20th December 2018

Memorandum of Understanding

Between

The European Organization for Nuclear Research (CERN), an Intergovernmental Organization having its seat at Geneva, Switzerland, represented by Frédéric Hemmer, IT Department Head

and

The Partners in the *hasdai* Network of Invenio Repositories (*hasdai*), represented by (i) Data Futures LBG, a not-for-profit company having its seat at the Institute of Modern and Contemporary Culture, University of Westminster, London, and (ii) the Data Center for the Humanities based at the Faculty of Philosophy at the University of Cologne

(each a Party and jointly the Parties)

This Memorandum of Understanding (MoU) sets forth the terms and understanding between CERN and *hasdai* to foster open science and facilitate the use of Invenio repositories for academic and scientific researchers internationally, in particular for the results of research and development which is totally or partially publicly funded.

Background

Invenio is an activity of CERN that has developed over multiple decades - originally in the context of scientific communication in the High Energy Physics community – under the auspices of the OpenAIRE project.

The OpenAIRE project was established by the European Commission to support its nascent Open Data policy. This led to the development, using Invenio, of a catch-all repository for EC-funded research - called Zenodo.

CERN is an OpenAIRE partner and pioneer in open source, open access and open data and is the developer and maintainer of Zenodo, which was launched in May 2013 and is based at CERN. Zenodo now welcomes research results from all over the world, and from every scientific discipline.

hasdai is the network of open access Invenio-based repositories, currently with users from five European countries and the U.S. It supports new research corpora from a growing number of key institutions under the Data Futures Alliance (DFA) and, significantly, provides specific

support for the redelivery of existing corpora which have become stranded on obsolete technologies. In turn, *hasdai* is supported by computing services provided by DFA members - currently the founding provider 'nodes' - but it is a peer-to-peer network which is not dependent on particular providers. Moreover, multiple Institutional Guarantee ("IG") agreements between participating institutions, with varying terms, can be layered on top of *hasdai*. Until mid-2019 *hasdai* will continue in consultative operation before launching services for a new tier of user institutions and incorporating additional computing resources. *hasdai* aims to create a comprehensive platform for very long-term preservation of research data, especially where complex and heterogeneous corpora have arisen around digitized physical assets, for example in the humanities, and on reducing dependency on vulnerable technologies.

This MoU sets out the understanding between the signatories on collaboration in the area of Open Science, specifically through the use of Invenio to create infrastructures for preservation and dissemination of the scientific data produced by European and U.S. researchers and institutions;

Purpose

Under this MOU the Parties will:

Promote the use of Invenio as a non-commercial technology framework for the deposit of scientific data generated through research and development activities globally, through current use cases at the European and the U.S. institutional partners of *hasdai* and with new *hasdai* partners joining through Research Data Alliance (RDA).

Pursue relationships between *hasdai,* CERN and the international Invenio user community to ensure that individual repositories in the *hasdai* network can be supported in the long-term on other Invenio installations as a back-stop. In return, *hasdai* will enable the same repositories to gain investment, reliability and performance advantages from IG agreements among its users and providers;

Develop standards-based solutions for long-term protection of annotation of experiment datasets and digital versions of physical assets by scientists and scholars; and

Design technical infrastructure enabling all of the research data components of a project, which are referenced but reside within data structures external to Invenio, to be aggregated into a single repository 'image' which can consequently be stored as a 'dark' online archive (for example on Zenodo) or as a long-term offline object using non-magnetic technology.

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Intellectual Property Rights and Confidentiality

The Parties acknowledge that nothing in this MoU will affect ownership of any intellectual property rights and that any disclosure of information under this MoU does not grant or imply any license, interest or right for the receiving Party in respect to such information.

All information of a confidential nature belonging to a Party that is marked as such and shared between the Parties, will be kept confidential.

Governing Law and Settlement of Disputes

This MoU will be construed in accordance with its true meaning and effect, with reference to general principles of law and to the exclusion of any single national system of law.

Any difference or dispute concerning this MoU shall be resolved amicably between the Parties' coordinators, failing which it will be resolved through consultation between the executive heads of the Parties concerned, or their duly authorized representatives.

If the dispute cannot be settled amicably through consultation, it will be settled by arbitration under a procedure to be agreed by the Parties to the dispute.

Execution and Counterparts

This MoU may be executed in any number of counterparts, each of which, when executed, shall constitute a duplicate original, but all the counterparts shall together constitute the one agreement.

The following individual persons hereby execute this MoU on behalf of the Parties:

Party Name:	CERN
Address:	385, Route de Meyrin, 1211 Genève 23, Switzerland
Signatory Name, Position:	Frédéric Hemmer, IT Department Head
Signature:	
Date:	20/12/2018

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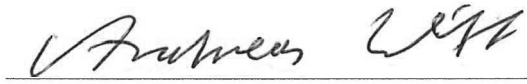
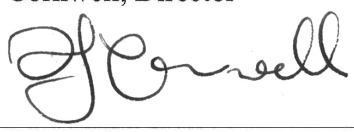
Party Name:	Data Center for the Humanities (DCH), Institut für Linguistik
Address:	Universität zu Köln, Albertus-Magnus-Platz, 50923 Germany
Signatory Name, Position:	Andreas Witt, Speaker of the DCH Steering Group
Signature:	
Date:	20/12/2018

Party Name:	Data Futures, LBG
Address:	Institute for Modern and Contemporary Culture, University of Westminster, Regent Street, London, W1B2HW
Signatory Name, Position:	Peter Cornwell, Director
Signature:	
Date:	20/12/2018