Open Access Infrastructure for German Institutional Repositories

OAS — Open Access Statistics

Open Access Statistics aims at providing value added services like rankings, metrics and advanced search results for repository users based on usage data. One of the goals is to develop guidelines, help documents and software packages on how to set up a local repository, license server and/or link resolver to provide generalised usage data from log files via OAI. It will also set up a technical infrastructure to transfer usage data from local repositories to a central service provider.

At service provider level usage data will be processed to provide additional services to various communities such as scholary users and authors as well as repository hosts. As a result local repositories can retrieve that data from the central service provider to include in their repository user interface providing advanced services to their users.
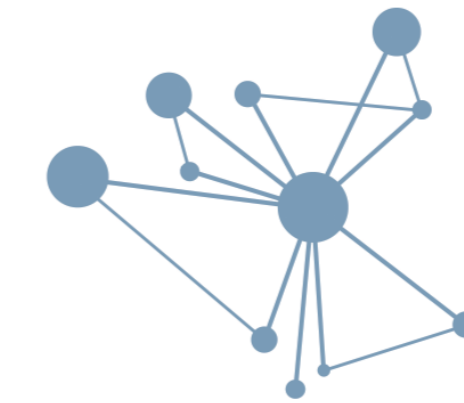
OAN — Open Access Network

OA-Network aims at enhancing the cross-linking and interaction of repositories in order to increase the visibility of the German research output nationally and internationally.

Cooperating in a virtual project association with OAS and DOARC it establishes an infrastructure for sharing value-added data and functionality. It uses the existing OAI-PMH interfaces to integrate repositories as data sources, starting with those that are already DINI-certified.

The network offers users value-added online services on top of a shared information space across all participating repositories. Service providers can utilize this infrastructure as a backbone to reuse and even contribute to the information space.
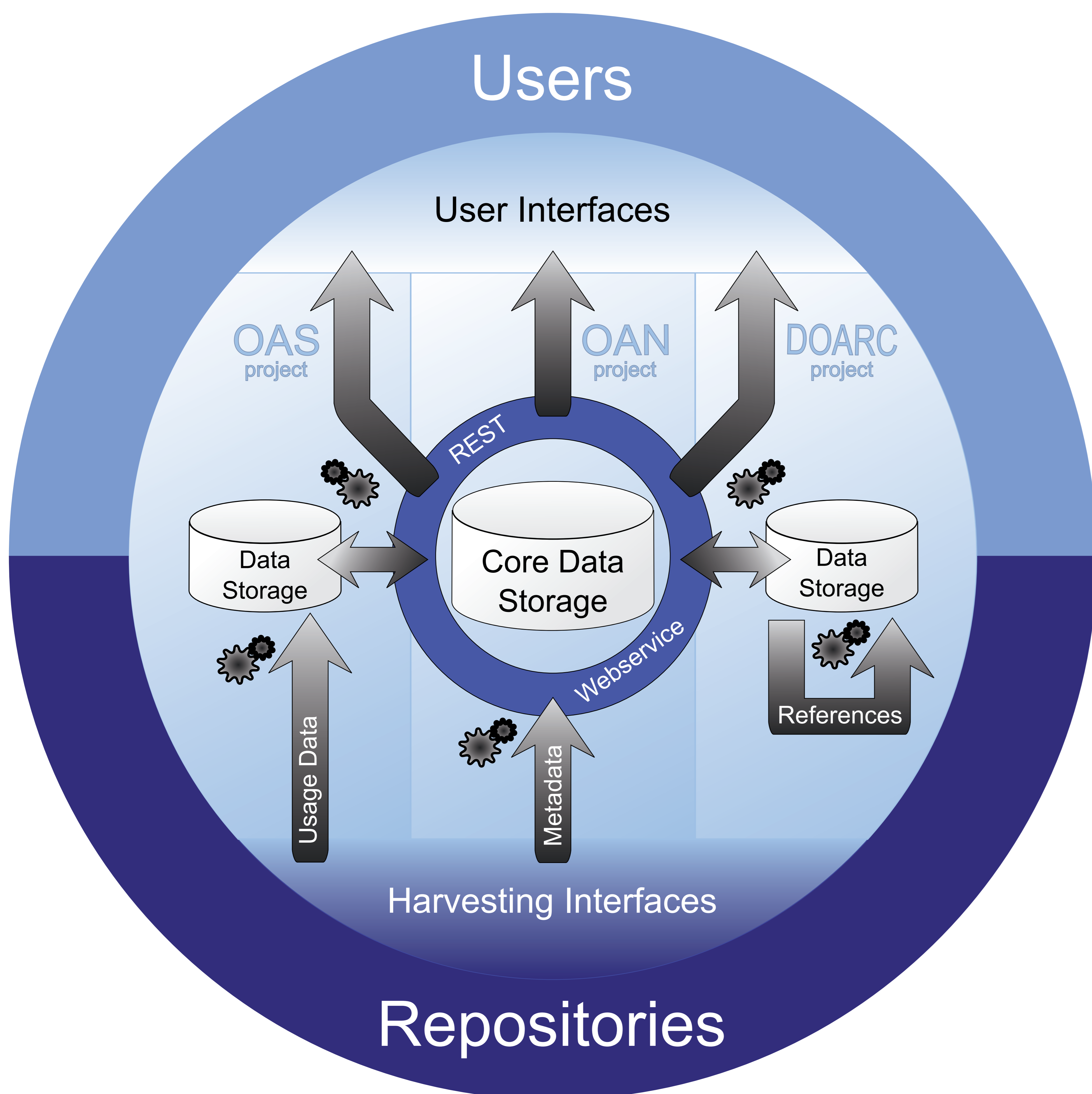
DOARC — Distributed Open Access Reference Citation

DOARC will supply readers and authors of professional publications with a set of advanced tools for online citation analysis and reference management.

This will include import and export of reference lists in standardized formats like BibTeX and EndNote, visualisation of related works in online retrieval, interactive navigation to related topics of a publication, highlight frequently cited papers and publications with a long-term relevance.

As a testing field for development of user friendly and popular tools the community of the portal Cluster Science Net was chosen.

Benefits / DINI-Certificate

The projects provide services based on the aggregated data of all repositories certified by the German Initiative for Networked Information (DINI e.V.):

- Full text and metadata search
- Overall browsing along classifications
- Automatic notification of new documents (alerting)
- Link-up to print on demand services
- Usage statistics
- Citation analysis

The DINI-Certificate 2007 is a quality label for publication services providing the following quality criteria for institutional repositories to support international standards and developments:

- Visibility of services
- Author support
- Usage statistics
- Security, authenticity and data integrity
- Indexing / Export of metadata / interfaces
- Policies
- Legal aspects
- Long-term availability

Information Space and Technical Infrastructure

Shared information space: In providing online services on top of the distributed information archived in German repositories the technological and organisational requirements build a shared information space.

Accessibility: A simple and flexible web service was implemented to provide the integrated data to all participating and future partner projects. Distributed service modules can use the extensible interface to deposit, share and incrementally clean and enrich the data of the registered objects.

Interoperability: By raising the interoperability between the participating repositories they become a part of overall networks (e.g. subject-specific portals, the pan-European infrastructure DRIVER).

http://www.dini.de/oa-projects