



Digital Innovation, Data and Economic Development in London UK

Economic Development Committee
City of Toronto
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UNIVERSITY OF
TORONTO

WHAT DOES DIGITAL INNOVATION MEAN FOR CITY DECISION-MAKERS?

Opportunities for

- Economic development and growth
- Citizen Engagement
- More efficient service delivery

But context of:

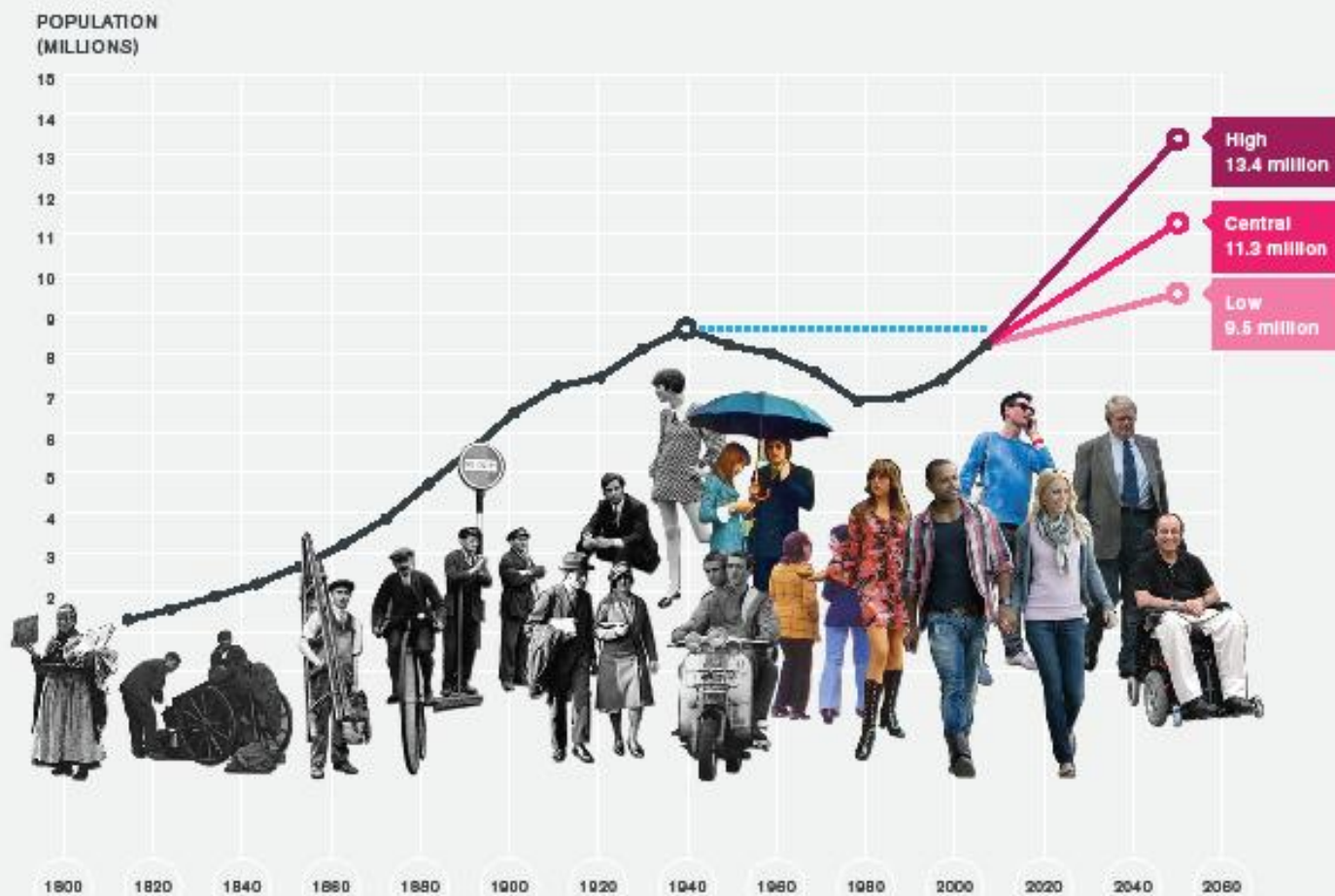
- Shrinking budgets
- Capacity issues: strategic, technical and political
- Informational asymmetry

LONDON GOVERNANCE

- Greater London Authority is an upper-tier strategic body with an executive Mayor, who has a statutory duty to promote economic development in London
- London's boroughs are the primary providers of local services; Central Government controls public spending in London and provides a strong legislative and regulatory framework
- London Enterprise Panel: chaired by the Mayor, includes businesses and boroughs; advisory body on jobs, skills and regeneration

We estimate that London's population became bigger than ever in February 2015.

