

SMART Borough Partnership

Second Generation London Datastore and the GLA commitment to Providing, Promoting and Using Open Data



THE JOURNEY TO A **SMARTER LONDON**

LDS I

1) Simple website

LDS II

CKAN data store

THE JOURNEY TO A **SMARTER LONDON**

1) Simple website

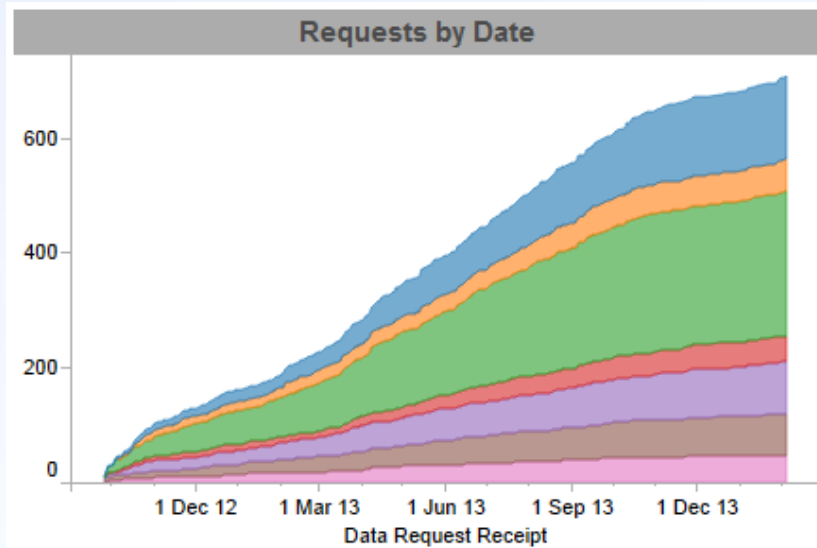
CKAN data store

2) Broaden the partnership of publishers

3) Increase the range of data sets

4) Make the data more accessible

1) Update the system behind LDS



- Academic / Research
- Large Company (250+)
- Private Individual
- Public Sector
- Small / Medium Business
- Startup
- Voluntary / Non-profit

Requests Total

708 *

* Number of data requests since Sep 2012

[See progress](#)

[Request new data](#)

- Better tools for users
- Increased interactivity with users
- Allow organisations (or GLA teams) to upload & manage their own data
- Better tools for catalogue managers
- Allows LDS participate in a network of data stores

1) Update the system behind LDS

Easy to use
Search



Download
different
formats



Refine your
results as
you go



GREATERLONDONAUTHORITY MAYOR OF LONDON LONDONASS

LONDON.GOV.UK

LONDON DATASTORE News Datasets Publishers Topics Login/Register

Home > DataStore > This Page

Search datasets...

545 datasets found Order by: Name Ascending

2001-2011 Household Estimates Backseries
*Updated October 2013 The GLA has estimated a household backseries for all London boroughs from 2001 to 2011 using the revised mid-year population estimates backseries...
[HTML](#) [XLS](#)

2010 round SHLAA based household projections
2010 round population and household projections for London Boroughs using the SHLAA housing data and 2008 CLG household projections. Single year of age borough projections...
[XLS](#) [CSV](#)

2010-2013 GLA budget detail
2010-2013 GLA budget breakdown by directorate
[XLS](#) [CSV](#)

2011 Census First Release Data
This package comprises the first release of 2011 Census data. The data includes a population estimate for males and females by 5-year age bands for each local authority in...
[HTML](#)

2011 Census Geography Boundary Files
The 2011 Census output area boundaries were released by ONS on 30 October 2012. The ONS release constituted a single dataset covering the entirety of England and Wales....

Publishers

- Greater London Auth... (167)
- Office for National... (107)
- London Borough of R... (39)
- Transport for Londo... (34)
- Department for Comm... (28)
- Department for Educ... (26)
- Department of Health (14)
- Department for Work... (12)
- London Fire and Eme... (10)
- Department for Tran... (7)

Show More Publishers

Topics

- Demographics (136)
- Employment and Skills (66)
- Transport (58)
- Health (57)
- Environment (56)
- Transparency (55)
- Housing (46)
- Education (39)
- Crime and Community... (37)

1) Update the system behind LDS

The screenshot shows the Greater London Authority (GLA) DataStore interface. The header includes 'GREATER LONDON AUTHORITY', 'MAYOR OF LONDON', and 'LONDON ASSEMBLY'. The main navigation bar features 'LONDON.GOV.UK', 'LONDON DATASTORE', 'News', 'Datasets', 'Publishers', 'Topics', and 'Login/Register'. A breadcrumb trail reads 'Home > DataStore > This Page'. Below the navigation, there are tabs for 'Dataset', 'Topics', 'Activity Stream', and 'Related'. The main content area is titled '2010 round SHLAA based household projections' and includes a description: '2010 round population and household projections for London Boroughs using the SHLAA housing data and 2008 CLG household projections.' It also provides links for 'Single year of age borough projections' and 'ward projections in five year age groups'. A section titled 'Data and Resources' lists two files: '2010rnd_shlaa_hh_projections.xls' and '2010rnd_shlaa_hh_projections.csv', each with an 'Explore' button. A filter bar at the bottom of the resources section contains tabs for 'estimates', 'forecast', 'households', 'population', and 'projections'. An 'Additional Info' table is also present. On the right side, there is a publisher profile for 'Greater London Authority (GLA)' with a building icon, social media links for Google+, Twitter, and Facebook, and a 'Recent Posts' section.

