



Open (Government) Data

HOE DE OVERHEID NIEUWE DIENSTEN EN ECONOMIEËN HELPT STIMULEREN MET BEHULP VAN OPEN DATA

Yves Vanderbeken - Flemish Government Open Data team member & HPE Account Chief Technologist On behalf of Noël Van Herreweghen - Project Manager Flemish Government Open Data Team

Topics







Topics



(Open Government Data)

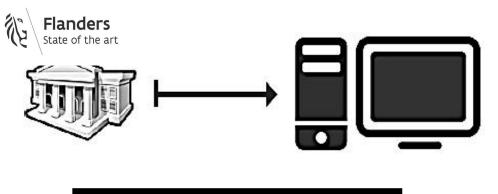


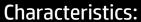


Open Government Data: The basics

Publishing data

Public administrations share data online





- Machine Readable
- Free
- With respect for Privacy
- Open Standards





Citizens/businesses benefit from the apps (services)



Developers /

search for data

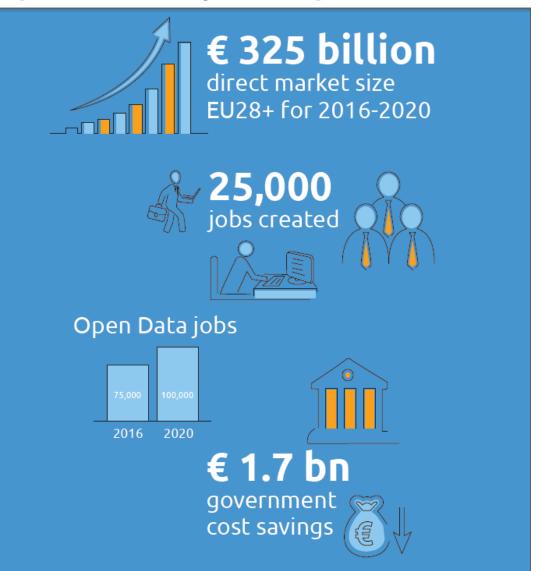
Companies





Creating Value through Open Data (EU view by 2020)

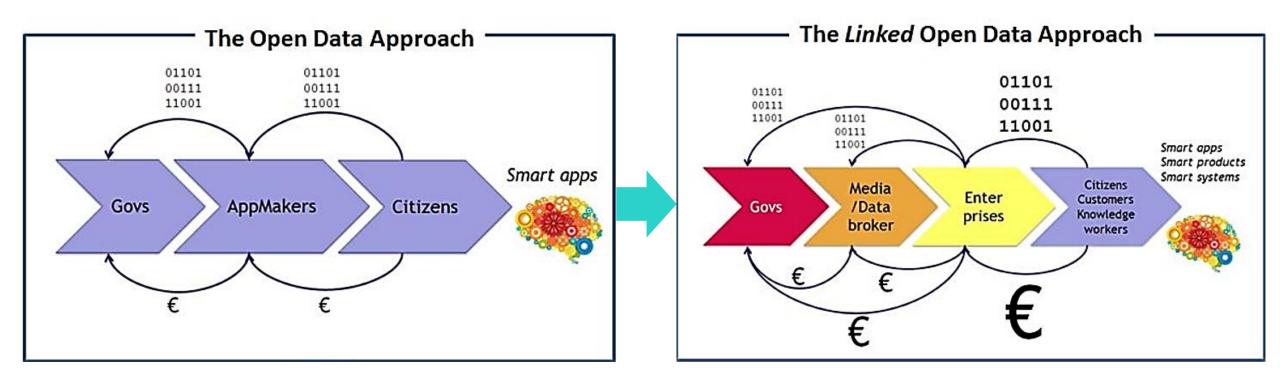


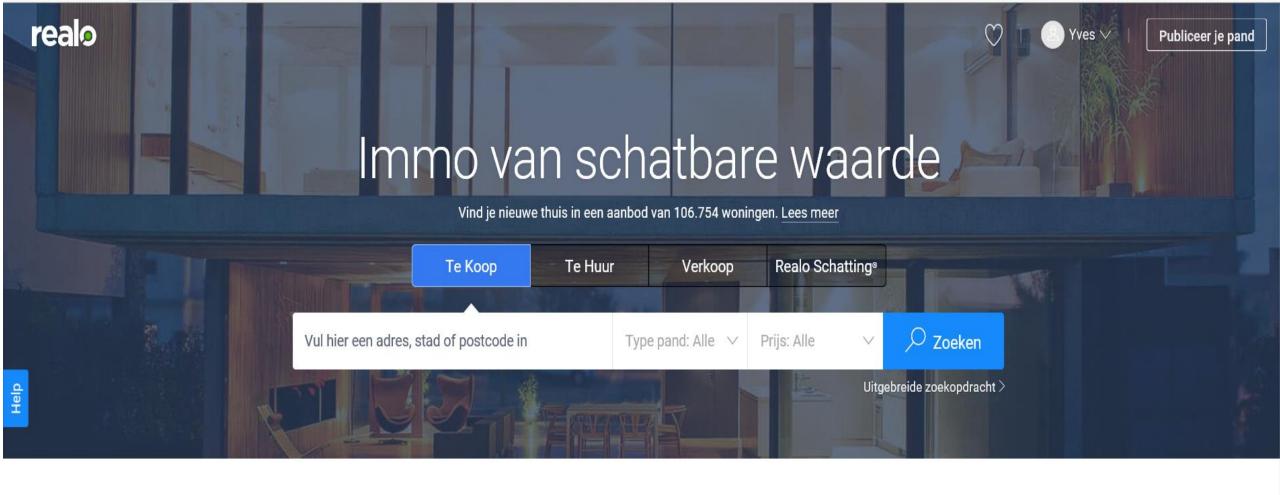


Flanders

State of the art

Where is the money in Open (Government) Data?



