qmed.asia

intel

20% increase
in the efficiency of diagnostic workflows.[1]

50% reduction
in diagnostic costs.[2]

Improving Early-Stage Cancer Detection Rates with Federated Learning

QMed Asia, Malaysia's leading online doctor consultation platform, collaborated with JelloX Biotech Inc. to innovate a federated learning (FL) solution to digitally transform 3D diagnostics in Malaysia. Intel was sought out as a technology partner for its expertise in providing hardware and software for AI, ML, and Computer Vision-based solutions. MetaLite* is an FL solution developed by JelloX to optimize cancer diagnostics and screening. It incorporates QMed Asia's solution architecture with JelloX's 3D medical imaging technology and digitizes medical imaging records such as chest X-rays and pathology slides from pap smears. The process starts with scanning tissue samples with a high-resolution digitizer on glass slides. All big data images are stored and processed in a high-performance computation server. These digitized images undergo visualization by the MetaLite* platform with plug-in AI functions and AI inference to help clinicians and medical professionals accurately diagnose cervical and lung cancer. Protected by Intel® Software Guard Extensions, MetaLite* ensures a "zero-trust" environment, instilling confidence in healthcare providers and patients.

Products and Solutions
Intel® Xeon® Scalable Processors
Intel® Core™ Processors
Intel® Distribution of OpenVINO™ Toolkit

Industry
Hospitals and Health Care

Organization Size
51-200

Country
Malaysia

Partners
JelloX Biotech Inc.

Learn more
Case Study

1, 2 For more complete information about performance and benchmark results, visit https://www.intel.com/content/www/us/en/customer-spotlight/stories/qmed-asia-customer-story.html