

Product availability may vary from country to country and is subject to varying regulatory requirements. Some of the medical devices listed in the catalogue may not yet be licensed for sale in Canada, in accordance with Canadian law.



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SIEMENS

Insights into Siemens Healthcare

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Answers for life.

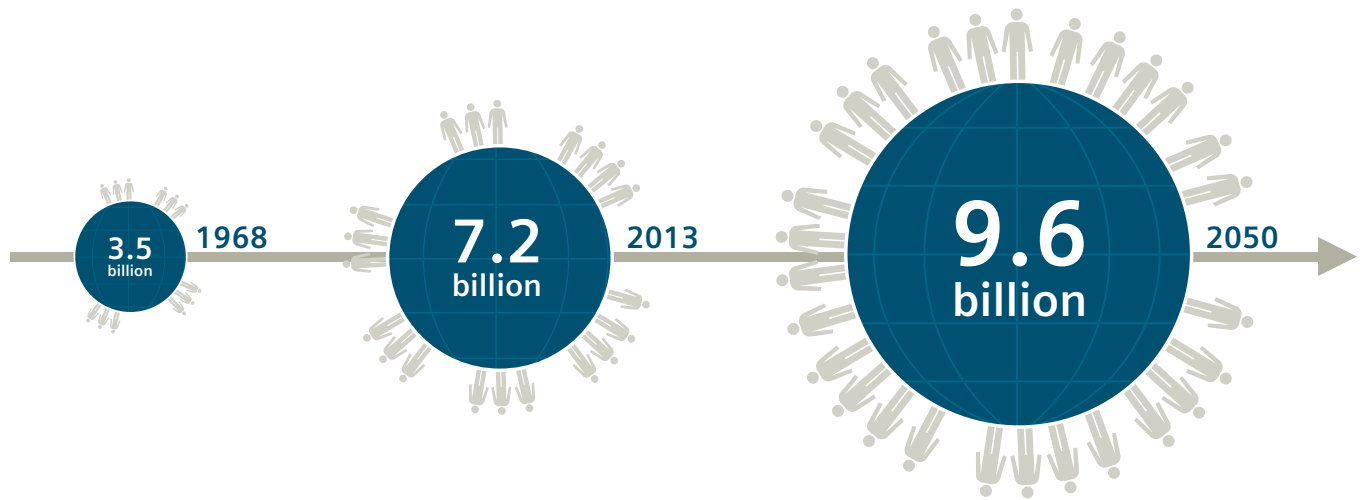
We innovate to advance human health

With the world's population booming, healthcare needs to be considered an investment in the well-being of our economy and society, rather than solely as an increasing cost factor. Caring for an ever-growing global population calls for a dramatic shift in the way future healthcare delivery is organized, to ensure affordable access to quality medical care and provide innovative solutions in the fight against today's most threatening diseases.

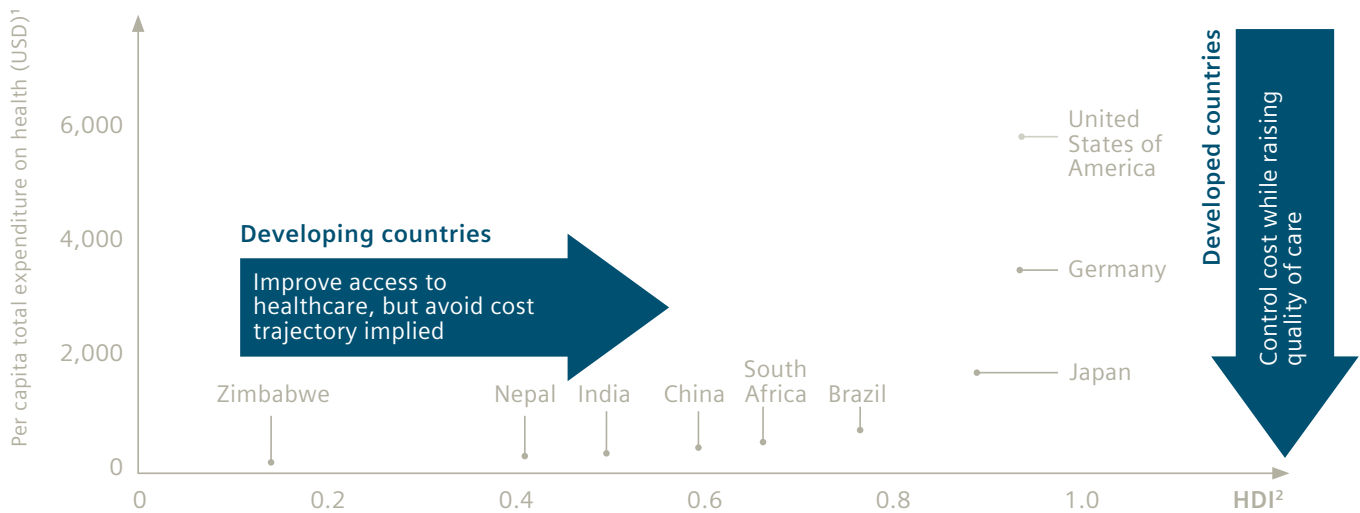
At Siemens Healthcare, we support the pioneers who are leading this shift. We strive to be a trusted partner in this changing landscape. Our aim is to enable our customers at all levels and along the entire continuum of care to meet these challenges and achieve a successful transition to next-generation healthcare.