We reached a population of 8.6 million people, the same as the last peak in 1939.



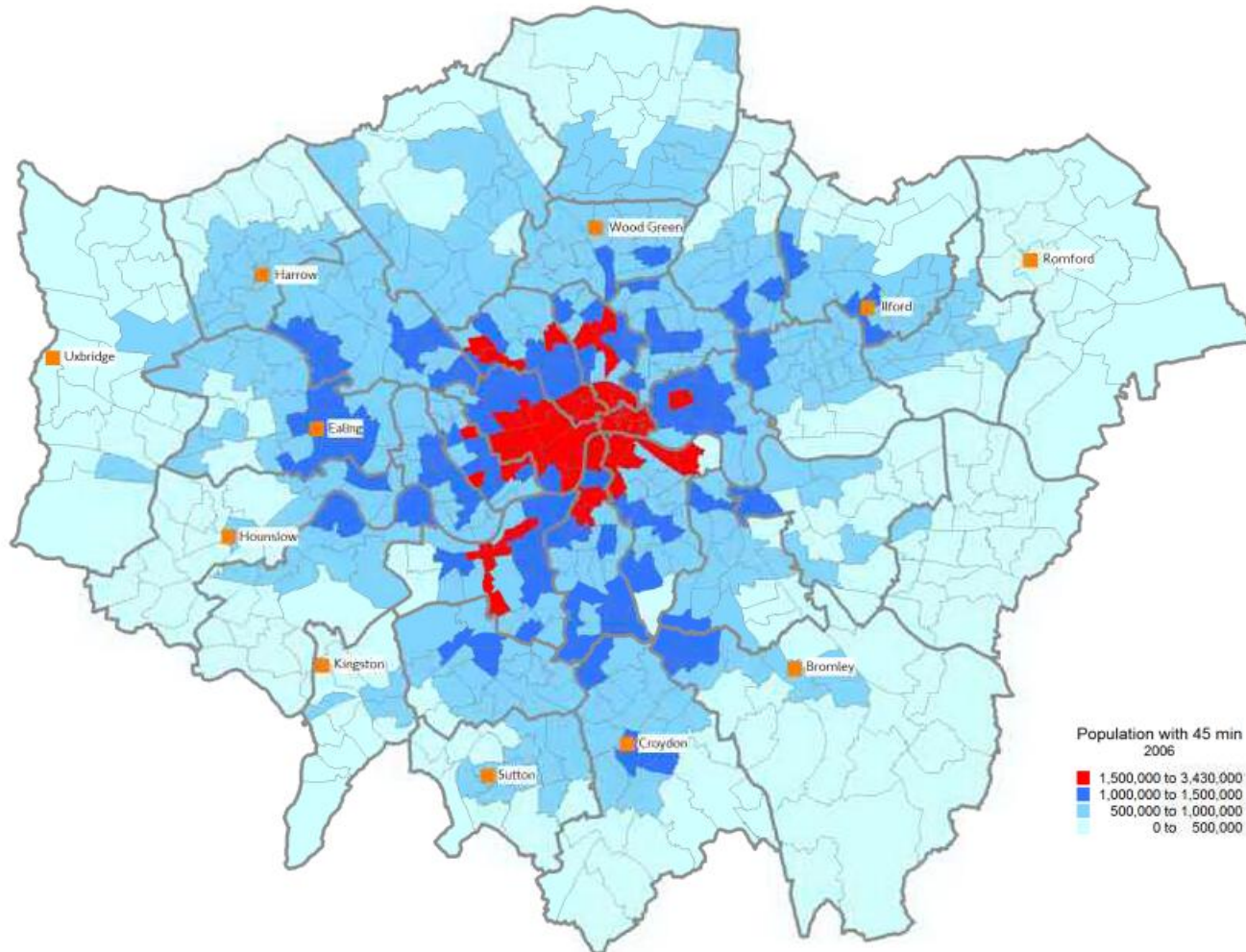
Projections show growth to 11.3 million inhabitants by 2050

