

# Tetra Scientific Data Cloud for Scientists

GUIDE

## Scientists want to do better science, faster, but face many scientific data challenges:

- Wasting time searching for scientific data across different instruments, repositories, tables, notebooks, and other scattered data systems
- Repeating experiments due to inaccessible experimental data, poor data quality, or lost results
- Manually transcribing, moving, curating, and preparing scientific data

These challenges result in reduced scientific workflow efficiency and struggles making data-driven decisions.

The Tetra Scientific Data Cloud™ addresses these challenges by connecting laboratory instruments, enriching data with metadata to provide context, and enabling scientists to interact with data in near real time. Scientific data seamlessly flows between instruments and applications, allowing scientists to view experimental results and analyses in their visualization tool of choice.



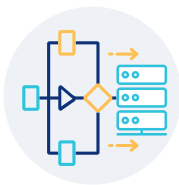
### Integrate & Automate

- Eliminate tedious manual entry, transcription, preparation, and moving of data
- Update electronic laboratory notebook (ELN) and laboratory information management system (LIMS) entries automatically







### Enrich & Search

- Capture and organize metadata, enriching scientific data with essential context
- Enable rapid search, discovery, and analysis in visualization tools, like Spotfire and Tableau



### Harmonize & Analyze

- Compare data sets from different vendors and instruments using a common data format
- Reuse scientific data across analytics, visualization tools, and AI/ML to gain insights

Before TetraScience	After TetraScience
Scattered experimental results across disconnected data silos and <i>ad hoc</i> file store systems	 Quickly search for and find any scientific data, regardless of raw data format, and access it through your application of choice
Tedious, error-prone manual processes to record data, analyses, and visualizations within an ELN	 Automatically capture experimental data within an ELN, eliminating errors and increasing efficiency
Manual processes limit workflow efficiency, such as applying metadata or preparing data for analysis	 Automated data collection, metadata enrichment, and preparation for analytics and visualizations
Manual transcription, staff turnover, or transporting data using USB drives may result in corrupted or lost data	 Data captured and stored in a secure and easily accessible location in the cloud

The Tetra Scientific Data Cloud automates the collection of scientific data from laboratory instruments as well as the preparation of data for analysis and visualization. This eliminates time-consuming and error-prone manual processes. Scientists are able to more easily and reliably find and access all of their scientific data – centralized in the cloud.



TetraScience is the Scientific Data Cloud company with a mission to transform life sciences, accelerate discovery, and improve and extend human life.

**To learn more about how the Tetra Scientific Data Cloud can help scientists achieve better and faster science, visit [tetrascience.com](https://tetrascience.com).**

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