For over 166 years, our innovations have been advancing human health. Today, we provide innovative, outcome-oriented medical technology and intelligent software solutions as well as clinical consulting services. All supported by a comprehensive training and service portfolio available across the globe and tailored to our customers' needs.

The world's population is growing



Healthcare needs and costs must be balanced



¹ At average exchange rate (Source: WHO, 2007 figures)

² Human Development Index, measuring life expectancy, education, and income (Source: UN, 2010 figures)

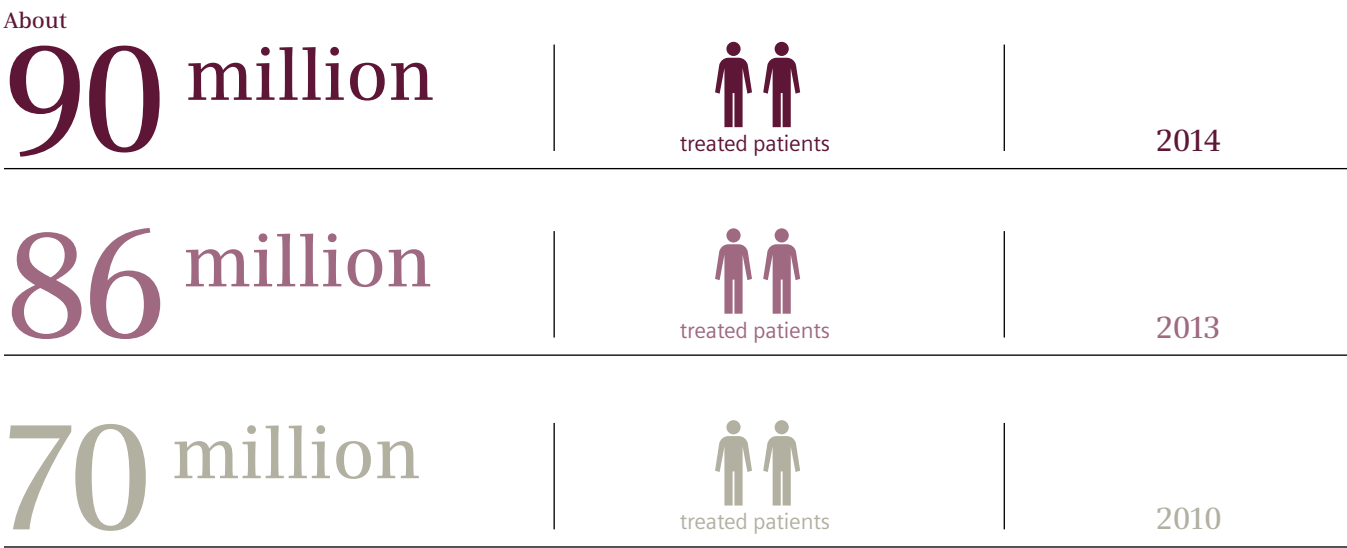
Effectively fighting the most threatening diseases

According to World Health Organization (WHO) statistics for the year 2011, about 30% of all deaths are caused by cardiovascular diseases, 15% by cancer, and 15% by infectious diseases. In addition, populations are aging in many parts of the world. That means providers face a growing number of patients including multi-morbidity cases. Diseases need to be detected earlier, accurate

diagnoses must be made in the most timely manner, and there is a special need for even more targeted therapies.

