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Siemens Healthineers Digital Ecosystem for fast and easy access to actionable insights

- Arterys, Explorer Surgical, Heartflow, Materialise , mediCAD Hectec, Mint Medical, Pie Medical Imaging, Stroll Health and SyntheticMR integrated into Siemens Healthineers Digital Ecosystem
- Variety of deployment and access modes supported through Siemens Healthineers Digital Ecosystem

Digitalization in healthcare holds great promise. It can help to overcome many of today's healthcare challenges, allowing providers to improve outcomes while saving resources and putting patients into better control and management of their own health. The key lever is to make better use of an incredibly fast growing lake of healthcare data. The Siemens Healthineers Digital Ecosystem¹ was introduced to support and foster the possibilities and opportunities that reside in healthcare data helping all stakeholders in healthcare to develop towards value based care.

The Digital Ecosystem from Siemens Healthineers provides an open and secured environment for digitalizing healthcare. It effectively integrates and interconnects data and knowledge from a global and diverse network of healthcare stakeholders. Digital offerings developed by members of the Siemens Healthineers Digital Ecosystem will help to increase decision making capabilities based on data-driven insights. Arthur Kaindl, Head of Digital Services, Siemens Healthineers explains: "We want to turn contributors to the Siemens Healthineers Digital Ecosystem into beneficiaries and beneficiaries into contributors."

Siemens Healthineers aims to serve a wide spectrum of clinical, operational and financial tasks, cloud-enabled or locally installed. Goal is to continuously evolve its' spectrum of members, data and digital offerings based on shared capabilities. Siemens Healthineers will

drive this with its own developer team and together with a large diversity of innovative developer partners.

With Siemens Healthineers Digital Ecosystem the company envisions to foster innovation and collaboration across healthcare care continuum. The starting point is marked by an installed base of some 600,000 imaging, laboratory and point-of-care systems touching 200,000 patients every hour. Open API's (Application Programming Interface) enable application developers and solution providers to efficiently create services which are seamlessly integrated into a shared digital healthcare environment. In addition, partner will be able to market and offer their services within this environment.

A dedicated store² for digital offerings from Siemens Healthineers and as well its partners will allow users to quickly assess the different offerings and the use cases they serve. It supports healthcare institutions to efficiently purchase and deploy digital health offerings within their setting.

Amongst the first partners that are integrated into the Siemens Healthineers Digital Ecosystem are Arterys, Explorer Surgical, Heartflow, Materialise , mediCAD Hectec, Mint Medical, Pie Medical Imaging, Stroll Health and SyntheticMR. Those partners' solutions will become commercially available according to their respective market approval. While these companies are the first integrated into the Siemens Healthineers Digital Ecosystem, many other companies are in discussion with Siemens Healthineers to join as next members.

Next to including partner offerings, Siemens Healthineers has continued to develop its own cloud-based offerings called teamplay³. Teamplay, a departmental performance management solution for radiology and cardiology, is an integral part of the Siemens Healthineers Digital Ecosystem. By connecting data from imaging devices and radiology/cardiology information systems, teamplay apps provides its' members insights to make prompt and well-informed decisions based on an intelligible overview of performance data. It monitors quantities such as imaging throughput or dose levels, utilization of staff, rooms and resources of the whole department down to every device and procedure, simplifying reporting and showing where workflows need adjustments.

Within the Siemens Healthineers Digital Ecosystem different deployment and access modes for Siemens Healthineers as well as partners offerings are supported: from web-based to cloud-deployed to local installation on workstations or directly onto medical devices. Every day access to selected cloud-based applications is supported by a personalized start screen for each user or by access through syngo.via for locally installed post-processing applications.

Today's partner solutions in the Digital Ecosystem

Arterys

The Arterys software provides a powerful cloud-based imaging platform and deep learning-enabled clinical solutions. Starting with cardiac MR imaging, Arterys provides physicians with a fast, more comprehensive heart analysis.

<https://arterys.com/cardiac-mri>

ExplORer Surgical

ExplORer, a customized Digital Playbook for Surgical and Interventional Procedures, allows surgical teams to coordinate their activities in a way never before possible. Setup, tasks and supplies can be managed in real time, breaking down intraoperative workflow step by step and role by role. The result is optimal teamwork, increased efficiency, and cost savings.

<http://www.explorersurgical.com>

HeartFlow

Using data from a standard cCTA, the non-invasive HeartFlow FFRCT Analysis creates a personalized 3D model of the coronary arteries and analyzes the impact that blockages have on blood flow.

<http://www.heartflow.com/>

Materialise

Mimics inPrint supports the setup of efficient in-house anatomical modelling and 3D printing activity, improving patient communication and education by creating a tangible representation of the anatomy. Mimics inPrint provides best-in-class segmentation tools for medically useful, traceable and cost-effective 3D models for every 3D printing technology possible.

<http://www.materialise.com/en/medical>

mediCAD Web

MediCAD Web is planned to be the new web based orthopedic planning solution of their successful and well-known planning software mediCAD.

www.mediCAD.eu

Mint Medical

Mint Lesion™ streamlines daily reading and reporting processes, and generates holistic, structured results. It enhances monitoring of cancer disease status and therapy effectiveness. Through consistently acquired quantitative information of lesions and clinical parameters, the entire history of clinical cases can be grasped in a matter of seconds.

<https://mint-medical.com/>

Pie Medical Imaging

CAAS and 3mensio are leading tools for pre-op planning, assessment, and quantitative analysis for interventional cardiology and radiology. Pie Medical Imaging's software for Cardiac MRI, Structural Heart MSCT planning and PCI analysis drives next generation diagnostics and research worldwide and makes complex imaging tasks easy.

www.piemedicalimaging.com

Stroll Health

Expose imaging machine calendars to allow referring staff to see real time availability, and fix inefficient use of expensive medical infrastructure.

www.strollhealth.com

SyntheticMR

SyMRI measures the absolute properties of the brain in a single 6-minute scan. With a post-processing time of less than one minute, SyMRI delivers adjustable contrast images, automatic biomarker segmentation and volumetric calculations. As an industry first, SyMRI has the potential to automatically estimate myelin content.

www.syntheticmr.com

Information about the Siemens Healthineers Digital Ecosystem is available at

www.siemens.com/healthineers-digital-ecosystem

1 The Siemens Healthineers Digital Ecosystem is under development and not commercially available in the U.S. and other countries. If the services are not marketed in countries due to regulatory or other reasons, this service offering cannot be guaranteed.

2 The product/feature (mentioned herein) is not commercially available. Due to regulatory reasons its future availability cannot be guaranteed.

3 Teampay is not yet commercially available in some countries. No undertakings can be given as to its future availability due to the special legal provisions pertaining to medical devices. More detailed information can be obtained from the relevant local Siemens organization.

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Siemens Healthineers is the separately managed healthcare business of Siemens AG enabling healthcare providers worldwide to achieve better outcomes at lower costs by empowering them on their journey towards expanding precision medicine, transforming care delivery, improving patient experience and digitalizing healthcare. A leader in medical technology, Siemens Healthineers is constantly innovating its portfolio of products and services in its core areas of diagnostic and therapeutic imaging and in laboratory diagnostics and molecular medicine. Siemens Healthineers is also actively developing its digital health services and enterprise services.

In fiscal 2017, which ended on September 30, 2017, Siemens Healthineers generated revenue of €13.8 billion and profit of €2.5 billion and has about 48,000 employees worldwide. Further information is available at www.siemens.com/healthineers