

Siemens Healthineers SHAPE 21 Imaging Press Conference, November 18, 2020

Siemens Healthineers introduces Syngo Carbon – a new software environment for enterprise wide image reading and reporting

- **Improved interdisciplinary sharing of images and reports**
- **Flexible, modular IT infrastructure**
- **Integrated AI tools and automation help improve efficiency**
- **Structured report data facilitates - among others - use of treatment guidelines**

With Syngo Carbon¹, Siemens Healthineers assures easy access to all relevant data generated in the processes of imaging and reporting. Data from different departments is drawn out from various silos and integrated as part of a unified environment, including diagnostics and assessment, simplifying workflows, and making it easier for different areas to work together. “Our day-to-day clinical environment is highly fragmented,” comments Christian Zapf, Head of the Syngo Business Line at Siemens Healthineers. “But we face a demand to have clinical images and datasets comprehensively prepared and enhanced using AI, and to ensure knowledge can be shared. Many clinical departments have their own systems for image management, archiving, and drawing up findings. That means reports can differ greatly, and the data isn’t always universally available. Syngo Carbon offers our customers a modular, multi-departmental solution that can both manage and represent all kinds of imaging and report data in a patient-centered form. Structured data is automatically generated and made available via standardized interfaces such as FHIR (Fast Healthcare Interoperability Resources). The seamless transmission of measurements in clinical images also speeds up and simplifies the diagnostic process. Thanks to Syngo Carbon, reports that previously only existed as free text are made available to all departments in quantified form suitable for automated processing, e.g. for the application of treatment guidelines. All this ensures greater diagnostic safety, less redundancy, and more efficiency in our day-to-day clinical activities.”

Syngo Carbon protects existing investments by integrating and continuing to use existing technologies and data. It also incorporates existing Syngo solutions conveniently and seamlessly. Its open data concept is another key aspect in making it possible to incorporate third-party solutions, enabling data management and archiving systems from various departments within a hospital to be combined and consolidated. Integrated AI tools help with the efficient performance of image-based diagnostics. Unlike a traditional Picture Archiving and Communication System (PACS), the focus in this case extends beyond only DICOM-based medical images. Syngo Carbon works with all image-related data of relevance for diagnostics and decision-making. Examples include images from pathology, endoscopy, and cardiology, and information generated as part of a longer process, e.g. camera images from surgery to document the condition of a wound.

Syngo Carbon is the starting point for a new type of company-wide system for imaging and reporting, which combines existing technologies to form a unified solution. Refinements are made in close collaboration with users. Thanks to its open architecture, it can adapt to constantly changing conditions, modules and functions can be expanded, and the system can be scaled to suit customer needs.

¹Syngo Carbon is under development and not commercially available. Its future availability cannot be ensured.

This press release and a press picture is available at

<https://siemens-healthineers.com/press-room/press-releases/syngo-carbon.html>.

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Siemens Healthineers AG (listed in Frankfurt, Germany: SHL) is shaping the future of Healthcare. As a leading medical technology company headquartered in Erlangen, Germany, Siemens Healthineers enables healthcare providers worldwide through its regional companies to increase value by empowering them on their journey towards expanding precision medicine, transforming care delivery, improving the patient experience, and digitalizing healthcare. Siemens Healthineers is continuously developing its product and service portfolio, with AI-supported applications and digital offerings that play an increasingly important role in the next generation of medical technology. These new applications will enhance the company's foundation in in-vitro diagnostics, image-guided therapy, and in-vivo diagnostics. Siemens Healthineers also provides a range of services and solutions to enhance healthcare providers' ability to provide high-quality, efficient care to patients. In fiscal 2020, which ended on September 30, 2020, Siemens Healthineers, which has approximately 54,000 employees worldwide, generated revenue of €14.5 billion and adjusted EBIT of €2.2 billion. Further information is available at www.siemens-healthineers.com.