Our products and solutions are supporting our customers in fighting the most threatening diseases. We are constantly innovating to provide new and improved diagnostic capabilities, novel minimally-invasive therapeutic options, integrated consulting projects, and IT solutions.

Cases of most threatening diseases diagnosed and treated each year using Siemens products¹



¹ Based on the active installed base of Siemens equipment used for the diagnosis and in the treatment process of stroke, heart attack, lung cancer, breast cancer, TBC, and HIV/AIDS. Only equipment used in line with strongest recommendations in accepted medical guidelines is included.

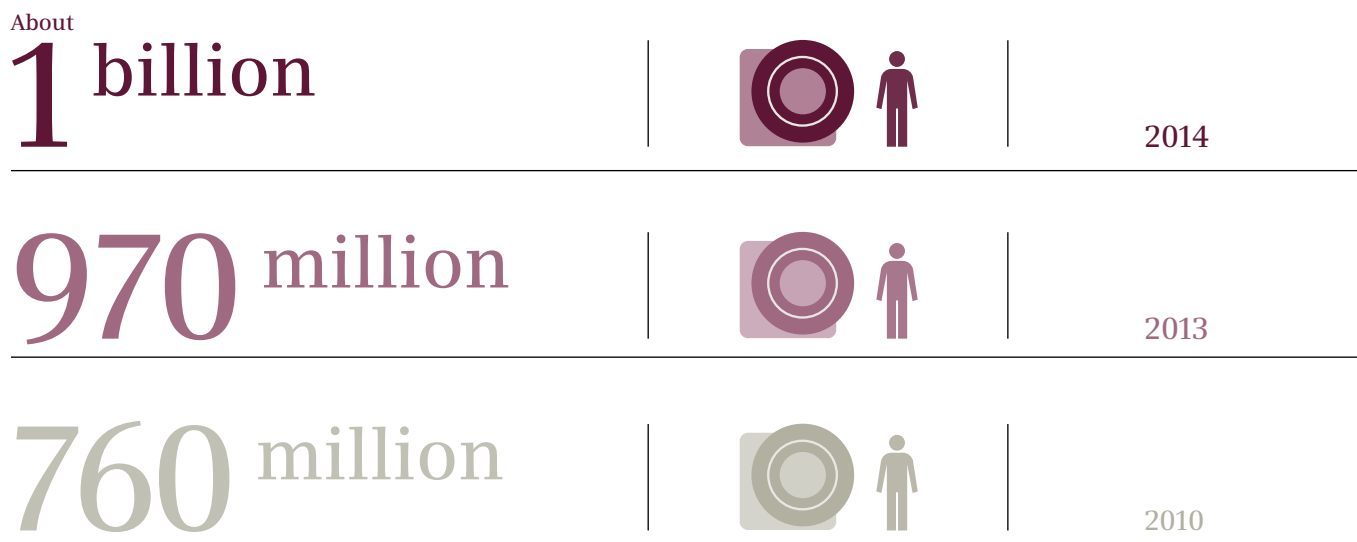
Improving access to healthcare in emerging and developed markets

Enabling access to healthcare is a global challenge. A large share of the world's growing population does not have access to healthcare and in many remote areas, access to quality healthcare is a challenge. In addition, affordability of healthcare is increasingly at risk in developed countries. Oversupply in some areas, tight healthcare budgets, and reimbursement cuts add significant fiscal pressure as

healthcare professionals concentrate on improving patient outcomes and staying abreast of medical advancements.

We support our customers around the globe with entry-level innovations, mobile and remote care, services, and financing tailored to their needs and means. Our products and solutions help providers reach more patients and increase quality of care.

Patients in emerging countries with access to Siemens imaging systems¹



¹ Calculation is based on the number of installed Siemens computed tomography (CT) systems in 113 developing countries (UN HDI < 0.785). Population covered per CT was derived from CT density in selected countries.

