

# Move Life Sciences Beyond Legacy Data Management

SOLUTION BRIEF

Scientific data trapped inside silos, legacy data systems, or *ad hoc* file shares block access to critical insights. Free your data and tap its full potential with the Tetra Scientific Data Cloud™.

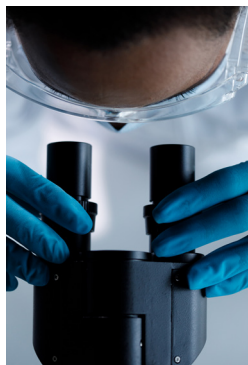
*You need insights to accelerate innovation and improve scientific outcomes, but legacy data management solutions come up short. Biopharma researchers and data scientists invest over **50% of their time** manually searching for, interpreting, and preparing data for advanced analytics.*

There's a better way.

## REALIZE THE FULL POTENTIAL OF YOUR SCIENTIFIC DATA

The Tetra Scientific Data Cloud enables your *entire* scientific data journey. Your data goes beyond being stored, accessible, and centralized in the cloud to being harmonized in an open, vendor-agnostic format and enriched with metadata for scientific context. Now, with a simple browser-like search, the data you need are at your fingertips.

The result? A productivity leap for researchers and data scientists, who are now free to focus on higher-value work that fuels innovation.



What could your  
scientific teams achieve  
with an **additional  
50% bandwidth?**

\*FAIR = Findable, Accessible, Interoperable, Reusable

## Tetra Scientific Data Cloud Benefits

### CENTRALIZED, ENRICHED, AND HARMONIZED DATA

- **Increases team efficiency** by flexibly connecting all scientific data using simple-to-manage, productized integrations
- **Improves data access and reliability** with automatic data flow across ELNs and informatics applications without manual, error-prone data transfers
- **Accelerates innovation** through actionable data prepared for advanced analytics, visualization, and AI/ML

### EASY ACCESS TO FAIR\* SCIENTIFIC DATA

- **Scales elastically via cloud-native infrastructure**, reducing costs to administer, maintain, and upgrade systems
- **Eliminates data silos and centralizes data** to simplify access and management of scientific data

### SIMPLE ARCHIVE, RETRIEVAL, AND RESTORATION OF ALL HISTORICAL DATA

- **Enriches using metadata** to enable search with scientific context so you can find critical data more easily and quickly
- **Ensures regulatory compliance** through a complete audit trail, continuous qualification, and logging & monitoring

Requirement	Legacy Solutions	Tetra Scientific Data Cloud
<b>HARMONIZED, USABLE DATA</b>	Data can only be archived and restored	Data are harmonized, enriched, and actionable for analytics, visualizations, and AI/ML
<b>SEAMLESS EXPORT</b>	Files must be exported from instruments and informatics applications — no continuous stream of data sources	Data, files, and logs automatically transferred continuously with metadata extracted, audit trail established, integrity confirmed, and data harmonized into a vendor-agnostic format
<b>EASY RETRIEVAL</b>	Data scattered across multiple legacy data management solutions and <i>ad hoc</i> file shares increase time and effort to locate and retrieve information	All historical data centralized in the cloud and enriched, enabling faster and easier search using scientific context
<b>DATA LIQUIDITY</b>	Data sits statically in silos, unable to be easily shared across devices and endpoints from multiple vendors that may use a variety of formats	Unified data in the cloud are current, liquid, and accessible by a variety of instruments and applications across vendors, including ELN/LIMS
<b>RAPID AUDITABILITY</b>	Audit trail is often incomplete and not easily retrievable across all instruments and applications	All scientific data and change history are archived in a single location in the cloud, providing a complete historical record
<b>ELASTIC SCALABILITY</b>	On-premises, physical servers are often required, which are expensive to scale and maintain	Cloud-native scalability and elasticity support growing compute and storage requirements



TetraScience is the pioneer of the Tetra Scientific Data Cloud, along with other software and solutions that fuel scientific advancement and innovation at scale.

To learn more about how the Tetra Scientific Data Cloud can unlock the power of harmonized, FAIR, data in the cloud and accelerate innovation across your teams, visit [tetrascience.com](https://tetrascience.com)