ODI Leaning in Tanzania

Dr David Tarrant | @davetaz | The Open Data Institute

http://tanzania.learndata.info

CC BY

Content created by
The Open Data Institute

Open data publication platforms

CC BY

Content created by
The Open Data Institute

Outcomes

Evaluate a number of different approaches for publishing open data.

Publish a dataset on one of the many available platforms.

CC BY

Content created by
The Open Data Institute

Types

Specialist Solution	Integrated Solution
+ Easy to get setup and maintain. + Open Data focused + Clear workflows for publishing open data + Visualisation tools + Data mashing tools + Best for transactional data	+ No new platform to learn + Data is provided in parallel to web pages + No separation from authoritative data + Easy discovery of data + Best for reference data + Best for Linked Open Data

CC BY

Content created by
The Open Data Institute

Key characteristics of specialist solution

Separate from your main org website

Designed to publish open data, not to fulfill other org goals

Examples: data.gov.uk | data.cityofchicago.org | data.sncf.com

CC BY

Content created by
The Open Data Institute

Key characteristics of integrated solution

It is your main website

Publishes data alongside everything else that the organisation does

Examples: bbc.co.uk/programmes | southampton.ac.uk | gov.uk

CC BY

Content created by
The Open Data Institute

Merging specialist and integrated

Method 1: *Build the functionality of your current website into a new open data platform.*

Example: West Sussex Country Council

Method 2: *Hide the specialist solution behind your main website and use it as a loosely coupled CMS.*

Example: southampton.ac.uk

CC BY

Content created by
The Open Data Institute

The sliding scale of specialist solutions

1. Catalogue: Point to data (leave it at source)
2. Re-present: Provide data services (leave it at source)
3. Host the data: Be the source
4. Control the data: Be the authority
5. Be the hub: Host the data and processor

CC BY

Content created by
The Open Data Institute

Specialist Solutions

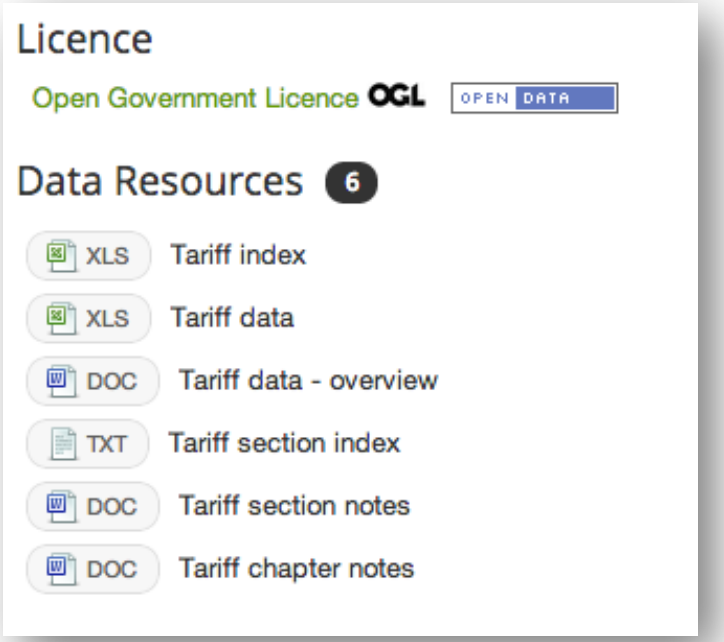
comprehensive knowledge archive network

http://www.flickr.com/photos/okfn

CC BY

Content created by
The Open Data Institute

Overview



http://demo.ckan.org/

Open Knowledge Foundation Supported

Data Catalogue

Open Source

Feels like a record manager

Simple API and search

Lots of community tools

CC BY

Content created by
The Open Data Institute

Evolution of CKAN (v1.4)