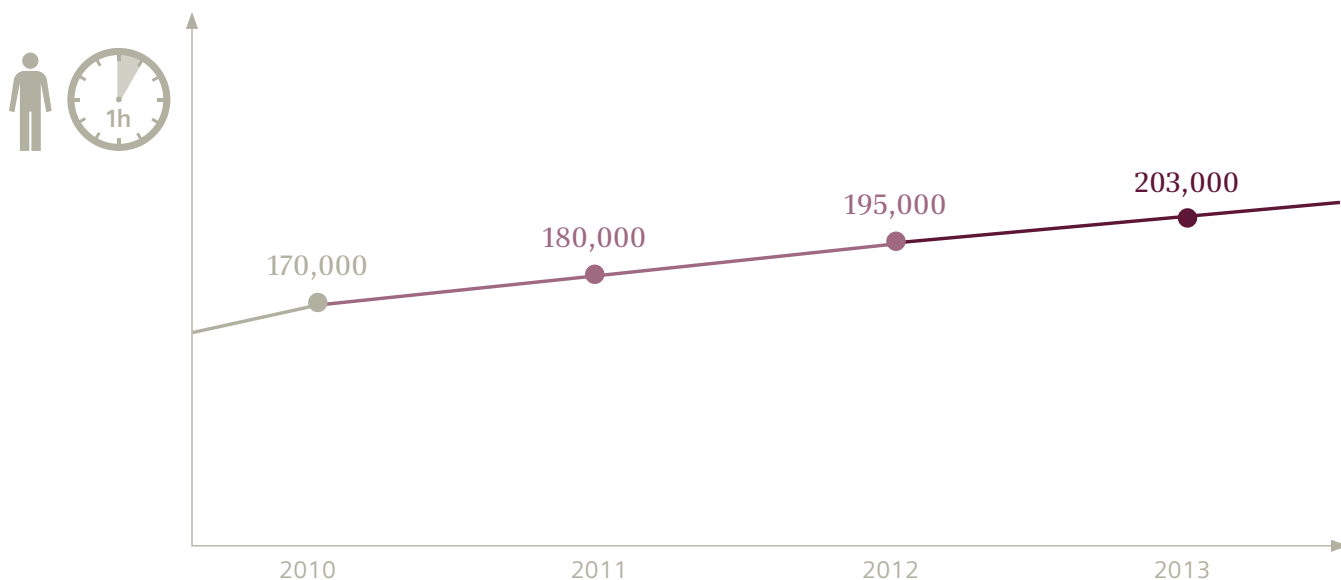
Achieving better clinical results with fewer resources

Given the share of healthcare costs in relation to total gross domestic product (GDP), supporting better health for an aging population is an essential productivity factor. Profitable investments in healthcare will be measured in terms of improvements to quality of life, reduction in rehabilitation time, and increased work performance. Providers are under pressure to achieve affordable quality

care through increased efficiency in diagnosis and treatment and best use of resources.

With a scope on high-throughput, cost-efficiency and improved handling, our products and solutions support value-based healthcare delivery.

Number of patients benefiting from care based on Siemens equipment every hour¹



¹ Calculation is based on the active installed base of Siemens imaging equipment and the associated utilization rates. Additionally, the worldwide in vitro diagnostic test volume was considered, adjusted by the average number of tests per patient.

Transitioning to next-generation healthcare

We measure success in healthcare as helping people to enjoy a better quality of life for a longer period of time. This will clearly involve a significant investment in infrastructure, IT, and innovation. National economies, employers, payors, and empowered patients expect improved patient outcomes and increased healthcare coverage as the return on their investment in healthcare.

In response to this growing demand, we expect next-generation healthcare to optimize patient outcomes per unit of money spent – with key advances in areas such as prevention and early detection of diseases, new

therapeutic methods, individualized therapy and care management, and population health management. This will require holistic patient-centered clinical, process, and business innovations enabled by (big) data analysis, increased outcome and cost transparency, and intelligent decision support.

In pursuit of our mission, “We innovate to advance human health”, it is our ambition to become a pioneer in next-generation healthcare. We enhance our product offerings and engage in new partnerships and collaborations to identify further outcome improvements.

Investing in outcomes and coverage



Delivering solutions across the entire clinical spectrum



Imaging diagnostics & therapy

Our advanced imaging modalities – from entry-level computed tomography to high-end ultrasound – are designed to deliver excellent clinical results while providing patient comfort, ease of use, and efficient operation. Our hybrid operating room solutions allow minimally-invasive treatment and open surgery while enabling intelligent use of rooms and resources.



