



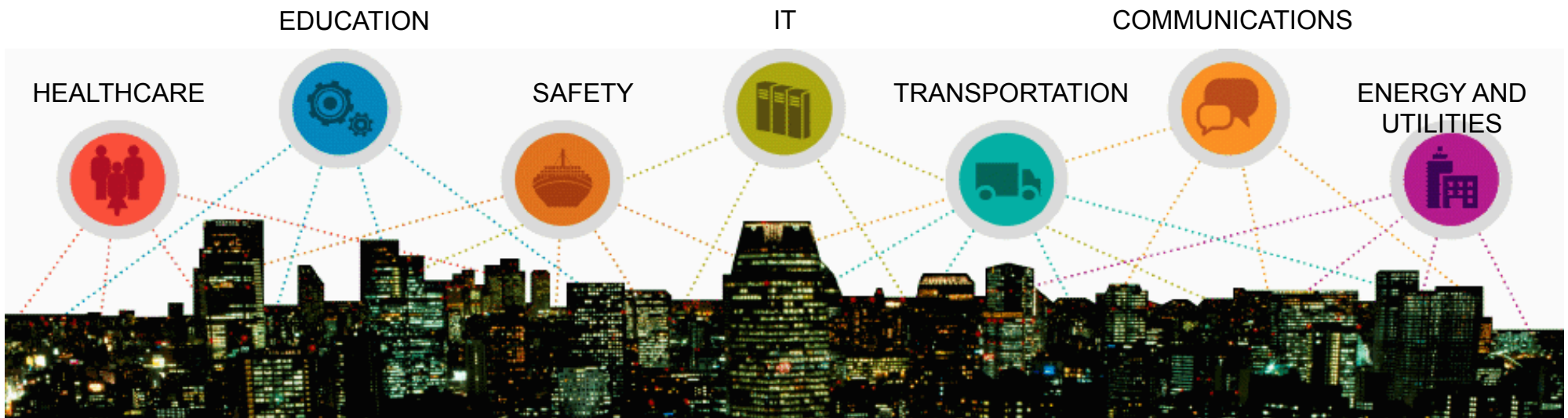
# Smarter Cities

Juha Hulkkonen



# Smarter Cities

## City as A System of Systems





# Open data builds stronger links between city services, citizens and businesses



EDUCATION

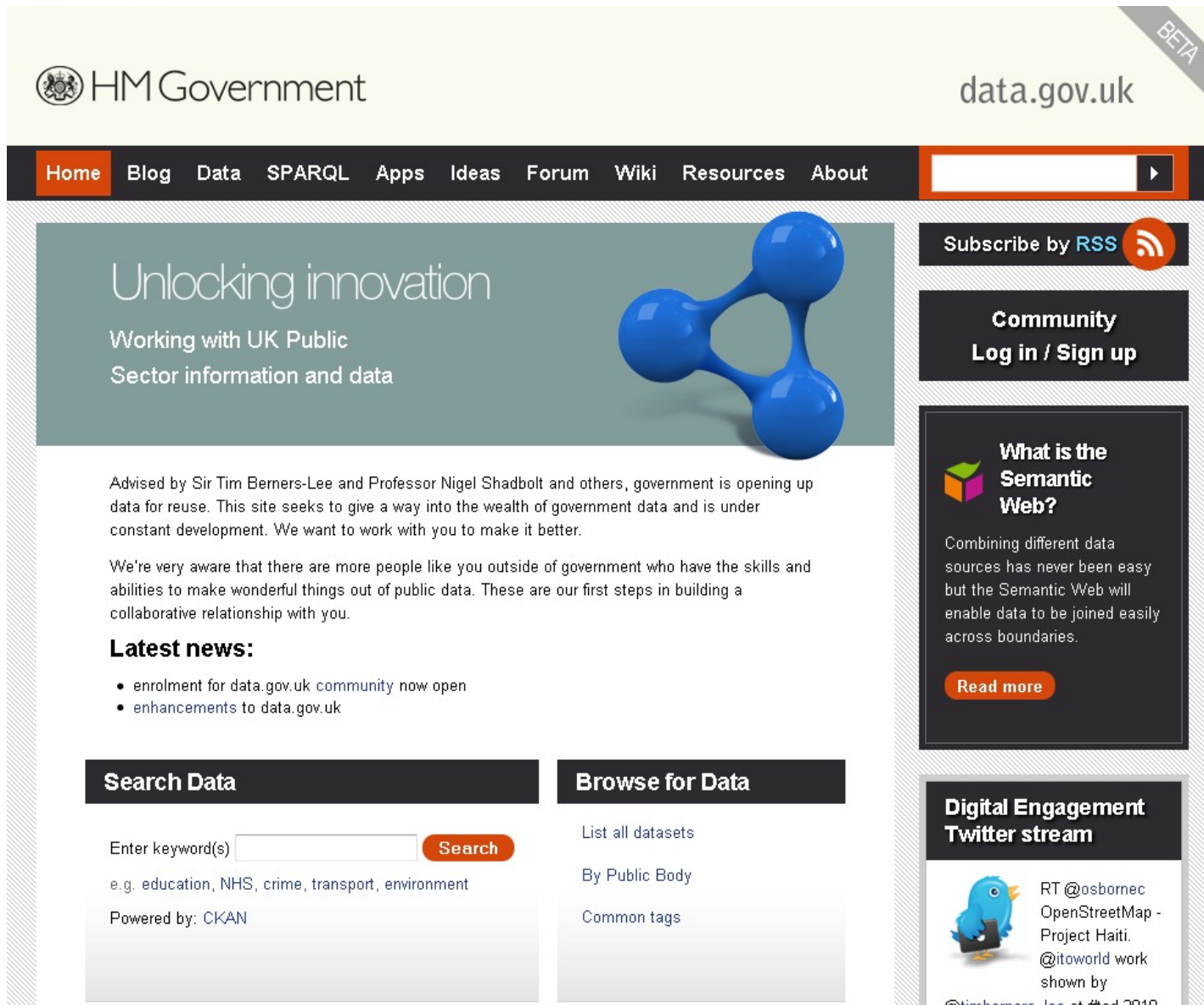
IT

COMMUNICATIONS





# Open Data is a fast growing global movement...



The screenshot shows the data.gov.uk website. At the top left is the HM Government logo. The top right features the text 'data.gov.uk' and a 'BETA' badge. A navigation bar includes links for Home, Blog, Data, SPARQL, Apps, Ideas, Forum, Wiki, Resources, and About, along with a search box. The main content area has a header 'Unlocking innovation' with a blue molecular structure graphic and the text 'Working with UK Public Sector information and data'. Below this is a paragraph about the site's purpose, followed by a 'Latest news' section with two bullet points. On the right side, there are three vertical widgets: 'Subscribe by RSS', 'Community Log in / Sign up', and 'What is the Semantic Web?' which includes a 'Read more' button. At the bottom of the main content area are two boxes: 'Search Data' with a search input and 'Browse for Data' with links for 'List all datasets', 'By Public Body', and 'Common tags'. A 'Digital Engagement Twitter stream' widget is also visible on the right.



# Open Data is a fast growing global movement...

**DataSF beta**

Register | Login

Datasets About Scorecard Contact Us App Showcase Blog **Suggest Other Datasets/Apps** Search.. Go

