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The implementation of the European Commission recommendation on open access to scientific information: comparison of national policies

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Abstract. Two years after the publication of the European Commission recommendation on open access to scientific information, the critical threshold of accessibility to fifty percent of papers has been crossed. However, this figure is an average and the implementation of the EC recommendation varies from one country to another. The topical issue now is to observe the different steps of implementation and to wonder about the reasons of such a disparity. In order to suggest many elements of the response, this research compares the different levels of implementation in the EU28.

Keywords. Academic publishing, open access, scientific information, policy, European Commission

Contrary to what the European Commission might expect further to its communication [1] and its recommendation [2] (concerning open access to and preservation of scientific information within the framework Horizon 2020) after being published dated 17th July 2012 its implementation by national governments and EU research funders have not led to a standardization of open access policies. This recommendation has undergone all manner of implementations concerning the level of incentive, the contents which are concerned, the embargo periods, etc.

First and foremost this paper propose doing a comparison between the national implementations of the CE recommendation in the EU28. The suggested analysis is a good example of its various interpretations and implementations. We compare the adopted action plans and their methods: mandatory deposit and national recommendation, delegation to each institution and research funder, national consultation of stakeholders' opinion, no policy at all.

1. Methodology

This study was conducted from bibliographical resources on open access in the EU28 collected via the search engine called BASE [3] and other information from the OPENAIRE [4] portal and the UNESCO Global Access Portal [5].

2. The implementation of the recommendation at national level

Despite the EC recommendations we notice that there are four levels of implementation : no national open access mandate and policy, consultation in progress to implement a national policy, funders mandates and policy, coordinated national policy by a recommendation or an act.

2.1. *No national open access mandate and policy*

The european countries that have not implement a national open access policy are : Romania, Cyprus, Greece, Estonia, Bulgaria, Malta, Slovakia, Lithuania, Czech Republic, Luxembourg.

Those countries present some common characteristics that explain the status quo in the national implementation of the european open acces policy. First, there are all (except from Estonia, Luxembourg and Czech Republic) countries that have gross domestic expenditures on research and development as a percentage of gross domestic product less than 1 [6] while the lower percentage is 0 and the higher is 3.5. Second, they are countries that publish less than 1 000 scientific articles per year except from Greece and Czech Republic. In short, there are quite small stakeholders on the european research scene.

We can easily deduce that in spite of the later realizable budget savings thanks to an open access to scientific publications [7], those countries cannot afford to set up infrastructures and open access funds. In some cases, the needed infrastructures exist but the will to implement an open access policy comes up against the lack of researchers awareness or an insufficient demand caused by the number of published articles at national level.

2.2. *Consultation in progress in order to implement a national policy*

Four european countries have not implemented a coordinated national policy yet but are on the right track. Indeed they launched a national consultation with all the stakeholders that should lead to the proposition of a bill.

In Poland, a national consultation about open access to public ressources was set off by Minister of Administration and Digitalization in 2012 [8]. Its aim was to define open access policy guidelines that will be integrated in a bill including open access to educative, cultural and scientific resources which will be publicly funded : the “Act on Open Public Resources”. The fear not to afford open access gold in the long term leads to favour green open access.

In Slovenia, the Research and Development Act states that results from publicly funded research must be accessible. The aim of the first period from 2011 to 2014 of the *Resolution on the National Research and Development Programme 2011-2020* [9] was to launch a large national consultation with every stakeholder in order to establish some guidelines to a future bill that would include data too. The *Plan on the National*

Research and development Programme 2011-2020 [10] also mention the connexion of all national repositories in CRIS (SICRIS [11]).

In the Netherlands, since 2009, Universities Rectors clearly indicated their commitment in favour of open access by conversing about the means to encourage the open access implementation. The NWO, an independent research body which funds research and one of the biggest dutch funders, leads a strong policy in favour of open access notably the gold road by funding subsidies granting programmes to pay the author fees. For the time being there is no project of open access implementation policy but only a national consultation.