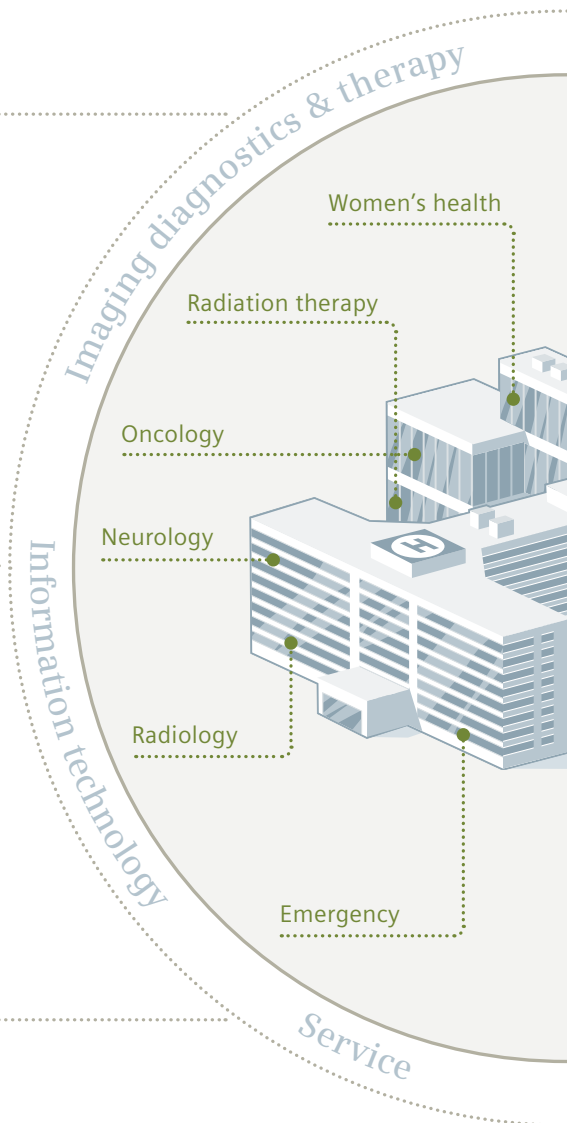
Information technology

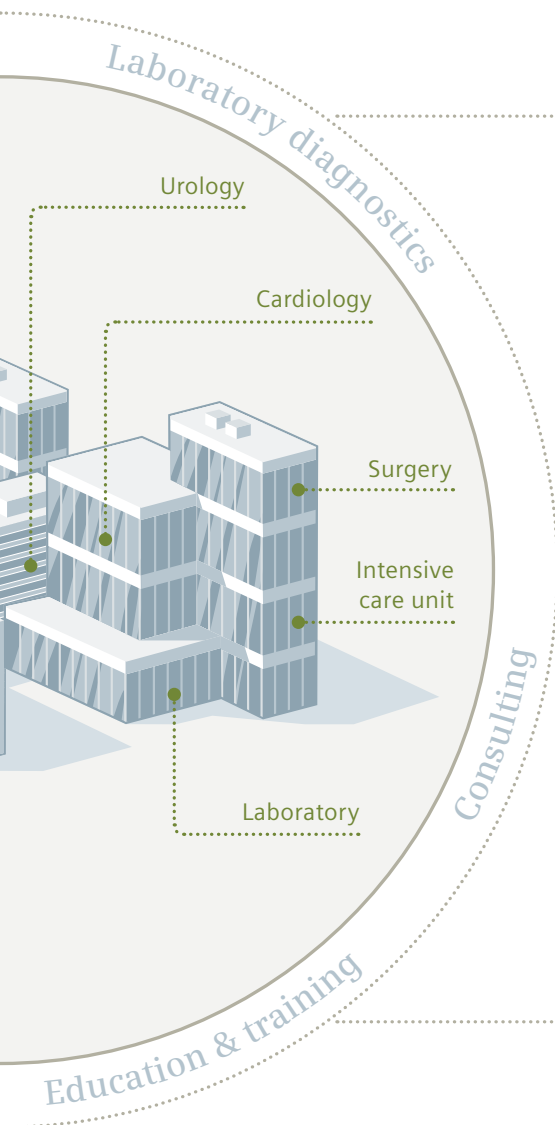
Information technology is vital to clinical processes. To support these processes, we provide intelligent and integrated IT solutions that store and manage data to make healthcare accessible and transparent. Ensuring that clinical images and lab results are available when and where they are needed can help to improve clinical workflows and accelerate the delivery of healthcare services.



Service

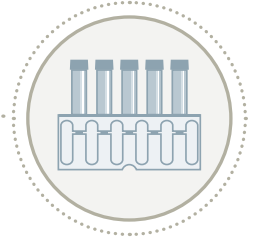
It is essential that staff can rely on systems operating whenever required. Our service teams offer expertise and support online, over the phone, and onsite, 24 hours a day, 7 days a week to ensure that downtime is prevented or minimized, systems are performing efficiently, and fixes are delivered as fast as possible.





