



Opening up data for transparency and re-use

Information Sheet

OpenUp[®] Platform

What is the OpenUp Platform?

The OpenUp Platform is a collection of integrated cloud based services available as Software as a Service (SaaS) allowing fast deployment at a reasonable cost. Together, the services provide a highly scalable and resilient platform that allows you to store, retrieve, query and enrich your data:

■ RDF Store for Linked Data

To handle the linked data aspects of OpenUp, we provide an RDF datastore to hold RDF and make it available to query. Our datastore offering is built around 5Store, a highly scalable, clustered, commercial database storage and query engine that hosts RDF data. 5Store was designed and developed by Garlik, leaders in semantic technology. TSO's RDF store is designed to scale to well over a trillion triples.

We provide a number of standards based data access and query options including SPARQL for easy integration with new and existing applications.

■ Data Harvesting

A database is no use without any data. Our harvesting system can pull data from the web or from supplied files and provides an increasingly sophisticated means of controlling the acquisition of data.

For example it is possible to schedule data collection at a predetermined time each day, or, as another example, it is also possible to throttle the level of requests so that a system is not overloaded. We can work with you to create a harvesting system that works for your data.

■ Data Enrichment Service (DES)

If you are handling mainly unstructured text that you know has information hidden away inside it, then the Data Enrichment Service available within the platform will help you to get at that information. It does this by 'extracting' useful items of information, such as peoples' names, organisations or places. The extracted information can be made available in a variety of formats to suit the requirements of the user.

One of the formats that is available is RDF/XML. This information can then be stored in the RDF store making it available for querying. The combination of extraction and RDF store provides a powerful approach to maximising the information potential of documents.

TSO's standard Data Enrichment Service is free to use. For data publishers needing to enrich more than 10,000 documents per day with an SLA, we can offer the Professional version of the Data Enrichment Service for a monthly fee.

■ Professional Services

We have a team of talented developers who can help you to capture, transform and deliver your data in the most efficient way and in line with the Public Sector Transparency Board Principles. We have already delivered a range of projects for our clients including the creation of APIs to access linked data.

■ Web Development and Hosting

Having opened up your data, we can also help to develop and host the resulting web applications. We can create websites and host them with our website hosting service, certified to ISO 27001 Information Security Standard.

■ Scalability and Resilience

At the heart of the platform is the ability to scale – and to do so in a resilient manner. The platform can be expanded at all levels so if a client has particular needs then we can expand that part of the system. If required, we can provide dedicated hardware for you for those parts of the system where you need that extra level of performance.

In addition the platform will provide geographic failover so that, in the event of disaster at one data centre there is the reassurance that downtime will be minimal.

■ Future Developments

Although our platform already provides powerful capabilities we have lots more planned! We will be bringing the following on-stream over the next few months:

- Push data into the system
- Push data to other systems as new data arrives
- A suite of management tools

Find out more

To find out more about how TSO can help to create and enrich data, visit <http://openup.tso.co.uk>

To discuss your requirements with one of our experts please email opendata@tso.co.uk