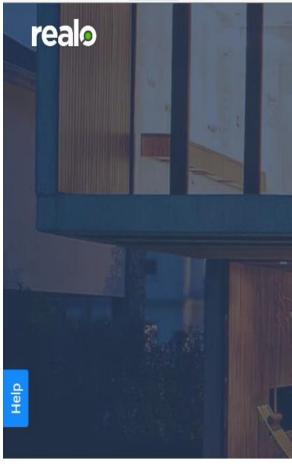


Aanbevolen voor jou





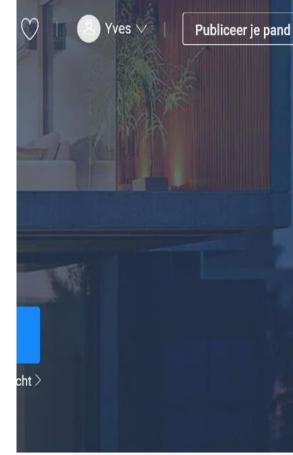




1. Publieke overheidsdata

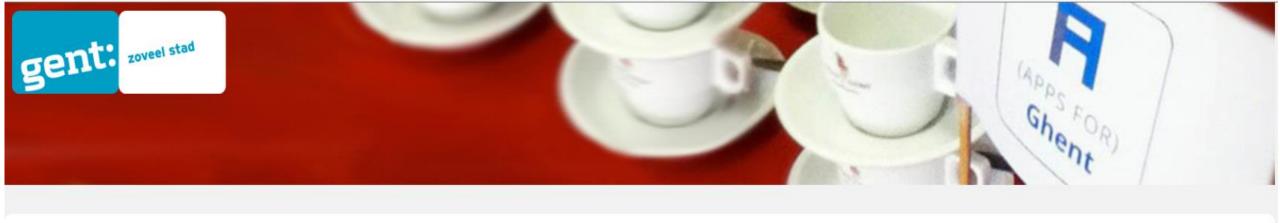
Het overgrote deel van de gegevens die verwerkt worden door Realo en vertoond worden op de website zijn afkomstig uit publieke overheidsbronnen, zoals:

- De Algemene socio-economische enquête 2001 (SEE 2001).
- Census 2011 (zie FGOV.be)
- Publieke gegevens van de FOD Economie
- Het CadGIS van AAPD (Algemene Administratie van de Patrimoniumdocumentatie)
- publieke gegevens van de VDAB
- Publieke gegevens van het AGIV ("Agentschap voor geografische informatie Vlaanderen"):
- Overstromingsgevoelige gebieden (Watertoets) (zie AGIV.be)
- Gewestplan
- · Recht van voorkoop
- · Het Grootschalig Referentiebestand (GRB)
- Adresposities (CRAB)
- · Gegevens over Overstromingsgevaar en -risico van Leefmilieu Brussel
- · De Inventaris van het Bouwkundig Erfgoed van Onroerend Erfgoed
- · Publieke gegevens van het SPW (Service publique de Wallonie)
 - · Risques d'inondation
 - Plan de secteur
 - · Patrimoine / Biens classés
 - · PICC (Projet Informatique de Cartographie Continue)
 - CADMAP
- Publieke gegevens van het CIBG (Centrum voor Informatica voor het Brusselse Gewest)
 - BROH: Bestemmingen
 - · BROH: Patrimonium
 - UrbIS
- · Publieke gegevens van het Nationaal Geografisch Instituut (NGI)
- · GeoPostcodes (door GeoData)









HOME DATASETS APPS IDEE CONTACT



VrijeParking

VrijeParking.be is een ontwikkeling van ProjectsLouis.be en is een uitbreidding op de eerste (web)applicatie die ontwikkeld werd met als doel mobiele toestellen. Begin 2012 ontwikkelde we de eerste stappen voor ParkingGent, een online website waarmee het mogelijk was voor een reeks ondergrondse parkings in Gent na te gaan hoeveel beschikbare plaatsen er nog waren. Zo kon men voorkomen nodeloos naar een volzette parking te rijden en zelfs onderweg een snelle check-up te doen van de beschikbare capaciteit. Na enkele weken besloten we dat het gebruik van een mobiele website niet altijd voor iedereen even gemakkelijk is, en we maakten van deze mobiele website, eveneens een app voor Android en iOS. De vraag naar deze toepassing bleek dan ook groter dan verwacht met tegen eind 2013 net geen 2000 actieve installaties op beide platformen. Begin van VrijeParking.be In de zomer van 2013 valt voor de eerste keer de term 'vrijeParking', het idee bestaat eruit om ParkingGent uit te breidden naar diverse andere steden. De enige voorwaarde die hiervoor geldt is dat het mogelijk is de gegevens van deze parkeerplaatsen te kunnen ophalen van een opendata platform. Op dit moment maken we dan ook gebruik van het opendata-platform van de Stad Gent en de Stad Kortrijk (gegevens van Parko).





