BROCHURE

Unlock your data with an AI booster

Centralize GSK's enterprise and R&D data for enhanced AI deployments and decision-making

NetApp

Breakthrough targeted cloud therapy

Drug development has always been a data-driven pursuit. That's why leading pharmaceutical companies like GSK are always seeking to enhance how they manage data. The greater accessibility and cost-effectiveness of cloud makes it one of the key avenues to achieving this.

Cloud adoption accelerated during the pandemic as companies sought to maximize global collaboration and the ability to handle large volumes. Meanwhile, with new testing methodologies and more advanced equipment constantly being incorporated, the size of datasets is quickly outstripping the capability of legacy storage systems.

But staying ahead of storage requirements and finding efficiencies is not the endgame for cloud in life sciences. Rather, it's being able to analyze and extract insights from that data and leverage them for value and better decision-making that counts.

Utilizing cloud storage for its inherent cost-saving is only the beginning. It's the data management, AI, machine learning, and automation capabilities it enables that holds the greatest promise when it comes to unlocking new revenue streams, accelerating successful drug discovery, and taking products to market faster.

Big data, bigger potential

In drug discovery and development, effectively analyzing big data is imperative – and AI is hands down the best tool for the job. The bigger the dataset, the better the value that AI represents. And what's more, large data volumes are vital to training effective algorithms, so the more you deploy it, the stronger it becomes.

Successful AI deployments allow for more targeted problem-solving and allow for accurate decisions to be made earlier in the process. AI rapidly accelerates R&D timelines while reducing costs and, crucially, increase outcome success rates.

However, delivering successful AI initiatives is by no means easy. From clinical trials to enterprise planning, life sciences companies need to process a vast array of data in a wide variety of formats. With legacy data warehousing, a great deal of time is spent ingesting, cleaning, and organizing data. This means AI can't receive the free-flowing data it needs to operate or even be trained optimally.

3.6 million

Number of datapoints now generated during Phase III clinical trials – 3 times the number collected during late-stage trials 10 years ago

Source: *Forbes, 2022*

80%

Proportion of pharmaceutical data that exists in unstructured text, which is difficult to extract and use clinically or commercially

Source: *Drug Discovery Trends, 2021*

“For a very long time, we’ve been dealing with giant datasets. Ever since screening enabled us to test millions of compounds at any point in time, we’ve always had datasets larger than we could cope with.”

Julie Huxley-Jones,
Head of Research Solutions, GSK
Source: *Accenture, 2022*

“One of the key challenges is automating tagging because of the velocity and variety of the data that is generated across the research hubs and collaborations. We are constantly trying to decrease the delay in having production ready datasets.”

Michael Montello,
Senior Vice President R&D Tech, GSK
Source: *Bio IT World, 2021*

AI rests on data handling prowess

When data is seamlessly connected, AI can draw insights from datasets faster. This has implications for everything from cognitive molecule research and clinical trial data flow to self-healing supply chain applications and product intelligence.

Connecting data is a matter of bridging on-premises and cloud silos, alongside indexing and making data available for new applications. Centralizing data and gaining better oversight doesn't just help AI but leads to business-wide benefits, from audit compliance to the efficient integration, validation, and mining of clinical trial data.

Without a thoughtfully crafted data management plan, insights and value will remain untapped within your data, leading to the loss of competitive advantages. Poor data handling can potentially even make an organization more vulnerable to data theft or loss.

However, the pharmaceutical organizations that can break their silos and let data flow will stand to gain massively. More efficiency, better resource optimization within R&D, and more effective AI & ML deployments—they all add up to budget happiness and faster time-to-market for life-saving new products.