In France, even if the Geneviève Fioraso's speech, Minister of Higher Education and Research, delivered on the 24th January 2013, indicated that «the French government reaffirm[ed] its support to open access to scientific information principle », the implementation of a mandatory open access policy is not approved unanimously notably among publishers in SHS. A national consultation was launched recently by the ministry of Higher Education and Research in order to establish what is the optimal embargo period for SHS journals. Currently, there are five mandatory deposit policies (IRSTEA, IFREMER, CIRAD, INRA, INRIA) and two national funders incitative policies (CNRS, INSERM) [12].

2.3. Funders mandates and policy

Currently, in the UK, the gold road is more plebiscited than the green one even if the latter is not deserted. The Research Council UK, a consortium of seven independent research councils, set up a gold open access policy. This policy was examined and an intermediate report [13] and is going to be reconsidered in the autumn 2014. Sixteen others funders also have their own open access policy, the list is available on SHERPA/RoMEO [14].

In Denmark, on the 22nd June 2012, the five principal national funders (Danish Council for Independent Research (DFR), the Danish Council for Strategic Research, the Danish National Research Foundations, the Danish Advanced Technology Foundation, and the Danish Council for technology and innovation) decided a common open access policy. This policy requires the deposit of a digital version of research articles in open archives within the six or twelve months after the article acceptance. Seven universities out of eight have an open access policy. However, it is often more a declaration of intent than a real mandate.

In Finland, even if the open access principle has been encouraged for a long time, concrete actions came into being just recently. In 2011, Minister of Education and Culture launched a project named TTA with the aim to create an open access national scientific policy and to build the necessary infrastructure. Currently, a national bill has circulated among the different stakeholders so they can make comments on it. This bill recommends either gold road or green road but sets aside hybrid publications. An open access funding has been set off. The Science Academy that is the main funder recommends to researchers to publish in open access journals as often as possible.

In Sweden, two major funders, the Swedish Research Council and the Swedish Research Council for Environment, Agricultural Sciences and Spatial Planning (FORMAS), instituted open access mandate (green open access mandate concerning

peer-reviewed articles to deposit in open archives within six months after publication) and the Association of Swedish Higher Education (SUHF) which recommends open access to its 41 institutions members and encourages these to institute their own open access policy. Recently, the Swedish Research Council (SRC) has been appointed by ministry in order to establish the guidelines of a national policy in favour of open access. The first version of this report should be published by the end of 2014.

In Austria, the open access movement began in 2009. For two years, the rate has speeded up with the creation of some funders mandates notably the one of the Austrian Science Fund (FWF) that recommends to researchers to publish in open access journals, the fees being paid back by the dedicated fund and to deposit an electronic version in open archives within twelve months after publication. The Austrian Academy of Sciences (OAW) has a green open access policy but also has a publishing house that publishes gold open access journals and books. Others policies/institutional mandates should be set up soon but there is currently no expression of a need concerning the implementation of a national open access policy [15].

Hungary has a national research environment particularly active, fostered by the government and the Scientific Hungarian Research Funding (OKTA) which is the major funder. The OKTA policy encourages open access by requiring that the funded researchers publish in open access journals and deposit an electronic version into open archives. The only current open access government decree is about doctoral thesis (n°33, 7th March 2007).

2.4. National policy coordinated by a recommendation

In Belgium, it is really difficult to set up an open access national policy owing to the federalism that clearly complicates the coordination between different regional research environments, publishing stakeholders and linguistic issues. Nevertheless, the two major research funders FWO in the Flemish Community and FNRS [16] in the French Community both have a green open access mandate adopted in 2013 that needs a deposit of researchers' publications in open archives. A first step towards was the implementation of a national open access policy with the Brussels Declaration [17] on the 22nd October 2012 the signatories were the official ministers representatives of Walloon Region, Brussels Region and Flemish Region. This Declaration defines a belgian open access policy. The signatories committed themselves to encourage open access to the publicly funded research results by informing the researchers, by recommending them to make their publications available at the latest six months (STM) and twelve months (SHS) after publication, by examining the possibilities for the public funds to pay the open access publication fees, by encouraging the creation and preservation of deposit infrastructures, by thinking about the risks and opportunities of each open access road with the stakeholders. This dialogue has turned into a national consultation and the publishers syndicate is going to sign an agreement with universities that could lead to embargo periods from six to twelve months and even more for the publications in Humanities and Social Sciences.

