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OpenAIRE guidelines for Repositories

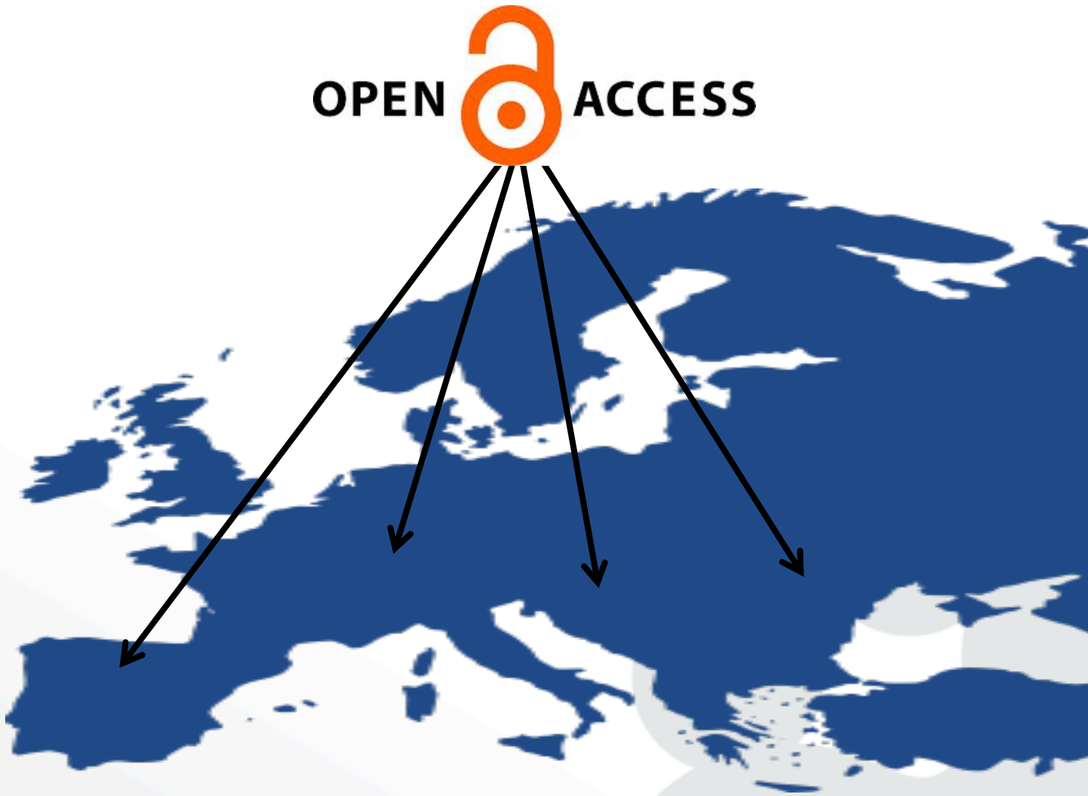
PUMA's use-case

OpenAire in a nutshell

- **Measuring OA impact and research impact**
  - **w.r.t. funding, organizations, authors, research infrastructures**
- **Advocating Open Access to literature and to datasets**

OpenAIRE Networking infrastructure

- **National Open Access Desks**
  - 29 European countries + Serbia, Turkey, Norway, and Iceland
- **Europe-wide and country-oriented dissemination**
  - Awareness: advocating Open Access policies and methodologies
  - Facilitating interoperability: recommending exchange metadata formats



OpenAIRE Networking infrastructure

Facilitating interoperability

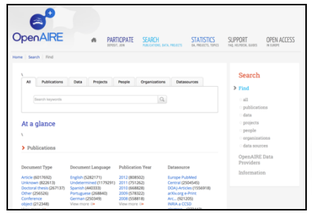
- **Focusing on data sources for research outcomes**
  - **Publication repositories, dataset repositories, CRIS systems**
- **OpenAIRE Guidelines for data source managers**
  - **Export formats for metadata description**
  - **Access protocols (APIs) for exporting metadata descriptions**

