

# PlanetData Large-scale Data Management

The PlanetData project aims to establish an interdisciplinary, sustainable European community of researchers, helping organizations to expose their data on the Web in a useful way.

PlanetData will push forward the state-of-the-art in large-scale data management and its application to the creation of useful, open data sets. This is motivated by the increasing reliance of business on large public data; the uptake of open data principles in many vertical sectors; and the need of research communities to make sense out of petabytes of scientific data, to describe and expose this data in ways that encourage and enable collaboration.



## Our Approach

Over the next four years, we will achieve our ambitious goals:

- ✔ By conducting interdisciplinary research on
  - the Web-friendly representation, robust integration, and scalable transmission, processing, and management of stream-like data, such as sensors, news stories, and microblog entries;
  - the assessment and improvement of the quality of large open data sets of various modalities, and the augmentation of these data sets with self-descriptive metadata giving an account of quality and contextual aspects; and
  - the accountable usage of Web-based data sets taking into consideration provenance, privacy, trust, and access rights.
- ✔ By applying this research to real-world data sets to derive best practices and guidelines for organizations owning or providing large amounts of data online.
- ✔ By building definitive vocabularies and assembling a catalogue of useful data sets complemented by software tools that support the data provisioning process.
- ✔ By providing world-class technology, supporting relational, RDF, and stream processing, such that research on large-scale data management can be tested and validated.
- ✔ By educating future researchers and potential adopters, and encouraging knowledge transfer and exchange through specifically targeted training, dissemination, and community building programs.
- ✔ By collaborating with interested parties worldwide through our PlanetData Programs.

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(Seventh Framework Programme)

**Area:** Intelligent Information Management (ICT-2009.4.3)

**Project reference:** 257641

**Total cost:** 3.72 million euro

**EU contribution:** 3.02 million euro

**Execution:** From 2010-10-01 to 2014-09-30

**Duration:** 48 months

**Contract type:** Network of Excellence

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## For whom

- ✔ For organizations interested to publish their data in a purposeful way.
- ✔ For researchers working on topics related to large-scale data management and concerned with staying up-to-date on the latest, cutting edge interdisciplinary research results in this area.
- ✔ For technology vendors considering extending their products and services with features, which leverage online data sets, and for businesses that need such functionality to make informed decisions.
- ✔ For collaborators anywhere in the world who care about being part of one of the most exciting developments of the World Wide Web in the last decade, the Web of data.

## By whom

**PlanetData** is carried out by a consortium of nine research partners with outstanding track records in shaping the future of the databases, large-scale stream processing, data mining, knowledge representation, Web reasoning, and Linked Open Data communities. In addition, collaboration with organizations worldwide is foreseen through our open partnership scheme.

## PlanetData Programs

Over the next four years, the **PlanetData** consortium will issue open calls to extend its expertise and to invite new partners to carry out certain tasks within the project. Selected partner(s) will be eligible for funding of research activities.

## Join PlanetData

The **PlanetData** partnership concept sustains the wide scope of relevance of the work carried out in the network, by forming an ecosystem around the core partners of the project, and helping to build a community taking an active interest in large-scale data management. **PlanetData** is open and committed to collaborate with any organization working on, or interested to gain familiarity with, research and development questions related to the topics addressed by, or complementary with, the network.

We cordially invite your organization to apply to become an official **PlanetData** associated partner. Applicants will be asked to document their interest in large-scale data management, highlighting what their organization can contribute to the **PlanetData** network. Promising applicants will be notified pending final approval from the PlanetData management board. Visit our website to apply.



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