connect people and to drive efficient and resilient systems. The TSB bid proposal is designed to test and expand this evidence.
- 6.3 An open data platform will provide a 'test-bed' for innovative companies to test their ideas, encouraging innovation and demonstrating technology that can be exported, one of the TSB's core objectives.
- 6.4 The bid sets out how the demonstrator will pilot 3 projects which exemplify the potential benefit from integrating city-wide systems.

7. Three Demonstrators

- 7.1 The three demonstrator projects, chosen to address key challenges in the city and capable of being delivered within the timeframe. These projects are:
- Open House: integrated service delivery for elderly people (linked to NHS Sustainable Development Route Map and building on the success of the Patchwork Pilot);
 - Open Trading: food supply chain – closing the loop on food waste and addressing the issue of food waste from the hospitality sector; and
 - Open Ticket: integrated transport (trains, buses, car parking, traffic management, cycling etc) to encourage a model shift from private car use to public transport and/or walking and cycling.
- 7.2 Supporting the overall vision for a Smart City, the bid also proposes an engine of learning, research and collaboration; The Power House. It will have both a physical and virtual presence within the city building on the experience of the Brighton Fuse, Wired Sussex, the University of Brighton and others.

- 7.3 The Power house will focus on smart city systems. It will bring the digital and creative industries together with expertise in smart technologies to bring solutions to the city – and create new business opportunities here and abroad. It will be more than a standard enterprise hub – providing a much richer, more integrated experience – in order to boost collaboration.

8. Delivery Vehicle

- 8.1 On the 29th November, the Policy & Resources Committee will receive a report requesting approval for the city council to act as the accountable body for the funding if the bid is successful.
- 8.2 The city council is developing plans to establish a Local Investment Board as the delivery vehicle for Future Cities funding and other investment funds.
- 8.3 The Local Investment Board will be supported by a Future Cities Unit which will be located in the Council. The Unit will bring together the existing economic development functions of the city council, supplemented by programme management, procurement and financial resources necessary to run the Future Cities Programme. Bringing the existing resources together with the new team will ensure best value for money, with extra programme management overheads kept to a minimum, and strengthen the strategic alignment between the TSB Future Cities Programme and the wider priorities of the Local Investment Board.