In Ireland, there are four national open access funders mandates (Higher Education Authority, Health Research Board, Irish Research Council for Science, Engineering and Technology) out of the seven national funders. The government announced on the

23rd October 2012 what were the open access national principles in *National Principles for Open Access Policy Statement* [18]. Among the major principles, we found a deposit obligation for scientific research publicly funded publications and an incentive to publish in open access journals. This recommendation favors the green road but does not definitely set aside the gold one. That fits with the creation of a dedicated fund in order to set up institutional deposits and a national portal whereas no specific fund has been launched to finance the gold road.

In Portugal, some open access initiatives have been set up since 2004. Although the Portuguese government, the public and private funders have officially not announced open access policies or mandates yet, the Conference of Portuguese University rectors (CRUP) recommends to the research bodies to implement a mandated repository policy for research publications and data. The CRUP trusts to the generalization of an only open access european mandate that could lead to a lack of a national mandate implementation.

In Croatia, there is a scientific open access community, particularly active through four institutional repositories and one national portal that makes accessible more than 250 scientific croatian journals (HRCAK). Currently, there is no croatian open access funder mandate. The document *Science and technology policy of the Republic of Croatia 2007-2010* issued by the ministry of Science , Education and Sports mentions that the publicly funded research results have to be accessible to the general public thanks to open access publications or databases. On the 24th October 2012, a national declaration was publicized [19].

2.5. National policy coordinated by a law

In Latvia, the adoption of the national reform programme for the implementation of european strategy « Horizon 2020 » by the Latvian Cabinet have not led to the adoption of open access policies or mandates by the funders or the government in the long term. However, this programme mentions an obligation to deposit publicly funded research publications into repositories (embargo period up to six months in STM and twelve in SHS) and the creation of subsidies for gold open access journals.

Spain was the first state to legislate on open access, from 2011, with the « Ley de la Ciencia, la Tecnología y la Innovación [20] ». The implementation of this law is not very much prejudicial to publishers insofar it maintains the editorial embargo as it is mentioned in article 37 paragraph 3.

In Germany, the law dated July 2013 about orphan and unavailable works includes a clause about open access. This clause gives to the authors a right of secondary publication. This allows to take similar but non-profit publication by the author twelve months after the article acceptance in STM and SHS. This right is applied if the research work is publicly funded and if the article is accepted in a journal that is published at least twice a year. This settlement affirmed its superiority on the contract.

In Italy, in March 2013, the major research bodies Presidents, associated with the Conference of Italian University rectors signed a declaration in favour of open access. In October 2013, the legislator intervened on open access regarding a decree-law about preservation and restoration of cultural goods. However, whereas the initial bill planned an open access to the articles six months after publication, the bill which was

adopted on the 8th October 2013 requires embargo periods of 18 months in STM and 24 months in SHS and books are not concerned. This modification of the first version of the bill is the consequence of an important work of lobbying that was done by private Italian publishers who considers that a six months embargo period is insufficient to assure the economic viability of publications.

As a conclusion, it's important to be aware of the fact that this research is a snapshot of a situation at a given time. Indeed, the data evolve with time and need to be reactualized permanently.

However, at the end of this research, we notice that imbalances have emerged since the beginning of the EC recommendation implementation. That brings us to the question of who exactly is really benefiting from Open access, the countries that lead the world in scientific output or these that run behind? In order to answer to this question, two specificities need to be considered: the specific language of papers production and the scientific discipline anchorage either in human sciences or in hard sciences. As a consequence, this issue will be the subject for further research on the future of non-English-speaking national publishing in the context of the EU recommendation.

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