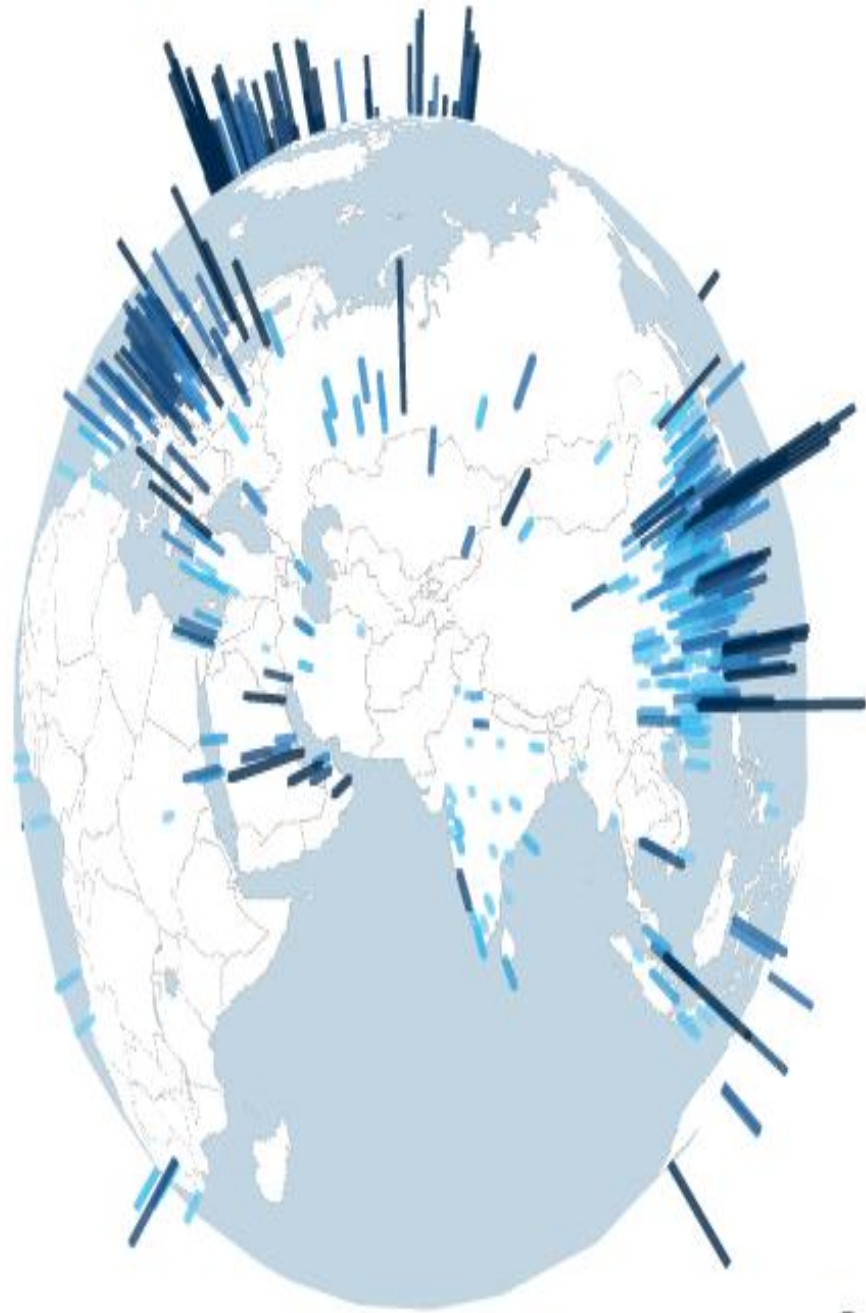


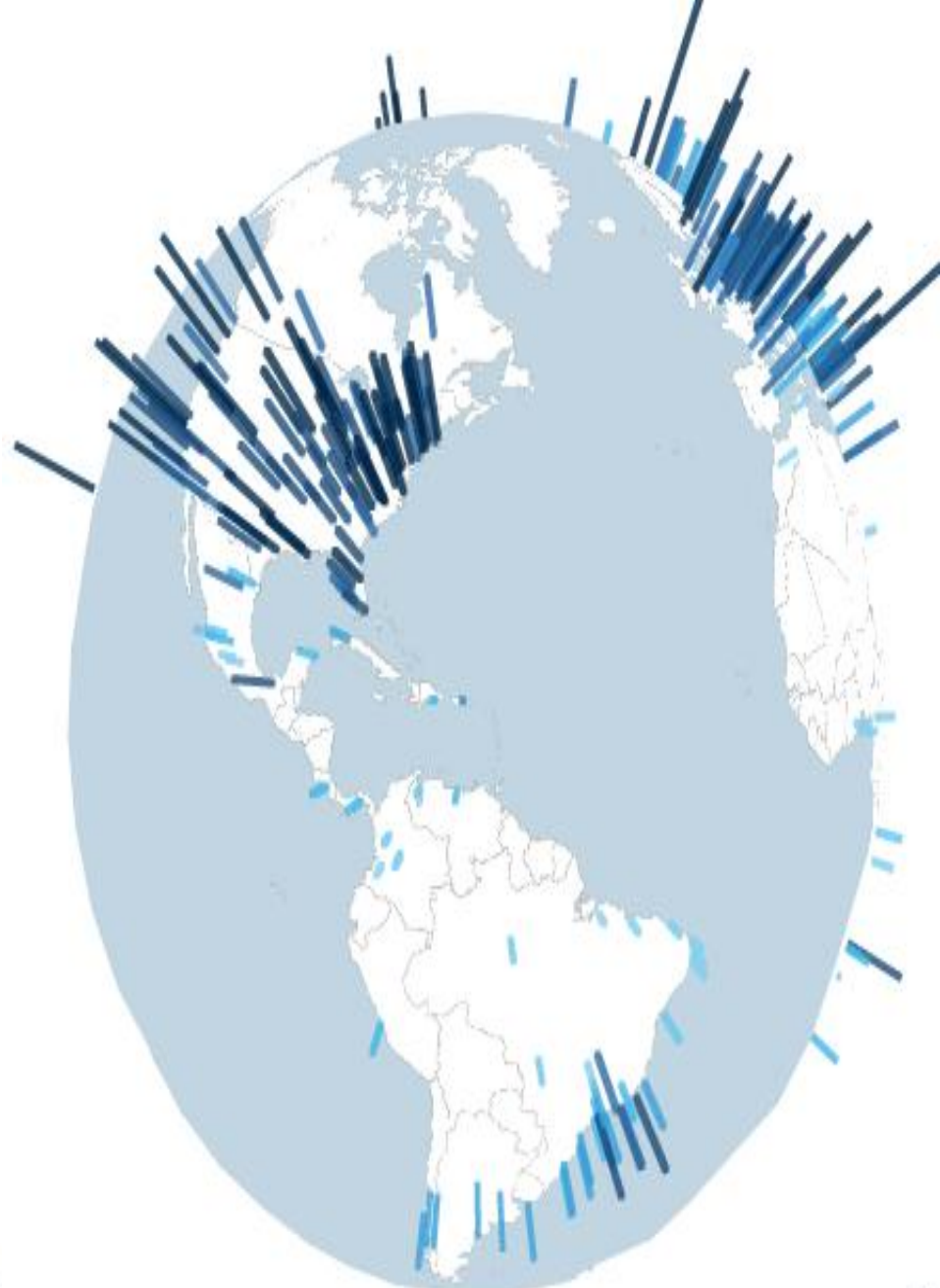
# Future Cities

David Altabev  
Future Cities Demonstrator Manager  
Technology Strategy Board

#futurecities



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LOW



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LO

# Technology Strategy Board

Driving Innovation

**Improve  
Economy**

**Quality  
of  
Life**

**Reduce  
Risk**

**Integration**

Transport

Comms

Energy

Water and  
Waste

Education

Buildings

Healthcare

Security



# Solutions for People

# Technology Strategy Board

Driving Innovation

**Improve  
Economy**

**Quality  
of  
Life**

**Reduce  
Impact**

**£200bn**

Transport

Comms

Energy

Water and  
Waste

Education

Buildings

Healthcare

Security

An aerial photograph of a city, likely in Japan, showing a dense urban area with a river winding through it. The word "Demonstrator" is overlaid in large, bold, yellow text across the center of the image. The city features a mix of residential and commercial buildings, green spaces, and a network of roads and rail lines. The river is a prominent feature, curving through the lower right portion of the frame.

# Demonstrator



Home > News > Politics > Future cities competition

POLITICS

## Technology Strategy Board opens 'Future Cities' design contest

By Liat Clark | 12 June 12



Discover exceptional  
CLS Shooting Brake offers.  
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Mercedes-Benz

MOST POPULAR NOW

### First direct picture of DNA double helix captured





EVIDENCE

EVIDENCE

DATE \_\_\_\_\_

MADE IN  
USA



**£24m**

# Technology Strategy Board

Driving Innovation

## Google “Future Cities Special Interest Group”



Belfast	London
Birmingham	Manchester
Brighton & Hove	Milton Keynes
Bristol	Newcastle
Cambridge	Nottingham
Camden	Peterborough
Cardiff	Plymouth
Coventry	Salford
Derby	Sheffield
Dundee	Southampton
Enfield	Southend-On-Sea
Glasgow	Stoke-On-Trent
Ipswich	Swindon
Leeds & Bradford	Warrington
Leicester	