An overall increase of 37% from 2011 to 2050

Source: GLA Intelligence Unit

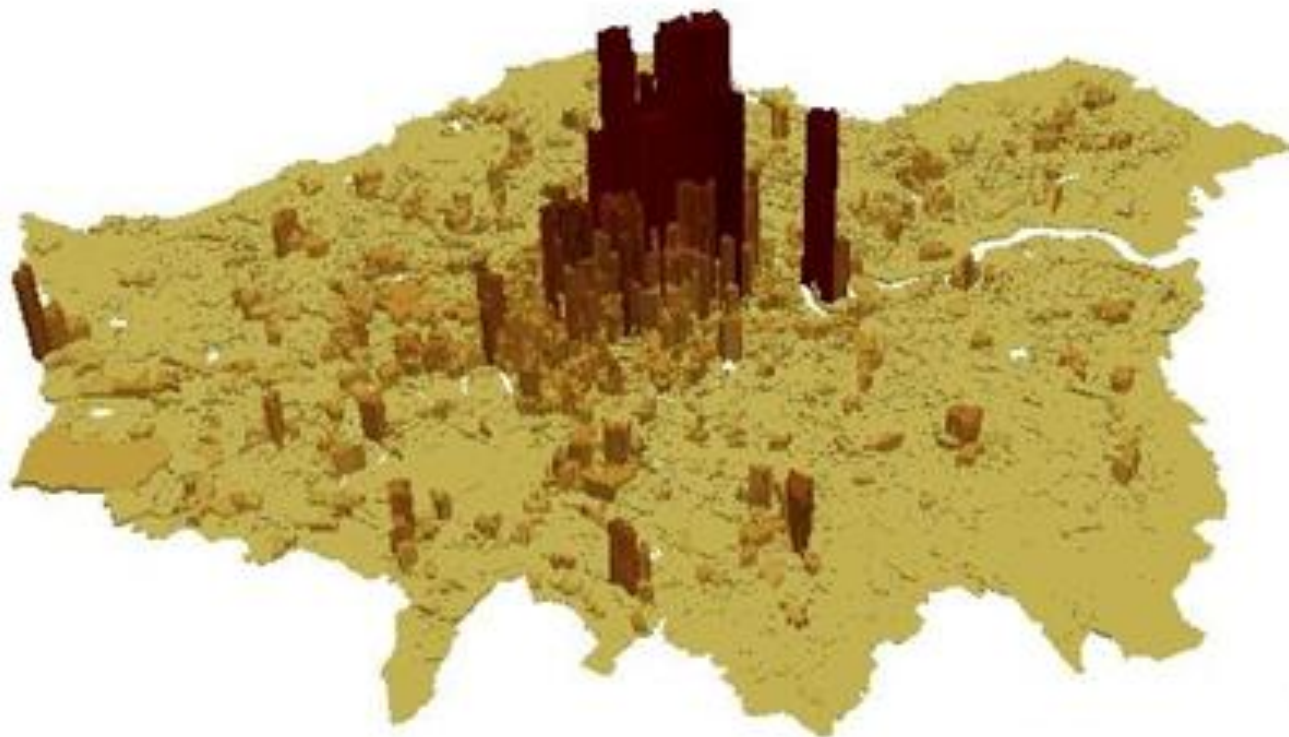
Firms can access a large volume of people who themselves are attracted to live and work in London.

Number of residents accessible by public transport in 45 minutes



So there is a concentration of employment in London,
particularly central London.