For more: https://guidelines.openaire.eu

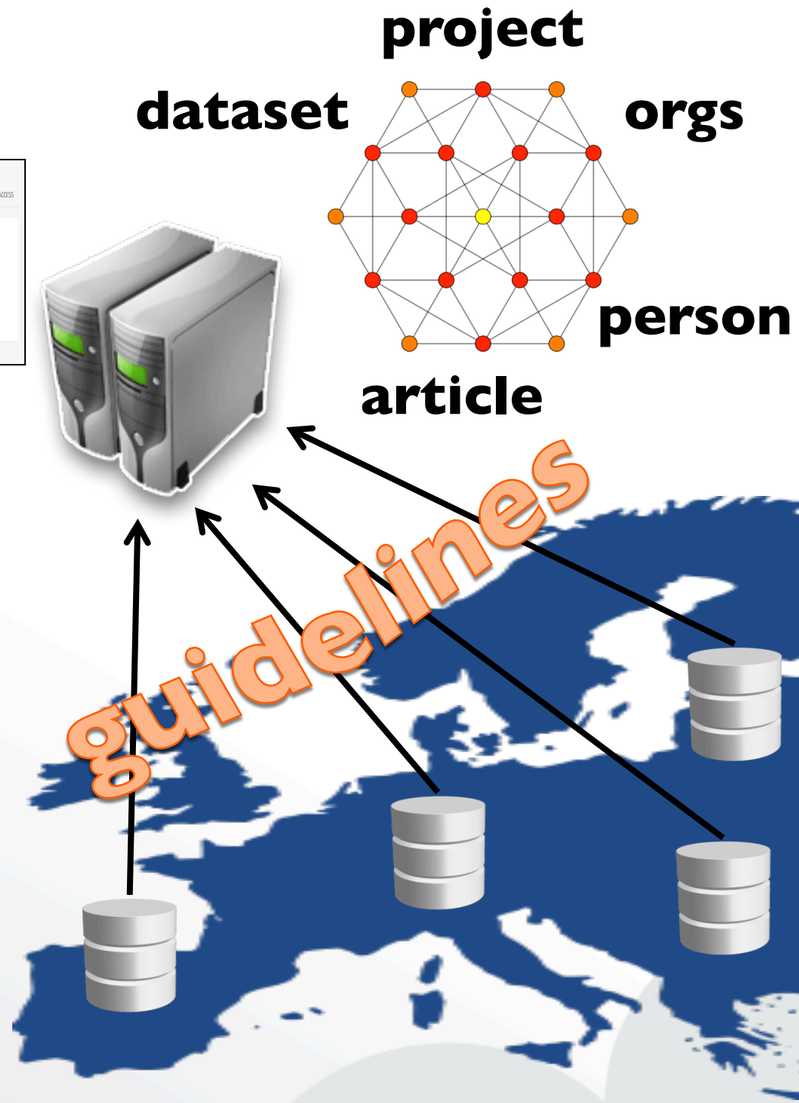
Technical infrastructure

8M publications!

- OpenAIRE Technical infrastructure
  - Collecting metadata information from European data sources
  - Populating graph of metadata
  - Deduplication
  - Inference of relationships



API



http://beta.openaire.eu

OpenAIRE and literature repositories

OpenAIRE guidelines for repository managers (v3.0)

