Looking to the Future

How Data Fabrics Breathe Life Into Healthcare

A Global Motivation

Healthcare organizations face the constant challenge of improving operational efficiency and maintaining the highest standards of patient care. From aging and growing populations to the expanding prevalence of chronic diseases and rapid, but costly, innovations in tools and tech—these are just a few of the developments that are increasing care demand and cost.

Global expenditures on healthcare services are expected to increase at an annual rate of 5.4% between 2017 and 2022—**from $7.7 trillion to $10 trillion.**

Per-person health care spending is expected to continue to vary widely, ranging from **$11,674** in the United States to just **$54** in Pakistan in 2022.

When compared to **10** developed countries, the United States ranked **last** in overall health care performance, and yet its per capita spending was 50% greater than the next country.

Life expectancy is projected to increase from **73.5 years** in 2018 to **74.4 years** in 2022—bringing the number of people aged over 65 globally to more than **668 million,** or **11.6%** of the total global population.
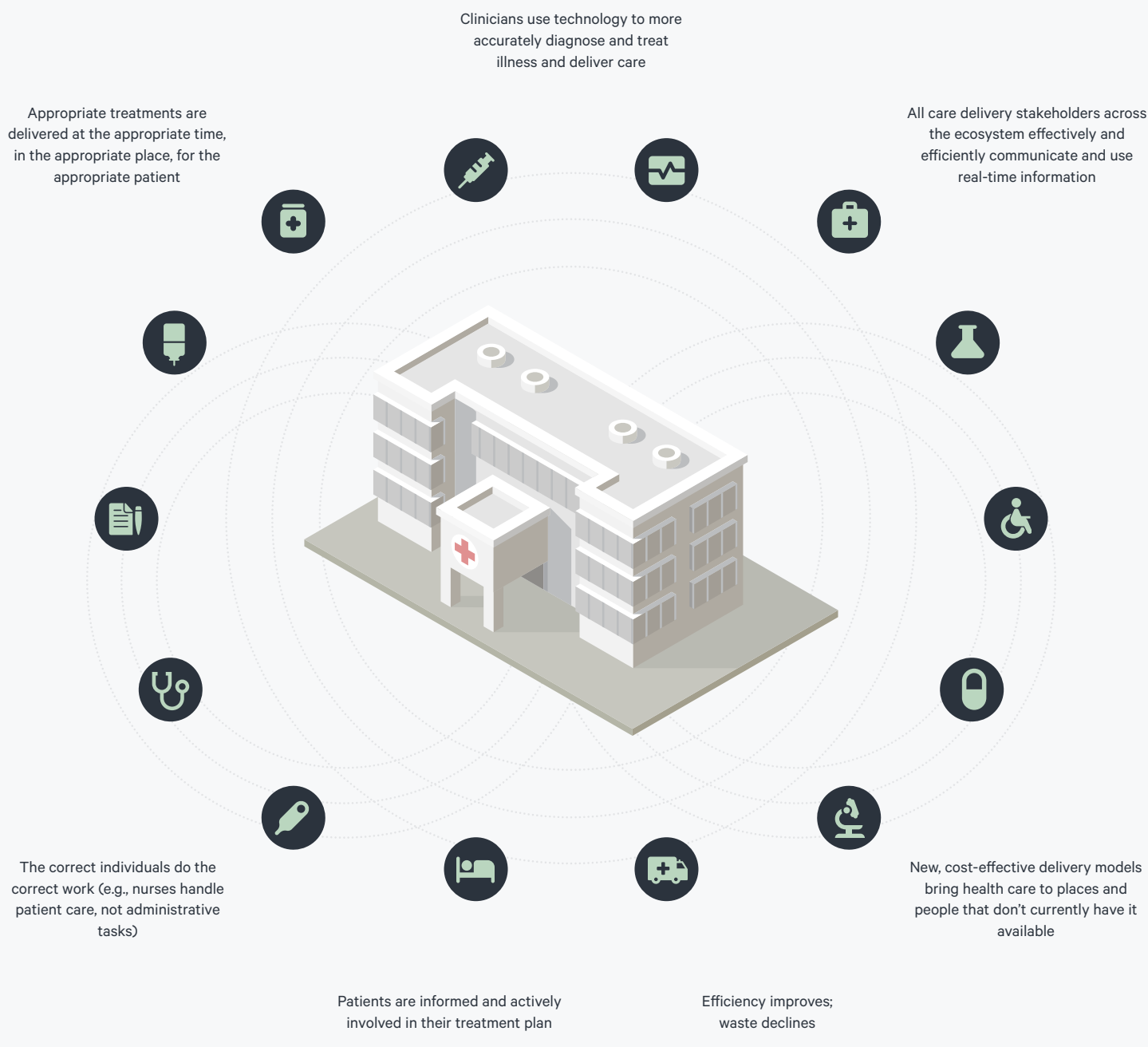
Non-communicable diseases (NCD) accounted for **71%** of the **56.9 million** deaths reported worldwide in 2016; that share is over 80% in the most developed markets. The rise of NCD in developed and developing markets is fueled by urbanization, sedentary lifestyles, changing diets, and rising obesity levels.
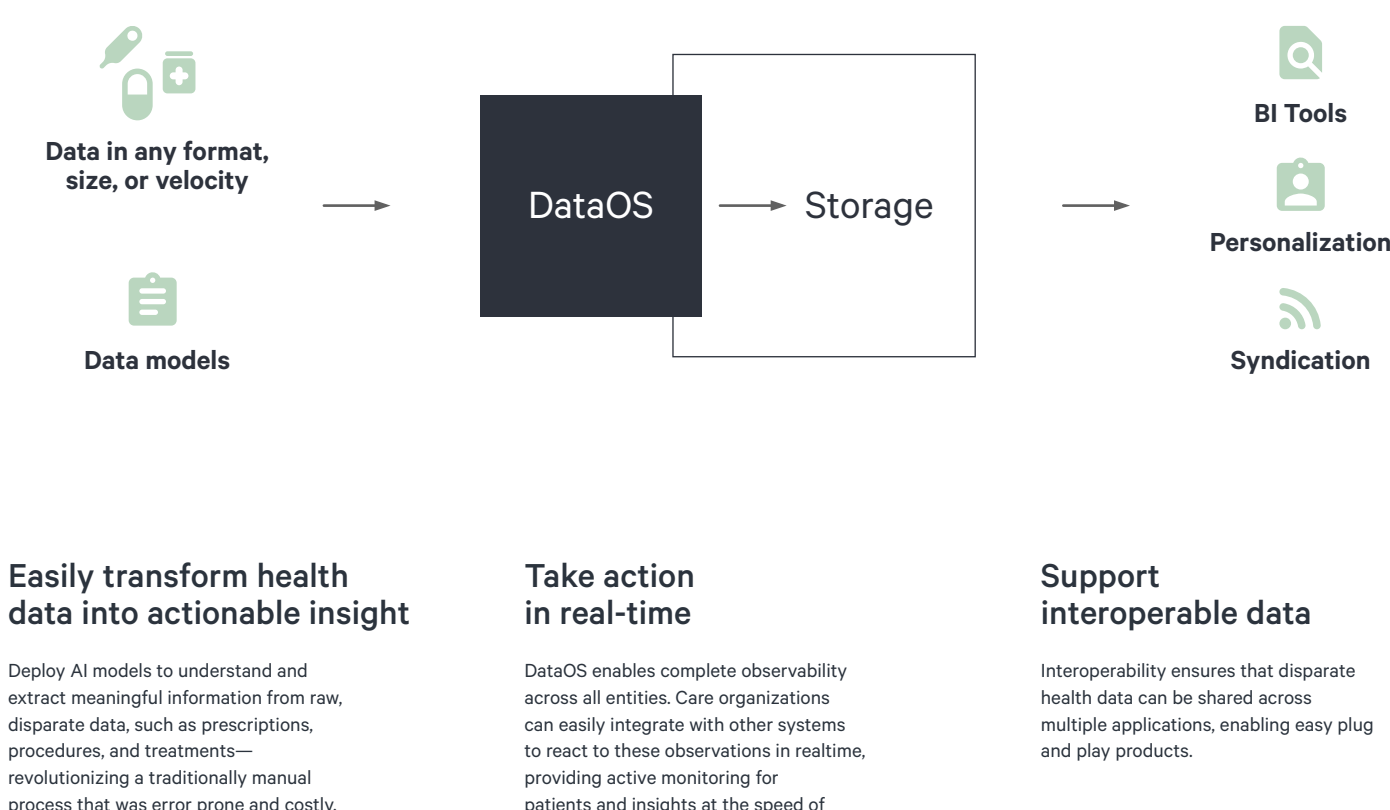
As healthcare organizations continue to invest in innovative tools and technologies, how can they best leverage data to accelerate and improve care for patients?