Number of people in employment per sq km, all sectors



Source: ONS (BRES) 2011

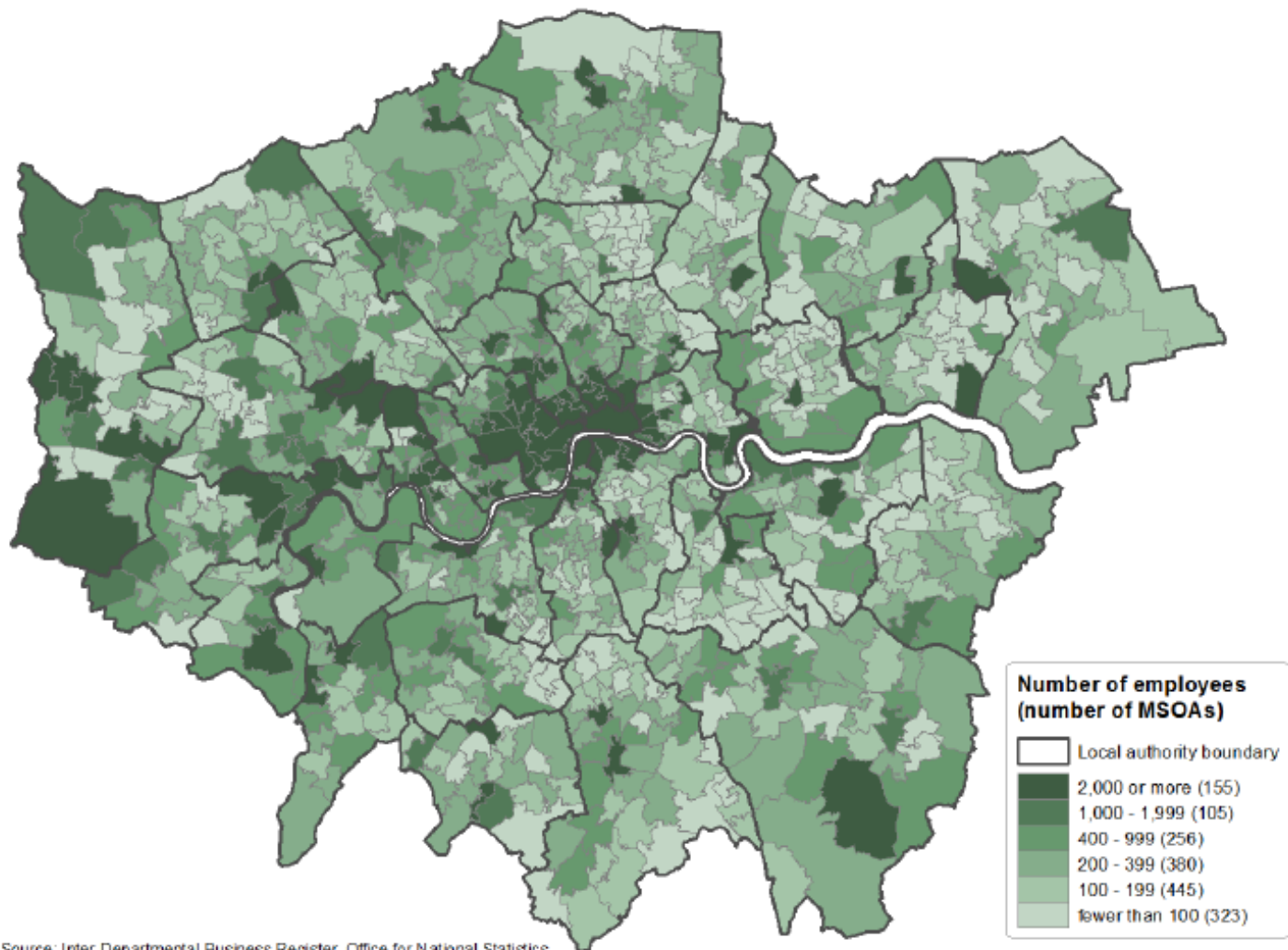
ECONOMIC DIVERSIFICATION

- Better use of London's science and technology base to generate economic activity and jobs
- Working with universities on key regeneration opportunities – Imperial West; UCL at Stratford; Kings College at Canada Water
- Government investment at Kings Cross: Francis Crick Institute, Alan Turing Centre for Data Science

