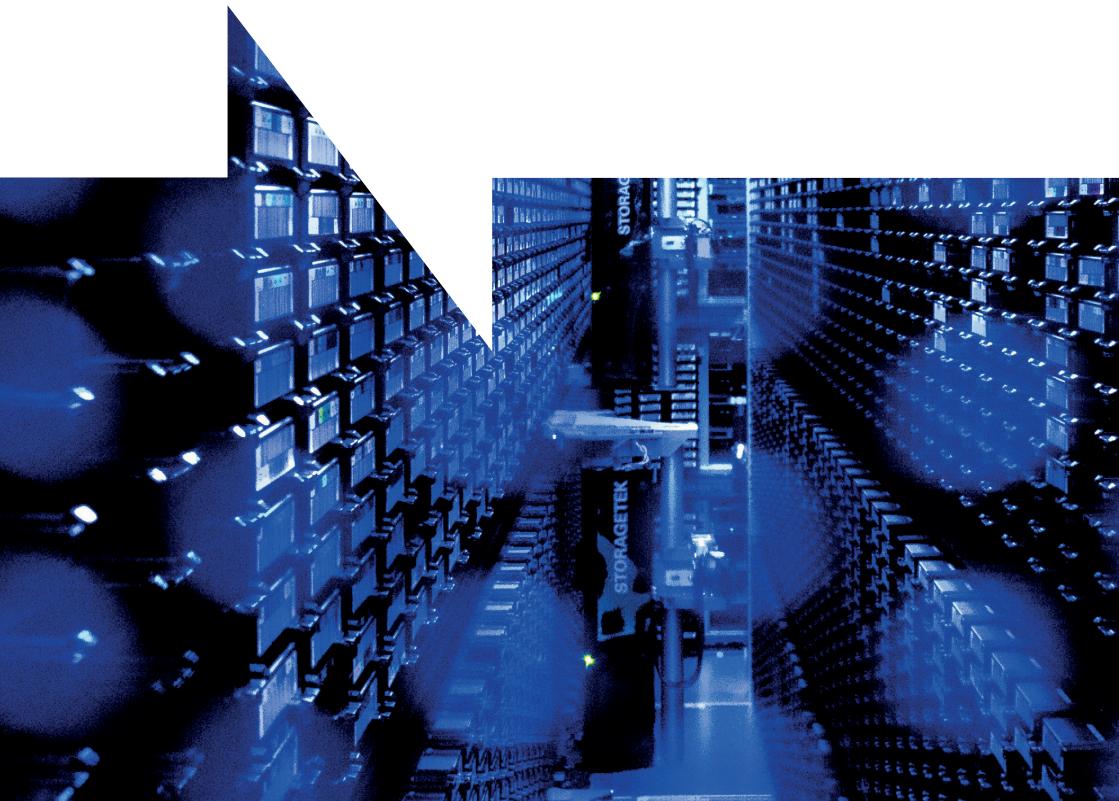




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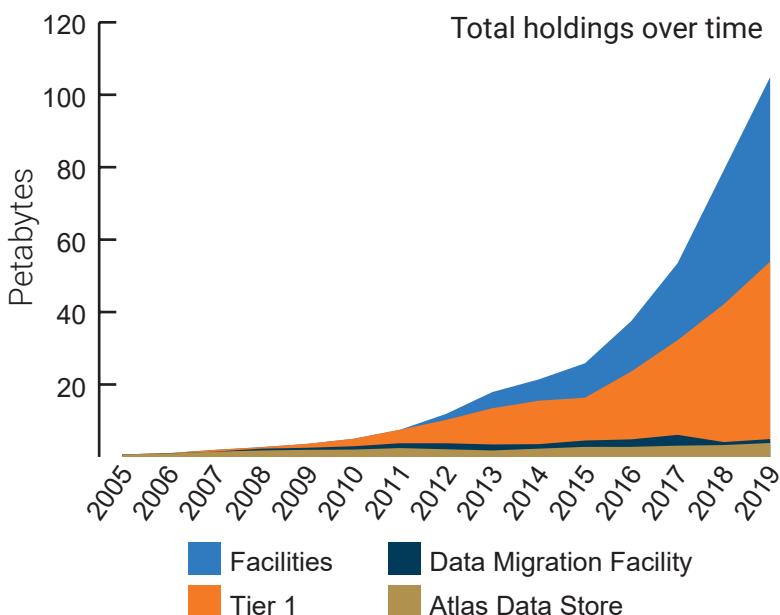
Tape Libraries

A cost-effective and high capacity data storage solution.



