



OpenCube

Publishing and Enriching Linked Open Statistical Data for the Development of Data Analytics and Enhanced Visualization Services

Deliverable 6.1

OpenCube Fact Sheet

Editor(s):	Efthimios Tambouris (CERTH)
Responsible Partner:	CERTH
Version-Status:	V2 Final
Date:	14/11/2014
Dissemination level:	PU

Deliverable factsheet

Project Number:	FP7-611667
Project Acronym:	OpenCube
Project Title:	Publishing and Enriching Linked Open Statistical Data for the Development of Data Analytics and Enhanced Visualization Services

Title of Deliverable:	D6.1 – OpenCube Fact Sheet
Date of Delivery to the EC:	14/11/2014

Workpackage responsible for the Deliverable:	WP6 – Project Management
Editor(s):	Efthimios Tambouris
Contributor(s):	Efthimios Tambouris, Konstantinos Tarabanis
Reviewer(s):	-
Approved by:	All Partners

Abstract:	OpenCube aims at developing software tools for publishing and reusing Linked Statistical Data. This deliverable outlines the project's rationale and objectives. It also presents the pilots that will be conducted during the project along with the expected main outcomes.
Keyword List:	Fact sheet, OpenCube, dissemination.

Consortium

	<i>Role</i>	<i>Name</i>	<i>Short Name</i>	<i>Country</i>
1.	Coordinator	Centre for Research and Technology - Hellas	CERTH	Greece
2.	R&D partner	National University of Ireland, Galway	NUIG	Ireland
3.	SME partner	Fluid Operations AG	FLUIDOPS	Germany
4.	SME partner	SWIRRL IT LIMITED	SWIRRL	UK
5.	SME partner	ProXML BVBA	ProXML	Belgium

Revision History

<i>Version</i>	<i>Date</i>	<i>Organisation</i>	<i>Description</i>
0.1	19/11/2013	CERTH	First draft
0.2	27/11/2013	CERTH, PROXML	Second draft
0.3	28/11/2013	CERTH, NUIG	Third draft
1	29/11/2013	CERTH	Final
2	20/11/2014	CERTH	Final after implementing PO's comments

Statement of originality:

This deliverable contains original unpublished work except where clearly indicated otherwise. Acknowledgement of previously published material and of the work of others has been made through appropriate citation, quotation or both.

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1 Project Fact Sheet

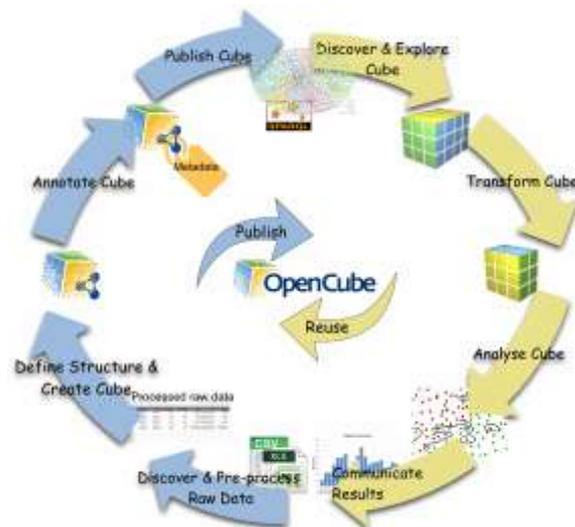
Governments, organisations and companies are increasingly opening up their data for others to reuse. A major part of Open Data concerns **statistics** such as population figures, economic and social indicators. Analysis of combined statistical open data could add value to both citizens and businesses in various areas such as business intelligence and evidence-based policy-making.



Recently, **Linked Data** emerged as a promising paradigm to enable the exploitation of the Web as a platform for data integration. The adoption of the Linked Data has promised to enhance the integration and analysis of statistical data at a Web scale. Statistical data, however, is typically organized in **data cubes** where a numeric fact is categorized by dimensions. Both data cubes and Linked Data introduce complexity that raises the barrier for opening up and reusing statistical data.

The specific objectives of OpenCube fall into the following categories:

- Lower the entrance barrier for linked statistical data publishers and users.
- Improve quality of statistical data published on the Web.
- Enrich statistical data with other data on the Web.
- Extract interesting and previously hidden insights into different areas through linked statistical data analytics and visualisations.



OpenCube will be evaluated and validated in three pilots.

The **UK Department for Communities and Local Government (DCLG)** is a central government department that already publishes thousands of statistical datasets, mainly in the form of Excel spreadsheets. DCLG pilot will evaluate both data cube creation and data cube visualisation and analysis tools on a selection of statistical datasets from the existing publication plan of the department. DCLG will use OpenCube extensions for PublishMyData and compare them against existing processes in terms of ease of use, reliability, ease of identifying and correcting errors.

The research centre of the **Government of Flanders** already publishes more than 1200 statistical datasets (mainly Excel spreadsheets) on its Open Data portal. The pilot will showcase how OpenCube extensions for Information Workbench support data journalists and citizens in exploring linked open statistical data to reveal new information and new insights. This pilot will also employ OpenCube toolkit to publish linked statistical data.

The **Irish Central Statistics Office (CSO)** has the mandate to collect, compile, extract and disseminate information relating to economic, social and general activities and conditions in Ireland. In the pilot, CSO will use the OpenCube toolkit to publish the Irish 2011 Census, as well as selected parts of the StatBank statistical database as Linked Data including the code lists and classifications used in the datasets. It will also employ OpenCube toolkit to reuse datasets in a scenario that requires geospatial analytics and forecasting.

OpenCube expected results are:

- The OpenCube toolkit comprising open-source standalone tools.
- The OpenCube extension of the **fluidOps' Information Workbench** platform.
- The OpenCube extension of the **Swirrl's PublishMyData** platform
- The OpenCube Pilots in three public authorities and businesses.

The outcome of OpenCube will offer a competitive advantage to the portfolio of the commercial project partners, as it will be the first comprehensive software solution for data analytics based on Linked Statistical Data. It will also enable public authorities to publish and exploit open statistical data of high quality using the OpenCube toolkit.

Project title:

OpenCube - Publishing and Enriching Linked Open Statistical Data for the Development of Data Analytics and Enhanced Visualisation Services

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Duration: November 2013 - October 2015

Further information: <http://opencube-project.eu>, <http://opencube-toolkit.eu>