Untangling Biopharma Data

Can you really do it yourself?

BUILDING A DO-IT-YOURSELF (DIY) SOLUTION IN HOUSE TO MANAGE SCIENTIFIC DATA COSTS TIME AND MONEY, INTRODUCES RISK, AND SHIFTS FOCUS AWAY FROM THE SCIENTIFIC MISSION.

Biopharma organizations use data to unlock insights and drive innovation. R&D IT teams often consider building a data management solution in house to gather, organize, and make data accessible to laboratory scientists, data scientists, and others across the organization and business.

Teams start by connecting a few simple point-to-point integrations between individual lab instruments or informatics applications, but often find complexity increases as they need to incorporate more solutions. Building these solutions requires R&D IT and scientists to dedicate time to researching vendor technologies, developing custom software, and supporting integrations and data processing. Beyond the time and cost, building and maintaining DIY solutions takes life sciences organizations away from the core mission of scientific discovery.

TETRA R&D DATA CLOUD

Tetra R&D Data Cloud is a cloud-native, data-centric platform that automates the full life cycle of R&D data to provide centralized, harmonized, searchable, and actionable scientific data in the cloud.

Data Acquisition	Data Harmonization	Data Engineering + Integration	Data Management + Collaboration	Data Science in the Cloud
Unify siloed data through productized lab instrument and software integrations	Harmonize heterogeneous R&D data into a vendor-agnostic, open format	Automate complex data processing through flexible pipelines and integrations	Centralize and ensure R&D data is searchable, secure, accurate, and FAIR	Accelerate innovation and discovery through cloud-native data exploration and analytics

The Tetra R&D Data Cloud is the only platform built for life sciences that provides productized integrations with lab instruments and informatics applications, harmonization across a multitude of industry data formats, and data enrichment driven by life sciences use cases. The Tetra R&D Data Cloud automates and connects data across the entire life sciences lifecycle, providing the reliability, security, and compliance needed by biopharma organizations.

DO-IT-YOURSELF (DIY) CHALLENGES ADDRESSED BY TETRA R&D DATA CLOUD

Do-It-Yourself Challenges	Tetra R&D Data Cloud
Unanticipated complexities and costs arise when developing custom integrations to acquire data from different vendors, harmonizing and unifying multiple data formats, automating manual processes, and building cloud-native data storage.	**Achieve faster time-to-value** through productized integrations with lab instruments and applications, centralized and harmonized data, lifecycle automation, and easier data exploration and analytics.
Scarcity of cloud + science expertise and knowledge of vendor technologies increases development time and costs and shifts the focus of the organization to researching, building, and supporting solutions and away from solving scientific challenges.	**Reduce costs and improve quality** through cloud-native solutions used to address the R&D data challenges of biopharma companies. Leverage TetraScience's vendor knowledge and technical partnerships to build solutions better and faster.
Maintenance and enhancements — needed to resolve bugs, add new capabilities, and integrate new data — require dedicating valuable software development and support to improving the DIY data management solution.	**Benefit from dedicated domain experts** who monitor and update system capabilities and provide purpose-built integrations that can be adapted to the unique needs of biopharma organizations.
Limited, point-to-point solutions address specific problems but may not have the flexibility and extensibility to solve future challenges. Additional development efforts are needed to integrate new data, update vendor protocols, and unify scientific data access.	**Reduce time to find and access scientific data** with a centralized data cloud, extract insights through advanced data exploration and analysis, and gain the adaptability to integrate new data solutions or enhance existing ones.
Difficulty achieving GxP compliance — teams must focus on quality, data integrity, and security, while supporting regular audits to ensure processes and solutions adhere to regulatory and security standards.	**Reduce risk and ensure data accuracy, integrity, and security** through 21 CFR Part 11, Annex 11, GxP compliance and a complete audit trail. TetraScience's "culture of compliance" monitors and reduces risk and ensures quality and security through a deep understanding of scientific data.

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TetraScience is the Scientific Data Cloud™ company with a mission to accelerate scientific discovery and improve and extend human life.

To learn how you can unlock the power of harmonized, FAIR data in the cloud with the only open, cloud-native platform purpose-built for science, visit tetrascience.com

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