About the tape libraries

High-capacity automated tape libraries (two Oracle and one Spectra TFinity) housed in STFC's Scientific Computing Department provide data storage for a number of projects and facilities. With a low cost per gigabyte, these libraries are ideal for fields in which the volume of data continues to grow at a rapid pace, including particle physics data from the Large Hadron Collider and data from the Centre for Environmental Data Analysis (CEDA).

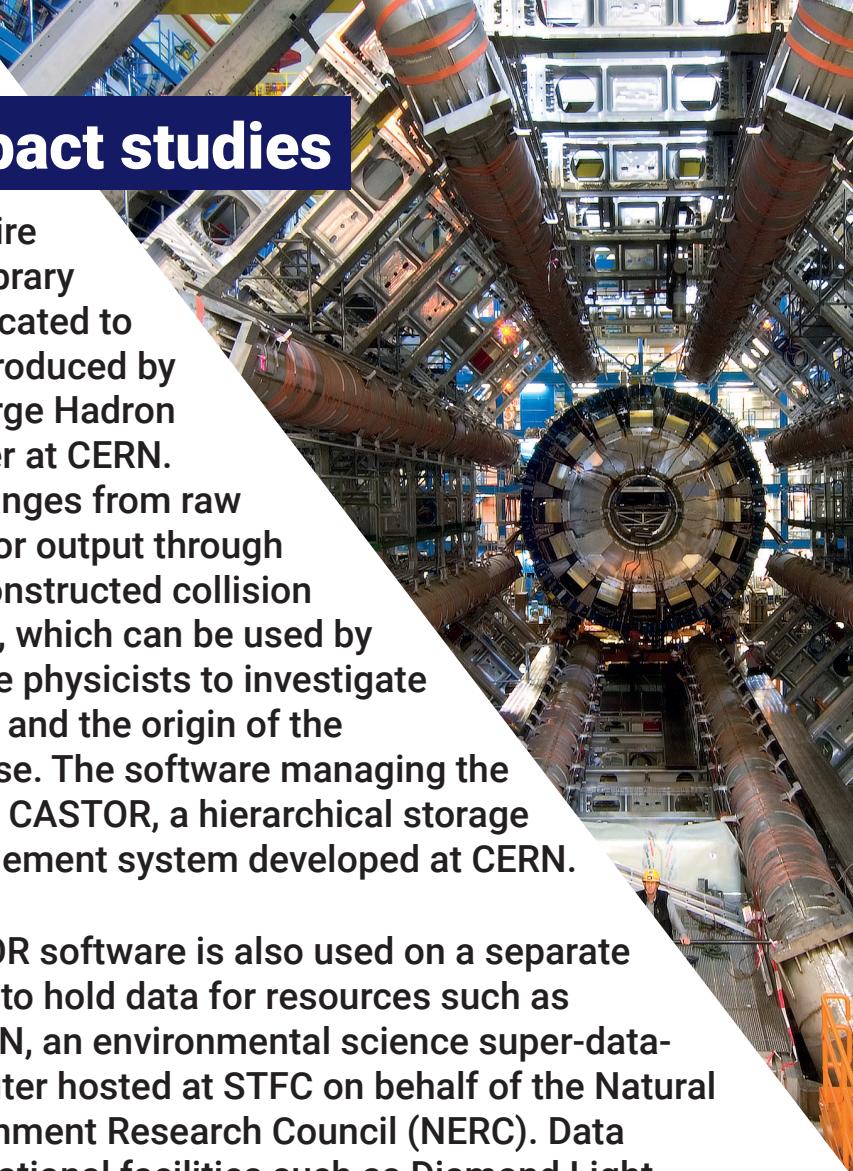


Impact studies

An entire tape library is dedicated to data produced by the Large Hadron Collider at CERN.

This ranges from raw detector output through to reconstructed collision events, which can be used by particle physicists to investigate matter and the origin of the Universe. The software managing the data is CASTOR, a hierarchical storage management system developed at CERN.

CASTOR software is also used on a separate library to hold data for resources such as JASMIN, an environmental science super-computer hosted at STFC on behalf of the Natural Environment Research Council (NERC). Data from national facilities such as Diamond Light Source are also stored in this library, alongside comparatively small quantities of data relating to systems backup and proprietary managed file-systems software.



240PB
data capacity

103
drives installed

up to
400MB/s
throughput per drive

over
179M
files held



Our newest Spectra
TFinity library with
custom panels



credit: Spectralogic