

## DLCM Phase 2 (181-011)

### Data Life-Cycle Management: Phase 2

The DLCM project aims at proposing national-level solutions covering the whole Data Life-Cycle Management (DLCM) to the research community. By identifying sustainable and added value services, the DLCM project targets efficient management of research data responding to funding agencies' and publishers' requirements to ensure publication, long-term referencing and preservation of the datasets used by researchers. The range of services verifying those criteria, and on which viable business models exist, has been identified in the course of the Phase 1 for being further developed during the Phase 2.

The mutualisation effort initiated in 2015 by the eight DLCM partners will be pursued in Phase 2. However, the splitting scenario mentioned by the P5 experts\* has been favoured, as it better clarifies the roles of the different Swiss actors. According to this scenario, the DLCM project carries on the role of binder of all satellite initiatives, acting as a middle layer between the datacentres and the solution providers in order to offer a single point of contact to the research community.

The project partnership comprises different degrees of participation:

- (1) HES-SO and UNIGE as shareholders committed to financially contribute to the development of the Professional and Research Data Management services
- (2) ZHAW, a new DLCM partner, financially committed to run pilots and to be an early adopter of the new services (and thus a contributor to the development of these services)
- (3) EPFL and ETHZ libraries, participating as experts in the future national DLCM Coordination desk to dispense their expertise to researchers
- (4) SWITCH, UNIBAS, ETHZ (and EPFL indirectly, through the investment of a private company), who are submitting individual proposals to the February 2018 call, and whose services/products will be integrated to the DLCM infrastructure.

In the service selection process, two main ranges of services were retained:

#### (1) RESEARCH DATA REPOSITORY

Research Data Management services include access to a FAIR2 Swiss data repository built on an OAIS3 compliant data storage, with flexible options in number of copies and preservation duration. These services come in combination with existing internal solutions and/or commercial products, to answer in an optimal way customers' needs for documenting, maintaining and making the data collected in the course of research works accessible.

#### (2) CONSULTING AND TRAINING

Professional services consist in (a) support/consulting in Research Data Management through a Coordination desk connected to a network of experts, and (b) training modules whose content will be dispensed through an established and dedicated HES-SO structure.

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\* [...] DLCM is encouraged to discuss the pros and cons of one integral versus independent proposals [...]. Hearing at expert group, Zurich, November 10th, 2017

These services are intended to assist researchers in their everyday data life-cycle management tasks, allowing them to link datasets and associated data analysis methods to their scientific publications so as to enhance the understanding of their results. Such services also contribute to the reuse and sharing of research data, with the effect of advancing the culture of open science and reproducible research. More concretely, the main outcomes of Phase 2 are:

- Training modules for researchers and information specialists, available in person and online;
- A Coordination desk as a single entry point for researchers to get support, for example in the redaction of their data management plan, and to locate solutions, expertise and other useful information to improve their daily experience with research data management tasks;
- A data repository, accessible through a Web Portal or integrated to partner solutions (e.g. ELN/LIMS systems) for depositing dataset, in conformity with SNSF and other funding agencies' (e.g. H2020) and/or publishers' (e.g., Nature, Science, Elsevier, etc.) requirements, such as publishing datasets in a FAIR repository;
- An OAIS-compliant preservation infrastructure for securely archiving datasets on the long term.