Session 3
Data Publication Platforms
Understand the difference between “data on the web” and the “web of data”
Evaluate a number of different approaches for publishing open data.
Publish a dataset on one of the many available platforms.
## Types

<table>
<thead>
<tr>
<th>Specialist Solution</th>
<th>Integrated Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>+ Easy to get setup and maintain.</td>
<td>+ No new platform to learn</td>
</tr>
<tr>
<td>+ Open Data focused</td>
<td>+ Data is provided in parallel to web pages</td>
</tr>
<tr>
<td>+ Clear workflows for publishing open data</td>
<td>+ No separation from authoritative data</td>
</tr>
<tr>
<td>+ Visualisation tools</td>
<td>+ Easy discovery of data</td>
</tr>
<tr>
<td>+ Data mashing tools</td>
<td>+ Best for reference data</td>
</tr>
<tr>
<td>+ Best for transactional data</td>
<td>+ Best for Linked Open Data</td>
</tr>
</tbody>
</table>
Key characteristics of specialist solution

1. Separate from your main org website

2. Designed to publish open data, not to fulfill other organisation goals

Examples: data.gov.uk | data.cityofchicago.org | data.sncf.com
Key characteristics of integrated solution

1. It is your main website

2. Publishes data alongside everything else that the organisation does

Examples: bbc.co.uk/programmes | southampton.ac.uk | gov.uk
Merging specialist and integrated

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

Example: [West Sussex Country Council](https://westsussexcountrycouncil.gov.uk)

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

Example: [southampton.ac.uk](https://www.southampton.ac.uk)
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
Specialist Solutions

comprehensive knowledge archive network

http://www.flickr.com/photos/okfn
Open Knowledge Foundation Supported
Data Catalogue
Open Source
Feels like a record manager
Simple API and search
Lots of community tools

http://demo.ckan.org/
Evolution of CKAN

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
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
Open Data Soft

**Prix des carburants - J-7**

<table>
<thead>
<tr>
<th>Nom</th>
<th>Marque</th>
<th>Carburant</th>
<th>Prix Gazole</th>
<th>Prix SP95</th>
<th>Prix SP98</th>
</tr>
</thead>
<tbody>
<tr>
<td>MME POGGIO</td>
<td>Total</td>
<td>Gazole</td>
<td>1.35</td>
<td>1.56</td>
<td>1.63</td>
</tr>
<tr>
<td>RELAIS HAGONDANGE</td>
<td>Total</td>
<td>Gazole/E10</td>
<td>1.367</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AGIP CAVALLON CLEMENCEAU</td>
<td>Agip</td>
<td>Gazole/E10/SP98</td>
<td>1.36</td>
<td>1.59</td>
<td></td>
</tr>
<tr>
<td>Carrefour Market</td>
<td>Carrefour Market</td>
<td>Gazole/SP95</td>
<td>1.337</td>
<td>1.589</td>
<td>1.58</td>
</tr>
<tr>
<td>INTERMARCHE RABASTENS</td>
<td>Intermarché</td>
<td>Gazole</td>
<td>1.317</td>
<td>1.519</td>
<td>1.539</td>
</tr>
<tr>
<td>DAINVILDDS</td>
<td>Leclerc</td>
<td>SP95</td>
<td>1.476</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LES BERALLIENS</td>
<td>Total</td>
<td>Gazole/E10/SP98</td>
<td>1.36</td>
<td>1.59</td>
<td></td>
</tr>
<tr>
<td>Avia lecourbe</td>
<td>Avia</td>
<td>Gazole</td>
<td>1.46</td>
<td>1.7</td>
<td>1.72</td>
</tr>
<tr>
<td>Sari STATION KLEBER</td>
<td>Elan</td>
<td>Gazole/SP95/SP98</td>
<td>1.79</td>
<td>1.94</td>
<td>1.96</td>
</tr>
<tr>
<td>BP PARIS PAUL DOUMER</td>
<td>BP</td>
<td>Gazole/E10</td>
<td>1.439</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RELAIS TOTAL MARECHAL DAVOUT</td>
<td>Total</td>
<td>Gazole/E10/SP98</td>
<td>1.365</td>
<td>1.648</td>
<td></td>
</tr>
<tr>
<td>ESSO DU MIN</td>
<td>Esso Express</td>
<td>E10</td>
<td>1.222</td>
<td>1.502</td>
<td></td>
</tr>
<tr>
<td>INTERMARCHE LILLEBONNE</td>
<td>Intermarché</td>
<td>Gazole/SP95/SP98</td>
<td>1.259</td>
<td>1.499</td>
<td>1.529</td>
</tr>
<tr>
<td>CARREFOUR GRUCHET</td>
<td>Carrefour</td>
<td>Gazole/SP95</td>
<td>1.189</td>
<td>1.429</td>
<td>1.529</td>
</tr>
<tr>
<td>SARL PICHON</td>
<td>Avia</td>
<td>Gazole/SP95/SP98</td>
<td>1.34</td>
<td>1.53</td>
<td>1.57</td>
</tr>
</tbody>
</table>
Open Data Soft

Data as a Service (DaaS)
Hosted enterprise solution
Rich Interface
Query based API (3-Star)
Open Data Soft

**Prepare data**
- Collect from any source
- Read every kind of formats
- Understand all data types
- Make datasets findable & reusable

**Reuse data**
- Full-featured secured API
- Standard access formats
- Interactive & shareable visualization
- Web extensions & open source

**Scale services**
- Big data technologies
- 100% cloud-based
- API factory
- Monitoring
Open Data Soft

Data as a Service (DaaS)
Hosted enterprise solution
Rich Interface
EU Based
Query based API (3-Star)

Closed Source (main product)
Data as a Service (DaaS)
Hosted enterprise solution
Allows user created content
Full linked API (5-Star)

https://opendata.socrata.com/
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
Data as a Service (DaaS)
Hosted Solution
Clean Interface
Powerful API (SODA)

Closed Source (main product)
US Based
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
Specialist Solutions

ckan

comprehensive knowledge
archive network

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

OpenDataSoft

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

Data driven web site

Best for reference and live data
The developers secret
Linked data

Amazing but hard to publishing and use.
Data formats are complex and have benefited from years of development in many different domains.

One domain is bringing them all together…
## Recap

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

Both great for open data

Integrated solutions more suited for building a web of linked data
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.
Outcomes

Understand the difference between “data on the web” and the “web of data”

Evaluate a number of different approaches for publishing open data.

Publish a dataset on one of the many available platforms.
Thank-you