# Glasgow

Health

Energy

Transport

Public safety

# Bristol, London Peterborough

Bristol City Council  
November 2012



Connect Bristol Feasibility Study



ARUP

Future Cities Demonstrator Feasibility Study  
Peterborough DN

Final Report  
Peterborough City Council  
TSB Ref No: 03443-162343  
14/11/2012  
Our Ref: FCD/DNA/Final  
Author: Charlotte Palmer



LINKED LONDON  
TSB Future Cities Demonstrator  
Feasibility Report

# £3m

MAYOR OF LONDON

communities

quality people

sustainable

business environment economy

reduce

citizens

living

A close-up, profile view of a construction worker wearing a white hard hat and an orange safety vest. The worker is looking intently at a large, dark pipe or piece of machinery. In the background, a blurred construction site is visible under a clear blue sky. The text is overlaid in a bold, yellow font.

**2,500 priority  
families consume  
40% of Nottingham's  
resources**



**30% of  
Birmingham's traffic  
is NHS related**



**Ipswich spends  
2/3 of its budget  
on social care**



**Stoke-On-Trent aims  
to become energy  
self-sufficient**

**100,000 people visit  
Cardiff when its venues  
hold major events**



A close-up photograph of a hand holding an HTC smartphone. The phone's screen displays a music player interface. At the top, the time is 10:02 AM. The main display features album art for 'Inception Soundtrack HD' with a large '1002' graphic. Below the album art is a music player control bar with play/pause, previous, and next buttons. At the bottom of the screen, there are icons for 'Messages' and 'Internet'. The phone is held in a way that shows the side buttons and the top edge with the HTC logo.