Department for Environment Food & Rural Affairs

Applications

Bathing Water Explorer

England Wales



View water quality at designated bathing water sites

Environmental open-data applications and datasets

Under its <u>Open Data Strategy</u> <u>Defra</u> and its <u>agencies</u> are increasing the range of the data that they provide. All our data can be found in the <u>data.gov.uk catalogue</u>, but here we highlight other data portals, and services and applications that are built on open environmental data.

Catchment Data Explorer

England · Wales



Explore and download information about the water environment

Bathing Water Widgets

England Wales



Web widgets that you can use to embed up-to-date bathing water quality information on your website



ABOUT CLIMATE TAGGER ▼ CLIMATE TAGGER
TOOLS ▼

SUPPORTERS & CONTRIBUTORS •

CONTACT



Climate change doesn't recognize borders. Neither should climate knowledge.

Climate change is the greatest challenge of our time, spanning countries and continents, societies and generations, sectors and disciplines. Yet crucial data and information on climate issues are still too often amassed - diffuse - in closed silos. Climate Tagger utilizes Linked Open Data to scan, sort, categorize and enrich climate and development-related data, improving efficiency and performance of knowledge management systems.





Flanders leads Open Data innovation in Belgium

Flemish Government has invested in all elements to make Open Data successful since 2011

Strategy:

Team established in 2011
Started as a Crowdsourcing initiative – Sharing data chosen by audience as #1 priority

Supporting Assets:

License Models

Third Edition of Open Data Handbook

>4.000 datasets available

Political commitment (Part of Government Declaration Flanders & Federal)

Flanders State of Modellicenties voor Open Data Contactperson: Noël Van Herreweghe programma-manager Open Data bij de Vlaamse overheid Augustussen de Green Data bij de Vlaamse overheid

Platforms:

Technical Platform Pioneering
Cooperation with Univ. of Ghent
(iMinds)

Commitment:

Working Groups across all gov. levels

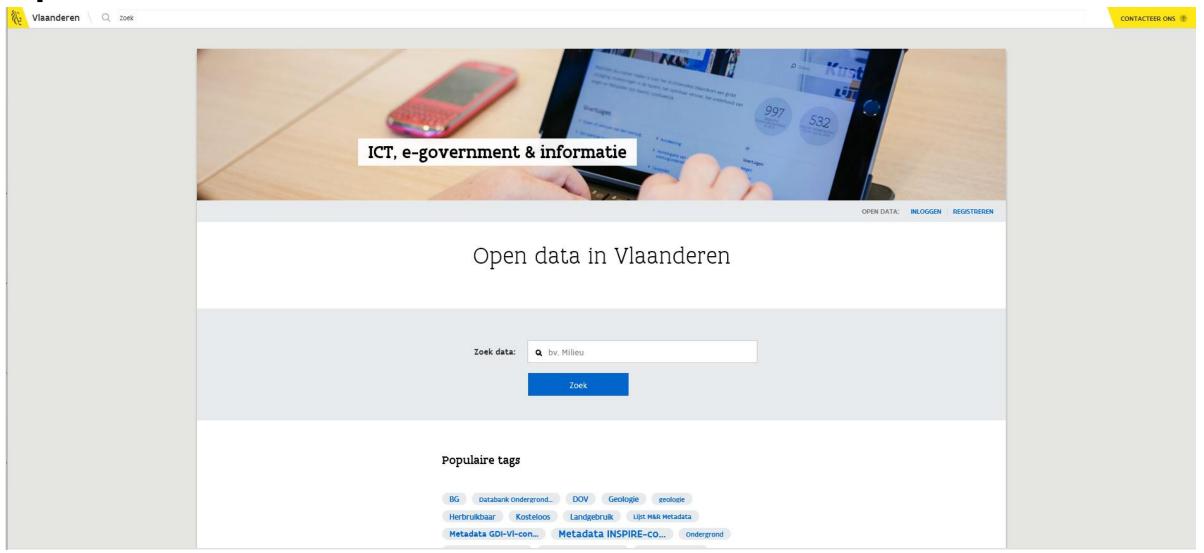
Four Open Data Days Event







Opendata.vlaanderen.be







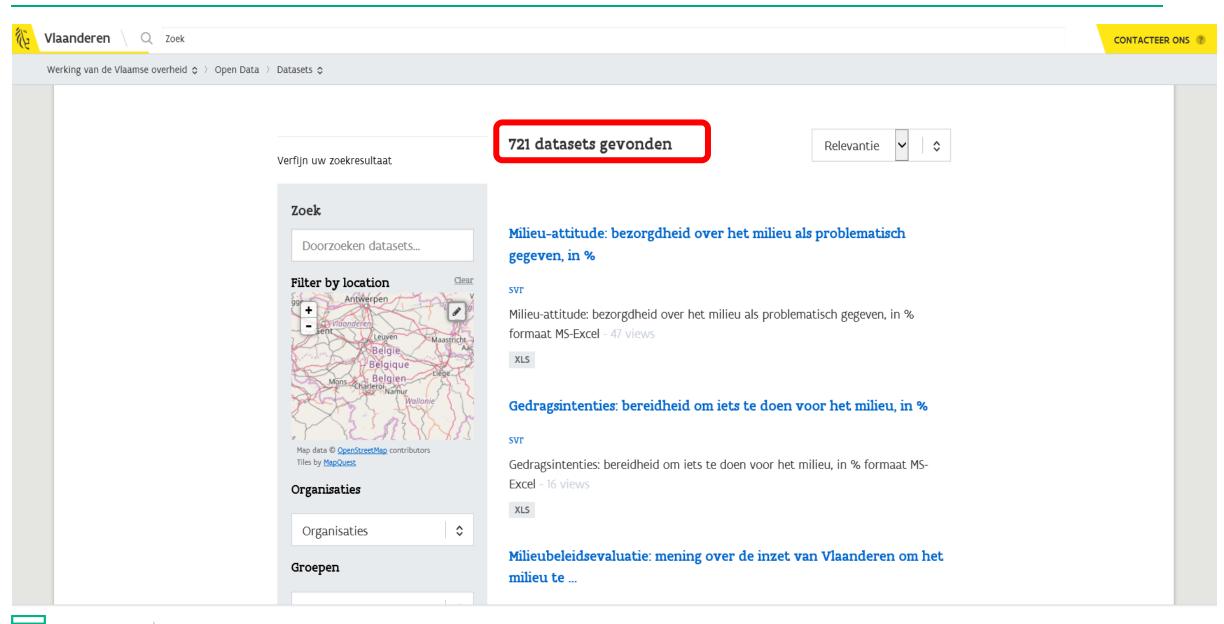
A lot of data is already available to the public

Hewlett Packard



Datasets

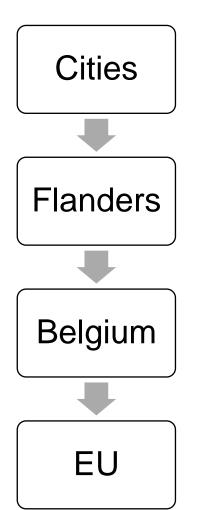


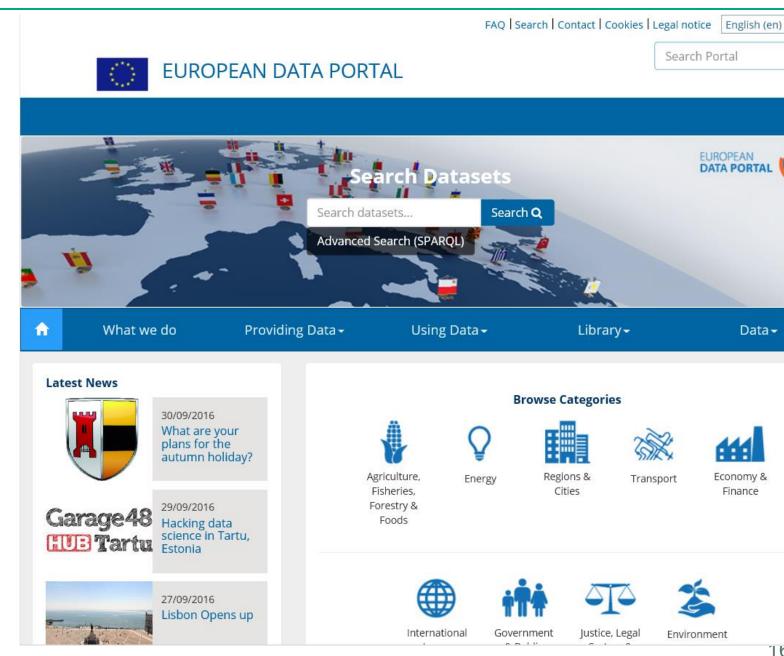






Harvesting Data









Q

EUROPEAN DATA PORTAL

Data-

Economy &

Finance

Time for Open Data (R)evolution









Quality of data

...starts at the source systems, not on the Open Data Platform



Consistency

...of data formats across the board makes it easier for companies to use and combine the Open

Data sets into Apps that work

Topics



(Open) Big Data



(Advanced Analytics & Visualization)





Today

Oncologists are prescribing the standard forms of cancer treatments for patients.

When Steve Jobs was diagnosed with cancer a few years ago it cost \$100,000 to sequence his DNA. Today it costs \$4,000. In 5 years it will cost \$40 to sequence your DNA



Tomorrow

Scientists will perform analysis on DNA data to detect cells before they turn into cancer.





Case: (Open) Personal Genomes

Personal Genome Project: Personal Genomes.org

PersonalGenomes.org ▼

Participate ▼

Global Network Donate

Sharing Personal Genomes

The Personal Genome Project was founded in 2005 and is dedicated to creating public genome, health, and trait data. Sharing data is critical to scientific progress, but has been hampered by traditional research practices—our approach is to invite willing participants to publicly share their personal data for the greater good.



Learn more >

Participation

Donating your genome and health data to science is a great way to enable advances in understanding human genetics, biology, and health. We seek volunteers willing to donate diverse personal information to become a public resource.

Open Data

Open data is a critical component of the scientific method, but genomes are both identifiable and predictive. As a result, many studies choose to withhold data from participants and restrict access to researchers. The PGP's public data is a common ground to collaborate and improve our understanding of genomes.