Admin & Finance Environment Geography Housing Human Services Public Safety Public Works Transit RSS Feed Advanced Search

**What is DataSF?**

DataSF is a clearinghouse of datasets available from the City & County of San Francisco. Our goal in releasing this site is:

- (1) improve access to data
- (2) help our community create innovative apps
- (3) understand what datasets you'd like to see
- (4) get feedback on the quality of our datasets.

looking for a dataset or app that you'd like to see?  
[<tell us>](#)

Tag cloud

**DataSF App Showcase**

Top Tags

department of public works  
geography gis layers

**Datasets**

☆☆☆☆☆ **DAAS Intake monthly**  
Categorized under [Human Services](#) Posted 45 days ago (Editorial)

**Description:** Monthly reporting of calls to DAAS intake call center. Calls are categorized by services requested and by language of caller.  
**Agency Name:** Human Services Agency  
**Date Released:** 12/30/2009  
**Time Period:** 8/2009 through 11/2009  
**Frequency:** Month  
**Location of dataset:** <http://www.sfhsa.org/1587.htm>  
**Format:** Excel  
**Location of Data Dictionary:** <http://www.sfhsa.org/1587.htm>

[Read More](#) | [Discuss](#) | [Share This](#) | [Tags: daas adult services aps community living fund home-delivered meals in-house supportive services ihss hsa informa](#)

☆☆☆☆☆ **HSA Operator Monthly**  
Categorized under [Human Services](#) Posted 45 days ago (<http://www.sfhsa.org>)

