Development of a Model Policy for Research Data Management (RDM) at Austrian Research Institutions

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2.1. BACKGROUND

The establishment of a model research data management (RDM) policy for Austria is underway. On the one hand, this enterprise has been prompted by rising expectations in the research community, particularly in reaction to the Open Research Data Pilot from Horizon 2020, which has been running since 2014. On the other hand, the results of a comprehensive, quantitative survey regarding RDM in Austria were completed between January and March 2015, as part of the project e-Infrastructures Austria.1 Over 3000 researchers from 20 out of 21 public universities in Austria, as well as three non-university research institutions, took part in the survey2 – this response reflected a 9% response rate in Austria. When asked about desired measures for RDM, more than half of the survey participants expressed an explicit desire for guidelines and policies.

It is worth noting that, at the time of the survey, none of the participating Austrian institutions and none of the large national research grant foundations made use of an RDM policy. Only the Austrian Science Fund (FWF), the grant foundation, included a paragraph in its Open Access Policy dedicated to research data, which stated that “whenever legally and ethically possible, all research data and similar materials which are collected and/or analysed using FWF funds have to be made openly accessible”.3

In early 2016, in order to formulate requisite and explicitly-cited guidelines for competent RDM, the Project Management of e-Infrastructures Austria created a “task force dedicated to finding strategies for the management of research data in Austria”. During the lifespan of this expert group, the FWF called for an “Open Research Data Pilot”.

The Expert Group comprised 22 members4 from the stakeholder groups including e-Infrastructures Austria, government ministries, Universities Austria (UNIKO), Vice-Rectors of Research, national research-funding organizations, scientists, scientific libraries, IT-services and research services, and was organised by the Library and Archive Services of the University of Vienna. The Expert Group also tasked a nine-member working sub-group to develop a model for RDM policies in Austrian research institutions. The resulting model policy provides exemplary templates in both German and English, which can be adapted to suit the philosophy and needs of any research institution. This model for RDM policy is the result of six months of collaborative work, and was completed during a meeting of the Expert Group on 2 June 2016.

The Library and Archive Services of the University of Vienna worked concurrently with its partners on the implementation of the Horizon 2020 Project LEARN.5 It proved advantageous that the leadership of the Work Package 3 (Policy Development and Alignment) of the LEARN Project and the leadership of e-Infrastructures Austria were active at the same time, and that both tasks were managed within the same organisation, i.e. the Library of the University of Vienna. For this reason, findings continually flowed back and forth between the expert groups of the two projects. Furthermore, during this same period, the first three (of five) LEARN workshops were held in London, Vienna and Helsinki, and focused on RDM and policy development.

2.2. EVALUATION OF RDM-POLICIES IN THE SCOPE OF PROJECT LEARN

Between July 2015 and June 2016, the Library of the University of Vienna collected and analysed over 40 European RDM policies. In the course of this preparation phase, it became obvious that in many countries (especially in continental Europe) there have hardly been any published guiding principles regarding RDM. After a further selection process, 20 policies were examined more closely based on (identified) format and content-related criteria.6 Using an analysis grid, 11 RDM policies from the United Kingdom, four from Germany, one from the Netherlands and four from Finland were evaluated and checked for possible significant changes during this period at regular intervals.

The most striking results from this analysis related to format and content: it was apparent that research institutions often draw on one another, and sometimes sources were even explicitly referenced. Authorship and the date of publication were not always explicitly stated, and standard formatting did not exist. More than half of the policies analysed made no mention of review periods or revision editions. It was universally clear which topics the policies addressed, and largely, to whom they applied. The concrete objectives of the policies were not directly declared in each case. Roles and responsibilities in research institutions were always mentioned, and in some cases were clearly assigned to specific stakeholders. Only very few institutions explicitly name students as stakeholders worthy of consideration. A position on research funders was taken by most institutions, although, with a few exceptions, costs were only indirectly mentioned.