Use PGP data >

Global Network

We are a member of the Global Network of Personal Genome Projects. Since the Personal Genome Project was launched at Harvard Medical School in 2005, the network has grown to include researchers at many leading institutions around the globe.

Find out about the network »

Hewlett Packard Enterprise

Learn about participating >



Today

Natural disasters strike, crippling public infrastructures and first responders' ability to quickly react to the devastation.



Tomorrow

An intelligent network of sensors within public infrastructures will monitor data to accelerate response to and recovery from disasters.





Case: SAFECAST





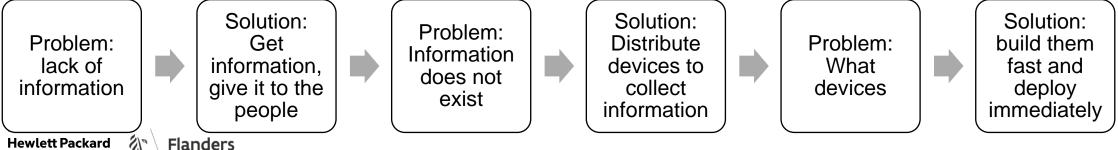
Enterprise



State of the art

Safecast was created 1 week after the 2011 Japan earthquake.

- Small core team, with more than 100 regular volunteers worldwide.
- Team concentrated in Tokyo, with smaller support teams globally
- Initially funded via Kickstarter and private donations
- Have deployed over 800 sensors currently
- As of December 2013, over 14,000,000 data points collected.
- All data is open and available under CC0 dedication.



http://blog.safecast.org/about/

ster Q

Home Visualizations Data Challenges Community

Upload Your Work 1



visualizing.org

A community of creative people making sense of complex issues through data and design — join us

