





from existing data.





Stats package

**Open Data** 

Visualisation/ Infographics

Publish to Website

**Mobile App** 

Reporting

# Open Data

**Spreadsheets** 

**Biz Apps** 

**Legacy DB** 

Log files

**Cloud APIs** 

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# The V's of Big Data Open Data

1. Volume

2. Velocity

3. Variety

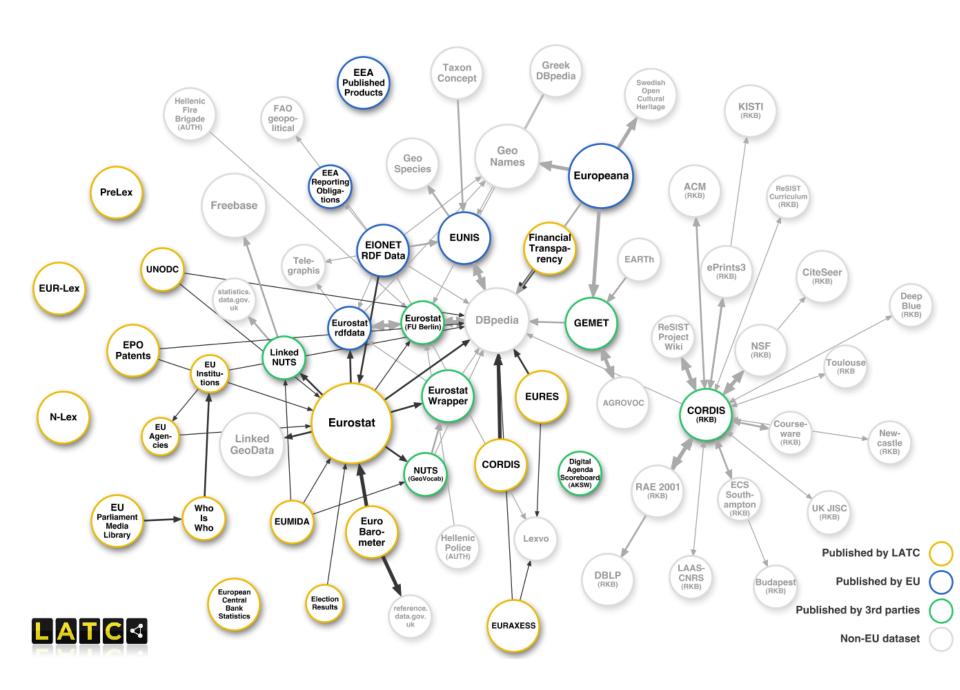


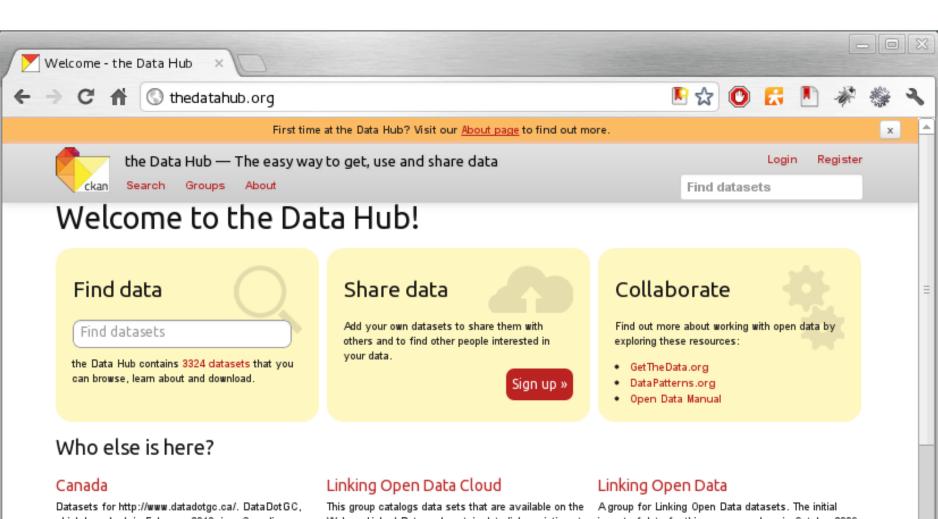
Catalogs

Standards

Tools

Community





Datasets for http://www.datadotgc.ca/. Data Dot GC, which launched, in February 2010, is a Canadian, citizen-led effort to promote open data and help share data that has already been...

Canada has 523 datasets.

### Bibliographic Data

This group comprises open bibliographic datasets according to the Principles on Open Bibliographic Data and a few not yet really open bibliographic datasets. It This group catalogs data sets that are available on the Web as Linked Data and contain data links pointing at other Linked Data sets. The descriptions of the data sets in this group are...