Early) Dataset catalogue (data.gov.uk)

no data hosted or searched

Mid) Data and dataset catalogue

no data hosted but it is searchable

Now) Integrated data driven web site

data platform is integrated with data, search and content

Content created by
The Open Data Institute

Features

Publish, Store and Manage Data and Metadata

Visual and Geospatial

Social

Full Stored History

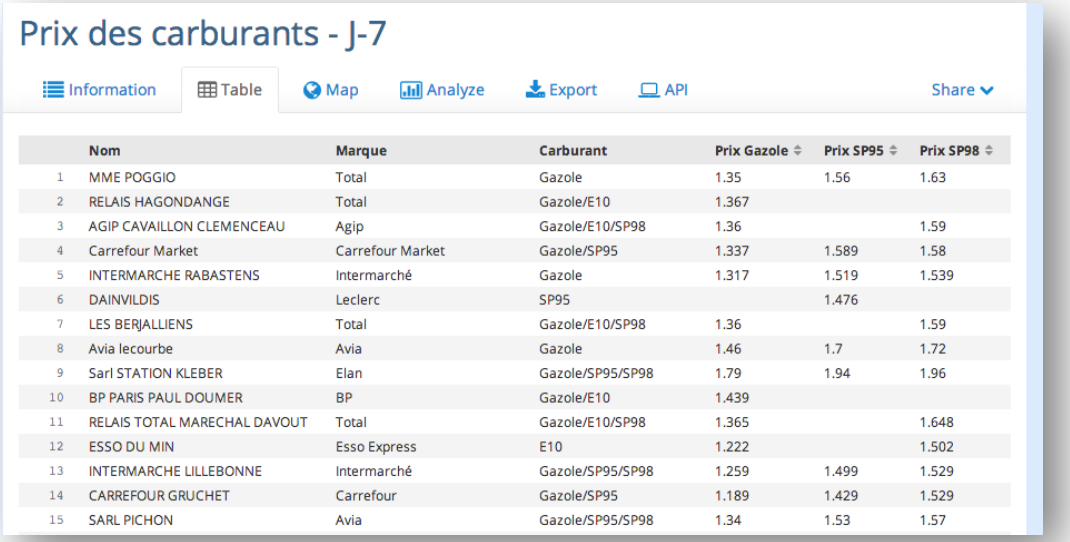
Federate Your Data With Other Organizations

Rich RESTful JSON API for Developers

CC BY

Content created by
The Open Data Institute

Overview



	Nom	Marque	Carburant	Prix Gazole	Prix SP95	Prix SP98
1	MME POGGIO	Total	Gazole	1.35	1.56	1.63
2	RELAIS HAGONDANGE	Total	Gazole/E10	1.367		
3	AGIP CAVAILLON CLEMENCEAU	Agip	Gazole/E10/SP98	1.36		1.59
4	Carrefour Market	Carrefour Market	Gazole/SP95	1.337	1.589	1.58
5	INTERMARCHE RABASTENS	Intermarché	Gazole	1.317	1.519	1.539
6	DAINVILDIS	Leclerc	SP95		1.476	
7	LES BERJALLIENS	Total	Gazole/E10/SP98	1.36		1.59
8	Avia lecourbe	Avia	Gazole	1.46	1.7	1.72
9	Sarl STATION KLEBER	Elan	Gazole/SP95/SP98	1.79	1.94	1.96
10	BP PARIS PAUL DOUMER	BP	Gazole/E10	1.439		
11	RELAIS TOTAL MARECHAL DAVOUT	Total	Gazole/E10/SP98	1.365		1.648
12	ESSO DU MIN	Esso Express	E10	1.222		1.502
13	INTERMARCHE LILLEBONNE	Intermarché	Gazole/SP95/SP98	1.259	1.499	1.529
14	CARREFOUR GRUCHET	Carrefour	Gazole/SP95	1.189	1.429	1.529
15	SARL PICHON	Avia	Gazole/SP95/SP98	1.34	1.53	1.57