Share Your Work

Find Visualizations



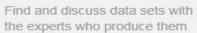
Made Possible By





See More



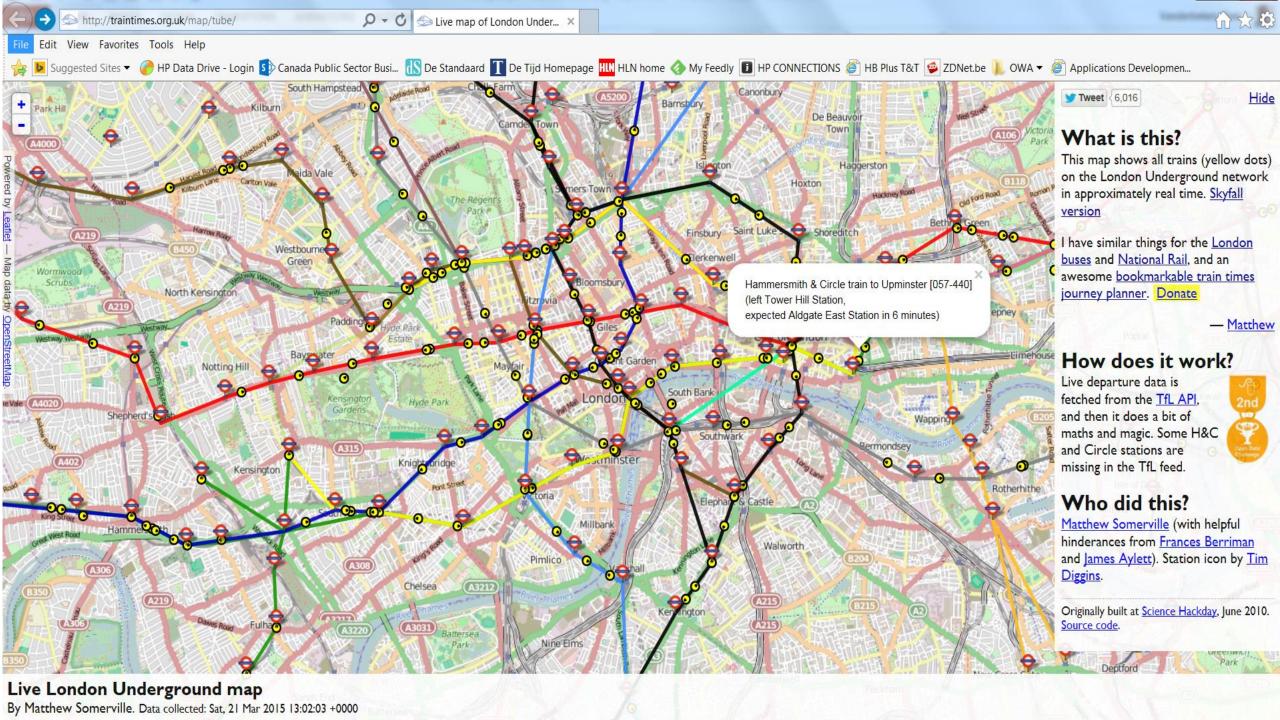


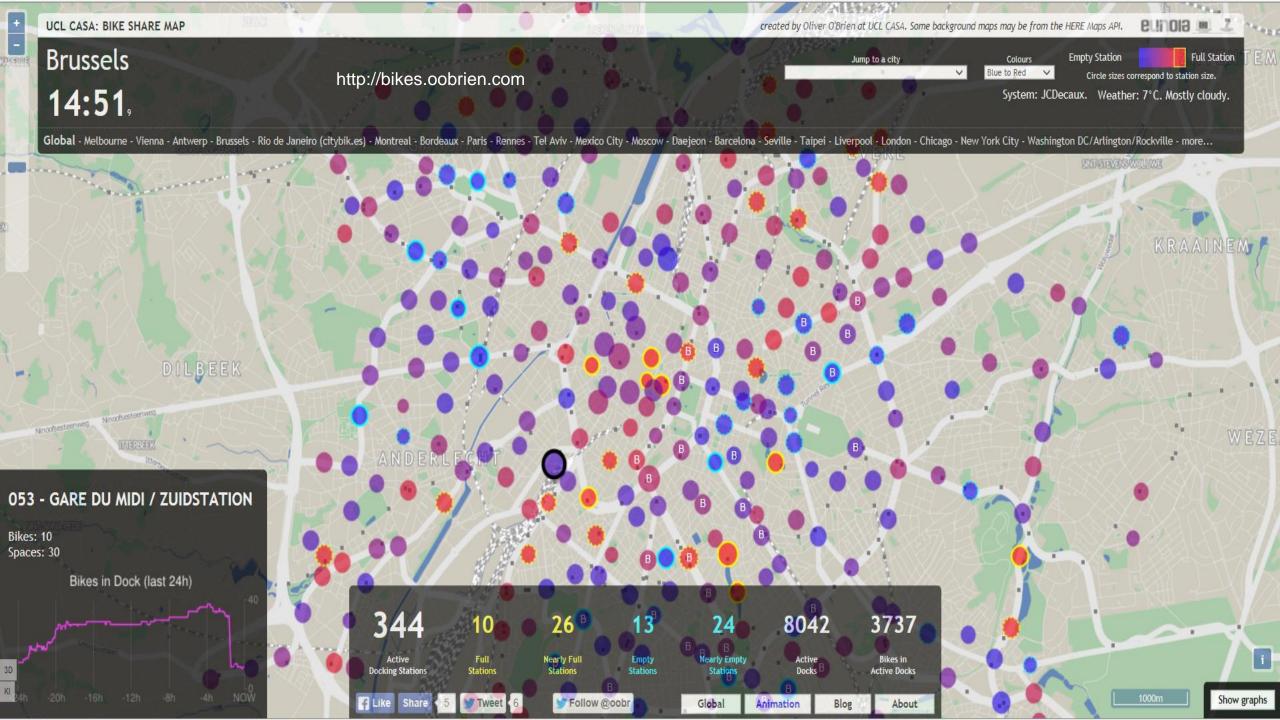


Featured Visualizations









Topics





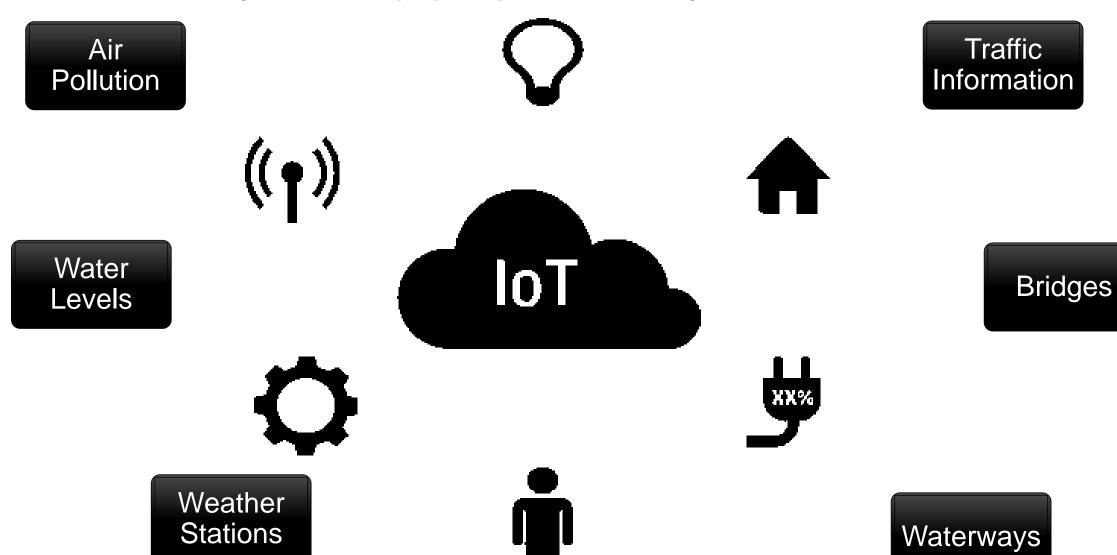


Sensors everywhere, (Open) Data everywhere

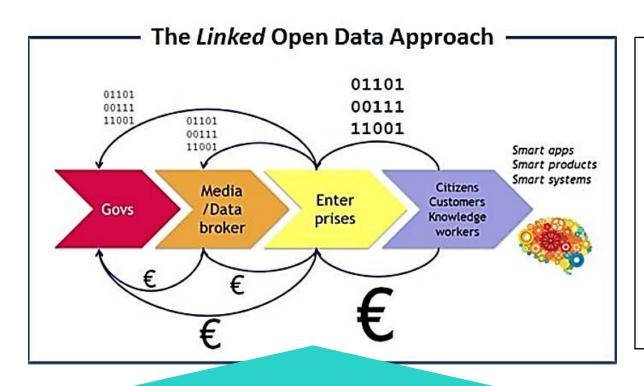
Hewlett Packard

Enterprise

