IQVIA HUMAN DATA SCIENCE CLOUD

Your healthcare data deserves more than just a cloud

Introducing the IQVIA™ Human Data Science Cloud. Our unique capability designed to enable healthcare-grade analytics, tools and data management solutions to help customers solve some of their biggest healthcare data challenges.

The explosion of big data across healthcare creates new opportunities for life sciences companies to operationalize modern data science technologies, including artificial intelligence and machine learning (AI/ML). However, the time, upfront investment and dedicated resources required to manage the velocity, variety and volume of the datasets present significant barriers. Over 80 percent of resources are allocated to cleaning data rather than generating insights. The Human Data Science Cloud has the capability to flip that ratio.

A NEW APPROACH TO LONG-STANDING DATA CHALLENGES

We created the Human Data Science Cloud to access, integrate, enrich, and transform data at scale for advanced analytics, machine learning and AI/ML applications. Now we are making this exclusive capability available to our customers, so they can leverage proven approaches to apply Human Data Science to their businesses and move healthcare forward.

>80%

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The IQVIA Human Data Science Cloud is the foundation for data driven insights in healthcare and powers all IQVIA solutions using four key capabilities:

AI/ML ANALYTICS INTERFACE
Commercial analytics solutions leveraging integrated data on a scalable platform that drives commercial precision, speed and scale for IQVIA's life sciences clients
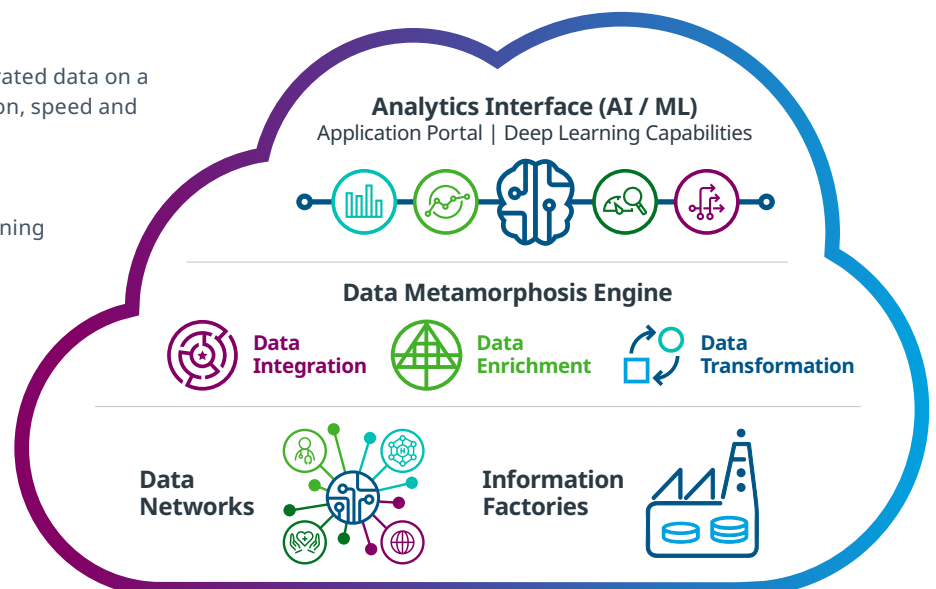
DATA METAMORPHOSIS ENGINE
Creates fit-for-purpose research datasets by cleaning and enhancing data from multiple foundational reference data assets

DATA NETWORKS
Extensive data networks and data extraction & integration capabilities with security & privacy considerations

INFORMATION FACTORIES
The world's largest healthcare information processing factories, processing trillions of global healthcare records every year

Analytics Interface (AI / ML)
Application Portal | Deep Learning Capabilities

Data Metamorphosis Engine
Data Integration
Data Enrichment
Data Transformation

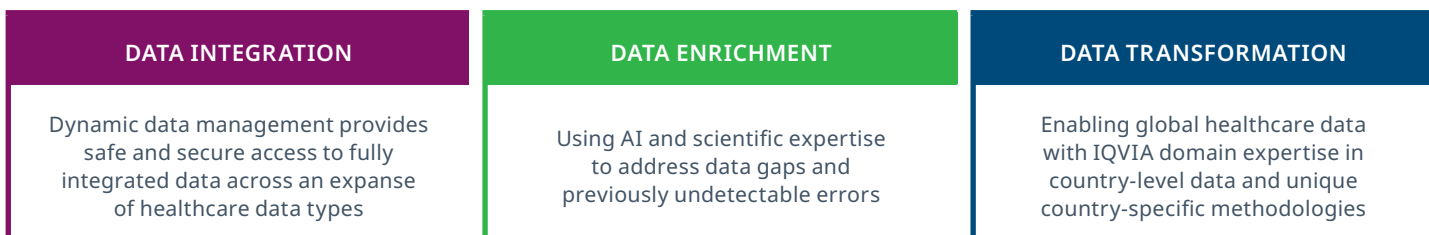**Data Networks**
Information Factories

BUILT TO MEET OUR DEMANDS IN HUMAN DATA SCIENCE. NOW AVAILABLE FOR YOUR BIG HEALTHCARE DATA NEEDS.