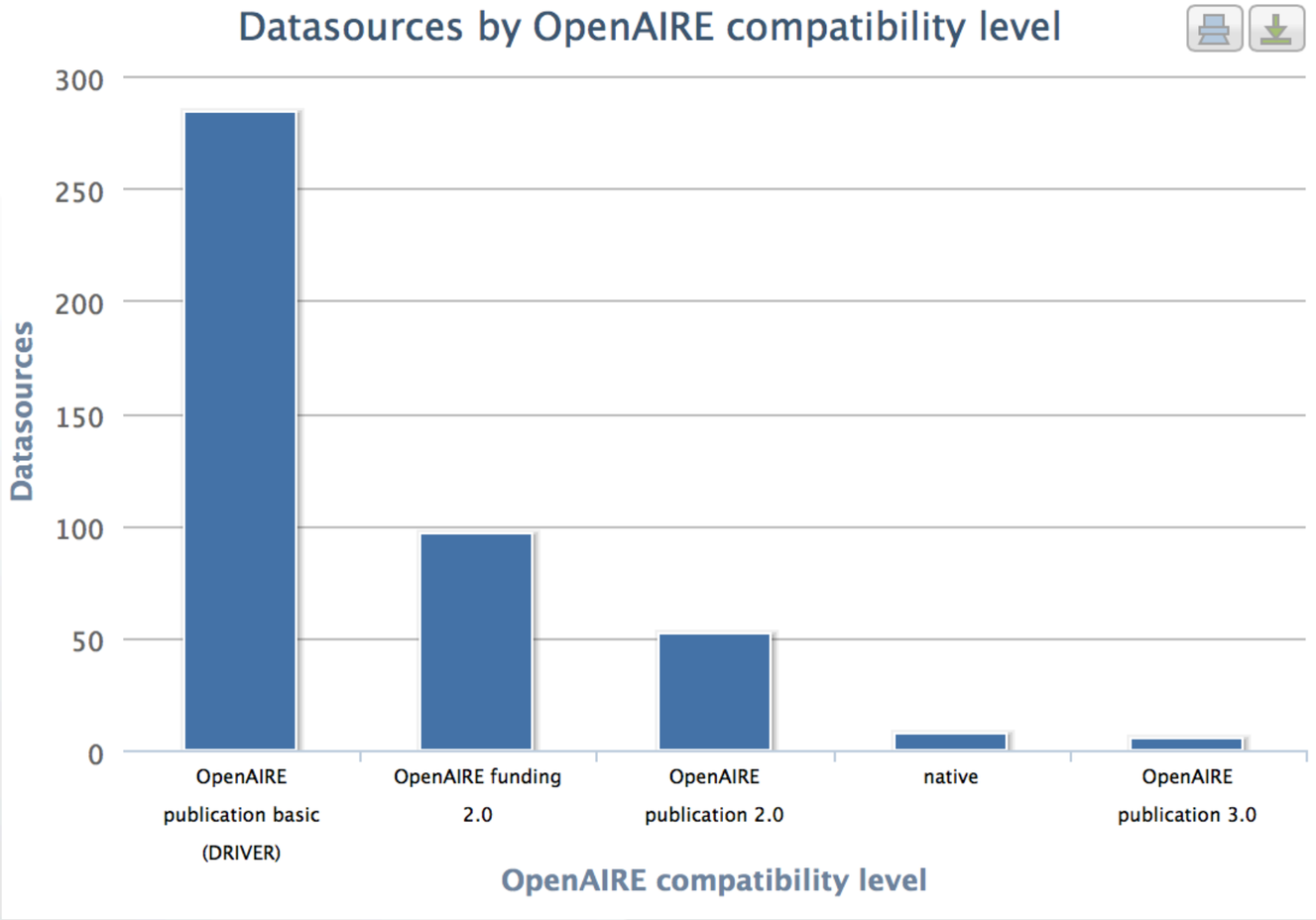
- Protocol: OAI-PMH
- OAI-set: one OAI set of preference (recommended: openaire)
- Format: OpenAIRE-qualified Dublin Core
- Expected content: metadata records relative to
  - All publications bearing link to FP7 or National project(s)
  - Open Access publications
  - Records may optionally contain references to datasets