SCIENCE AND TECH JOBS

- Jobs in this sector have risen 15% in last 10 years, remaining steady as proportion of all jobs in London (21%)
- Largest sub-categories are publishing and broadcasting; digital tech is the fastest-growing (increased by 29%)

Map 2: Employee jobs in the STC in London, 2013

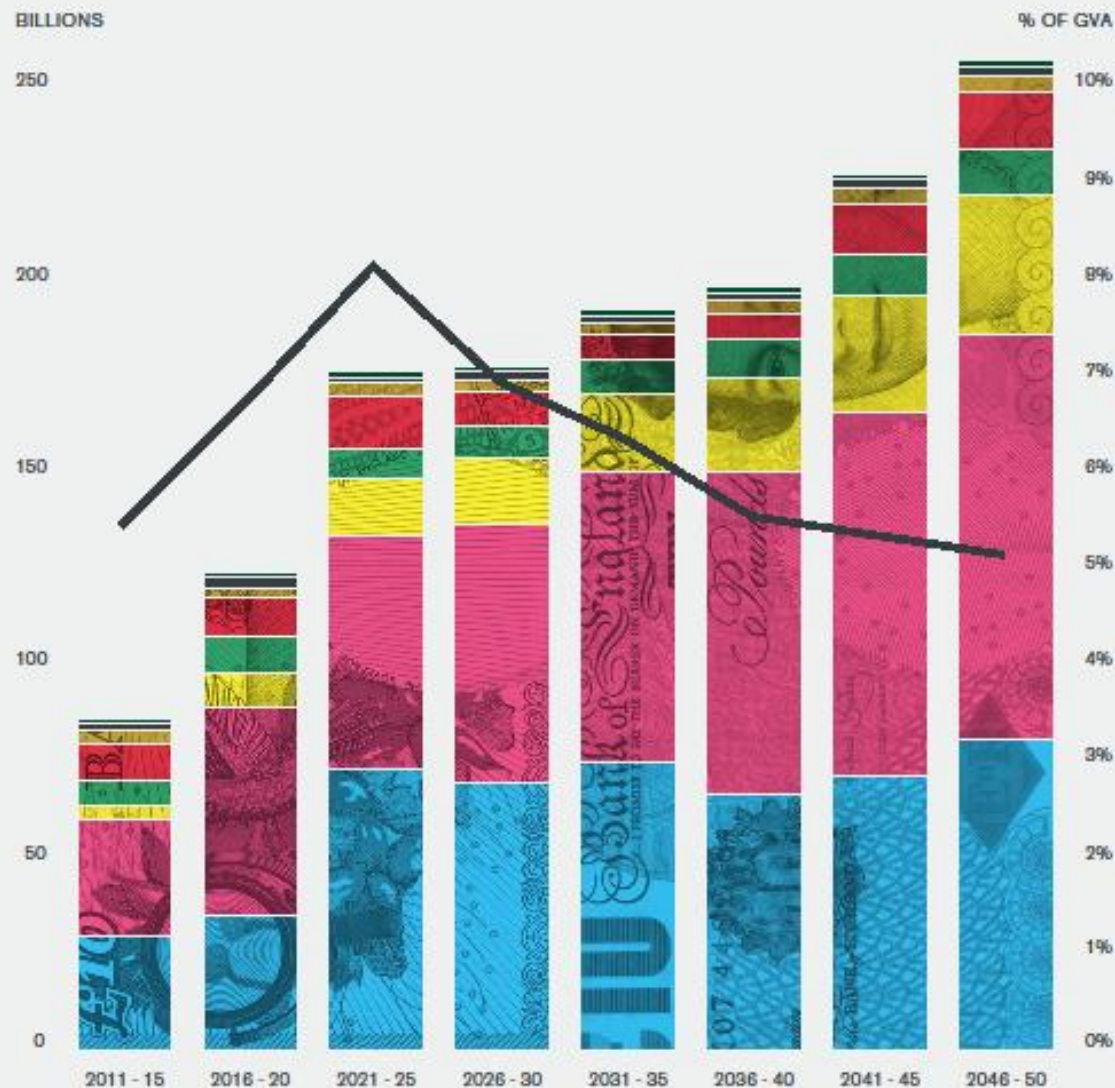


Source: Inter-Departmental Business Register, Office for National Statistics
Contains National Statistics data © Crown copyright and database right 2014
Contains Ordnance Survey data © Crown copyright and database right 2014

LONDON INFRASTRUCTURE PLAN 2050

IMPROVING QUALITY OF LIFE AS LONDON GROWS





Cost estimates

Our best cost estimates to meet all our infrastructure needs would almost double expenditure as a proportion of the economy. Housing and transport make up three quarters of the total costs. Hence the need to prioritise and otherwise reduce costs and increase funding sources (see section 5).