Linking Open Data Cloud has 326 datasets.

### Climate Data

Weather, temperature, carbon, water, soil and all other kinds of climate related open data. Including (but not limited to) data about: the atmosphere the weather... A group for Linking Open Data datasets. The initial import of data for this group was done in October 2009 from the list of RDF datasets dumps provided by the W3C Linking Open Data...

Linking Open Data has 81 datasets.

### OpenSpending

Datasets to be imported to the OpenSpending.org site. Packages listed here will automatically be available for selection in the OpenSpending web importer.

thedatahub.org/group/lod

### prefix.cc

namespace lookup for RDF developers

adms	look up

examples: foaf foaf:knows dc,foaf rdfs,dc,foaf,geo.sparql http://xmlns.com/foaf/0.1/name

popular latest about | prefix.cc

- Namespace registry for RDF/SPARQL users
- Side effect: Create database of vocabularies





# Metadata standards Open Data

DCAT — Data Catalog Vocabulary

**VoID** — **Vocabulary of Interlinked Datasets** 

**DDI Discovery Vocabulary** 

**Data Cube Vocabulary** 

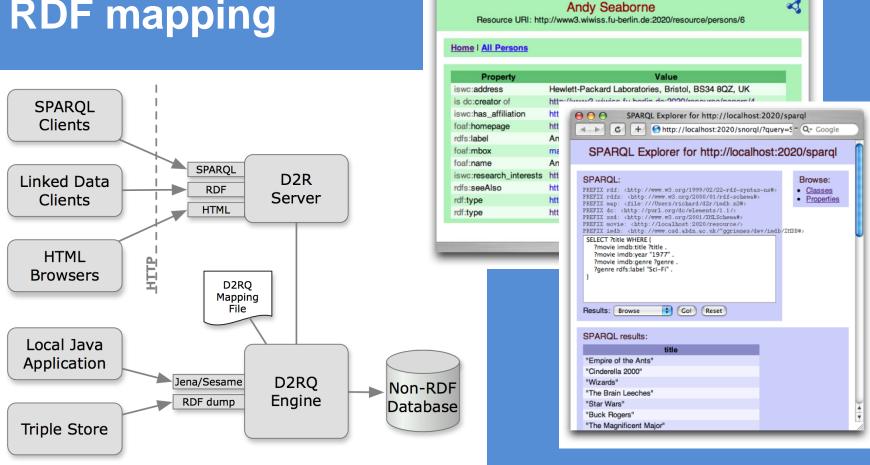
### D2RQ

## Open Data

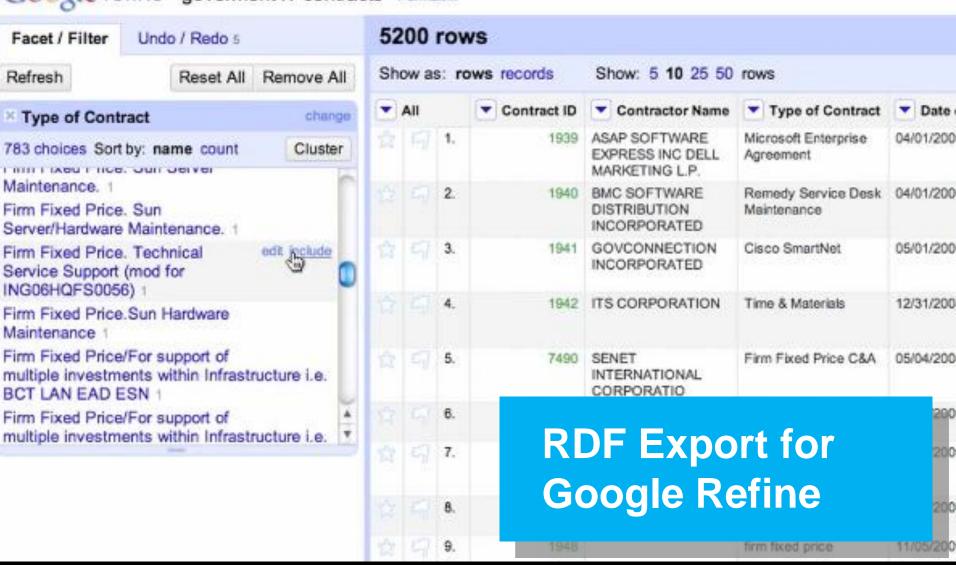
Andy Seaborne | D2R Server

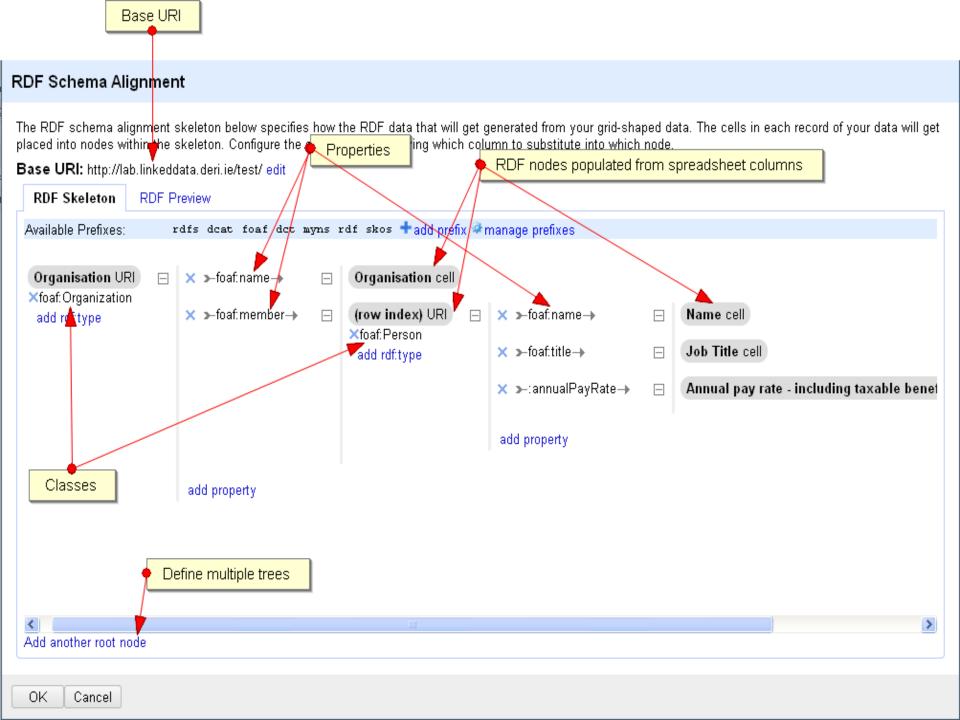
