



dotmodus

**Driving better operational
decisions and patient
experiences with data**

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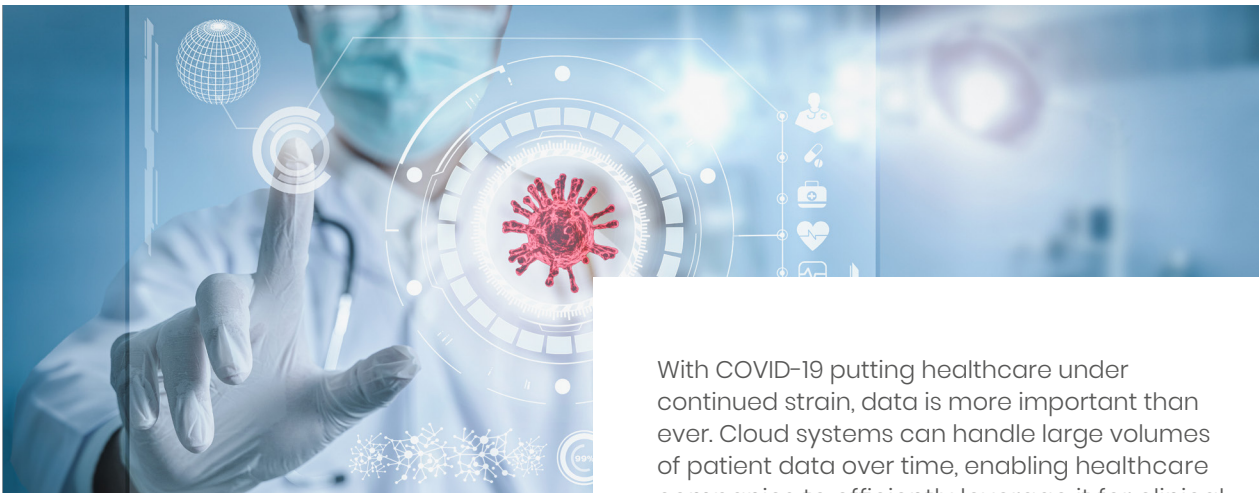
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The pressure for digital transformation has never been higher in healthcare

The COVID-19 pandemic continues to test the limits of North American healthcare providers. Not only have they needed to rapidly surge clinical capacity to cater for the extraordinary pressures of the coronavirus outbreak, they have also had to accelerate the deployment of new approaches to delivering care, such as telehealth.

This is all unfolding against the backdrop of continued pressure to rapidly transition towards outcome and value-based healthcare models, as well as rising expectations about the patient experience and a heavier regulatory compliance burden. Digital transformation was crucial for the sector before COVID-19, but the pandemic has added even more urgency to the imperative. Recognizing that they need to reduce costs to patients and payers while producing high-quality outcomes, healthcare companies are looking to data-driven decision-making as one of the cornerstones of their future business model. To get this right, real-time, unified healthcare data is essential.



With COVID-19 putting healthcare under continued strain, data is more important than ever. Cloud systems can handle large volumes of patient data over time, enabling healthcare companies to efficiently leverage it for clinical outcomes and better patient experiences. The cloud also provides a platform for seamless health information exchange.

Many healthcare companies are putting in place the scalable, resilient infrastructure they need to understand massive data volumes in real-time. The HIMSS Technology Outlook Survey, conducted before the pandemic, found that 39 percent of healthcare IT workloads were already deployed in the cloud today, expected to rise to more than 50 percent over the 12 months to follow.

This paves the way for healthcare providers to harmonize data from electronic health records (EHRs) and other sources in the cloud to make better clinical decisions at the point of care. It also empowers health plans and providers to share data more easily and collaborate under value-based care models.

Healthcare providers will need an end-to-end view of their patient journeys to optimize patient experiences and value outcomes. Yet, they face significant hurdles to driving value from the deep reservoirs of public and internally-owned data available to them today. Healthcare providers must find a way to go beyond being overwhelmed by data to using it to drive optimal outcomes.

The current landscape: fragmentation and trapped value

The speed of change in healthcare—hastened by the impact of the pandemic—demands agile responses from healthcare providers, informed by up-to-the-second data. This comes at a time when innovative technologies such as EHRs, medical imaging, wearables and Internet of Things devices are adding to the volumes of information at healthcare organizations' disposal.

Yet many healthcare providers face significant barriers to using their data to drive big data analytics, artificial intelligence (AI) systems and new healthcare delivery models. Most organizations have fragmented IT environments with significant legacy footprints—resulting in multiple sources of the truth, inadequate data security and governance, and value getting trapped in EHRs.