The term “research data” was defined by most institutions, but the terms “research” and “researcher” only rarely; definitions of other key terms (such as “data management plan”) were also rarely supplied. “Open data” as an issue was a universal concern (although to a varying extent), “restricted data” or “closed data” were mentioned in connection with ethical and legal concerns, if at all. In turn ethical and legal aspects were almost always mentioned, but with widely differing interpretations; in many cases, additional guidelines were referenced. Ownership of data was clearly formulated in about one quarter of the selected policies; it is worth noting, however, that although authorship is mentioned, very few delineations between copyright and rights to use were made.

On the topic of “storage and access” it was notable that data security and open access to research data were strongly emphasised, while long-term archiving was only sporadically mentioned. A specific location for the storage of data was, with a few exceptions, not named; although, some research institutions provide or recommend such services. Externally (with respect to a research project) generated and stored data should also be registered internally. The archival storage period for research data was addressed in about half of the examples analysed; the exact lengths of time, if declared, varied, but 10 years was the length of time most commonly cited. The explicit deletion of data was mentioned in only a very few examples, although

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1. HRSM project, 2014-2016; project sponsor: BMWF; project management: Library of the University of Vienna; 26 project partners. Website: https://www.e-infrastructures.at/en/home; last accessed 5 February 2017.


4. For information about the members, see the Appendix below.

5. This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No: 654139; website: http://learn-rdm.eu/; last accessed 5 February 2017.

this issue is best addressed by data management plans (DMP). A DMP was described in all examples (in some more thoroughly than others) or even considered as a mandatory requirement; in several policies there is evidence that a template was used, or a DMP-guidance tool (such as that of Digital Curation Centre).

The topic of “support and training” was universally treated as a necessary component of RDM and was mentioned in all policies. In contrast, the relevance of topics such as “educational data” and “cultural heritage” has not yet entered the consciousness of the research community.

2.3. WORK OF THE EXPERT GROUP E-INFRASTRUCTURES AUSTRIA

The Expert Group task force made use of previous data on the subject of RDM, including the results of the report entitled “Researchers and their Data: Results of an Austrian Survey”, the results of the first LEARN workshop, held in London in January 2016, as well as the results of an online conference with universities in South America.

The Expert Group also formed a nine-person work sub-group, which met regularly every two weeks, and was charged with drafting a policy paper. At first, work was begun in English, as many of the existing policy examples were written in English. Over time, however, drafts were broken down to meet Austrian needs, in both language and meaning. The model policy became more and more concrete with each meeting. The project management of e-Infrastructures Austria ensured a continual flow of information between the work sub-group and the Project LEARN, particularly as the breakout sessions during the second and third workshops became more and more focused on policy development in varying European institutions. E-Infrastructures Austria also set a high standard with the organisation of the four-day “Training Seminar for Research Data Stewardship and e-Infrastructures”, which looked at operational measures in the field of RDM.

The following duties of the Expert Group are of particular importance:

- Regularly exchanging information regarding the development of a model RDM policy with LEARN project partners, particularly with representatives from South America, in order to compare and standardise terminology;
- Utilising the results of the breakout sessions of the LEARN Workshops;
- Keeping the goals and mission outlined in the LERU Roadmap in consideration;
- Upholding the “FAIR guiding principles for scientific data management and stewardship”; 8
- Gathering feedback from the Austrian research landscape, particularly with regard to rights and organisational guidelines and terminologies;
- Involving institutional computer centres (ICT);
- Cooperating with legal experts;
- Continually exchanging information with representatives from Austrian research funders and sponsors;
- Comparing the results of the work sub-group with the conclusions drawn after the examination of RDM policies across Europe (see also: Evaluation Grid for RDM Policies in Europe. Survey results, August 2016 in this Toolkit, pp. 139-66). 9

2.4. CONCLUSION

After the creation of a model policy, and in particular its customisation at the local level, many recommendations can be made to help establish efficient RDM at individual institutions. The establishment of RDM support services has proven indispensable. Therefore, the Expert Group also provided recommendations on an organisational and structural scale. In June 2016, the Expert Group decided to publish the model policy10 and to enter it in the Universities Austria (UNIKO) “Forum Research” for further comments. From the autumn of 2016 the recommendations will be addressed and local adaptations could begin.

