



Monitoring, Analysis and Visualisation of Open Data Catalogues, Hubs and Repositories

Vision

Within a few years, the idea of open data has spread throughout Europe and produced extensive changes, especially in thinking about governmental data and how it can be used for better-informed decision making, holding organisations accountable and providing greater transparency of public-sector services. Open data also has the ability to empower businesses to be more efficient and innovative.

The OpenDataMonitor (ODM) project offers a ground-breaking new concept which will provide users with a platform that gives an overview of open data resources, and undertakes analysis and visualisation of existing data catalogues. The tool will be invaluable in providing comprehensive open data analysis to open data publishers, consumers, and wider stakeholders all over Europe.

Throughout the project, the partners will undertake research studies, detailed in the work packages below, that are of relevance to monitoring and further analysing open data. Using meta-data, parameters and key-indicators, the project will be able to perform a sophisticated analysis of available open data resources. For this purpose established open source software (such as CKAN) will be used throughout.

ODM will deliver a flexible open data analysis and monitoring tool that offers sophisticated methods to scan data catalogues, analyse meta-data and provide intuitive dashboards and comprehensive visualisations to compare existing open data resources. The tool will be invaluable in providing comprehensive open data analysis, an understanding of the national overview and emerging trends, both to publishers and wider stakeholders across Europe.

Work Packages

The project is structured into 5 work packages, which include:

- **Research studies and stakeholder analysis**, which will delve into current open data topologies, catalogues, metadata harmonisation, innovative monitoring methods, architectures and standards, best practice data visualisation, dashboards and key figures.
- **Concept design and software development**, which will document the exact technical specifications, use cases, mockups and functionalities as well as detailed interface designs and dashboard mockups, carrying out implementation of this concepts in parallel.
- **Demonstration and instructions**, which will focus on the deployment of the tool demonstrator, performing usability tests and undertaking feedback loops with selected end users to ensure an easy introduction to its usage. Partners will prepare intuitive user manuals, screencast tutorials and an official showcase of the product.
- **Dissemination and exploitation** which will use a range of tools to disseminate the outcomes of ODM to our identified community groups and users, including our website, project branding, media assets, distribution lists, publications, presentations and public events, such as our symposium.