The Signs of a Healthy Community

Managing clinical, operational, and financial challenges don't have to be a struggle. With the help of a Data Fabric, smart business and care delivery models can help solve today's problems.

Clinicians use technology to more accurately diagnose and treat illness and deliver care

Appropriate treatments are delivered at the appropriate time, in the appropriate place, for the appropriate patient

All care delivery stakeholders across the ecosystem effectively and efficiently communicate and use real-time information

The correct individuals do the correct work (e.g., nurses handle patient care, not administrative tasks)

New, cost-effective delivery models bring health care to places and people that don't currently have it available

Patients are informed and actively involved in their treatment plan

Efficiency improves; waste declines

Data Fabric: Doctor's Orders

Data in any format, size, or velocity

Data models

DataOS → Storage

BI Tools

Personalization

Syndication

Easily transform health data into actionable insight

Deploy AI models to understand and extract meaningful information from raw, disparate data, such as prescriptions, procedures, and treatments—revolutionizing a traditionally manual process that was error prone and costly.

Take action in real-time

DataOS enables complete observability across all entities. Care organizations can easily integrate with other systems to react to these observations in realtime, providing active monitoring for patients and insights at the speed of transaction.

Support interoperable data

Interoperability ensures that disparate health data can be shared across multiple applications, enabling easy plug and play products.

Time to Care

The future of healthcare is already here. But for stakeholders, that future remains on the drawing board. A smart Data Fabric can help stakeholders come together in an iterative process that integrates the views of service providers, users, and administrators. This new, seamless way of working creates a data network that can respond efficiently and effectively to users' needs.

Learn how The Modern Data Company Data Fabric is breathing life back into healthcare organizations. →

About The Modern Data Company

Founded in 2018, The Modern Data Company® (TMDC) began with the realization that enterprise-wide data access has been siloed. Data engineers and database administrators have been the longstanding data gatekeepers who funneled data to analysts and data scientists. We aim to change that by freeing enterprises to make better data-driven decisions by democratizing access to data. When all employees, irrespective of their technical skills or background, can easily explore and analyze enterprise data, then both productivity and market expansion are realized at a faster pace.