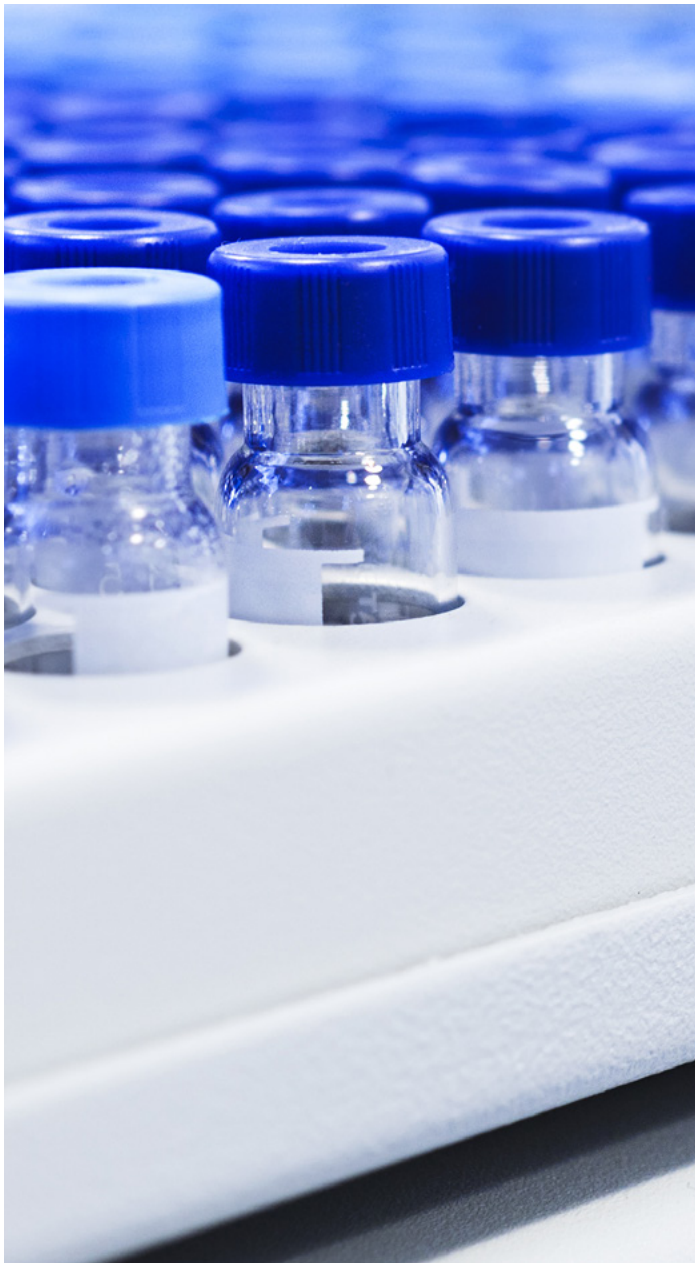
How NetApp can help

As data management specialists, our hybrid cloud data services are second to none. We make it possible to fully unlock the power of data to accelerate your R&D and empower business decision-making.

Seamlessly connected data
NetApp can help unite all your R&D data, whether it's on premises or in the cloud. By connecting your data across your business and lab locations, we can deliver data exactly where, when, and how your data scientists need it—allowing analytics across multiple environments. We also streamline and integrate your entire data pipeline across edge, core, and cloud, enhancing AI and deep learning, data protection, and compliance.

Unlock the full power of AI
NetApp's world-class partner ecosystem provides full technical integrations with AI leaders, channel partners and systems integrators, software and hardware providers, and cloud partners. Our expertise and tools combined put together smart, powerful, trusted AI solutions that help achieve business goals. NetApp Professional Services also delivers the specialist knowledge needed to discover ways to reduce operational complexity and expand your AI opportunities and success.

Optimized performance
NetApp can help you predict application resource need and automatically optimize infrastructure availability, performance, and cost. Scale out or scale up and grow the way the organization needs to grow by easily allocating the necessary bandwidth and performance to support data intensive applications no matter the size of clinical research or trial.



Ready for data control that creates AI possibilities?

Learn more

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