GREATER LONDON AUTHORITY MAYOR OF LONDON LONDON ASSEMBLY

LONDON.GOV.UK

LONDON DATASTORE News Datasets Publishers Topics Login/Register

Home > DataStore > This Page

Dataset Topics Activity Stream Related

2010 round SHLAA based household projections

2010 round population and household projections for London Boroughs using the SHLAA housing data and 2008 CLG household projections.

Single year of age borough projections are available [here](#) and ward projections in five year age groups [here](#).

For further information on this set of projections, please see the Intelligence Unit Update.

For links to the GLA's full range of demographic projections click [here](#)

Data and Resources

2010rnd_shlaa_hh_projections.xls [Explore](#)

2010rnd_shlaa_hh_projections.csv [Explore](#)

estimates forecast households population projections

Additional Info

Field	Value
Update frequency	Ad hoc
Smallest geography	Greater London

2010 round SHLAA based household projections

Followers **0**

Publisher

Greater London Authority (GLA)

Social

Google+

Twitter

Facebook

Recent Posts

A better way to measure household income in London

How do perceptions of society compare between London and Europe?

Download
different
formats

or
preview the
data

1) Update the system behind LDS



1) Update the system behind LDS

GREATER LONDON AUTHORITY MAYOR OF LONDON LONDON ASSEMBLY

LONDON.GOV.UK

LONDON DATASTORE News Datasets Publishers Topics Login/Register

Home > Data Store > This Page

gla-allotment-locations.csv

Download

URL: <http://data.london.gov.uk/datafiles/environment/gla-allotment-locations.csv>

From the dataset abstract

Indicative locations of all known allotments in London, as gathered during the London Assembly Scrutiny investigation in 2006. This dataset was created by the GLA's GIS team on behalf...

Source: [Allotment Locations](#)

Grid Graph Map 741 records 0 100

Search data ... Go Filters

Latitude / Longitude fields
GeoJSON field

Latitude field
Longitude field

Update
☒ Auto zoom to features
☒ Cluster markers

GLA_ID: 136
Borough_Ref: 0
Name: Chelsfield
Location: South of Bucks Cross Road
SuppliedPostcode: BR6 7
NearestPostcode: BR6 7RJ
Borough: Bromley
Organisation:
Facilities:
Grade:
Comments:
Easting: 548453
Northing: 164119
Latitude: 0.13071
Longitude: 51.356693

Additional Information

Field	Value
Last updated	July 1, 2014

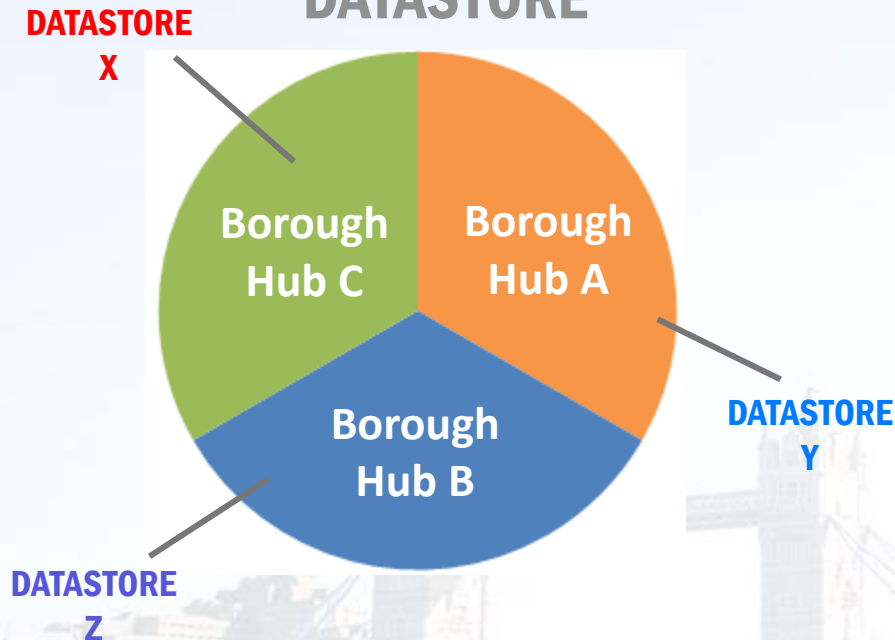
Resources

gla-allotment-locations-s...
Unnamed resource
gla-allotment-locations-t...

preview on
a map

2) Broaden the partnership of publishers

LONDON DATASTORE



Option 1 – Where Boroughs have their own data store, use data harvesters to automatically gather data

