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The Scientific Data Cloud Company

FACT SHEET

Data is the lifeblood of biopharmaceutical innovation. TetraScience is here to unlock the full value of that data. We have already helped numerous companies, from complex, large-scale enterprises, to biotech, to contract research and manufacturing organizations.

The first cloud platform designed for scientific data
Centralize, harmonize, and unlock experimental data to accelerate discovery

~100 engagements
across the pharmaceutical lifecycle including research, development, manufacturing, and QA/QC

Revolutionizing scientific data
The Tetra Partner Network, life science's largest ecosystem of vendors

The world's scientific data holds the answers to life's greatest challenges. But today, that data is unstandardized, unconnected, and underutilized. *We are changing that.*

Corporate Headquarters | 177 Huntington Avenue, Suite 1703, Boston, MA 02115
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Right-sized life-science solutions

Case Studies

Large Global Enterprise:

Challenge: Accelerate biologics discovery and development across a global corporation

Tetra Solution: The Tetra Scientific Data Cloud enabled this company to automate manual workflows and structure their data to a central, accessible location. This enabled rapid iteration of experimental research and significantly reduced time to error detection within high-throughput screening (HTS) workflows. It thereby accelerated identification of target compounds.

- **16 million files from 46 pipelines across 13 departments** harmonized and onboarded
- **From 10 days to 10 minutes** to prep and analyze data
- **76 hours per week** shifted away from manually preparing data for CROs
- **90% faster** pipetting error detection

CDMO:

Challenge: Design a data infrastructure for a suite of gene-therapy contract development and manufacturing organization (CDMO) facilities

Tetra Solution: TetraScience and the company partnered to create the "Connected Plant," a secure, digital CDMO with real-time, remote-accessible instrument and application monitoring and reporting. This enables quick performance assessments and good manufacturing practice (GMP) compliance.

- **0 paper files bins** or unsearchable warehouses
- **Secure, GMP-enabling system:** Fully remote and centralized system performance and compliance monitoring/reporting
- **Standardized data:** Powering early-stage insights, improved manufacturing processes, and future AI/ML integration

Biotech:

Challenge: Significantly reduce the multiple hours scientists spent each week on manual data transfers

Tetra Solution: TetraScience integrated with liquid handlers and plate readers across the company, automatically aggregating data and transferring it to analytics without any manual intervention. This helped the lab increase throughput and productivity.

- **1 hour:** Average time saved per run for data aggregation
- **162 full work days** shifted to higher-value work
- **4X** more compounds screened per week

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Integrations spanning the product life cycle

Integrations	
Hamilton Microlab STAR liquid handler **High throughput screening (HTS)**	**Improved error detection to <2 minutes** The Tetra Scientific Data Cloud successfully integrated with the Hamilton Microlab STAR liquid handler in a genetics lab undergoing exponential data growth. The Tetra Scientific Data Cloud helped scientists detect errors in HTS much sooner, reducing pipetting error detection to under 2 minutes.
Äkta and UNICORN **Chromatography**	**Eliminated manual data transcription providing near "real time data capture"** The Tetra Scientific Data Cloud automatically ingests, stores, and publishes Äkta chromatography data in UNICORN to Benchling. Scientists can now simply log in and their data is immediately available. Scientists can now track pipeline status and quickly determine whether a run was completed successfully. This allows scientists to programmatically access and interact with the data, build dashboards, and run reports for analysis. They can now also utilize legacy data by searching data warehouses.
PerkinElmer Envision, Tecan, Titian, and Dotmatics **Oncology R&D workflow**	**1 hour saved per run** The Tetra Scientific Data Cloud automated oncology R&D workflows and eliminated manual tasks. Scientists can now refocus on higher value work as data is automatically migrated from compound registration, liquid handlers, and plate readers to inventory management, electronic laboratory notebooks (ELNs), as well as analytics and visualization tools. Automating this process saved 1 hour per run and centralized their compound management.
NovoCyte Quanteon and Cytoflex LX Flow Cytometers **Flow cytometry workflow**	**Accelerated Investigational New Drug Application (IND) package preparation** The Tetra Scientific Data Cloud simplified immunophenotyping workflows for a CAR-T research organization. Replatforming to the Tetra Scientific Data Cloud simplified cytometry runs by bypassing time-consuming manual data manipulation tasks, reducing workflow times from days to hours. It thereby accelerated IND-package preparation, while enabling automatic publication for rapid analysis and visualizations.

Find out why 15 of the top 25 biopharma companies trust TetraScience with their scientific data at **tetrascience.com**.

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