OpenDataSoft

Data as a Service (DaaS)

Hosted enterprise solution

Query based API (3-Star)

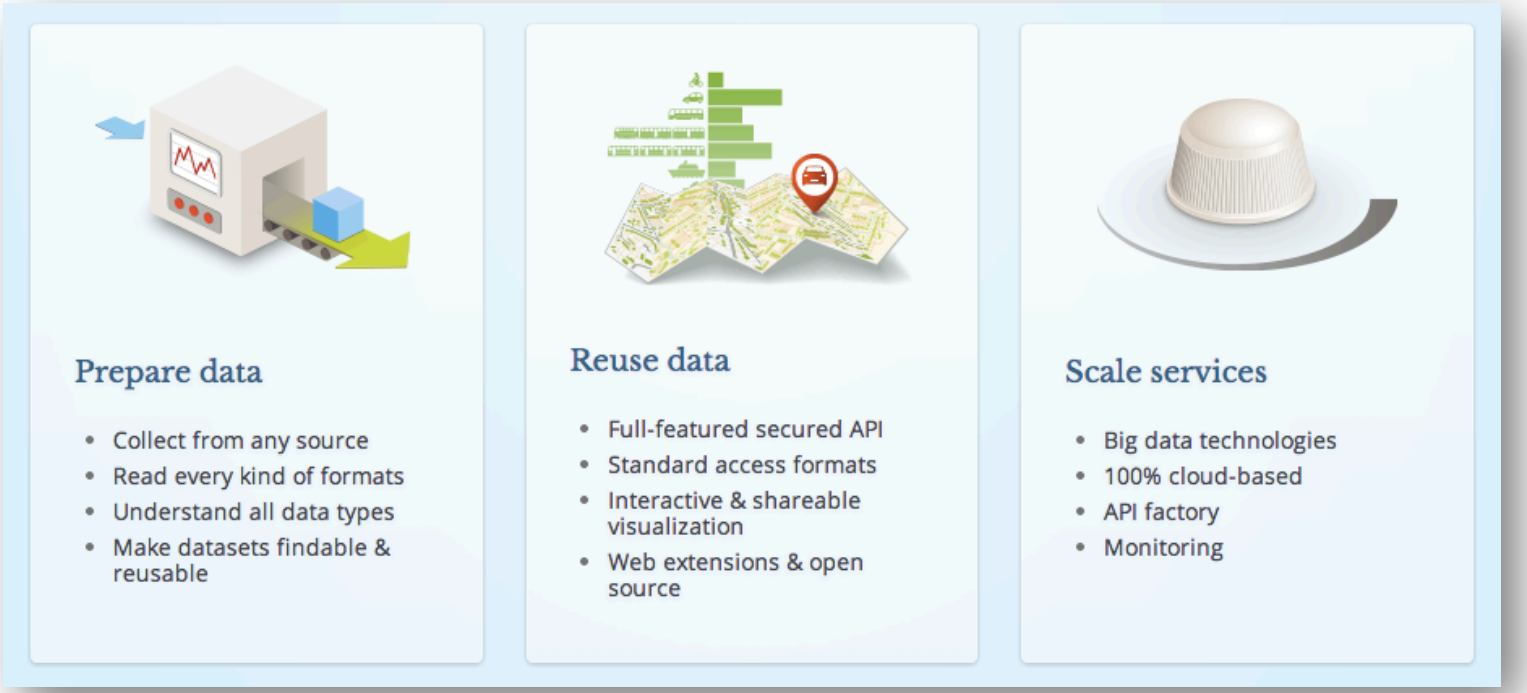
EU Based

Closed source

CC BY

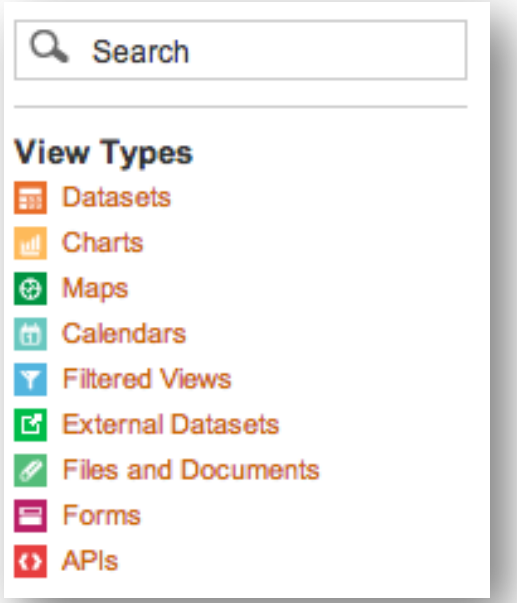
Content created by
The Open Data Institute

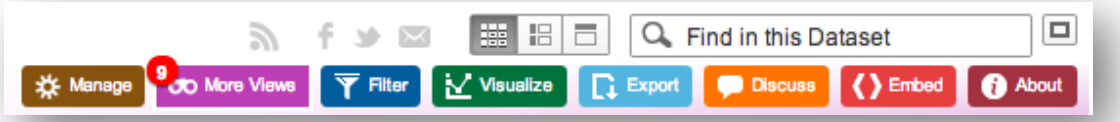
Features



Content created by
The Open Data Institute

Overview





Socrata

Data as a Service (DaaS)

Hosted enterprise solution

Allows user created content

Full linked API (5-Star)

US Based

Closed source

CC BY

Content created by
The Open Data Institute

Features

Data **Publishing**, Optimized for Business Users

Flexible **Metadata** Management

Federate Your Data With Other Organizations

Metrics of the Success of Your Initiative in Real-time

Anyone Can Create **Maps** and **Charts**

Data Becomes **Social**

Developers Are Supported Every Step of the Way

CC BY

Content created by
The Open Data Institute

The sliding scale of specialist solutions

1. Catalogue: Point to data (leave it at source)
2. Re-present: Provide data services (leave it at source)
3. Host the data: Be the source
4. Control the data: Be the authority
5. Be the hub: Host the data and processor

CC BY

Content created by
The Open Data Institute

Integrated solutions

Integrated solutions expose data using the current infrastructure (web pages).

