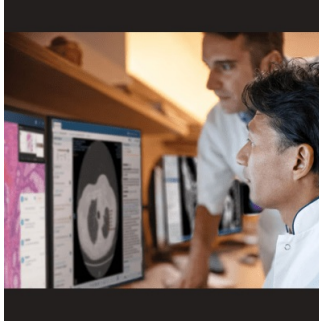## Philips & AWS Team Up: Advancing Digital Pathology in the Cloud

- Cloud offering will help improve workflow integration, access, and reliability, delivering greater productivity and collaboration
- Collaboration combines best of clinical workflow leadership with scalable cloud solution to help accelerate decision-making and further transform patient care

Royal Philips, a global leader in health technology, announced an expanded collaboration with Amazon Web Services (AWS) to address the growing need for secure, scalable digital pathology solutions in the cloud. The collaboration unites Philips' leadership and expertise in digitization of pathology to optimize clinical workflows and AWS' leadership in scalable, secure cloud solutions.

Philips and AWS will advance digital pathology and help pathology labs to efficiently store, manage, and analyze growing volumes of digital pathology data and enable more pathology labs to adopt digital workflows to increase productivity. In addition, pathology labs will be able to optimize workflow efficiency and facilitate collaboration among specialists, enabling seamless integration with existing healthcare systems to deliver holistic patient care.

Through examination of patient tissue samples, pathology plays a crucial role in the diagnosis and management of a variety of diseases, particularly cancer. With an estimated 70% of important medical decisions involving laboratory or pathology tests [1], the availability of digitally stored pathology images is especially important as it has a significant impact on patient care. The growing need for scalable storage to meet new data volumes and computing resources to power innovative artificial intelligence (AI) models, calls for expanding capabilities of traditional on-premise solutions into the cloud.

> By harnessing the power of the cloud to accelerate the digitization of pathology, we are improving the quality of patient care by enabling greater workflow efficiency and collaboration at scale.

- Shez Partovi, Chief Innovation & Strategy Officer and Chief Business Leader Enterprise Informatics at Philips

"By harnessing the power of the cloud to accelerate the digitization of pathology, we are improving the quality of patient care by enabling greater workflow efficiency and collaboration at scale," said Shez Partovi, Chief Innovation & Strategy Officer and Chief Business Leader Enterprise Informatics at Philips. "As the demand for pathology-based diagnosis continues to increase, we see digital pathology in the cloud as a critical enabler for productivity, scale and to further transform healthcare diagnostics by opening new avenues for research, education, and the integration of AI to further improve patient care."

Philips is an industry-leading provider of digital pathology solutions, with more than 300 customers using the fully digital workflow of Philips IntelliSite Pathology. Philips' collaboration with AWS has the potential to enable large scale clinical trials, multi-institute studies, and care collaboration to address complex cases, including in cancer care. Philips will use AWS HealthImaging to optimize storage, increase scale and enable AI and research across the healthcare system to advance pathology image analysis and simplify clinical workflows. Additionally, Amazon Bedrock, which offers high-performing foundation models (FMs), will support generative AI application development and integration.

"Healthcare organizations benefit when clinical workflow leadership is combined with scalable cloud infrastructure. By building their cloud-native enterprise pathology solution on services like AWS HealthImaging and Amazon Bedrock, Philips is offering their customers the best of both worlds," said Tehsin Syed, GM of Health AI at AWS. "Secure cloud-based offerings address the growing demand to store and utilize more data, and by digitizing pathology healthcare leaders can apply AI and ML to drive better insights. We look forward to continued work with Philips to help improve productivity, advance research, and ultimately enable more precise and tailored patient care."

Combined with Philips HealthSuite Imaging on AWS to support radiologists, Philips' broad capabilities in enterprise informatics enable an integrated diagnostics approach to empower clinicians with improved diagnostic workflows, quicker access to images from any location – helping along the entire workflow across enterprise imaging, from diagnosis to treatment options and follow-up.

Source & Image Credit: Philips

Reference:

[1] Report of the Second Phase of the Review of NHS Pathology Services in England, Lord Carter of Coles (2008). Results are specific to the institution where they were obtained and may not reflect the results achievable at other institutions.

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