AKTing for the Consumer

Knowledge management is all about delivering data to the right person at the right time and in the right format.

Yet there are massive amounts of very valuable data stored in inaccessible databases, and written in machine-unreadable formats. The applications below attempt to unlock the potential of some of this data, and serve it back to the consumer.

AKTive PSI

Funded by the Office of Public Sector Information (OPSI) to demonstrate how Semantic Web technology can be used by government to *unlock the potential of public sector information*

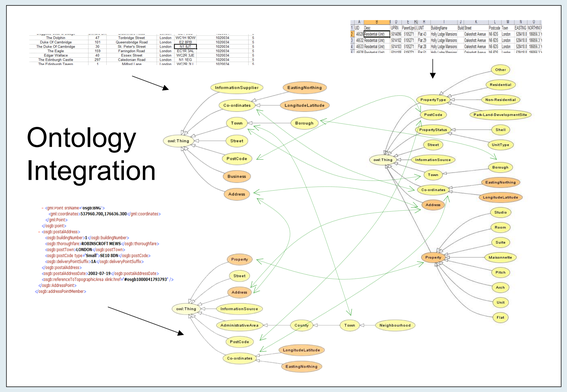
Show how information in existing government databases can be made available in scalable semantic knowledge bases

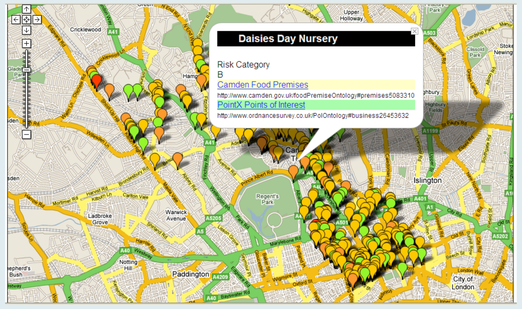
Build no-frills, low-cost, ontologies to represent individual datasets

Show how all the ontologies and knowledge bases can be mapped together to create an extended knowledge network

Demonstrate what and where is the added value of using this technology

Identify knowledge gaps between government agencies, and how such gaps can be filled using Semantic Web technology





Increasing Public Awareness

A mashup as an example of added value: Camden's Food premises database provides food hygiene check results, but it lack geographical coordinates

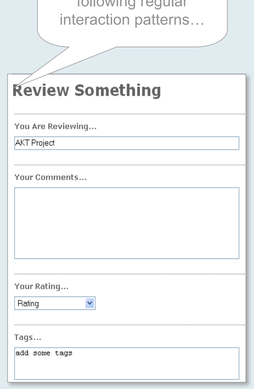
This data can be *mashed up* with Ordnance Survey datasets to retrieve the missing information

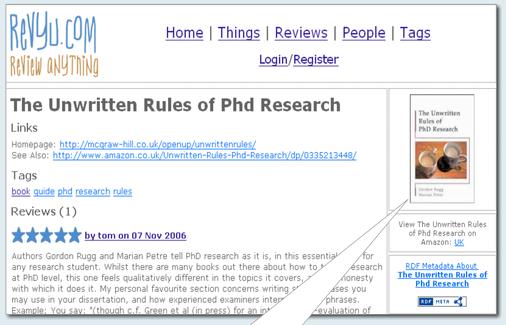
Result is a map with locations of food premises in Camden, coloured according to their total score of hygiene

ReVyu.com Review anything

A reviewing site with the simplicity of Web2.0, built on a Semantic Web backend…

..creates Semantic Web data from user input, by following regular interaction patterns…



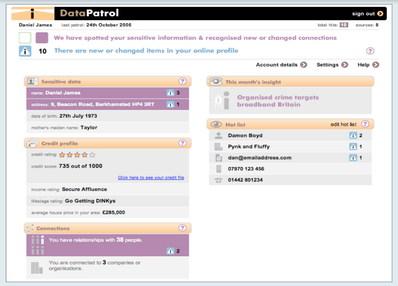


…and links it with external Semantic Web data sources…

…to enhance the site for human users…

…and build a web of linked, machine-readable data.

garlik



About Garlik

Online consumer business

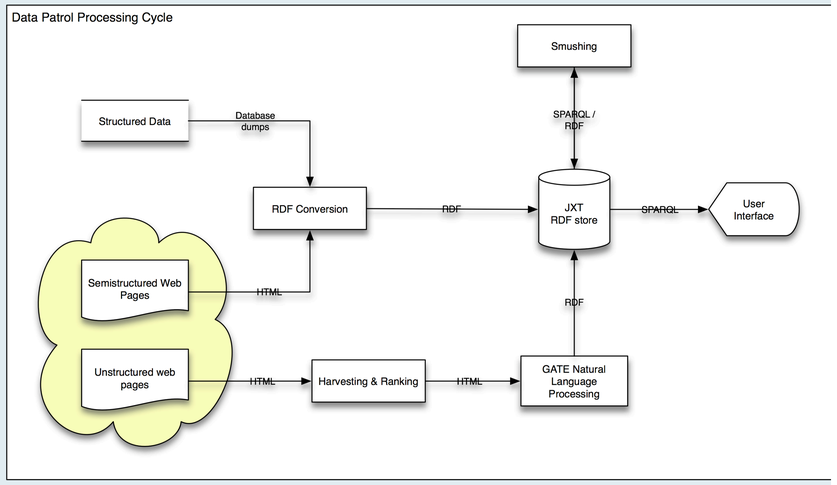
£9M in venture capital

Over 50,000 registered customers

Coverage in national newspapers, television and radio

Named as #1 UK web 2.0 startup by The Register

Red Herring Europe 100 award.



Capabilities and experience taken from AKT

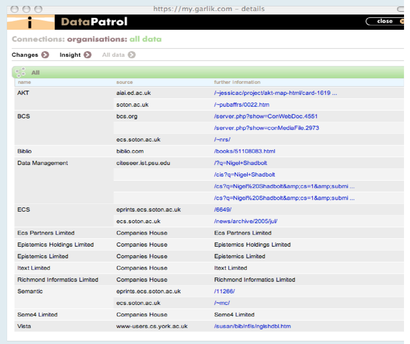
DP processing model
- Takes lessons from CS AKTiveSpace

GATE natural language processing technology
- Runs across cluster

Developing AJAX applications on SPARQL

Pragmatic ontology design representation issues

Development of large scale RDF stores
- Clustered - 4+ machines
- Replication for high availability
- Scalable - stores up to 60GT
- High performance - 140kT/s import speed
- Implements majority of SPARQL



ADVANCED KNOWLEDGE TECHNOLOGIES

University of Southampton

The Open University

garlik powerful stuff

Office of Public Sector Information

EPSRC Engineering and Physical Science Research Council