foogle http://www3.wiwiss.fu-berlin.de:2020/pag of a Q- Google





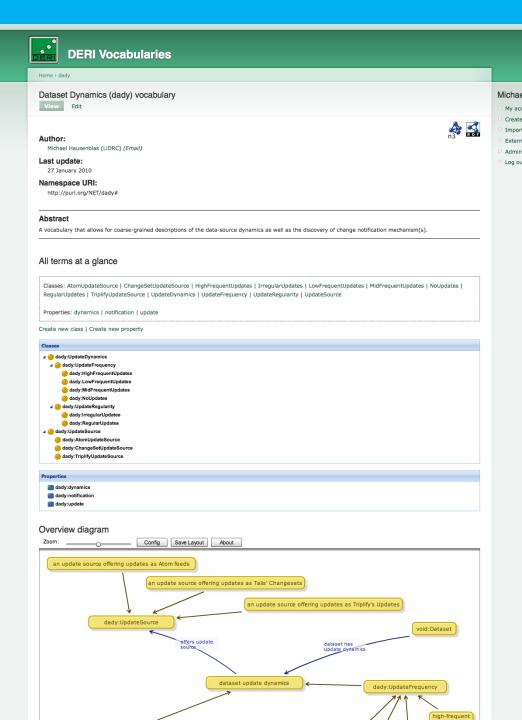
### Google refine government IT contracts Permaink





## Neologism

RDF Schema Vocabulary Editor and Publishing System



## Great stuff, but...



### Great stuff, but...



### This is still a full-time job!

- Many separate tools that require setup and have their own learning curve
- Command-line interfaces, complex languages
- Web server configurations for publishing data and vocabularies according to best practices
- Difficult to transfer this knowledge to our partners

### **ODPP: Open Data Publishing Pipeline**

**Automated discovery** 

Catalogue

Reformat

**Standardise** 

**Publish** 



- Web-based data publishing platform
- Map input data (relational, CSV, Excel) to semantic standards
- Visual mapping editor and vocabulary search, based on UML

### **Open Data Publishing Pipeline**



- Already knows all (?) semantic standards that have been published as RDF Schemas
- Special support for generating SKOS,
  Data Cube and Schema.org
- Under the hood: proven open-source technologies

### **Open Data Publishing Pipeline**

## **ODPP Development**



**Under development since early 2013** 

Trials with LGMA, Galway and Fingal CCs

Public beta in Q3

How would you use ODPP?



