The Buyers Group

ARCHIVER R&D was driven by the needs of four Inter-governmental and national research organisations all contributing high-value datasets to the European Open Science Cloud.

CERN

EMBL

DESY.

PIC port d'informació científica

ARCHIVER Early Adopters

12 NRENs (National Research and Education Networks) and research organisations have already expressed their interest in the ARCHIVER solutions and joined the group of Early Adopters to solve the need for innovative digital archiving and preservation solutions at their organisations.

"We wanted all scientists to make a difference using ECMWF data, which are coming from the biggest meteorological archives of the world." – continues Florian Pappenberger – **"We needed a common platform allowing users to link up with other data sources, together with other organizations following the same FAIR data guiding principles and with a special focus on interoperability.** ARCHIVER **was an essential cornerstone of that dream".**

Florian Pappenberger,
Director of Forecasts at ECMWF
(European Centre for Medium-Range Weather Forecasts)

Thanks to the improved efficiency of the preservation processes, more affordable technologies, and a sensible reduction of the resources needed to archive and preserve larger amounts of data, the two solutions are also boosting research organisations towards much more environmentally sustainable digital preservation, by providing the means to analyse and reduce the carbon footprint.

ARCHIVER
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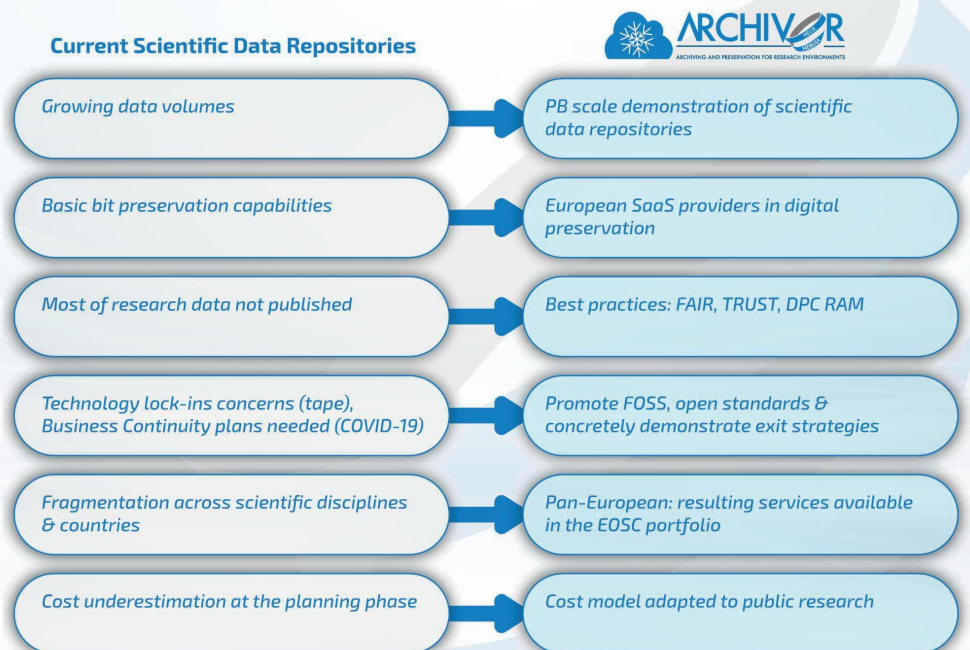# Research ready solutions for Long Term Data Preservation

Data is immensely complicated.
There is never enough emphasis on the long-term curation and stewardship of data, ensuring that data is interoperable and re-usable over very long timescales in a sustainable manner.

ARCHIVER Pre-Commercial Procurement is a unique initiative in the context of the European Open Science Cloud (EOSC) that spent 3 years designing, prototyping and piloting innovative services for the Long Term Digital Preservation (LTDP) of scientific datasets.

R&D was performed competitively over 3 phases resulting in the selection of two consortia providing pilot services for scientific data archiving and preservation.

ARCHIVER progress in the state-of-the-art of Long-Term Digital Preservation

Current Scientific Data Repositories

Growing data volumes	PB scale demonstration of scientific data repositories
Basic bit preservation capabilities	European SaaS providers in digital preservation
Most of research data not published	Best practices: FAIR, TRUST, DPC RAM
Technology lock-ins concerns (tape), Business Continuity plans needed (COVID-19)	Promote FOSS, open standards & concretely demonstrate exit strategies
Fragmentation across scientific disciplines & countries	Pan-European: resulting services available in the EOSC portfolio
Cost underestimation at the planning phase	Cost model adapted to public research

Discover ARCHIVER Research-ready solutions for Long Term Data Preservation

Arkivum Solution

Arkivum
Petabyte scale digital preservation, guaranteeing the long-term use of scientific research data.

Arkivum is an innovative new SaaS solution for archiving, preserving and accessing vast and hugely valuable scientific datasets from disciplines that include astronomy, particle physics, genomics and more.

LIBNOVA Solution

LIBNOVA LABDRIVE
The ultimate Research Data Management and Digital Preservation platform.

LABDRIVE allows organizations to transition from a siloed approach in which each series of datasets, departments or units are using multiple, disaggregated systems to keep content to a single repository that can adapt to the particularities of each dataset, unifying all content in a single platform.

ARCHIVER solutions are now available on the EOSC portal