IQVIA created the Human Data Science Cloud to address the massively complex requirements of our own business. With over 60 years of experience in global healthcare data and advanced analytics, we built and optimized big data tools and machine learning applications to automate high-volume tasks for accuracy. IQVIA integrates the human factor, employing thousands of data, clinical and healthcare specialists to continuously curate the data for maximum quality.
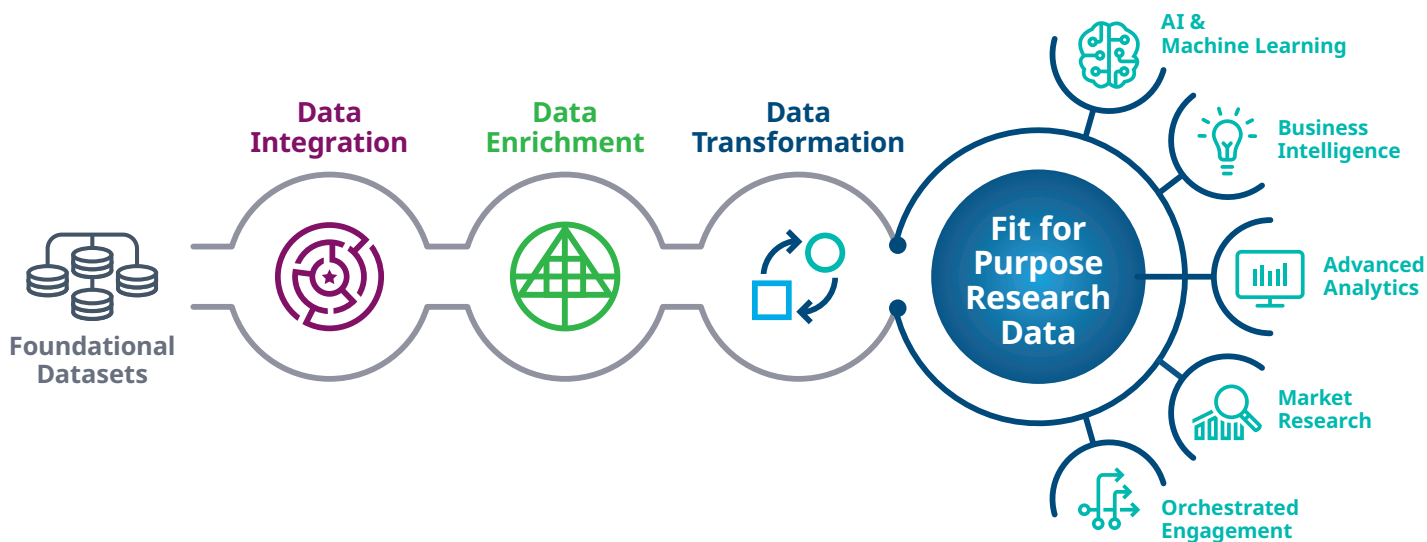
For customers who need a big data foundation to enable their advanced analytics and AI initiatives, the IQVIA™ Human Data Science Cloud is a healthcare-specialized big data management capability that combines global healthcare data, technology, healthcare expertise, advanced analytics, and data science to quickly and safely access, digitize, transform, and deliver data-at-scale, so they can apply Human Data Science to address their biggest challenges, and move healthcare forward.

MAKING THE WORLD'S HEALTHCARE DATA EVEN BETTER

Our Data Metamorphosis Engine is at the heart of the Human Data Science Cloud. Leveraging deep domain expertise, we can transform disparate data sources into integrated healthcare-grade data for your needs.

DATA INTEGRATION	DATA ENRICHMENT	DATA TRANSFORMATION
Dynamic data management provides safe and secure access to fully integrated data across an expanse of healthcare data types	Using AI and scientific expertise to address data gaps and previously undetectable errors	Enabling global healthcare data with IQVIA domain expertise in country-level data and unique country-specific methodologies