**Description:** Monthly reporting of calls to HSA main switchboard operators.  
**Agency Name:** Human Services Agency  
**Date Released:** 12/30/2009  
**Time Period:** 8/2009 through 11/2009  
**Frequency:** Month  
**Location of dataset:** <http://www.sfhsa.org/1587.htm>  
**Format:** Excel  
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[Read More](#) | [Discuss](#) | [Share This](#) | [Tags: aod operator switchboard call data hsa](#)



# Open Data is a fast growing global movement...

opengov.se BÄTTRE OFFENTLIG SEKTOR MED TILLGÅNG TILL DATA I ÖPPNA FORMAT Om webbplatsen Kontakt English

NYHETER DATA GOVTRACK REMISSER

Startsida

## Offentliga datakällor

Detta är en förteckning över datakällor i offentlig sektor. Om de var öppna för att användas fritt skulle företag och privatpersoner kunna bygga tjänster med dem. Se [principer för öppen digital offentlig information](#) för detaljer om hur offentlig data bör tillhandahållas.

### Senast tillagda

Beskrivning	Organisation	Format	Fri
<a href="#">Vetenskapsrådets projektdatabas</a> Vetenskapsrådets projektdatabas, VR-Proj, är en söktjänst som tillåter ...	Vetenskapsrådet	(Saknas)	Nej
<a href="#">Informationskälla om interaktioner, SFINX</a> Interaktionskällan SFINX (Swedish Finnish Interaction X-referencing) innehåller framför ...	SKL / Landstingen	(Saknas)	Nej
<a href="#">Trafikstörningsinformation</a> Trafikstörningsinformation listas på SJ:s webbplats och bör komma ...	Banverket	(Saknas)	Nej
<a href="#">Trafikinformation för Stockholmsområdet</a> Trafiken.nu Stockholm är ett samarbete mellan Stockholms stad, ...	Vägverket	(Saknas)	Nej
<a href="#">Tillgänglighetsguiden Stockholm</a> I databasen finns information om tillgänglighetsstatus för offentliga ...	Stockholms stad	(Saknas)	Nej

## Du kan hjälpa till!

Känner du till datakällor som inte finns med i katalogen? [Skicka in ett förslag](#) så försöker jag lägga in dem så snabbt som möjligt.

**Föreslå datakälla** →

## Jobbar du på en myndighet?

Läs mer om hur man praktiskt går tillväga för att [tillhandahålla data i öppna format på ett kostnadseffektivt sätt](#).

## Uforska datakällorna

Efter ämnesord:

- [administration](#)
- [arkiv](#)
- [bilder](#)
- [böcker](#)
- [ekonomi](#)
- [fordon](#)
- [forskning](#)
- [fotografier](#)
- [hälsa](#)
- [historia](#)
- [jobb](#)
- [adresser](#)
- [bibliografi](#)
- [bistånd](#)
- [demokrati](#)
- [EU](#)
- [företag](#)
- [förvaltning](#)
- [geografi](#)
- [handel](#)
- [inköp](#)
- [juridik](#)



# Open Data is a fast growing global movement...

FixMyStreet

[Report a problem](#)

[All reports](#)

[Local alerts](#)

[Help](#)

[Contact](#)

[mysociety.org](#)

**Report, view, or discuss local problems**  
(like graffiti, fly tipping, broken paving slabs, or street lighting)

Enter a nearby GB postcode, or street name and area:

Go

## How to report a problem

1. Enter a nearby GB postcode, or street name and area:
2. Locate the problem on a map of the area
3. Enter details of the problem
4. We send it to the council on your behalf

## Photos of recent reports



## FixMyStreet updates

1,336

reports in  
past week

1,650

fixed in past  
month

69,244

updates on  
reports

## Recently reported problems

- [Pier Pavilion site](#)
- [Illegally parked or not](#)
- [Large potholes](#)
- [Pothole in Road.](#)
- [Broken Fence](#)



OPEN DATA,  
DESIGN, INTERFACES  
AND INNOVATION

Forum Virium Helsinki Annual Seminar Thursday 11 March 2010



# City Service Integration



City Central | Water Management | Distribution | Waste | Transport Management | Bus | Roads | Utilities Management