**Hubs**  
**Portals**  
**Cubes**  
**Stores**  
**Observatory's**



**£5m**

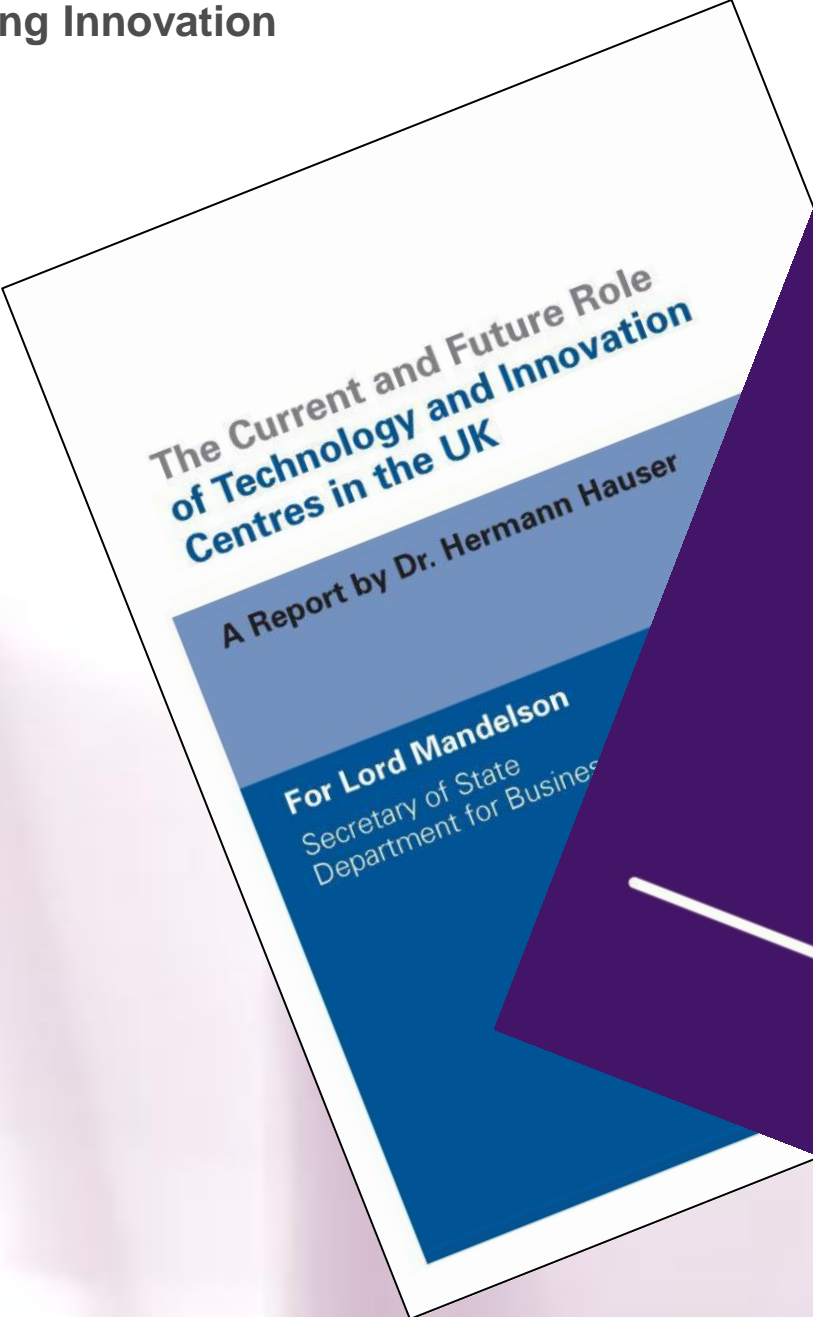
# Future Cities SBRI Timeline

<b>Comp announced</b>	<b>10 June</b>
<b>Open day</b>	<b>3 July</b>
<b>Feasibility stage</b>	
<b>awards of £100k</b>	
<b>opens</b>	<b>1 July</b>
<b>closes</b>	<b>13 Aug</b>
<b>Test &amp; deploy</b>	
<b>awards of £1m</b>	
<b>opens</b>	<b>~Feb '14</b>



# Technology Strategy Board

Driving Innovation



## The Toolset

Range of tools with different objectives / characteristics

**Smart**

**SBRI** Government challenges.  
Ideas from business.  
Innovative solutions.

**Collaborative R&D**

**\_connect**

Knowledge  
Transfer  
Partnerships



**eurostars™**

Knowledge  
Transfer  
Networks

**CLEAN AND COOL**  
MISSION 2012  
24 - 31 March

**CATAPULT**

**Launchpad**

## What is a Catapult centre?

Business-focused technology and innovation centre that makes world-leading technical capability available to businesses to solve their technical challenges

### Provides

- Access to world-leading technology & expertise
- Reach into the knowledge base for world-class science
- Capability to undertake collaborative R&D projects with business
- Capability to undertake contract research for business
- Strongly business-focused with a professional delivery ethos
- Create a critical mass of activity
- Skills development at all levels

**Technology Strategy Board**

Driving Innovation

**CATAPULT**

**Future Cities**





**Outline business plan**  
**Funding secured**

***CEO & team***

***Location***

***Capabilities***

# Future Cities

An aerial photograph of a city skyline, likely London, featuring several prominent skyscrapers. The most notable is the Gherkin (30 St Mary Axe) with its distinctive rounded, glass-clad top. To its right, a tall building is under construction, showing its steel framework and multiple levels of orange safety netting. Other buildings include a dark, cylindrical tower on the left and a building with a white, arched facade in the center. The sky is blue with light clouds, and the overall scene conveys a sense of urban development and modern architecture.

- Lab
- Open Platform
- Finance

SPACECRAFT	DATE	LAUNCHER
MARECS B2	10 11 84	ARIANE
GIOTTO	2 7 85	ARIANE
ECS 4	10 5 86	ARIANE
MET P2	10 6 87	ARIANE
ECS 5	10 5 88	ARIANE
MOP 1	31 7 88	ARIANE
GLYPHUS	8 3 88	ARIANE
HIPPARCOS	12 7 88	ARIANE
ULYSSES	8 8 88	ARIANE
ITALBAT F1	6 10 90	SHUTTLE
	15 1 91	ARIANE

SPACECRAFT	DATE	LAUNCHER
NOF 2	2 3 91	ARIANE
ERS 2	2 3 91	ARIANE
EURECA 1-L	12 7 91	ARIANE
EURECA 1-B	21 7 91	ARIANE
NOF 3	13 7 91	ARIANE
ERS 3	13 7 91	ARIANE
1-LD 2	20 11 91	SHUTTLE
ITALBAT F2	17 11 91	ARIANE
MTP	1 8 91	ARIANE
HUYGENS	18 10 97	ARIANE 5



# Observed



# Predicted

# Enabled









Twenty Pounds

Twenty Pounds

THE GOVERNOR AND COMPANY OF THE BANK OF ENGLAND  
LONDON  
Andrew Bailey  
CHIEF CASHIER  
I PROMISE TO PAY THE BEARER ON DEMAND THE SUM OF TWENTY POUNDS

Twenty Pounds

Bank of England

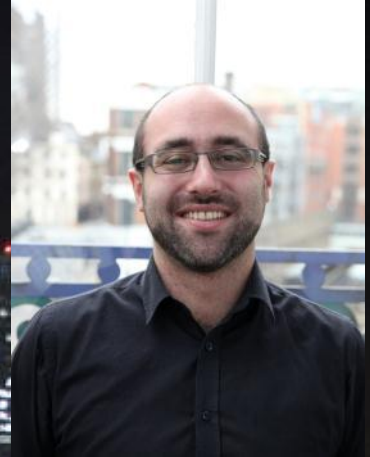
Twenty Pounds

Twenty Pounds

Twenty Pounds



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# Thank you



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