Further documents related to this case study are: 1) Model policy for research data management (RDM) at Austrian research institutions; 2) LEARN Evaluation Grid for RDM Policies in Europe. Survey results, August 2016.11

2.5. APPENDIX

22 members of the task force dedicated to finding strategies for the management of research data in Austria - Project e-Infrastructures Austria:

- Mag. Maria Seissl, Library of the University of Vienna
- Head of the Library and Archive Services of the University of Vienna, Coordination task force
- Seyavash Amini, University of Hannover
- Legal advisor, e-Infrastructures Austria
- Mag. Bruno Bauer, Library of the University of Vienna, Medical University of Vienna
- Chair of the General Assembly, e-Infrastructures Austria
- Mag. Dr. Andrea Braidt, Academy of Fine Arts Vienna
- Vice-Rector for Research
- Univ. Prof. Dr. Gerhard Budin, University of Vienna
- Coordinator, Think Tank, e-Infrastructures Austria
- Dr. Paolo Budroni, Library of the University of Vienna
- Project Director, e-Infrastructures Austria; Coordinator, work sub-group; Secretary
- Dipl.-Ing. Dr. Michaela Fritz, Medical University of Vienna
- Vice-Rector for Research and Innovation
- Dipl.-Ing. Raman Ganguly, Central Information Services, University of Vienna
- Technical Director, e-Infrastructures Austria
- Dipl.-Ing. Florin Guma, IT-Services, University of Salzburg
- Representative from university IT Services, e-Infrastructures Austria

7 See also University of Vienna: http://e-seminar.univie.ac.at/en/; last accessed 5 February 2017.
9 Also available as LEARN: http://phaidra.univie.ac.at/o:459219.
11 See n. 9.
3.1. ESTABLISHING THE CASE

In the Referendum of 2016, the UK’s decision to leave the EU has caused both delight and consternation. A fundamental driver for that result was the perception that the UK needed to achieve greater autonomy. In some quarters, this has led to loud calls for individual autonomy. London Mayor Sadiq Khan wants London to be given more autonomy from central government following the UK’s vote – to leave the European Union, saying that the city needs to “take back control.” Autonomy is a powerful and emotive word. It is important to note that autonomy is not the same as independence. As the Mayor has also said: ‘I want to send a particular message to the almost one million Europeans living in London, who make a huge contribution to our city – working hard, paying taxes and contributing to our civic and cultural life. You are welcome here. We value the enormous contribution you make to our city and that will not change as a result of this referendum.’ Nonetheless, the Mayor seeks to establish a new agenda for London in a Brexit world: ‘It’s not simply a state of mind or an attitude – it’s what we are: open for talent, for business, for investment.’

If London is open, what does that mean for universities and their activities? First, it would be helpful to tie down what the role of the university in the early 21st century is. Professor Ronald Barnett at the UCL Institute of Education has said, ‘We are now coming to have a sense that what it is to be a university in the 21st century necessarily includes a positive orientation to the world, in all of its aspects. The university – as an idea – is not only networked across the world, not only active in many countries, but takes up a positive stance towards the world. Indeed, it has a care for the world, wanting to play its part in helping to improve the world.’ That is a very helpful discussion and offers much in terms of understanding the possible consequences of Brexit.

Many commentators have reacted with fear and alarm to the Brexit vote. Immigration is seen by some as the major issue and as a driver for the ‘No’ vote in the Referendum. Others note the impact of Brexit on exchange rates, and the perceived damage were the UK to leave the Single Market. For universities, there are enormous concerns over the possible loss of EU funding in Horizon 2020, the ability of UK universities to recruit overseas students and to retain its EU workforce.7 Universities UK has highlighted a key concern: ‘In terms of recruiting EU staff in the longer term, any changes will depend on the kind of relationship.’

4 Financial Times: https://www.ft.com/content/0d8f3a42-7f6b-11e6-a242-193803514dd6; last accessed 3/1/17.

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