

SMART ARCHIVING SOLUTIONS FOR LIFE SCIENCES RESEARCH DATA

Providing Research Organizations Visibility into Their Data
with an Instantly Searchable, Easy-to-Manage Archive

ADDRESSING MASSIVE DATA GROWTH CHALLENGES IN LIFE SCIENCES

Advances in genomics sequencing, microscopy, and bioinformatics have made it possible to leverage massive data sets to develop vaccines, find cures, and make new discoveries. But the massive amounts of unstructured data being generated is creating challenges for research organizations, including a lack of visibility into data, inadequate storage capacity, escalating storage costs, and the inability to collaborate across research teams.

FROM ACTIVE TO SMART: AN INTELLIGENT ARCHIVE FOR STORING AND PROTECTING DATA

Research data serves as the basis for current and future analysis that needs to be processed and stored, sometimes indefinitely. For multi-petabyte research archives to be truly useful, an 'active archive' needs to be smart with three important capabilities:

1. To find the data needed quickly.
2. To move selected data to and from the archive intelligently.
3. To integrate external tools so that the archive becomes a data pipeline resource.

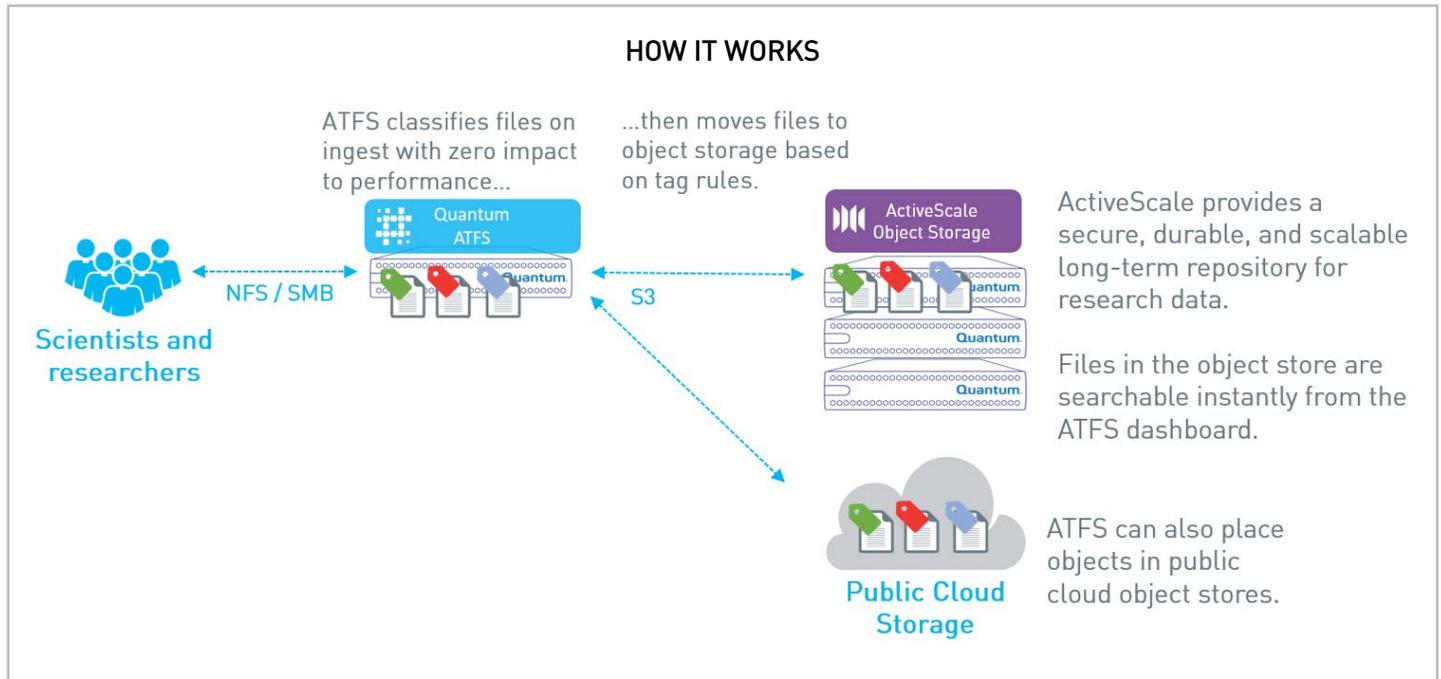
An active archive with these characteristics becomes something much more useful: a smart archive.

SOLUTION BENEFITS

- **Accelerate the research pipeline.**
This solution enables administrators to place data based on research needs, optimizing performance for those who need it, and optimizing costs where required.
- **Protect valuable research data on an "Always On" platform.** ActiveScale™ object storage is highly durable, highly scalable object storage used by some of the world's biggest scientific research institutions as a repository for microscope images and other forms of bioinformatics data. Combining it with ATFS offers a uniquely searchable smart archive.
- **Address requirements for massive scale long-term storage.**
This solution addresses the massive volume and capacity requirements associated with storing and retaining large-scale imagery used in life sciences—for years, decades, and longer.
- **Stop spending money on unnecessary storage.**
This solution gives research organizations new levels of visibility into the files they are managing and storing, so administrators can identify unnecessary or duplicate data and take action.

ATFS + ACTIVESCALE = SMART ARCHIVE

From genomics to pharmaceutical to medical research, our smart archive solution enables research organizations to rapidly ingest, access, share, and achieve insight from all of their data at less cost. Quantum offers a new class of 'smart' archive for research data used in life sciences. The combination of Quantum's ATFS NAS platform with ActiveScale Object Storage provides research departments visibility into their data with a highly scalable, easy-to-manage archive.



Explore our smart archiving solutions for life sciences at: www.quantum.com/smart-archive



Quantum technology and services help customers capture, create, and share digital content—and preserve and protect it for decades at the lowest cost. Quantum's platforms provide the fastest performance for high-resolution video, images, and industrial IoT, with solutions built for every stage of the data lifecycle, from high-performance ingest to real-time collaboration and analysis and low-cost archiving. Every day the world's leading entertainment companies, sports franchises, research scientists, government agencies, enterprises, and cloud providers are making the world happier, safer, and smarter on Quantum. See how at www.quantum.com.