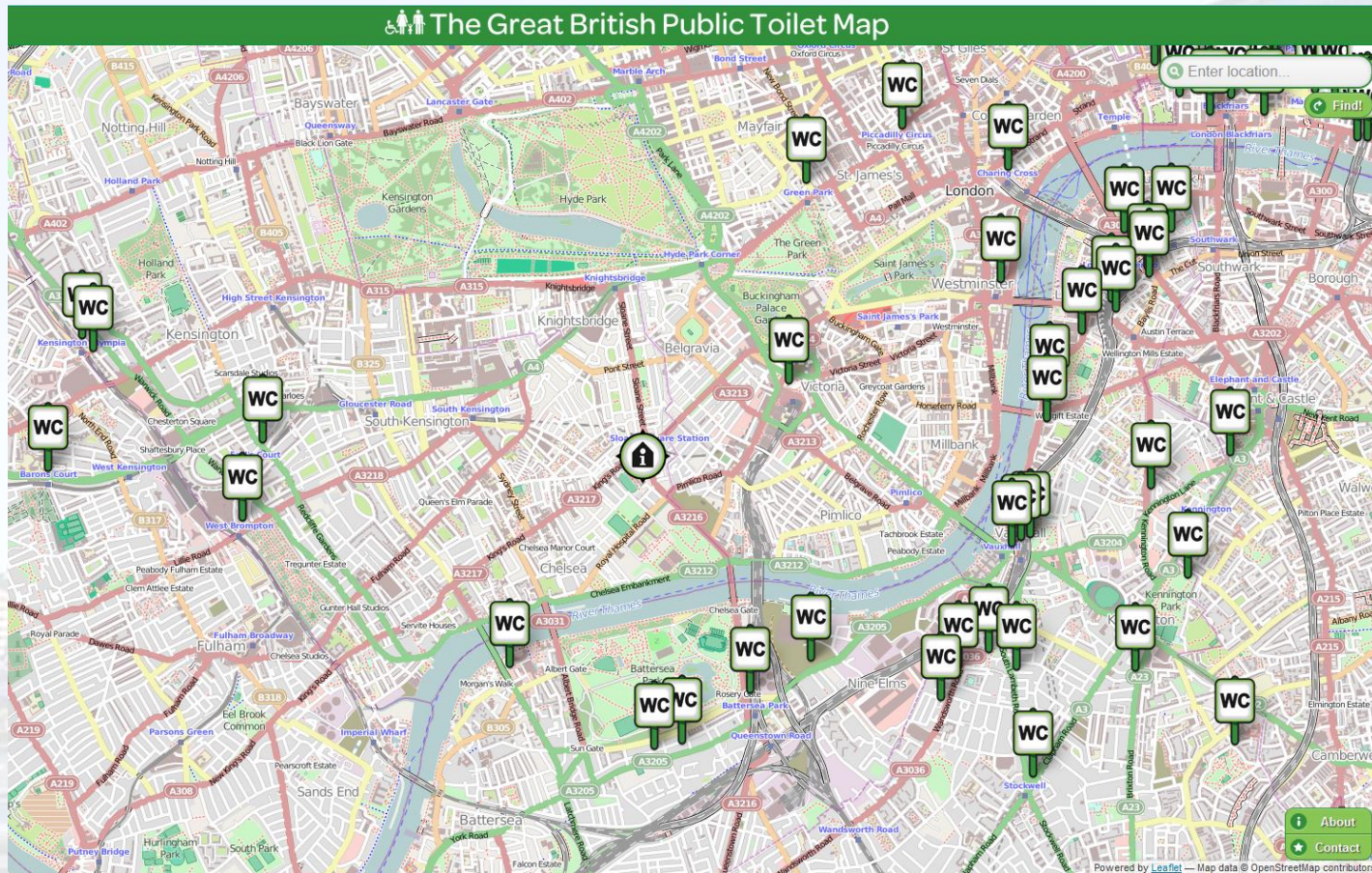
Option 2 – Boroughs can have their own area on LDS.

- Landing page with logo etc
- Account(s) so that staff can upload and manage their own data (secure from other partners)

