

Semantic Reports

Make sense out of your data

Problem

- Increasingly available
 - Open government data (data.gov.uk)
 - Data APIs (graph.facebook.com)
 - Screenscraped data (dataincubator.org)
- Potentially available
 - Any relational database (RDB) via an adapter
- Lack of tools (to make sense of it)
 - Analyze (query, filter, sort, group) data
 - Mashup different datasources
 - Visualize data

Solution

- Provide a report service
 - Creation and storage of interactive reports and visualization widgets
 - Based on Software-as-a-Service model
 - Accepts both public and private datasources
 - Suitable for public/restricted/internal access
 - Datasource-independent
 - Dataset-independent
 - Socially-enabled
 - API-enabled

Use case #1: Startups & small biz

- Copy-editing service wordy.com needs to visualize API analytics
- Common solution
 - Pay PHP/MySQL/JavaScript developer(s)
 - Implement custom code for each visualization
 - Test and deploy
- With Semantic Reports
 - Provide database connection
 - Define queries
 - Embed visualizations on site

Use case #2: Research

- Research DB [Enipedia](#) needs to combine, visualize & publish energy industry data
- Common solution
 - Download, convert & integrate database(s)
 - Implement custom code for each visualization
 - Integrate with existing site or develop new site
- With Semantic Reports
 - Provide database connection
 - Define queries over several (remote) datasources
 - Publish stored report & embed visualizations on site

More use cases

- Public institution is required to publish data online
- Real estate website/agency wants to enrich its ads by combining them with public data
- Medical website is looking into more interactive ways to publish data than HTML or XLS

Revenue Streams

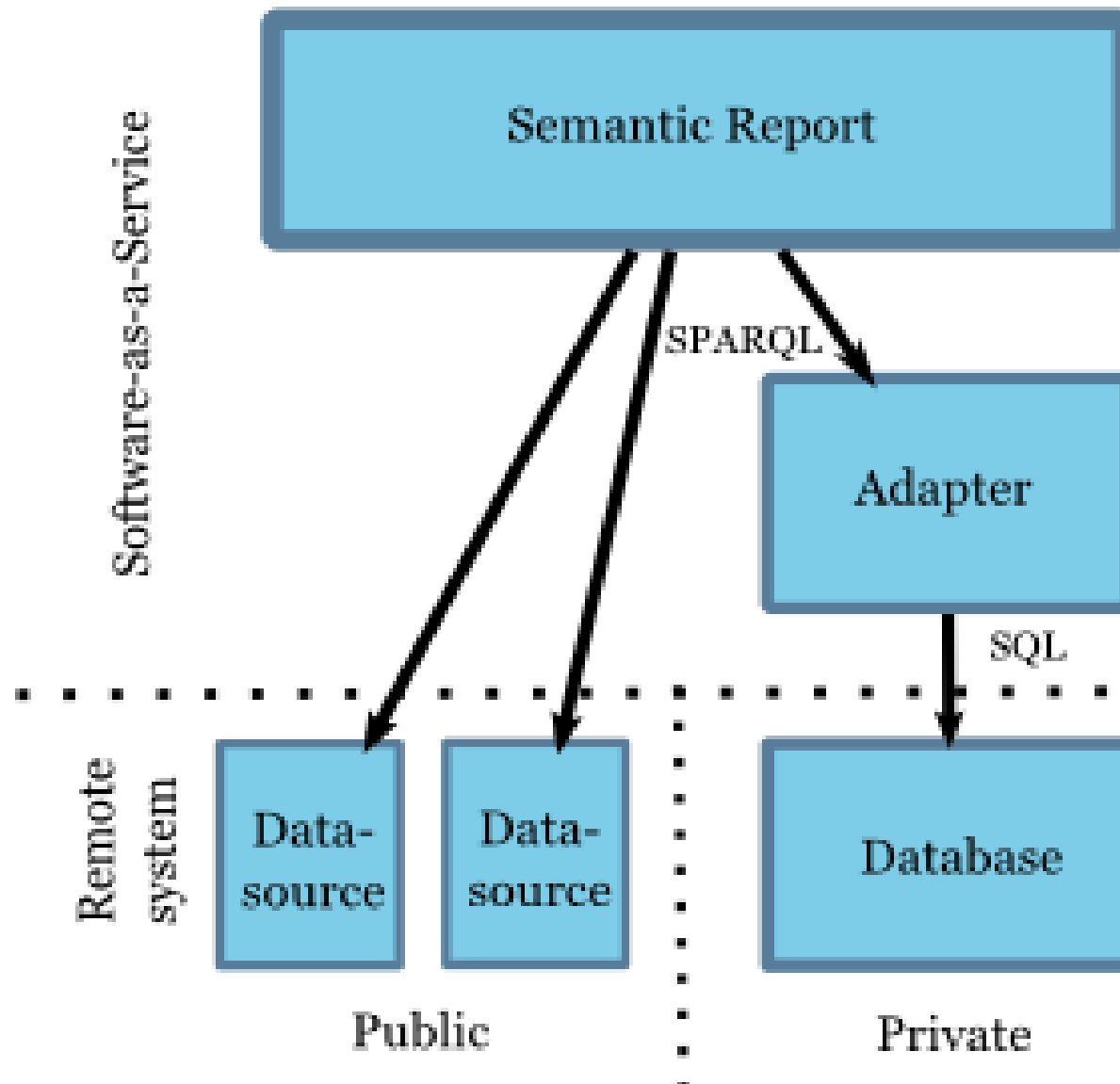
- Free for public use
- Subscription fee
 - For private datasources
 - For internal use (e.g. inside the company)
- Revenue cut
 - For restricted (pay-per-view) reports

Customer Aquisition

Competitive Edge

- Use of semantic technologies enables
 - Genericness (data-independence)
 - Any SPARQL endpoint can be used as datasource
 - Any RDB can serve as SPARQL endpoint (via adapter)
 - Real-time access
 - Adapter provides real-time SPARQL access to RDB
 - Distributedness
 - All datasources are hosted remotely
 - Only very little data needs to be stored in the system
 - Reuse and standard-compliance
 - RDF and SPARQL tools and services can be reused

Architecture



Features

- Simple
 - Public/group/private reports
 - Categories, ratings, comments
 - Embeddable visualizations
 - Export as file (PDF, XLS, XML, etc)
- Advanced
 - Data filters/interactive query editor
 - Combining datasources (federated queries)
 - Choice of visualization toolkits

Prototype testimonials

- *„This looks really cool. How did you specify the kinds of visualizations per query in your data model?“* Dr. Holger Knublauch, VP of Product Development at [TopQuadrant](#)
- *„I love how it is entirely agnostic as to what the data is about or how it is structured.“* Joshua Tauberer, open data activist, CTO at [POPVOX](#)
- *„One of the things we're looking at is visualisations of data - so your project rang some bells!“* Julian Higman, tech. lead at [Talis](#)

Competitors

- Socrata
- Factual
- Swivel
- LogiXML
- Tableau Public