Waste Management +

Tabular Detail | System Map | Layers | Central Region v

- Pipe
- Pump
- Sewers
- Hold Tanks
- Weirs
- Weather

Water Waste Event Management +

Type	ID	Source	Description	Time/Date	Status
Water Overflow	ABC234E	Water Waste	Predicted precipitation 24HRS - ETA 11:00 09/12 Ongoing maintenance/potential sewerage overflow.	11:00 08/12	<span style="color: orange;">●</span>
Blockage	111ABC4	Water Waste	Flow meters showing reduced flow in Walker street pipe infrastructure, suspected blockage.	10:56 08/12	<span style="color: orange;">●</span>

Report:

Date:

Collaboration Space \*

**Water + Transport Region Experts**

- John Meegan**  
Senior Waste Water Manager
- Thomas Freund**  
Senior Water Manager
- Michael Cosgrove**  
Senior Waste Water Engineer

**Water + Transport Agency (2/4)**

- Bus Transport Agency (1/1)**  
 Michael Kehoe
- Metro Transport Agency (0/1)**  
E. Michael Fuestis
- Water Distribution Agency (1/2)**  
 michael\_cosgrove@ie.ibm.com - Mich  
Thomas J. Freund

Feeds | Day-At-A-Glance | Activities | Primary Contacts



# Open data - Introducing IBM CityForward.org

By mapping the interconnectedness of systems often thought to be independent of one another, City Forward will help us to anticipate and optimize for unintended outcomes of actions taken within the city.



Powerful **interactive exploration tools** turn raw data into actionable information—revealing important patterns and insights.

Easy-to-use **collaboration tools** enable globally distributed teams to explore information, change assumptions and share knowledge.



Powerful **authoring tools** give subject matter experts the ability to illustrate ideas and trends through case studies and best practices, encouraging discussion of their validity and impact.

Intelligent **analysis** generates realistic, bottom-up scenarios that reveal previously unforeseen implications.

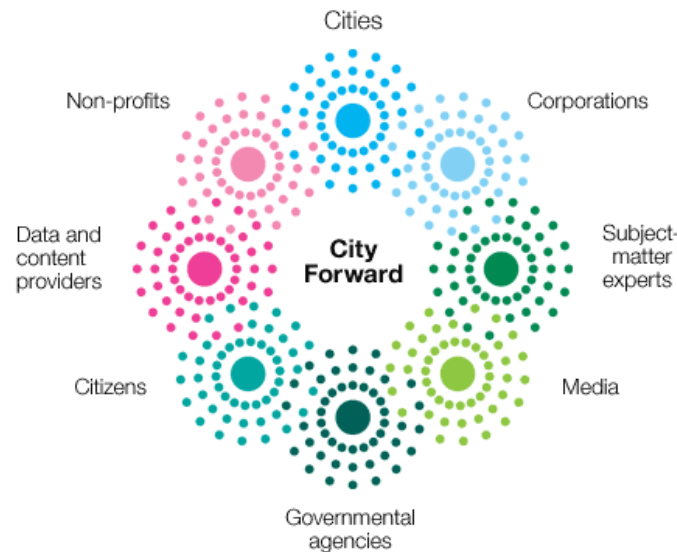


If we are going to build a **smarter planet**, let's start by building **smarter cities**.

## Introducing **City Forward**

City Forward connects a community of **experts, activists** and **interested parties**—each making unique contributions and drawing unique value from the initiative.

IBM Corporate Citizenship and Corporate Affairs has begun work on City Forward by reaching out to experts both inside and outside IBM. The goal is to gain a deeper understanding of the major issues facing cities today, and to generate ideas about addressing those issues. The insights accumulated are driving the design and implementation of the City Forward experience.



Read the latest posts on the **Smarter Planet Blog**.

Watson, IBM's Jeopardy-Playing Computer, Trumps Humans | Switched.com Watson, IBM's... **more >**

Feds plan landslide sensors in San Rafael's Lucas Valley... **more >**

The Power of One **more >**

### Get Involved

**Contact us** if you are interested in getting involved, sharing ideas or collecting and contributing data for City Forward. **Follow us** on Twitter for project updates.

City Forward is a philanthropic donation of technology and services to city citizens and leaders worldwide. **Coming in 2010.**

Download the overview to learn more about City Forward.

**Sizes: A4, US Letter**



OPEN DATA,  
DESIGN, INTERFACES  
AND INNOVATION

Forum Virium Helsinki Annual Seminar Thursday 11 March 2010



Processes

People



Let's Work Smarter Together

Information

Technology



OPEN DATA,  
DESIGN, INTERFACES  
AND INNOVATION

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