OVERALL CAPITAL EXPENDITURE

Population 2050 of 11.3 million, construction cost inflation of 2% per annum above RPI, policy aspirations are achieved



Source: Arup

Digital connectivity

As proposed in the consultation, the Mayor has set up a Connectivity Advisory Group (CAG) to take practical steps to ensure everyone in London has access to affordable high-speed connectivity.

With the CAG, the Mayor has developed a comprehensive work programme including:

- o Establishing a Building Connectivity Rating Scheme
- o Identifying locations on GLA group property for wireless infrastructure
- o Providing a connectivity toolkit for London boroughs including a connectivity map using Ofcom postcode data
- o Writing a best practice guide for boroughs and providers
- o Demand stimulation for superfast services, including a digital skills programme and digital inclusion strategy
- o Continuing rollout of vouchers to subsidise connectivity for SMEs.

This work plan will give London the tools it needs to tackle the areas with low levels of coverage, and allow the Mayor to set further ambitious targets by this summer to bring the vast majority of businesses and residents in London the connectivity they need, wherever they are located, as soon as they need it, at competitive prices.



% OF PEOPLE WHO SAY IT'S 'CRITICAL' OR 'IMPORTANT' TO BE ABLE TO CONNECT TO THE INTERNET WHEN OUTSIDE THE HOME OR OFFICE



Source: Wireless Nation, Arqiva

SMART CITIES

- Proposition is new and cheaper solutions to urban issues through a cross-cutting, integrative, 'system of systems' approach
- Harnessing the power of data and technology and supporting city leadership and capacity

BUT

- Often the problem and the solution defined by the suppliers
- Cities need to be intelligent clients
- Bespoke solutions, related to specific needs and issues; not 'cookier-cutter' templates

SMART LONDON DEFINITION



Using the creative power of new technologies to serve London and improve Londoner's lives

LONDON

LEADER IN DIGITAL TECHNOLOGY

28,000
TECHNOLOGY
FIRMS



48
TECHNOLOGY
BUSINESSES
PER KM²

INNER LONDON
HAS THE HIGHEST
DENSITY OF
TECHNOLOGY
BUSINESSES
IN EUROPE



LONDON HAS
25%
OF ALL THE
TECHNOLOGY JOBS
IN BRITAIN

63%
LONDON ADULTS
OWN A SMARTPHONE



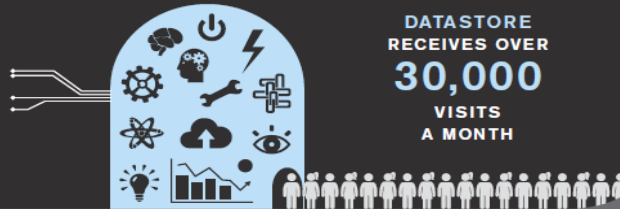
LONDON
HAS MORE
TOP RANKING
UNIVERSITIES
THAN ANYWHERE
IN THE WORLD



91%
USE THE INTERNET AT
LEAST ONCE A WEEK



OVER
450
TRANSPORT APPS
HAVE ALREADY
BEEN CREATED
USING OPEN DATA



DATASTORE
RECEIVES OVER
30,000
VISITS
A MONTH



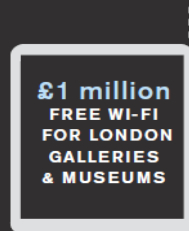
THE NEW DIGITAL HUB DUE TO OPEN IN
2015 ON THE OLYMPIC SITE WILL