OpenAIRE and literature repositories

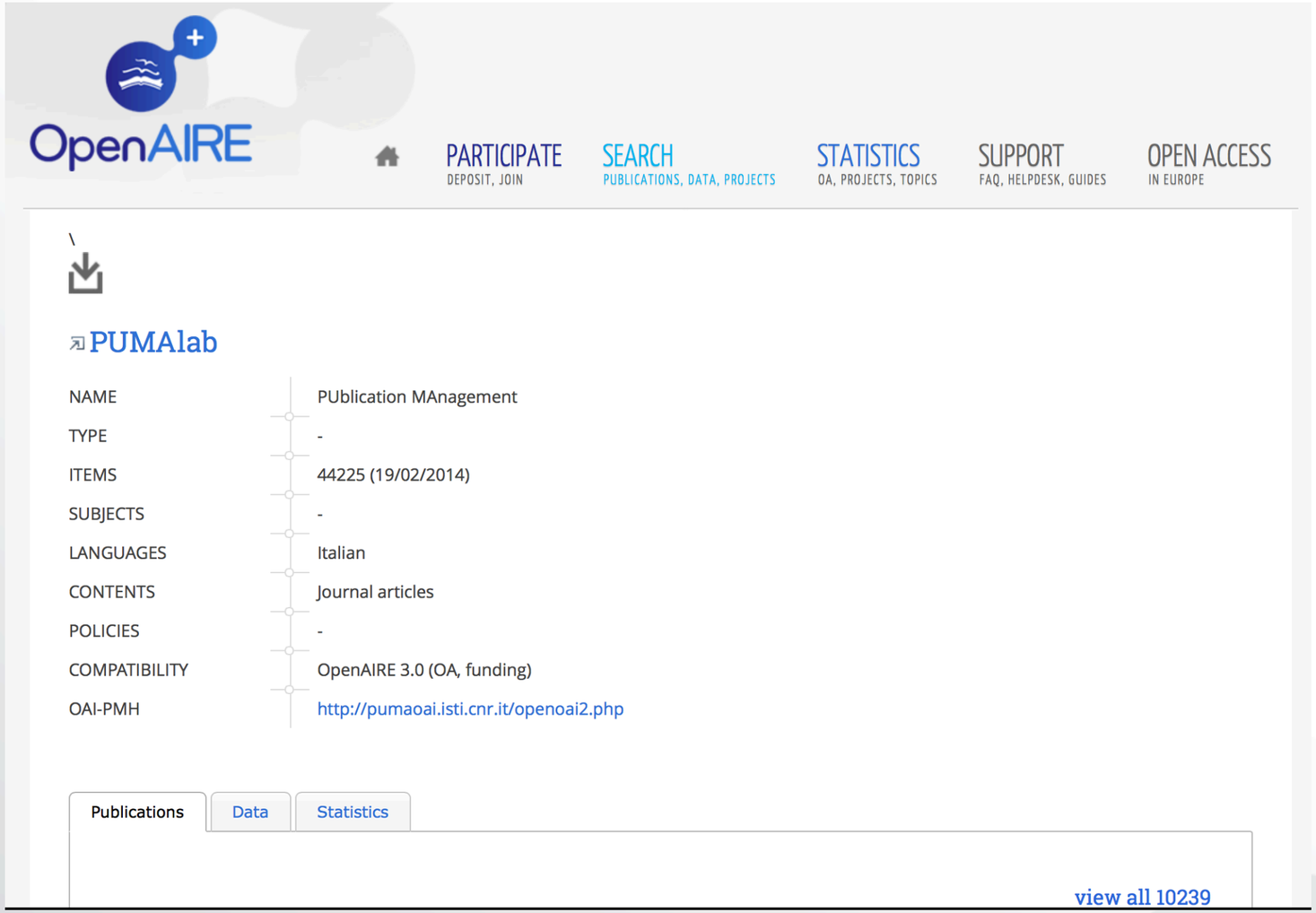
- **Repository managers must**
  - **Register to the OpenAIRE infrastructure (possible only after registration to the OpenDOAR.org directory)**
  - **Validate the quality of their metadata using the OpenAIRE validator**
