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Arterys, a privately-held medical imaging company providing a SaaS analytics platform that integrates cloud computation and machine learning, has announced the launch of the Arterys System, a revolutionary intelligence platform designed to significantly enhance standard medical imaging.

Its first application is in the cardiovascular space, enabling clinical visualization and accurate quantification of blood flow inside the human body. The seven-dimensional data (three in space, one in time, three in velocity direction) input quickly and easily to improve diagnoses in cardiac medicine.

The Arterys system was launched at the 101st Scientific Assembly and Annual Meeting of the Radiological Society of North America in Chicago, Illinois, as part of GE Healthcare's ViosWorks, a new comprehensive cardiac solution that reduces magnetic resonance imaging (MRI) assessment to a fraction of the time of conventional cardiac scans. ViosWorks will provide 3D cardiac anatomy, function, and flow in one free-breathing, 10-minute scan with cloud-based, real-time processing of images at resolutions previously unattainable.

"We are excited to collaborate with Arterys and introduce this innovative cardiac MR solution that can capture seven-dimensional viewing capabilities of the heart," said Mr Ioannis Panagiotelis, chief marketing officer, Global MR at GE Healthcare. He added, "With cardiovascular disease as the leading cause of death in the world, we believe that this cloud-enabled technology will help us to provide value not only for clinicians by delivering advanced visualization and quantification of cardiovascular function, but also help simplify cardiovascular examinations and address significant patient needs in cardiovascular disease."

In November 2015, Arterys and GE Healthcare entered into a partnership to include the Arterys system in new GE Healthcare MRI machines. Financial terms of the agreement were not disclosed.

"We are extremely pleased to announce our partnership with GE Healthcare in conjunction with the launch of our first cardiac care solution, the first self-learning system of its kind to visualize and quantify blood flow leveraging a standard MRI machine," said Dr Fabien Beckers, founder and CEO of Arterys. "This pivotal milestone for the company is directly in line with our vision to transform medical imaging by bringing automatic quantitative data and deep learning to healthcare applications through a GPU smart cloud platform that can be applied to many areas of medical imaging including neurology and oncology."

In addition to the launch of the Arterys System, the company completed a $7 million Series A financing led by Emergent Medical Partners, including participation from Norwich Ventures, AME Cloud Ventures, Morado Ventures and Asset Management Ventures.