Smart London Borough Partnership

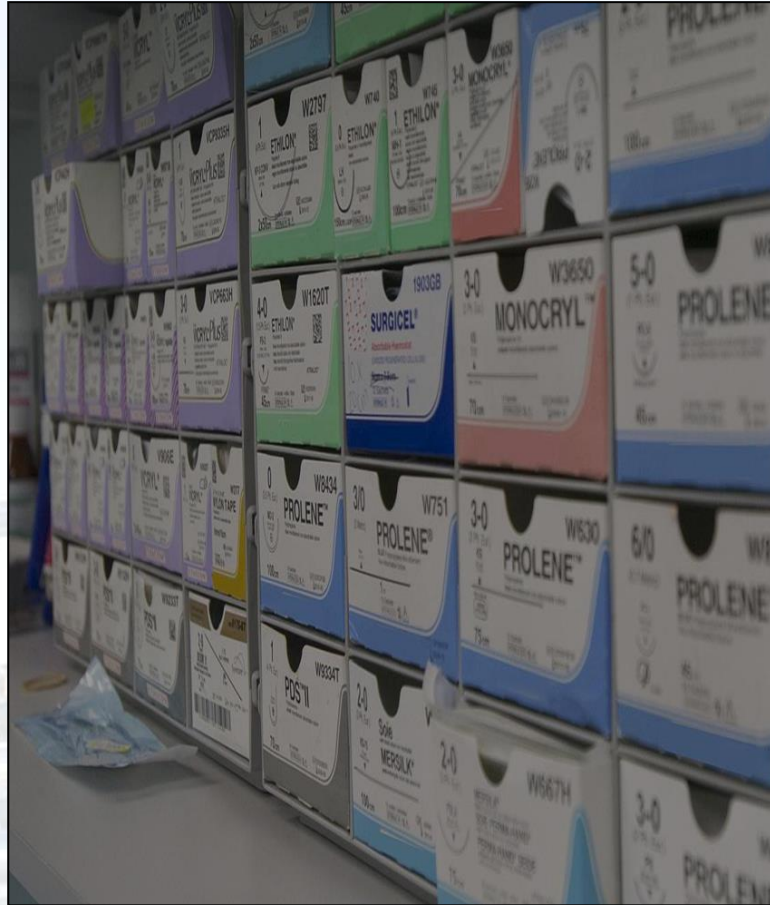
3) Increase the range of data sets

Example: Combine Borough data sets



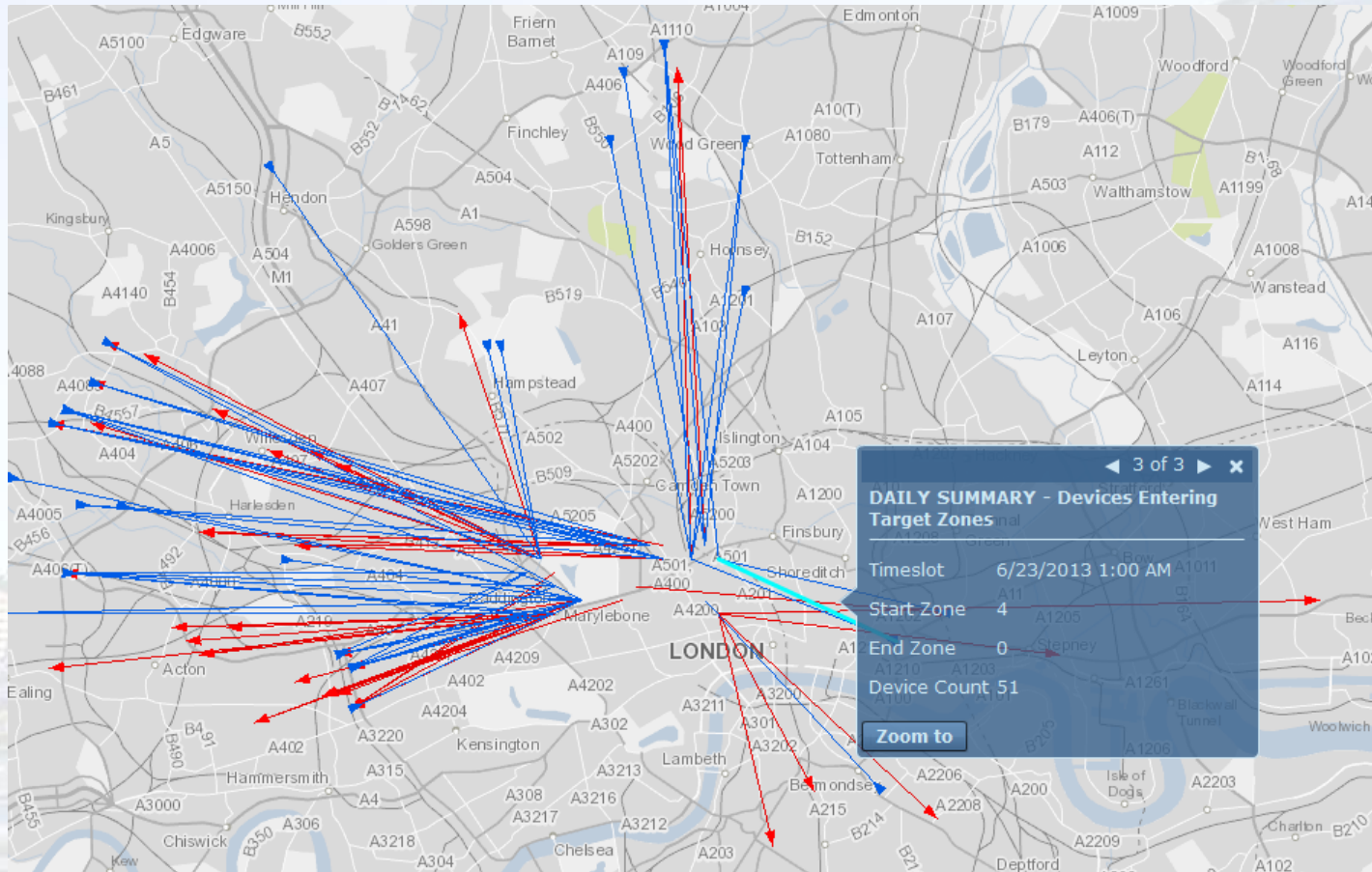
3) Increase the range of data sets

Example: CCG / GP data used to inform population projections as well as health policy



3) Increase the range of data sets

Anonymised mobile phone signal data, aggregated to inform transport planning



4) Make the data more accessible

- Better search tools for users
 - Fuzzy search
 - 'other datasets you might be interested in'
 - Geographic search
 - More complete metadata
- Data in 'machine-readable' form (clean csv files)
- APIs (tools for web and app developers)

5) Leading for London



- GLA Open Data Charter sets out our commitment to provide, promote and use Open Data for the benefit of Londoners.
- It will launch alongside LDSII in September and includes a number of commitments on behalf of the GLA with regard to the provision, promotion and use of Open Data.
- It also sets out a number of metrics we will use to measure our progress and a further commitment to keep the charter up to date to reflect the latest developments in the Open Data Agenda.