- **If quality ranks are acceptable OpenAIRE harvests information from the repository**
  - **Harvest frequency depends on repository size and availability of incremental harvesting**

PUMA's use case

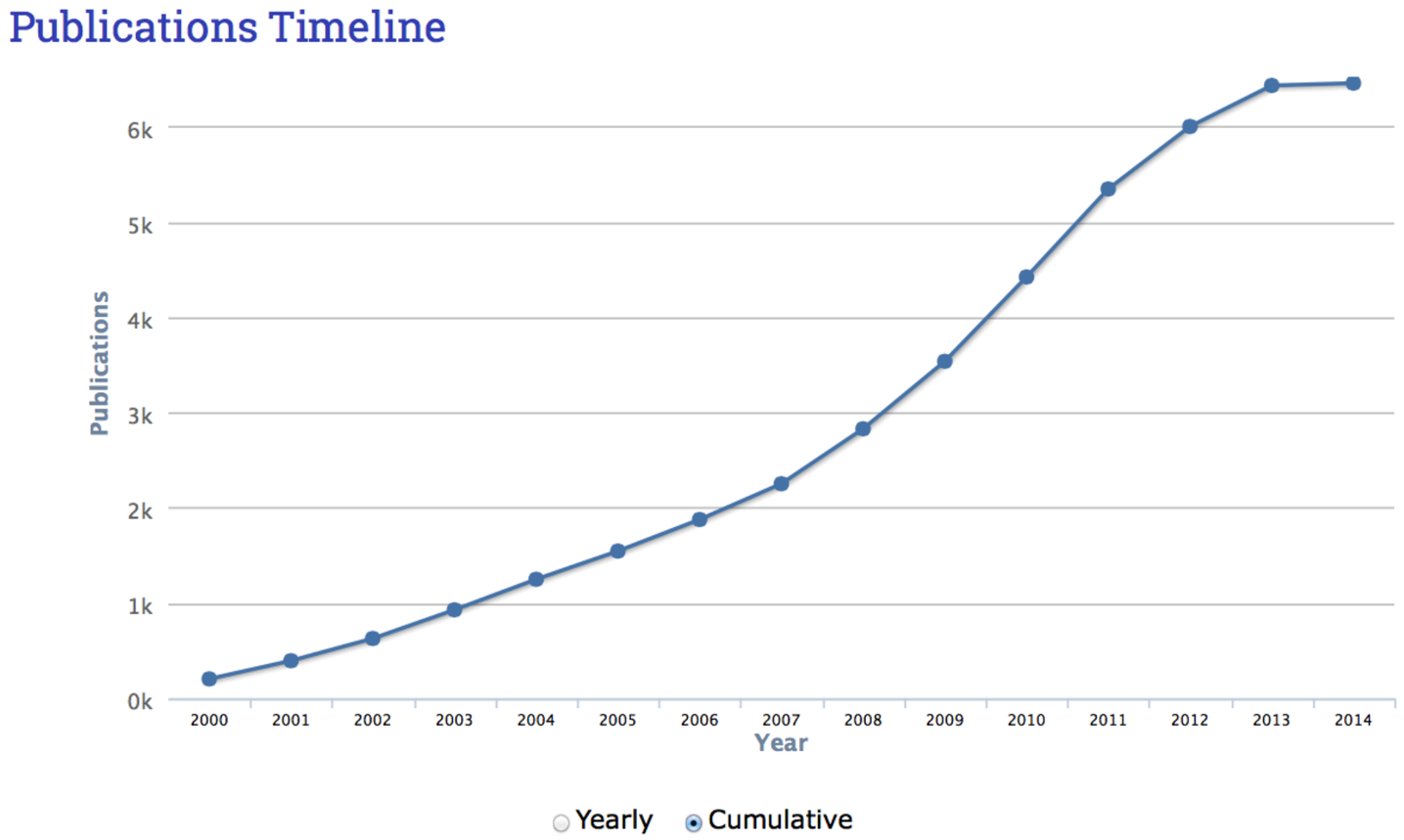
- PUMA was the first OpenAIRE 3.0 compliant repository in Europe
- Today: 443 data sources