At a Glance

<http://project.opendatamonitor.eu>

Project reference:
611988

Coordinator:
SYNYO GmbH

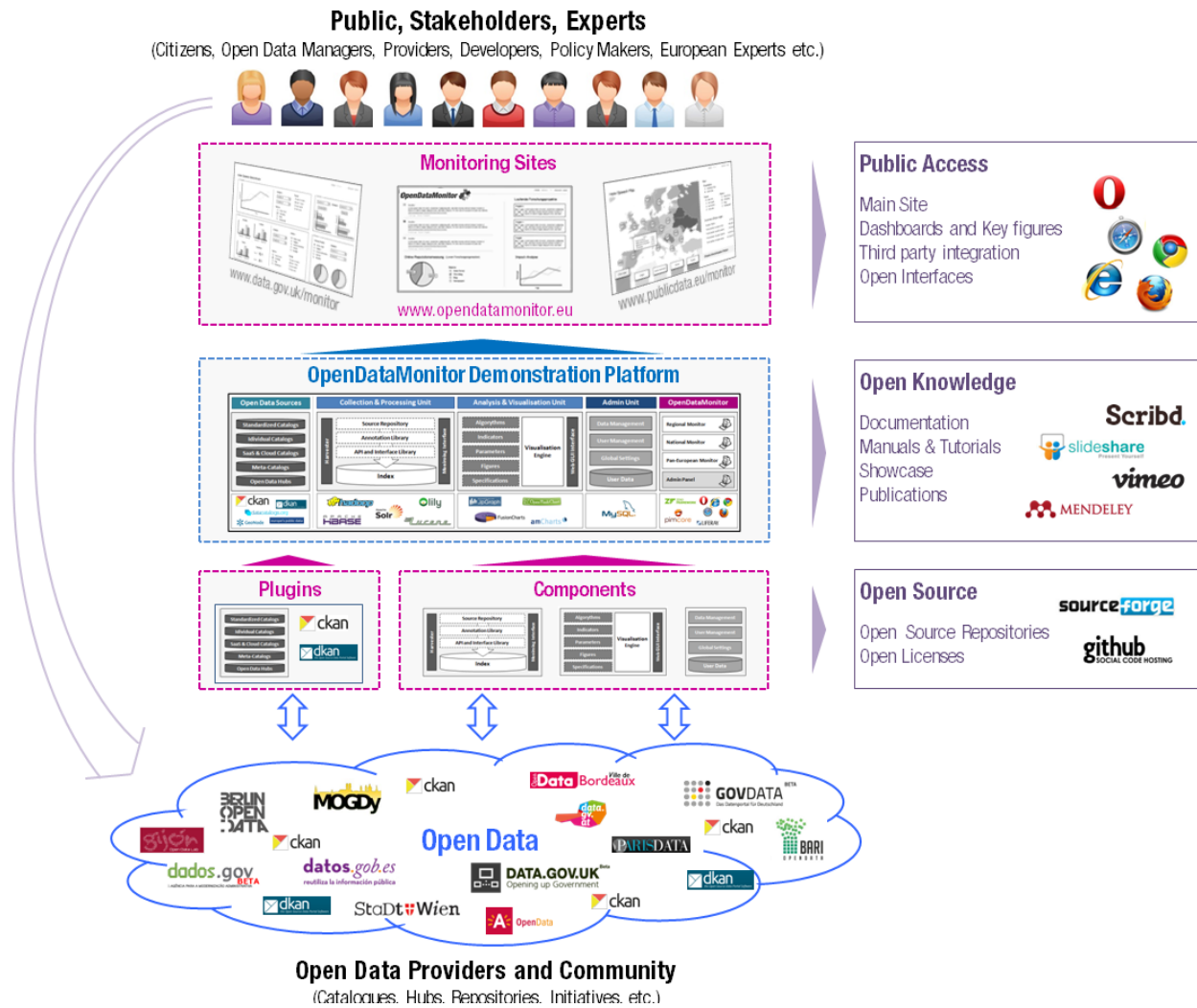
Start:
November 2013

Duration:
24 months

Consortium:
SYNYO GmbH - Austria
Open Data Institute - UK
Athena - Greece
University of Southampton - UK
IfG.CC - Germany
City of Munich - Germany
Red.es - Spain



Framework of OpenDataMonitor



The above figure depicts the conceptual framework of the OpenDataMonitor. In the first step, open data is aggregated from various sources (e.g. individual catalogues or huge open data hubs) for further structuring and analysis in the processing unit. An intelligent analysis engine will enable a number of functions on various levels. It will e.g. be possible to compare the open data landscape of various public bodies (national/local), indicate changes and updates of catalogues to show the quality of meta-data, sort available catalogues for specific thematic domains or to display the divergence among available open data of EU member states. In the second step, an integrated visualisation framework will allow the display of analysis results in various forms (such as charts and maps) to optimally support end users with useful information on open data resources and its evolution. All particular created plugins and components will be made publicly available for integration at local third party sites to visualise their open data as well as for meta instances at a European level. The Demonstration Platform www.opendatamonitor.eu will show all developments of the OpenDataMonitor project including showcases and a searchable listing of relevant European open data catalogues.



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Impact and Means of Achievement

OpenDataMonitor aims to overcome some of the main challenges in understanding the availability and gaps in open data. ODM will deliver a tool useful for a wide range of different end user types, with different purposes concerning open data. These users include: start-ups and entrepreneurs, policy makers, journalists, researchers and academics. Both publishers and consumers will benefit from the tool delivering:

- a richer understanding as to what datasets are available, at regional and national level, which will support increased reuse of these open data resources by a wide range of users, from developers, to government and public bodies and citizens.
- tools that support development of both sustainable and profitable open data policies and strategies, which will be enhanced through an understanding of the gaps in datasets, and areas to focus on.

Consortium:



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