They also face significant challenges in managing the high velocity and large volumes of data coming into their business. What's more, the need to share data with payers, other providers and other stakeholders is complicated by the sheer number of integration and data exchange standards in the market.

To use information to make timelier decisions, optimize care pathways and streamline operations, healthcare providers need to put in place platforms and processes that enable them to:

1.

Organize and manage data so that it's accessible to people who need it, but secure from everyone else.

2.

Integrate data from multiple sources to provide a single, comprehensive, contextual set of clinical and operational knowledge.

3.

Leverage analytics to gain insights into clinical, financial, and operational workflows, thereby helping to lower costs, reduce staff burnout, and enable better care for more people.

Google Cloud addresses the pain points

Google Cloud for Healthcare can help any healthcare provider to better organize its information and make it accessible and useful to those within the organization and outside it who need it. The Google Cloud platform uses open standards to help enable data sharing and interactive collaboration, while also providing a secure platform.

This clears the way for healthcare providers to easily, securely and instantaneously collaborate while caring for their patients. It also opens up the possibility for them to tap into the potential of AI and machine learning, and to move forward with confidence when it comes to compliance, patient care, and data security



Cloud-powered solutions to the data challenges of today and tomorrow

DotModus provides AI-powered and cloud healthcare industry solutions that help reduce costs, improve decision making and streamline operations.

Cloud infrastructure

To unlock the power of data in healthcare, providers first need to move to the cloud. A cloud infrastructure offers the flexibility to scale computing resources up or down quickly to meet everchanging business needs. It also offers pay-per-use or subscription pricing, turning a capital cost into operational expenditure.

Cloud companies can keep data more secure than healthcare organizations because they can more easily keep up with compliance requirements, access the best security talent necessary to keep data secure, and invest the dollars required to keep up with a changing landscape. Cloud service providers are committed to 99 percent-plus uptime



Data analytics and engineering

A robust data analytics platform will enable an organization to gain insights, mitigate risks and reduce costs. As a trusted Google Premier Partner for Data Analytics, we help healthcare organizations use end-to-end big data processing and low-cost data warehousing solutions to uncover actionable insight from just about any data source.

DotModus can help organizations to configure a data pipeline that automatically organizes data from legacy systems, social media platforms, Internet of Things devices, EHRs and other data sources. We can work with providers to move their data to a cloud-based environment that is reliable, secure and cost-effective.

AI and machine learning

A proliferation of electronic medical records and growing usage of Internet of Things devices and digital health apps means healthcare providers are collecting more data than ever before. AI and machine learning are key to exploiting the full value of this rich, abundant operational and clinical data.

