

The way to open resources

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Two aspects of scientific communication

- Research papers
 - All types (Conferences, journals, grey literature etc.)
 - Classical media vs. Online publications
 - *Strong institutional needs*
- Research data/digital resources
 - Databases (e.g. genomics, chemistry, etc.)
 - Semi-structures documents (e.g. corpora and lexica in the humanities)
 - *Required for faster scientific progress*

Research papers at CNRS

- Institutional repository as a way towards open access
 - Win-win situation between the researcher and the institution
 - Researchers: bring the scientific content
 - Institution: brings the infrastructure (money!) and validation (documentary expertise)
 - Overall strategy
 - Added value through quality and services
 - Foster open access within the institutional repository

Quality

- Quality of information
 - Systematic check of metadata descriptions by a librarian
 - Institutional acknowledgement
 - Wide coverage
 - Cf. annual CNRS production: ~ 20 000 papers
- Quality of infrastructure provision
 - Long-term archiving environments
 - Wide dissemination

Services

- To our researchers
 - Quality, accessibility, longstanding archives, reporting aid (annual assessment, lab assessment), legal support
- To the institution
 - Quality, wide coverage of lab production, better evaluation, prospective tools
- To the research (and tax payer) community
 - Quality, wide accessibility of the French (multidisciplinary) research production

Basic roles in the workflow

- Researcher
 - Provides basic metadata information
 - Provides the actual content (file)
 - Expresses a will with regards OA
- Librarian
 - Checks and improve metadata
 - Validates the researcher's will (legal constraints)
- Research manager
 - Approves the inclusion of the publication in the institutional repository

Rich metadata

- Multiplicity of MD configurations, from researcher to open archives
- Impossibility to standardize one single format
 - Solution: implements an ISO 11179 compliant MD registry ensuring semantic interoperability across standards (DC, HAL DTD, TEI, RDF, ...)
- Additional services:
 - Diary of researchers, laboratories (multi-institutional)
 - Typology of scientific domains (in-house?)
 - Multidisciplinary terminological database

Implementation

- The HAL platform (CCSD; <http://ccsd.cnrs.fr>)
 - Coupled to ArXiv
 - Mechanisms allowing the creation of views (stamping) and collections
 - Already widely used in specific communities (Physics); PhD theses
- Several experiments
 - Large laboratory (350) with librarian in Nancy
 - Cluster of institutions (INRIA, CNRS, Univ. J. Fourier) with three documentation centers
 - Humanities laboratory with “remote” librarian at INIST

Digital resources

- Wide variety of resource types
 - Community specific approach (e.g. standards)
- High technical level required
 - Specific creation and maintenance methods
- Less copyright constraints
 - Replaced by privacy issues (humanities) and specific maintenance and distribution models
- Policy — win-win strategy again
 - Include resource production and dissemination in academic evaluation criteria
 - Support the development of resources through a network of competence centres

Summary

- Institutional repositories to leverage open access
 - One single infrastructure - Several views
 - Two policy levels
 - Mandatory contribution to IR
 - Encourage contribution to OA
- Institutions should put emphasis on quality and services
 - What is good for the institution is good for open access
- Beyond OAI
 - More standardization efforts on data description and representation