CREATE
7,500
JOBS

£460 million
IN GDP TO THE
UK ECONOMY



WI-FI
AT 150
TUBE
STATIONS
BY 2014



£1 million
FREE WI-FI
FOR LONDON
GALLERIES
& MUSEUMS



£24 million
IN AFFORDABLE
FIBRE BROADBAND
FOR SMES



MAYOR OF
LONDON HAS
CREATED A
£22 million
FUND FOR
TECHNOLOGY
GROWTH
COMPANIES

SEVEN KEY THEMES

1. Londoners at the core
2. Access to open data and infrastructure
3. Leveraging London's research technology and creative talent
4. Brought together through networks
5. Enable London to adapt and grow
6. City Hall better serving Londoner's needs
7. Offering a 'smarter' London experience for all



LONDONERS AT THE CORE



We will:

- Ask Londoners what 'Smart London' should look like?;
- A vehicle for inclusion;
- Narrow skills gap – for everyone;

Measures of success:

- Engage digital Londoners in policy making;
- Host hackathons to solve growth challenges;
- Deliver pan-London inclusion strategy;
- Double number of technology apprenticeships;
- 1,000's per borough engaged digital research platform.

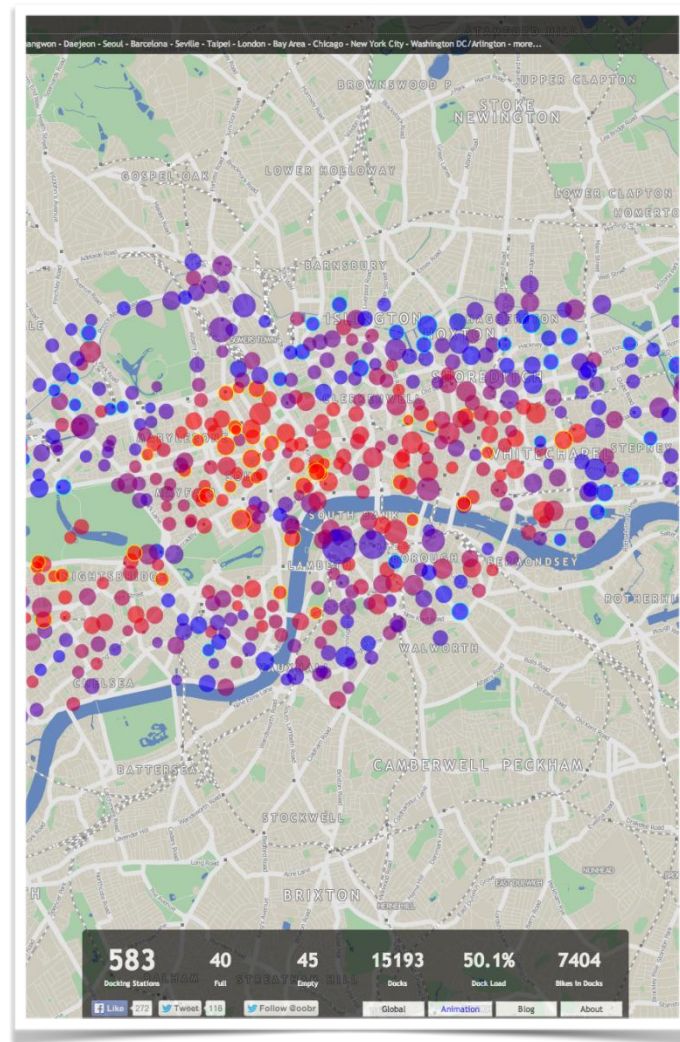
OPEN DATA & INFRASTRUCTURE

We will:

- Identify and prioritise data release;
- Work with partners to create common standards;
- Create next generation London Datastore;
- Establish Smart London borough partnership;
- Better inform Londoners through the dashboard.

Measures of success:

- Evidenced based stories of compelling data use;
- Increase number of Londoners using Digital technology to access city information;
- Incorporate 'Data as a Utility' into 2050 London Infrastructure Plan;
- Evolve & converge data with sensor infrastructure;
- Double users of dashboard and Datastore.



CONCLUSIONS

- Innovation, 'smart' use of technologies and digital engagement essential to achieving economic growth while maintaining quality of life and accountability
- Many cities across UK, Europe, globally, have shared interests

THANK YOU