London's school-age population expected to jump 100,000 by 2017

Some parts of London will see rise of more than 50% in number of children aged 4-10, say officials

Richard Adams, education editor

Follow @RichardA Follow @guardian

theguardian.com, Thursday 7 November 2013 10:00 GMT

www.london.gov.uk/london-schools-atlas



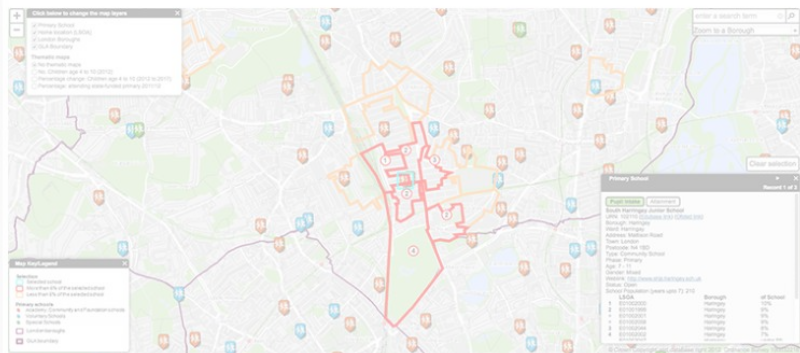
All Discussions My Discussions



New London Schools Atlas Seeks to Raise Transparency in Capital's Education

Posted by Hugh on November 7, 2013 at 10:41 in Council Services, Policy & Local Democracy

View Discussions



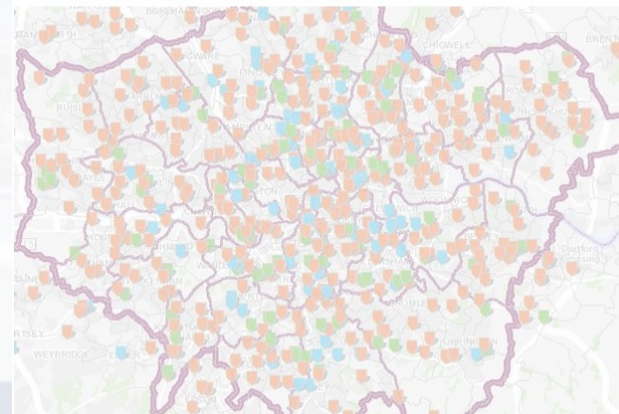
London School Atlas aims to

London Evening Standard

— a flexible business spa

VOTING BEGINS IN CRIMEA REFERENDUM

Online catchment area map reveals your child's chance of a school place



INSIGHT REQUIREMENTS

THE LDS II TEAM WANTS TO:



Understand what problems or challenges Londoners would most like us to solve, or improve about their local area or London as a whole.

Build a consensus about which challenges are most important.

Demonstrate the convening powers of the GLA to solve issues.

PUBLIC ENGAGEMENT OBJECTIVES



RAISE AWARENESS

Collate Evidence
as to the top
issues and areas
of concern for
Londoners



GAIN INSIGHT

Prioritisation
Consultation on
the long list of
challenges



ENGAGE & INVOLVE

**Understand
Extent & Impact**
Consultation on a
series of proposed
challenges that
we seek to
address

Engagement
Potential to
engage on the
proposed
solutions (gain a
public mandate
for our actions;
assess
effectiveness;
contribute
additional ideas



GREATER
LONDON
AUTHORITY



CROYDON



Anatomy of the city data ecosystem

Dr Peter J Reynolds, Executive Director
Innovation and the Cities Lab
@CitiesPete



Agenda / Purpose

- Moving from Value Chains to Ecosystems
- Options for the Next Gen Enterprise
 - Case study: New York City's Digital Journey
- GLA as an Open Ecosystem Driver
- Provocative propositions about the next gen enterprise

The power of ecosystems—becoming more digital

21

- A coordinated network of enterprises, devices and consumers that create value
- open software interfaces and modular capabilities
- information content accounts for a rising proportion of the entire value of any product or service.
- Has drivers and participants



Moving from value chains to ecosystems

Value Chains

Ecosystems

**Business
relationship**

Episodic transaction based

Continuous collaborative
engagement

Value provided

Products or services
provided by a company

Enhancing customer experience
via a digital fabric of partners

**Innovation and
adaptation**

From a few players

To many players

Contracts

Long term efficiency

As needed flexibility aligning
incentives of partners ('I agree')