PUMA presentation page



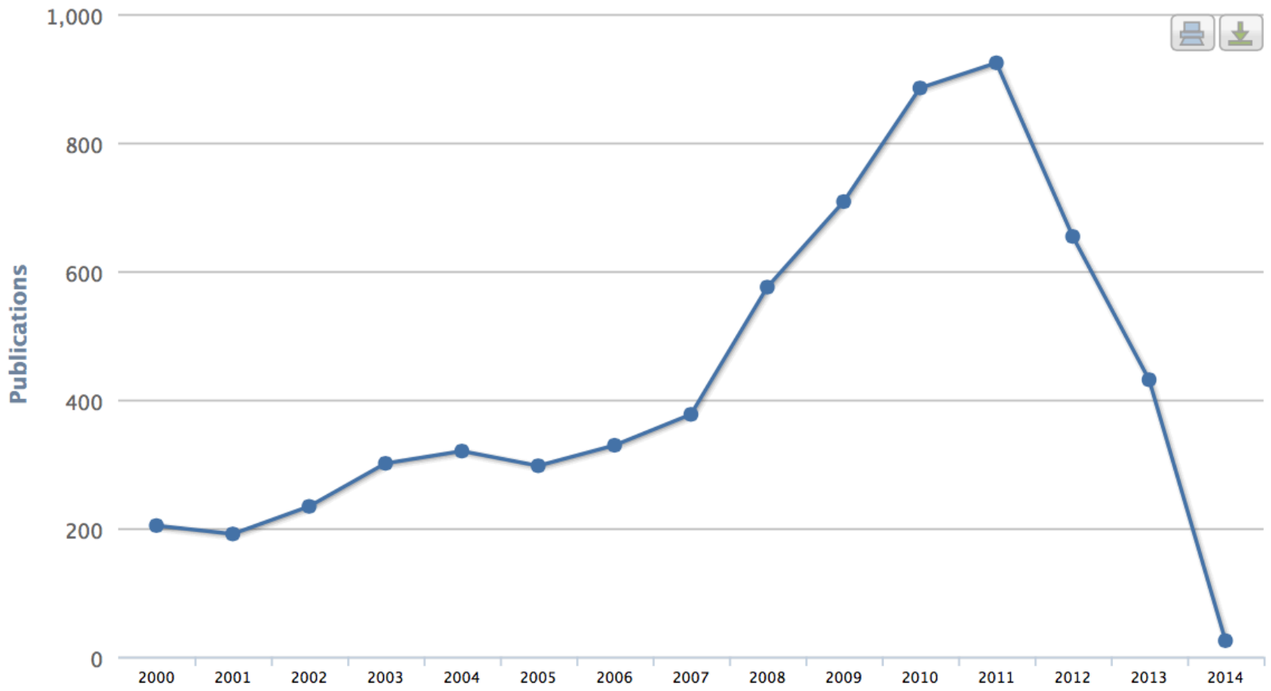
PUMA statistics



PUMA statistics

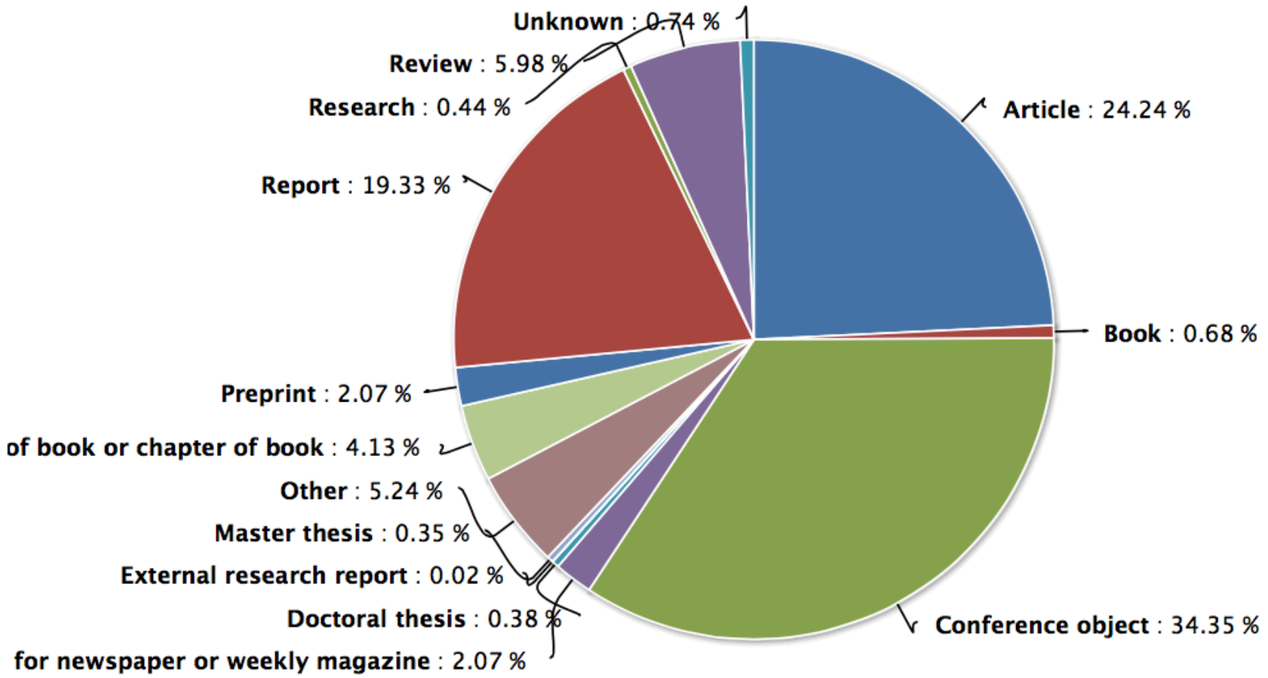
Publications | Data | Statistics

Publications Timeline



PUMA statistics

Publications per Document Type



PUMA publication pages

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A vision towards Scientific Communication Infrastructures

Castelli, Donatella; Manghi, Paolo; Thanos, Costantino (2013)

Springer

English

publication

Research Digital Libraries, info:eu-repo/classification/acm/H.3.7 Digital Libraries, Data Infrastructures, Data Centers, Scientific communication systems

Identifiers:

Abstract The two pillars of the modern scientic communication are Data Centers and Research Digital Libraries, whose technologies and admin staff support researchers at storing, curating, sharing, and discovering the data and the publications they produce. Being realized to maintain and give access to the results of complementary phases of the scientificc research process, such systems are poorly integrated with one another and generally do not rely on the strengths of theother. Today, such a gap hampers achieving the objectives of the modern scientic communication, that is,publishing, interlinking, and discovery of all outcomesof the research process, from the experimental and observational datasets to the final paper. In this work, we envision that instrumental to bridge the gap is the construction of "Scientic Communication Infrastructures". The main goal of these infrastructures is to facilitate interoperability between Data Centers and Research Digital Libraries and to provide services that simplify the implementation of the large variety of modern scientific communication patterns.

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Questions?