

Chile - Open science country note

Open science and the national context

The main open science initiatives are:

- 1) SciELO Chile (Scientific Electronic Library Online) (www.SciELO.cl [1]) is an open access portal that makes over 98 national journals available to the public. It is the tool for obtaining scientific information most used by students and teachers (together with Google), primarily because Spanish is the predominant language of the documents (some 25 million views in 2012). It includes about 90% of the Chilean scientific journals with the highest international visibility.
- 2) The National Commission for Scientific and Technological Research (CONICYT) (RI2.0) (<http://ri.conicyt.cl> [2]) is an institutional open access repository that includes a self-archiving function containing the results of projects and/or studies that have been funded by CONICYT. It provides access to the entire content of more than 4 000 documents and over 1 400 theses.
- 3) LA Referencia (<http://lareferencia.redclara.net> [3]) is a federated network of national repositories of scientific documentation for Latin American Countries (members are Argentina, Brazil, Chile, Colombia, Ecuador, El Salvador, Mexico, Peru and Venezuela) financed by the Inter-American Development Bank. The objective is to increase the visibility of, and ensure access to, scientific production in Latin America and the Caribbean.
- 4) In line with the OECD Recommendations on Access to Research Data from Public Funding, a National Policy on Management of Research Data and Scientific Information was designed in 2012, in order to:
 - a) optimise the use of public resources in the generation and management of knowledge
 - b) increase access to research data and scientific information

meet international standards for accessing research data, again taking into account OECD recommendations.

Open science research and innovation actors

The main national science and innovation actors involved are:

- 1) government: Ministry of Economy (MINECON), Ministry of Education (MINEDUC)
- 2) government agencies: CONICYT and CORFO (Corporacion del Fomento de la Produccion)
- 3) formal users/beneficiaries: higher education institutions, public research organisations and other government labs

individual users/beneficiaries: Researchers, students, academic community, etc.

Open science and business sector actors

CINCEL (Consortium for Access to Scientific Electronic Information) is the national consortium

charged with scientific information procurement. It is a non-profit organisation formed by CONICYT and 25 universities with vast and long-standing tradition in scientific research.

Since 2008, CINCEL has the mandate to provide free access to scientific information to every non-profit research institution. Participating in the programme are 43 universities, 18 public institutions and 10 regional research centres.

CINCEL is negotiating new open access clauses (the green road) with eight major international publishers. The goal is allow to every Chilean researcher to deposit their papers (pre-print and/or post-print version) in institutional or national repositories with affordable embargo periods.

Policy design - Open data

The main open science instrument is a CONICYT initiative: the aforementioned Institutional Policy on Management of Research Data and Scientific Information (<http://datoscientificos.cl/politica/documentos> [4]). The policy's goal is to homologate the processes of capture, registry and management of data and information and establish these processes in those institutions where it does not yet exist. The principal objectives of the policy are listed above in 1(4).

CONICYT has an annual budget of about CLP 900 million (USD 1.5 million).

The monitoring system for this policy is in development and has yet to become operational. But in the year 2012, the SCImago Research Group was hired to carry out an evaluation of SciELO Chile. The evaluation committee was composed of Chilean and Spanish experts. The dimensions evaluated were:

- a) the scientific focus of each magazine
- b) the perception of university students, faculty and researchers
- c) the perception of editors
- d) the impact of SciELO within the scientific community
- e) the impact of SciELO on faculty (pre- and postgraduate level)
- f) the production chain
- g) the website and its ability to retrieve information

criteria and policies related to SciELO Chile.

Policy design - Open/increasing access to scientific publications

SciELO (the Scientific Electronic Library Online) is a virtual library of publications generated in Latin America, the Caribbean, Spain and Portugal, with sites operating regularly in each country. CONICYT maintains and updates an electronic library - SciELO Chile (www.SciELO.cl [1]) - which, as mentioned above, offers through open access over 98 national journals. Moreover, CONICYT subsidises on a competitive basis the publication of high-quality national journals (through both SciELO and Web of Science) in the amount of USD 300 000 per year.

In 2011, 24.8% of Chilean scientific production (articles) was published in full OA journals.

SciELO Chile works with “creative commons” licences, an open access model of dissemination.

Skills for open science and open data

CONICYT has implemented an information dissemination campaign about the Institutional Policy on Management of Research Data and Scientific Information, in order to spread the benefits of having free access to data and information for science, the country, the research community and policy makers. The main objectives of the initiative, titled “Access to research data and scientific information”, are to:

- generate OA awareness in the scientific community and among academics, postgraduate students, public employees and public agencies
- promote the image associated with OA and open data.

Open science and international co-operation

There are two initiatives (mentioned above):

- 1) SciELO, the electronic library of publications maintained and updated by CONICYT. Chile provides technical co-operation and best practices.
- 2) LA Referencia, the federated network of national repositories of scientific documentation for Latin American countries.

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Links

- [1] <http://www.scielo.cl/>
- [2] <http://ri.conicyt.cl>
- [3] <http://lareferencia.redclara.net/>
- [4] <http://datoscientificos.cl/politica/documentos>