Capabilities

Manage end to end
value chain

Ecosystem driver or plug and
play participant

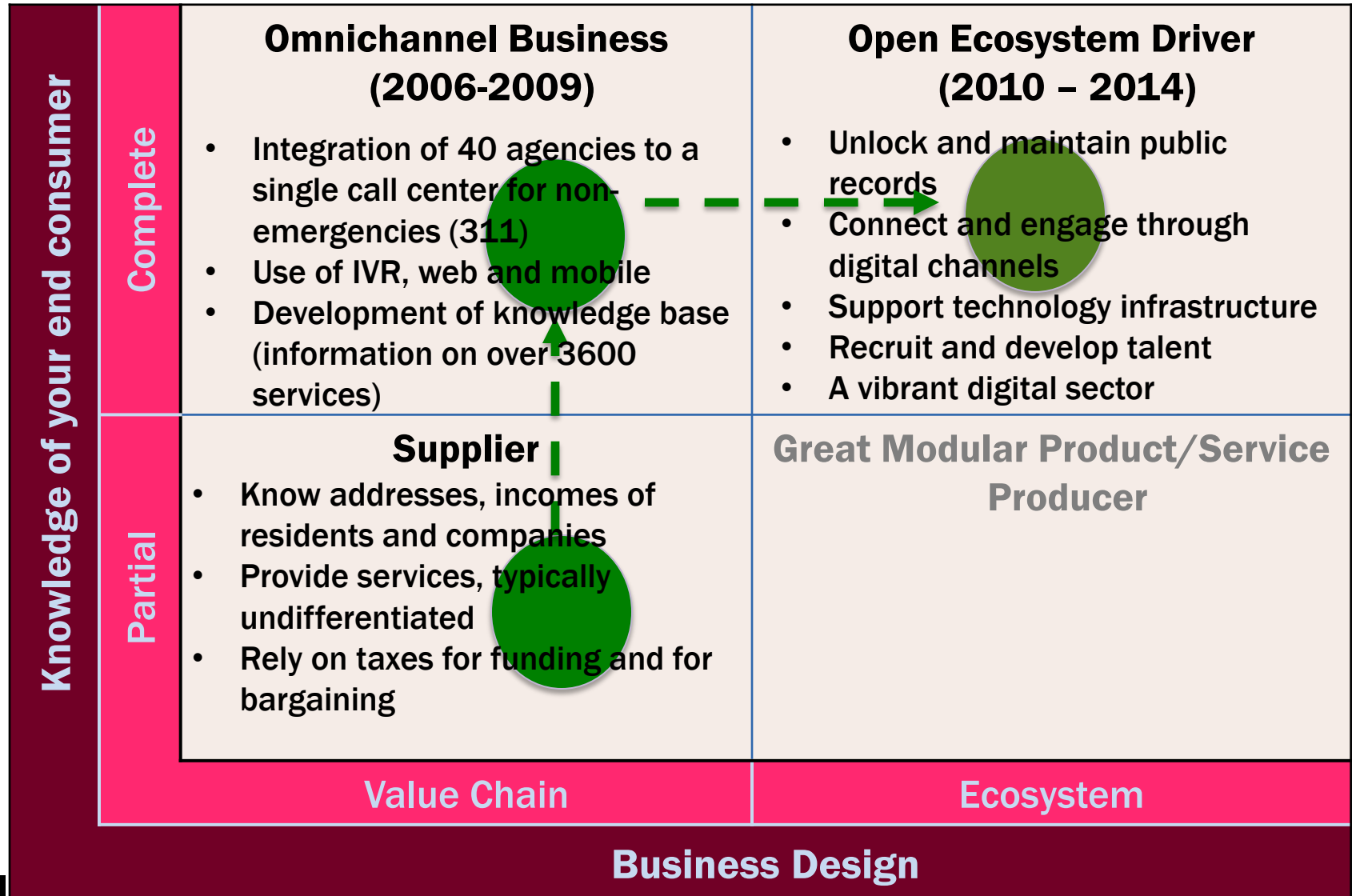
Options for the next gen enterprise

Know: name or IP address, purchase history
with you & other firms & goals

Knowledge of your end consumer	Complete	Omnichannel Business ▪ ‘Own’ customer relationship ▪ Multi product customer experience ▪ Integrated value chain <i>USAA, CBA, Woolworths, Sears, Origin Energy</i>	Open Ecosystem Driver ▪ Provide open platform based on current reach or brand ▪ Ensure great customer experience ▪ Plug and play third party products ▪ Customer knowledge, match customer needs with providers ▪ Extract ‘rents’ <i>Amazon</i>
	Partial	Supplier ▪ Potential for loss of power ▪ Core skills: low cost producer, incremental innovation <i>Insurance via agent, Electronic producer via retailer, Mutual fund via broker</i>	Great Modular Product/Service Producer ▪ Plug and play product/service ▪ Able to adapt to any ecosystem ▪ Constant innovation of product/service <i>PayPal</i>
		Value Chain	Ecosystem
Business Design			

Who controls key decisions: brand, contracts, price, quality, participants, IP & data ownership, regulation

New York City's digital journey



NYC: Five priorities to being a city ecosystem driver

- **Technology-Fueled Economic Growth (32% increase in VC deals)**
- **NYC tech talent draft for start-ups**
- **NYC next idea - Global business plan competition**
- **NYC venture fellows – selects 20-30 ‘rising stars’**
- **NYCEDC incubator network**

INDUSTRY
A vibrant digital sector

ENGAGEMENT
A user-centric experience

- **280 Social media channels**
- **2750 updates monthly**
- **19 Smartphone apps**
- **nyc.gov web site**
- **2,000 photos submitted to the City's first Facebook photo contest**

EDUCATION
Investing in the future

- **Engineering school initiative**
- **Innovation Zone (iZone)**
- **Mouse - innovative youth development**

ACCESS
Internet connectivity for all

- **Fiber optic internet service to 100% of homes by end 2014 (currently 79%)**
- **Unlimited public Wi-Fi in parks**
- **Cell service in subways**
- **Free Community Technology Centers**

OPEN GOVERNMENT
Innovation and transparency

- **900 data sets available**
- **15 Hackathons (200 participants)**
- **311 APIs published (1759 services)**
- **NYC BigApps Ideas Challenge (600 ideas)**

GLA as an open ecosystem driver

INDUSTRY
A vibrant
digital sector

ENGAGEMENT
A user-centric
experience

ACCESS
Internet connectivity
for all

OPEN GOVERNMENT
Innovation and
transparency

EDUCATION
Investing in
the future

NOW

Connected digital economy catapult

Future cities catapult

More tech companies than any
other European city (28k)

Smart London Board est.2013

Listen London programmed to
listen to social media with keyword
London

91% use internet at least once per
week

13% (650k) of daily journeys in
London use smart phone apps to
assist journey

85% of journeys paid for by oyster
which in turn feeds back data to TfL

63% adults own a smartphone in
2011

iCity programme to aggregate
disparate datasets from est. 20m
sensors across city

WiFi at 150 tube stations by 2014

WiFi has started appearing on
busses

£1m invested in free wifi at galleries
and museums

£24m in affordable broadband for
SMEs

London datastore website

500 datasets available

30k visits to datastore per month
(Smart London plan)

450 transport apps using this data
(Smart London plan)

Talk London forum established

Live 3D map of London's
underground assets by 2020

London schools atlas

Coding to be part of British
curriculum by September

FUTURE

iCity to support creative digital
industry

Wikimania hackathon 2014

GLA to pilot flexible employment
market place for young people

Finalise and evolve London
dashboard

Internet connectivity throughout
transport network and public
spaces

Continue to publish data

David Eaves, 2009:

- If it can't be spidered or indexed, it
doesn't exist.