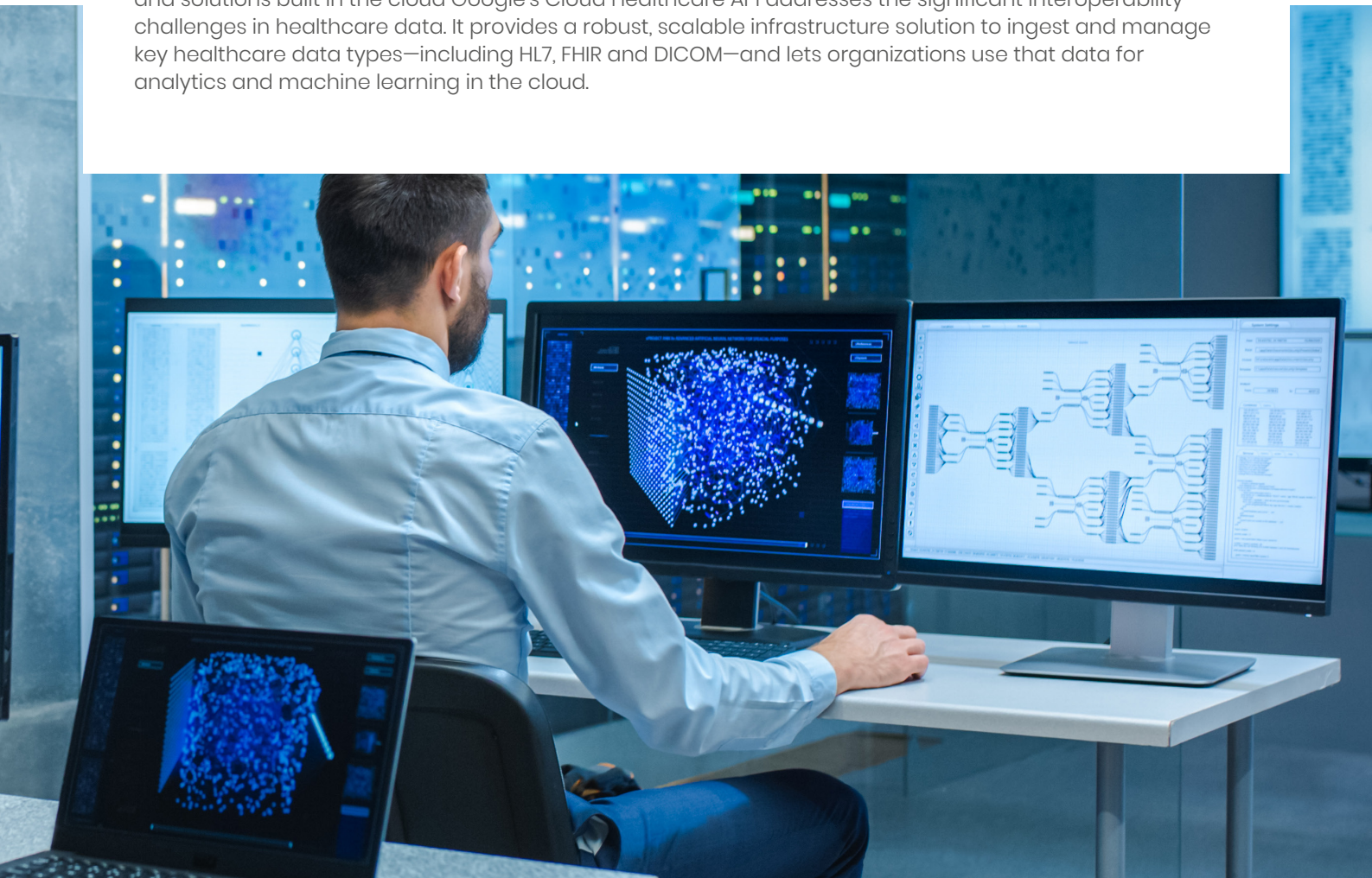
We help organizations to use machine learning to build cognitive systems that streamline operations and deliver flexible, personalized, and cost-effective patient care. Our machine learning solutions reliably learn from the data that they process and improve on their mistakes to ensure outputs and actions that are consistently accurate and relevant.

Machine learning algorithms enable health companies to identify patterns in vast streams of data that otherwise be difficult to identify. Providers can elevate automation by feeding machine learning insights into an AI solution that has been empowered to make smart decisions against given criteria.

This can enable new patient experiences that are more seamless and personalized. Possible use cases include automating data capture processes with a machine learning solution that can accurately extract information from receipts, photographs, form, and other images, as well as supporting patients with AI-powered chatbots and other sophisticated self-service solutions. Clinicians can also benefit from machine learning in applications like analyzing medical images.

Healthcare data interoperability

When cloud platforms include managed data services and healthcare-specific application programming interfaces (APIs), healthcare providers are spared from spending inordinate amounts of time managing data. Healthcare APIs allows easy and standardized data exchange between healthcare applications and solutions built in the cloud Google's Cloud Healthcare API addresses the significant interoperability challenges in healthcare data. It provides a robust, scalable infrastructure solution to ingest and manage key healthcare data types—including HL7, FHIR and DICOM—and lets organizations use that data for analytics and machine learning in the cloud.



Our COVID-19 solution

We have developed a Google Cloud powered platform to automate state and federal mandated COVID-19 reporting, so healthcare providers can focus on patient care rather than on wrangling data. Our data pipeline links seamlessly to EHR systems and rapidly gathers, processes and presents a provider's COVID-19 data in a compliant format.



Benefits

- + Complies with local, state and federal reporting requirements
- + Connects without disturbing your existing IT infrastructure
- + Automatically anonymizes and de-identifies data
- + Allow the provider to schedule hourly, daily or weekly submissions of data
- + Dashboards can be viewed on any device
- + Data is updated according to business rules, with no manual imports and exports
- + Prebuilt COVID-19 dashboards

Collaborating with DotModus on your journey to value-based care

DotModus provides AI-powered data and predictive analytics solutions that help healthcare services improve outcomes and experiences for patients, provide better support and experiences for clinicians, and make more confident strategic and operational decisions. We can help you to meet reporting requirements as well as ONC and CMS interoperability rules more easily.

Contact us on info@dotmodus.com to learn more about how our data solutions enable you to deliver higher quality healthcare and value for patients.

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