

Innovation made in Vienna: Software from Agfa HealthCare Vienna serving the global healthcare IT market

AGFA 
HealthCare

Agfa HealthCare is a global leader in the fast-growing market of integrated IT systems offering healthcare facilities a seamless flow of information and enterprise-wide integrated workflow for patient records. Focusing on German-speaking countries, the market-leading ORBIS hospital information suite runs the daily business of more than 800 hospitals, whereas IMPAX EE is the most often used picture archiving and communication system (PACS). For the global Enterprise Imaging solution, Vienna provides a number of core components,



Vienna's R&D site is one of seven international centers where key components of Agfa's solutions are developed. More than 110 IT professionals in R&D are working on two strategic directions: the healthcare information systems platform, where more than 40 products of the ORBIS division are developed, and the medical image management field, where the IMPAX EE archiving components of the global Enterprise Imaging solution are engineered.

Healthcare Information Systems

One of the products of the ORBIS Hospital Information System developed in Vienna is the ORBIS ICU-Manager. It enables the electronic documentation, display and print of vital data acquired from intensive care units. Medical data includes physical measurements from external medical devices, which can be connected to the ICU-Manager. The documented data can be used to support clinical

workflows and to review trends in order to support diagnostic and therapeutic decisions.

One recent project from the Vienna R&D team is focused on developing a "fluid management component," which automatically collects data from hundreds of external infusion pumps. This significantly reduces manual documentation work in intensive care documentation.

Medical Imaging

In the medical imaging domain, the Vienna R&D team is developing essential parts of Agfa's Enterprise Imaging solution that extend medical imaging from radiology to other –ologies like cardiology, pathology, etc. Additionally, the market-leading PACS solution IMPAX EE is developed and maintained on this site. Another key focus is the research and production of image processing algorithms to improve the

speed and quality of diagnosis. For this purpose, Agfa HealthCare Vienna has been partnering successfully with the WRIIS Forchungs-GmbH for many years. The research collaboration is powerful, not only in inventing new image processing methods, but also in keeping the production period short and effective. The current research project is to use Artificial Intelligence to help radiologists detect specific pathologies in medical image data (see page 6).

The healthcare IT business has shown a steady growth over the past years and is expected to increase for many more years to come. Agfa HealthCare Vienna is perfectly suited for driving the growth and this is why their R&D investments are expanding yearly.

 global.agfahealthcare.com/tech

Why Vienna?



Peter Steigler
CEO PACS line
Responsible
Vienna

Dennis Schöckel
CEO PACS Enterprise
Vienna

Agfa HealthCare Vienna

“We have an international team of experts working in our city, many of whom have moved to Vienna and appreciate the high living standard here. As a company, it's important to us that our employees live in an attractive environment. Another significant value is the concentration of research institutes and universities, which allows us to connect our business to related research work.”



Agfa HealthCare validates its first radiology AI algorithm in Dubai

The machine learning algorithm, developed via a successful collaboration between the Vienna R&D center and the WRIIS GmbH, is being funded by the Austrian Research Promotion Agency (FFG). The algorithm is designed to rate the probability of tuberculosis on 3D chest X-ray images and aims to increase throughput when screening UAE immigrants.