- If it isn't available in open and
machine-readable formats, it can't
engage.

- If a legal framework doesn't
allow it to be repurposed, it doesn't
empower.

Incentivise the creation of apps
using the datastore information

Provocative propositions about the next gen enterprise

1. Organizations will move from supply chains to ecosystems with increasing knowledge of end-customers (with customer experience and ecosystem health dominating performance measures).
2. The shape of enterprises will change. Most people in enterprises will “have a direct relationship with the consumer”.
3. Highest performing organizations will be Omnichannel or Ecosystem Drivers
4. Opening up data is not enough - it needs community!
5. Governments should play the role of Ecosystems Driver:
 - *key decisions: brand, contracts, price, quality, participants, IP & data ownership, regulation*





Helping Public Sector Organisations

Jeni Tennison – Technical Director – @JeniT – jeni@theodi.org

Overview

- What is ODI?
- What is ODI doing?
- What tools can you use?
- What activities can you do?
- What else can ODI help?



What is ODI?

- Independent institute
 - emphasis on research & training
 - mixed/matched funding
- Founded October 2012
 - by Professor Sir Nigel Shadbolt & Sir Tim Berners-Lee



We will catalyse an
environment of open data,
to create economic, social
& environmental value.

ODI Mission Statement

What is ODI doing?

- Unlock supply
 - technical, legal, strategic help
- Unlock demand
 - start-up programme, challenges
- Communicate value
 - telling stories, building evidence base



TOOLS FOR OPEN DATA



Certify your open data

Show that it's easy to
find, use and share

Create a certificate

Browse all certificates

open data certificate™

BETA

Search certificates

Go

Register

Sign in

Create new certificate

Browse all certificates

Discussion

How it works

1

2

3

Open Data Certificate

Quality badge for data

What's important for reusers

Officially adopted by UK government

Looks in depth at four aspects

- legal (rights, licensing, privacy)

- practical (guarantees, quality)

- technical (formats, metadata)

- social (documentation, support)



New Certificate

Save and Finish

Untitled

Publisher URL



What kind of release is this? This is required for all levels

- ☐ a one-off release of a single dataset
- ☐ a one-off release of a set of related datasets
- ☐ ongoing release of a series of related datasets
- ☐ a service or API for accessing open data

Legal Information

Rights, licensing and privacy

Rights your right to share this data with people

Do you have the rights to publish this data as open data? This is required for all levels

- ☐ yes, you have the rights to publish this data as open data
- ☐ no, you don't have the rights to publish this data as open data
- ☐ you're not sure if you have the rights to publish this data as open data



Pilot level

self certified

GB beta

Embed this
on your site

This data has achieved [Pilot level](#) on 07 October 2013 which means extra effort went in to support and encourage feedback from people who use this open data.

OS Locator

Summary

Type of release

ongoing release of a series of related datasets

Data Licence

Not Applicable

Content Licence

UK Open Government Licence 1.0 (OGL)

Verification

self certified

General Information

This data is described at

<http://www.ordnancesurvey.co.uk/b...>

This data is published by

Ordnance Survey

The data is published on

<https://www.ordnancesurvey.co.uk/o...>

Legal Information

This data was

originally created or generated by its curator

Copyright and database rights are described at

<https://www.ordnancesurvey.co.uk/o...>



Expert – information infrastructure



Standard – routine publication



Pilot – trials supporting feedback



Raw – automatically generated

How can I improve my open data?

English Indices of Deprivation 2010

[Return to questionnaire](#)



Pilot requirements

You put extra effort in to supporting and encouraging feedback from people who use this open data.

To reach Pilot level you should:

You should put timestamps in your data when you release it so people know the period it relates to and when it will expire.



For example, population statistics usually include a fixed timestamp to indicate when the statistics were relevant.

Yes I understand: [edit questionnaire](#)

I don't understand: [speak to a human](#)

You should provide technical documentation for the data so that people understand how to use it.



Check your CSV files with CSVLint

CSV looks easy, but it can be hard to make a CSV file that other people can read easily.

CSVLint helps you to check that your CSV file is readable. And you can use it to check whether it contains the columns and types of values that it should.

Just enter the location of the file you want to check, or upload it. If you have a schema which describes the contents of the CSV file, you can also give its URL or upload it. [Read more...](#)

Enter a link to your CSV:



Or upload a file:

 Choose a file

☐ Add optional schema

 Validate

Submitted urls are recorded in a public [list of validation reports](#). If you want to validate private data then upload a file from your computer, using the Browse button below.

Validation Results

CSV Invalid

<http://dadesobertes.caib.es/recursos/infadm/organigrama/csv>

Sorry, your CSV did not pass validation. Please review the errors and warnings below:

 Download Standardised CSV

 Validate again

	13 Errors	6 Warnings	0 Messages
Structure	13	0	0
Schema	0	6	0
Context	0	0	0

13 Errors, 6 Warnings

Structural problem: Unexpected whitespace on row 159

ACTIVITIES AROUND OPEN DATA

Lunchtime Lectures

Friday lunchtime lecture: How can local government deliver better services with fewer resources using data?