Flanders



Open (Sensor) Data

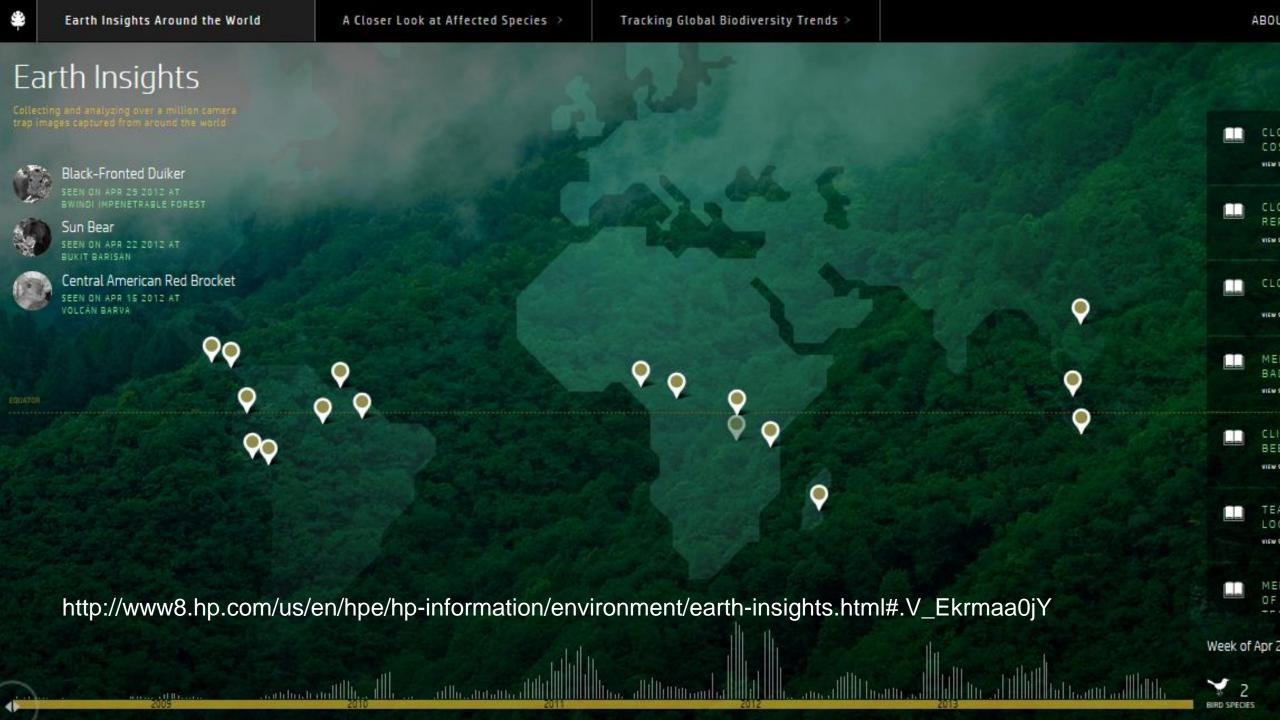


"In the Internet of Things, you don't know who's going to use the data that's generated by your devices, and you don't know who is going to help you unlock the value from the data that's being generated by all these devices.(*)"

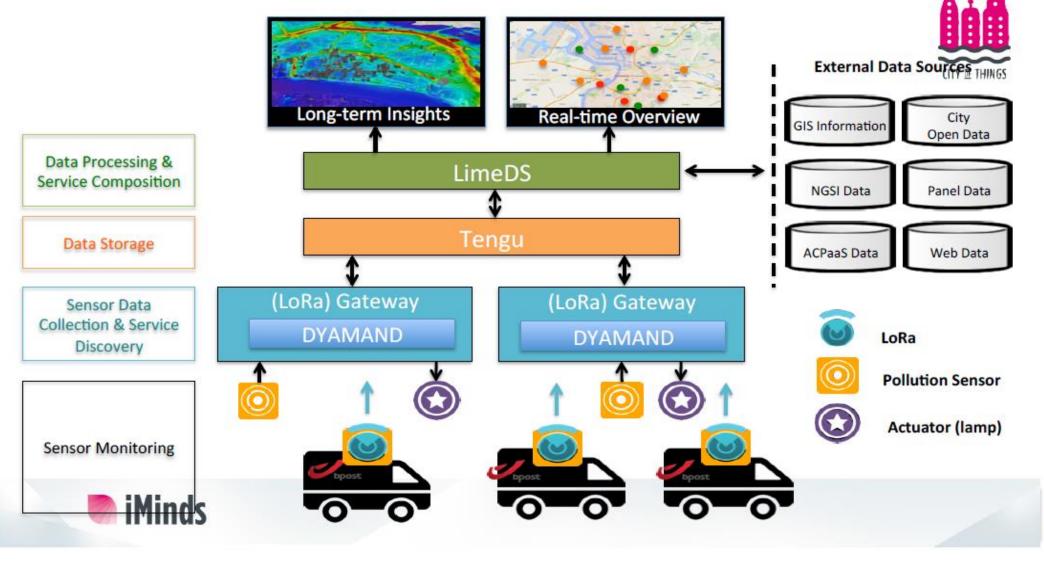








Air Quality Monitoring @ Antwerp (Be)





