



Vision

While a large number of datasets have been published as open (and often linked) data in the recent years, applications utilising these open and distributed data have been rather few, which can be explained by the challenges encountered in the area of data publication and consumption.

The DaPaaS (Data- and Platform-as-a-Service) project will deliver an environment where developers can both publish and host data-sets and data-intensive applications, which can then be accessed by end-user applications in a cross-platform manner. The resulting platform will reduce the complexity of open data publishing and consumption, thus making these activities easier and cheaper for SMEs and small public bodies which otherwise may not have sufficient expertise and resources to do so.

Data as a Service

The data layer (DaaS) will offer a publishing infrastructure that features components for large-scale data replication, versioning, analysis, and data access APIs, with primary focus on Linked Data (RDF).

Platform as a Service

The platform layer (PaaS) will provide efficient datastore access, data import and transformation services, reporting services, data enrichment and linking, search and indexing, and caching.

The DaPaaS UX layer will provide the means for consumers to access, navigate and explore the data both through open data portals and mobile services. Publishers will have access to an additional interface for data integration, transformation, enrichment and clean up. To create the DaPaaS platform, the project will address various components and activities dealing with the life-cycle for open data publishing and consumption.

The DaPaaS platform aims at overcoming some of the main current challenges regarding uptake of Open Data publishing and consumption. DaPaaS will achieve:

- **A reduction in the cost for SMEs and public organisations** which lack sufficient expertise and resources to publish open data.
- **A reduction on the dependency** of open data publishers on generic Cloud platforms to build, deploy and maintain their open/linked data from scratch.
- **An increase in the speed of publishing** new datasets and updating existing datasets through the provision of a sound methodology and integrated toolset.
- **A reduction in the cost of developing** applications that use open data by providing an integrated platform where infrastructure and 3rd party value added services and components can be reused.
- **A reduction in the complexity** of developing applications that use open data by creating a set of cross- platform and mobile widgets and components utilizing the open data sets on the platform which can be used by application developers.
- **An increase in the reuse of open data** by providing fast and seamless access to numerous open data sets to the applications hosted on the DaPaaS platform.

DaPaaS at a glance

Project title:

“Data Publishing through the Cloud: A Data- and Platform-as-a-Service Approach for Efficient Data Publication and Consumption” (DaPaaS)

Project reference:

610988

Project co-ordinator:

SINTEF

Partners:

Stiftelsen Sintef (Norway)
Ontotext AD (Bulgaria)
Swirrl IT (UK)
Sirma Mobile AD (Bulgaria)
Saltlux Incorporated (Republic of Korea)
Open Data Institute (UK)

Duration:

24 months (start date 01/11/2013)

Cost:

€2,173,746 (EU contribution: €1,499,000)

Website:

dapaas.eu / project.dapaas.eu