## GCP Medical Imaging Suite

Enhanced insights with AI

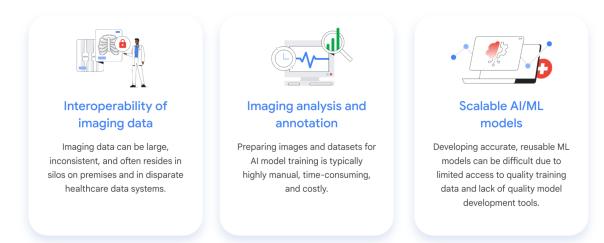
Problem Statement	The vast majority of DICOM image interpretation conducted in a clinical setting are done solely by human interpretation. Misdiagnosis is an unfortunate but true reality that some people face. Whether it be a failure to diagnose a patient's condition, an avoidable delay in correctly diagnosing a patient, or providing a wrong diagnosis for a patient's condition. Each of these issues is a direct cause of poor human interpretation.
Proposed Solution / Value Proposition	Leverage the Google Cloud Platform Medical Imaging Suite to enhance the time to serving results and help doctors better interpret the results of scan. Vertex AI in tandem with subject matter experts will allow us to build and training visual AI models that support doctors in their decision making process.
Results	<ul> <li>Reduced number of misdiagnosis</li> <li>A tool to support doctors to help interpret CT scans</li> </ul>



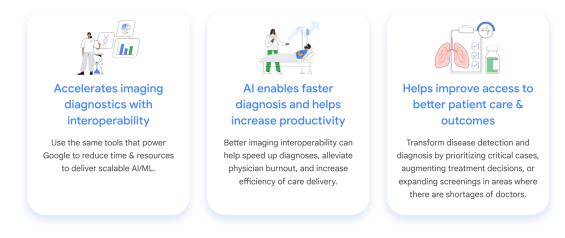
of healthcare data consists of images, which are largely dependent on humans to interpret.

of radiologists in the U.S. reported their workload had increased over the last 3 years.

## Common pain points in delivering AI in Medical Imaging



Google Cloud's Medical Imaging Suite helps organizations realize the potential of AI by making imaging data accessible, interoperable and useful



## Google Cloud's Medical Imaging Suite\*

Medical Imaging Suite Components	Offering	Google Cloud Tech
Imaging Storage	Secure, scalable, standardized and managed cloud storage environment with integrated de-ID	<u>Cloud Healthcare API</u> , <u>DICOM Store</u> , including integrated de-ID functionality
Imaging Lab	Al-assisted labeling and annotation tools to automate highly repetitive tasks	Native integration with any DICOMweb viewer, enabling Al-assisted labeling & annotation tools
Imaging Datasets and Dashboards	Easily view and search petabytes of data for advanced analytics and cohort building	BigQuery and Looker, built to connect, analyze and visualize data at scale with zero operational overhead
Imaging AI Pipelines	Easily transform images & annotations into Vertex AI datasets for a faster model training process	Extract and transform DICOM images and annotations into <u>Vertex Al</u> datasets using <u>Cloud Healthcare API</u>
Imaging Deployment	Flexible options for cloud, on-prem or edge deployment and real-time insights	<u>Google Distributed Cloud</u> , enabled by <u>Anthos</u> , extends Google <u>Cloud's</u> infrastructure and services to the edge

## **Developing Prediction Models - Object Detection**

Improve imaging workflows with AI-powered object detection