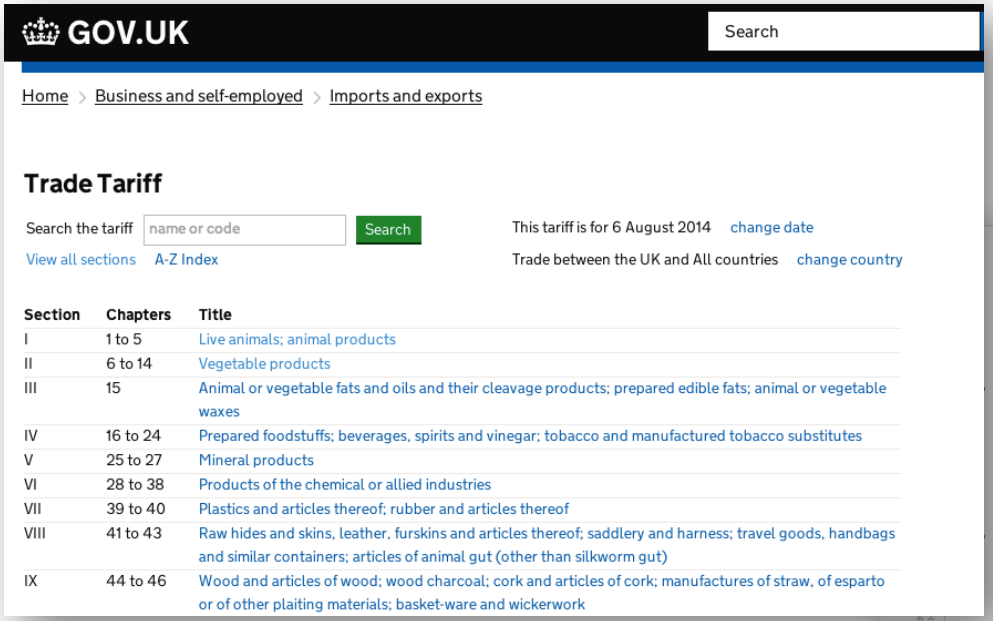
Data driven web site

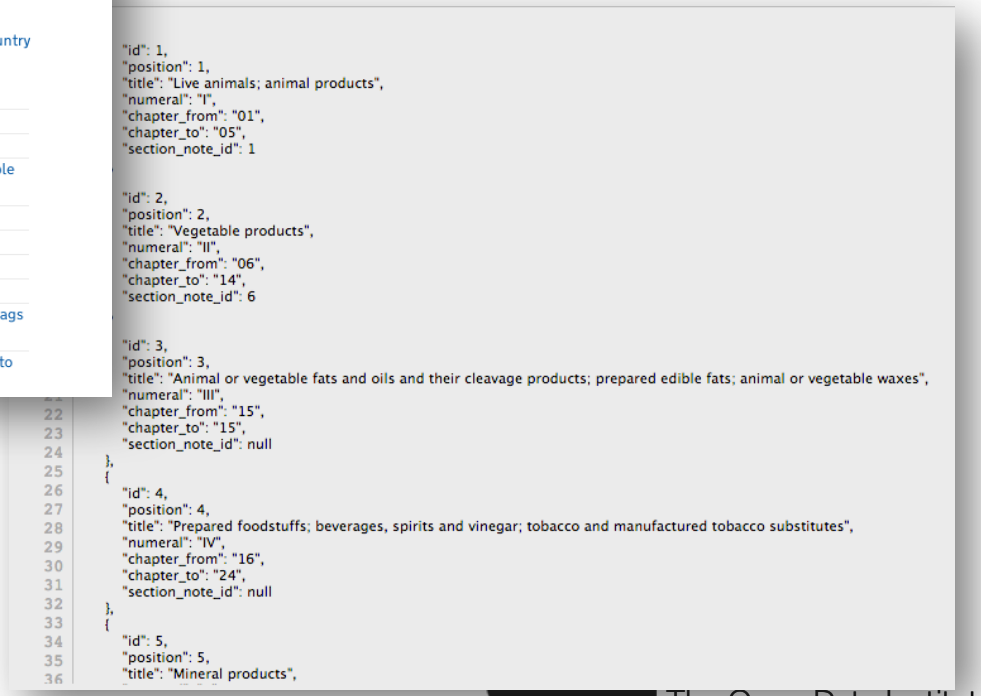
Best for reference and live data

CC BY

Content created by
The Open Data Institute

The developers secret





CC BY

The Open Data Institute

Linked data

Amazing but challenging to publish and use

CC BY

The Open Data Institute

Formats, Structures and Files

Data formats are complex and have ~~suffered~~ benefited from years of development in many different domains.

One thing is bringing them all together.

CC BY

Content created by
The Open Data Institute

Recap

Specialist Solution	Integrated Solution
+ Easy to get setup and maintain. + Open Data focused + Clear workflows for publishing open data + Visualisation tools + Data mashing tools + Best for transactional data	+ No new platform to learn + Data is provided in parallel to web pages + No separation from authoritative data + Easy discovery of data + Best for reference data + Best for Linked Open Data

Both great for open data

Integrated solutions more suited for building a web of linked data

CC BY

Content created by
The Open Data Institute

Exercise

Each table will have one of the publication platforms to explore.

Your task is to publish a prescribed dataset on this platform, with an associated open data certificate.

CC BY

Content created by
The Open Data Institute