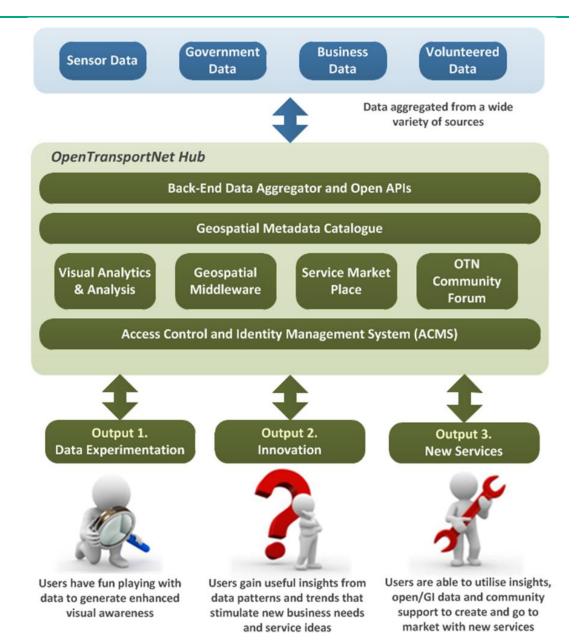


Case: Open Transport Network



Spatially Referenced Data Hubs for Innovation in the Transport Sector February 2014 – January 2017

Create collaborative virtual hubs that aggregate, harmonise and visualise Transport-related Data to make it easier for innovators to create new services and applications





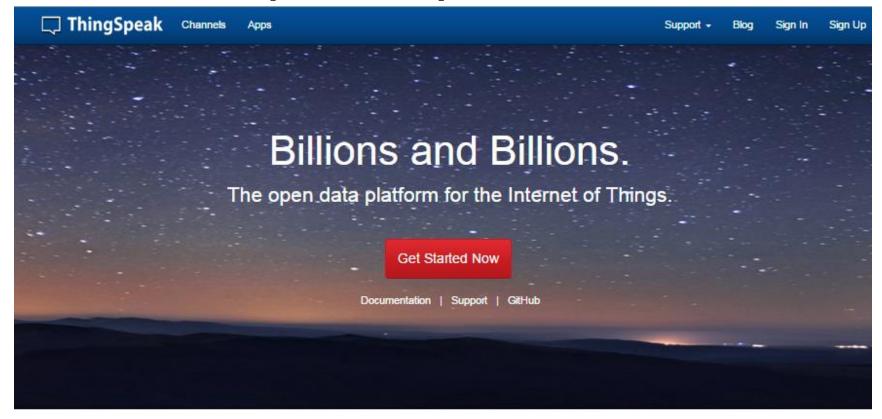


Case: Foodie Network





And of course... also Open Data platforms for IoT











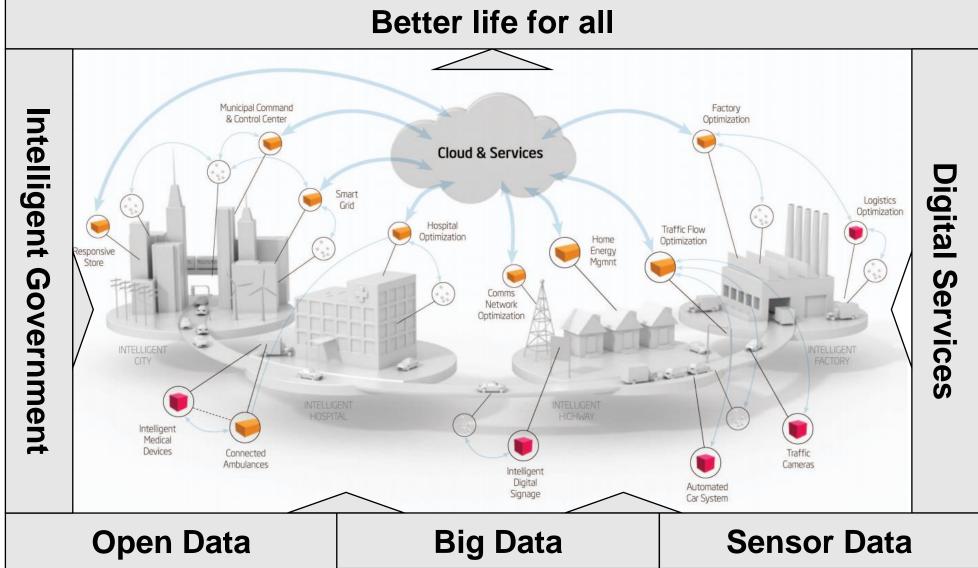
Conclusion







A vision....







The government wants you to be a partner in this!

Supply Driven

- Governments and local communities unilateral decide what datasets to publish
- Driven by number of datasets, not by quality and consistency of information



Demand Driven

- Governments and local communities seeking active partnerships with Industry
- Publish quality dataset and be a trustworthy partner
- "Tell us what you need and we will make it available"

Community of Technical Believers

Culture: Think reuse from the beginning





Some Advise before you go...

Get familiar with Open Data – techniques for publishing and using these datasets

Tap into existing Open Data platforms and start (re)using these datasets

Embrace the power of Big (Open) Data to improve services to your clients

Engage with your (local) government to request the right datasets



Let's start the dialogue



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