Data Metamorphosis Engine

OUR INDUSTRY NEEDED A HEALTHCARE-GRADE CLOUD

The Human Data Science Cloud is truly what a dedicated healthcare cloud should be – not an empty box waiting for data, but a box filled with relevant, high-quality data, tools and domain expertise in global healthcare analytics. It redefines end-to-end data management and integration capabilities, from raw data to insights. Built for IQVIA to meet the needs of Human Data Science. Now available for your big healthcare data needs.
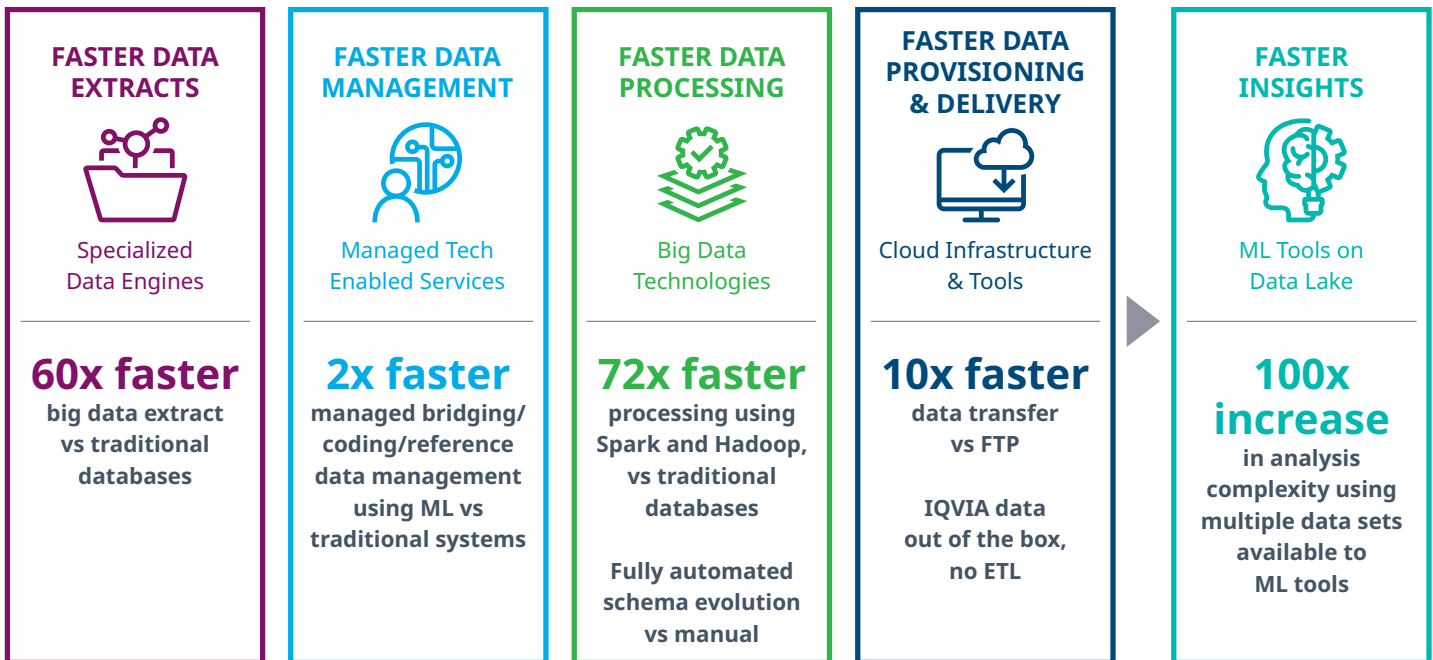
By delivering **fit-for-purpose global data** as well as the **technologies, analytics and domain expertise** for globally scalable data science, it enables **better insights and improved decision making.**

The IQVIA Human Data Science Cloud is **connected to**

>1,000,000

data feeds from over 140,000 global data providers.

6,000+
clinical data curation expert coders

The IQVIA Human Data Science Cloud is enabling a step change for healthcare data

FASTER DATA EXTRACTS	FASTER DATA MANAGEMENT	FASTER DATA PROCESSING	FASTER DATA PROVISIONING & DELIVERY	FASTER INSIGHTS
Specialized Data Engines	Managed Tech Enabled Services	Big Data Technologies	Cloud Infrastructure & Tools	ML Tools on Data Lake
60x faster	**2x faster**	**72x faster**	**10x faster**	**100x increase**
big data extract vs traditional databases	managed bridging/ coding/reference data management using ML vs traditional systems	processing using Spark and Hadoop, vs traditional databases	data transfer vs FTP	in analysis complexity using multiple data sets available to ML tools
		Fully automated schema evolution vs manual	IQVIA data out of the box, no ETL	

ONE OF THE LARGEST PRIVATE HEALTHCARE DATA CLOUDS IN THE WORLD

The Human Data Science Cloud hosts, curates and integrates virtually any data to the highest standards from the ever-expanding sources of global healthcare data. The performance of IQVIA Human Data Science Cloud is optimized for speed and quality, combining the science of machine learning and the art of human data curation.

IMS Health & Quintiles are now

IQVIA™