LABDRIVE: A Research Data Management and Preservation Platform

2022 SAA Research Forum
- August, 10 -
LIBNOVA digital preservation technology is used by some of the most demanding organizations worldwide. We are used to work with petabytes of data and to preserve them for the long term.
Now, we are extending this technology to handle research data, co-developing together with David Giaretta, Amazon AWS, University of Barcelona, the CSIC (Spanish Research National Council), Voxility and Bidaidea. **LABDRIVE platform is a joint effort.**

As part of the ARCHIVER Project LIBNOVA was in (4.8MM€ total EU funding), we were working with the CERN, EMBL-EBI, PIC and DESY to scale the solution to handle some of the most demanding use cases, during 3 years of R&D.
What is happening today, from the Researcher’s perspective?

**Researcher’s perspective on research data challenges (the main 4)**

2018-2020: 50+ Research organizations’ feedback + CERN ARCHIVER Project

- **82%**
  - No unified view about research data: many dispersed platforms during the lifecycle, due to functionality, protocols and feature needs.

- **72%**
  - Digital preservation is addressed at the end of the project: next project is in everybody’s mind, the resources are scarce, and the data is dispersed over a myriad of platforms.

- **68%**
  - Data structure and software are cutting edge: no project is the same and data types for different disciplines are so diverse that there is no effective way to standardize formats and data structures.

- **58%**
  - Code and data are not together: losing representation information.
What is happening today, from the Manager’s perspective?

Manager’s perspective on research data challenges (the main 4)
2018-2020: 50+ Research organizations feedback + CERN ARCHIVER Project

92%
We need to reduce the risk associated to research data management preservation: we don’t know where the results are, how they are managed, protected and used.

89%
In order to award research grants, organizations that evaluate the research proposals are increasing the weight of the Data Management Plans and cost estimations for the projects. Basic statements are not enough to win projects nowadays.

71%
Researchers’ adoption of best practices cannot be measured and tracked: so, creating incentives for best practices becomes complex.

64%
We are concerned about environmental impact of our research.
LABDRIVE is a **Research Data Management and Preservation** platform.

Its design principles are:

- **Unified**: It enables organizations to combine their research content in a single, unified, rationalized platform.

- **Comprehensive**: It allows organizations to capture the research data they produce, helping them to properly manage, preserve and allow access to it, during the whole data lifecycle (and not only at the end of the cycle).

- **Open**: ISO16363, ISO27001, ISO27017, ISO27018 certified. 100% of the information can be easily exported. No exit barriers. User-extensible.
LABDRIVE allows organizations to **organize and unify** their content:

Transition from a **siloed approach** in which each series of datasets, experiments, departments or units are using multiple, disaggregated systems to keep content.

To a **unified repository** that can adapt to the particularities of each dataset, **unifying all content in a single platform**.

- Risk management
- Publishing/rights management
- Permissions control
- Policies management
- Infrastructure management
- Cost control
Thanks!
Contact us with any questions you may have:
contact@libnova.com