Friday 13 June 2014, 1:00pm - 1:50pm

Open Data Institute, 65 Clifton Street, London, EC2A 4JE

You bring your lunch, we provide tea & coffee, an interesting talk, and enough time to get back to your desk.

Ben Unsworth explains why data is our next opportunity in the evolution towards a democracy that is less ideological, and more entrepreneurial, collaborative, interactive, and performance-driven – a Public Sector that is about results and better outcomes for citizens.

How can local government deliver better services with fewer resources using data?

Ben Unsworth, Data Solutions Engineer

@benunsworth



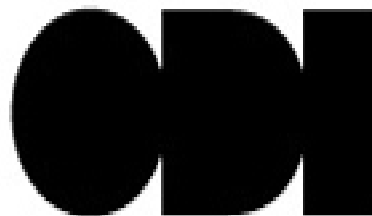


OPEN DATA CHALLENGE

SERIES

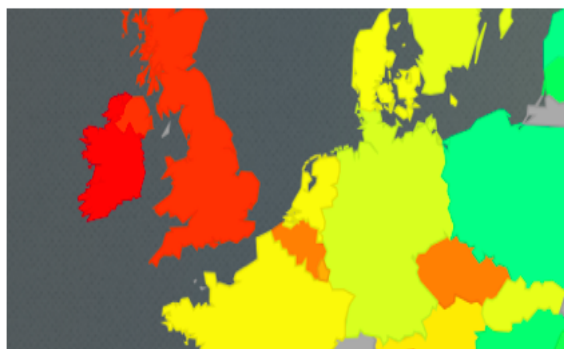


Nesta...



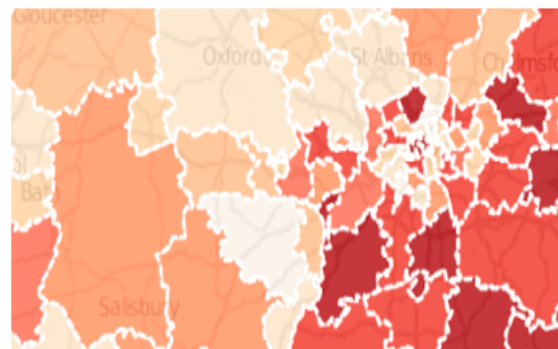
Open data stories

The stories below show how open data has been used to reveal powerful new insights, to develop innovative new services and to identify significant cost savings. We will continue to add new stories that demonstrate the social, economic and environmental benefits of open data.



Spend Network reveals UK businesses starved of £22bn in cash flow by government inefficiencies

ODI startup [Spend Network](#) revealed that up to £22 billion of government cash, intended for the UK economy, is delayed by an inefficient tendering system. The company's analysis of over £1 trillion of EU procurement data showed that the UK's tendering process is 45% slower than the EU average, and that up to £734 million of the stalled funds could be delayed to UK SMEs each year.



Prescription savings worth millions identified by Mastodon C

In 2012, [Mastodon C](#) worked with the ODI, [Open Health Care UK](#) and doctor and writer [Ben Goldacre](#) to analyse open data around prescribing patterns of statins across the UK, identifying £200 million potential savings to the NHS.

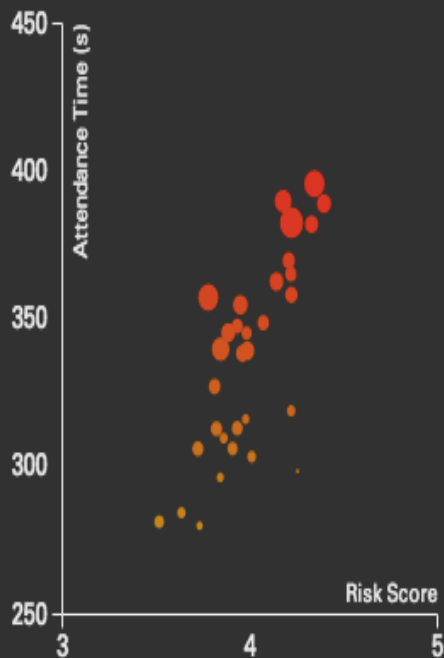
(December 2012)

[Full story](#) | [Analysis tool](#)

London

Average attendance time:

5_m37_s



☒ Close proposed stations

☒ Weight by footfall

☐ Enable analysis mode

Loading, please wait...



Hover or click



Station Open Station Closed

Low Risk High Risk

OTHER HELP FROM ODI

Guides

Engaging with reusers

GUIDES

FAQs - About the ODI

GUIDES

How to make a business case for open data

GUIDES

How will open data affect me?

GUIDES

Marking up your dataset with DCAT

GUIDES

Publisher's Guide to Open Data Licensing

GUIDES

Publisher's Guide to the Open Data Rights Statement Vocabulary

GUIDES

Re-user's Guide to the Open Data Rights Statement Vocabulary

GUIDES

Reuser's Guide to Open Data Licensing

GUIDES

Courses

Finding Stories in Open Data

COURSES

Open Data Technologies

COURSES

Open Data, Law and Licensing

COURSES

Open Data in a Day

COURSES

Open Data in Practice - 3 days

COURSES

New

Other services

- Strategy advice
- Dataset/API reviews
- Structured reuser engagement
- Standards development
- Research (& development)



Summary

- Use Open Data Certificates
- Use csvlint
- Come to lunchtime lectures
- Highlight your datasets with us
- Consider training
- Let us know how we can help





Jeni Tennison – Technical Director – @JeniT – jeni@theodi.org