Laboratory diagnostics

Timely, accurate test results provide clinicians with the vital information required to make informed decisions in the diagnosis, treatment, and monitoring of patients. Our innovative portfolio – from multidisciplinary solutions and broad test menu to lab-transforming automation and data management – enhances operational efficiency and supports improved patient outcomes.



Consulting

In a complex healthcare environment it is important to regularly assess existing operations. Our consulting portfolio has been specifically developed for multidirectional workflows in hospitals and across the continuum of care. Based on best practices, guideline adherence, and the latest clinical and scientific knowledge, we help providers identify effective ways to optimize the quality and value of care.



Education & training

We educate medical staff to use our products to their full potential. The return on investment for our customers: increased image quality, improved workflows, higher patient throughput, and a broader portfolio of clinical applications.



Interventional angiography



Artis Q



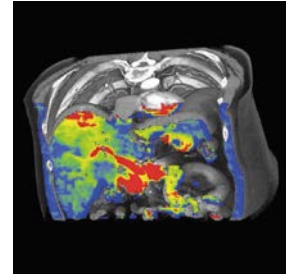
Intracerebral stent with in-stent obstruction

Interventional angiography provides diagnostic visualization and minimally-invasive treatment options for cardio- and neurovascular diseases as well as cancerous tumors. Image-guided and hybrid procedures are increasing and with it the demand for direct 3D imaging, especially in interventional oncology, in neurovascular, and cardiothoracic procedures.

Computed tomography



SOMATOM® Force



Liver metastases with the use of dynamic perfusion imaging

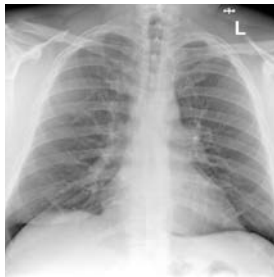
Courtesy of Universitäts-Spital Zürich / Zürich, Switzerland

Computed tomography (CT) provides fast and easy-to-perform high-resolution imaging of all body regions. Clinical focus is on oncological, vascular, and cardiac disorders including acute situations such as stroke, chest pain, and trauma. Therapy planning and guidance is supported by 3D CT imaging and by integration of CT data into fluoroscopy-guided therapies.

X-ray imaging



Ysio Max



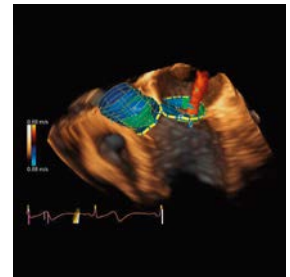
X-ray image of the lung

X-ray imaging provides diagnostic assessment of the skeletal system, lungs, digestive and urogenital tract. It is an easy-to-use imaging modality with a wide indication range in all healthcare systems globally. Mobile c-arms with new detector technology guide interventional and surgical procedures in cardiac, vascular, and orthopedic surgery.

Ultrasound imaging



ACUSON SC2000™ system



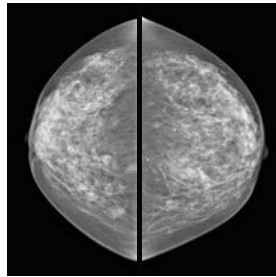
4D imaging of mitral and aortic valves

Ultrasound imaging provides diagnostic assessment of tissues, organs, and blood flow. It is broadly used in radiology, general imaging, cardiology, gynecology, in point-of-care environments, and for procedure guidance. Ultrasound is the gold standard in monitoring fetal development in prenatal care and further enhanced by 3D and 4D visualization.

Mammography



Mammomat Inspiration Prime



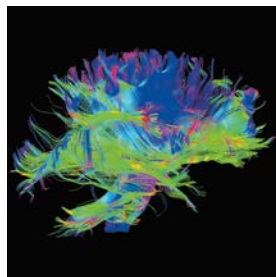
Small structures are clearly depicted in skin line delineation

Mammography provides images of the breast and image guidance for breast biopsies. It is the most common imaging method used in the detection and diagnosis of breast cancer. Mammography is the gold standard for breast cancer screening, it is an essential tool for breast care and has been enhanced by digital mammography which is now established as state-of-the-art.

Magnetic resonance imaging



MAGNETOM Prisma



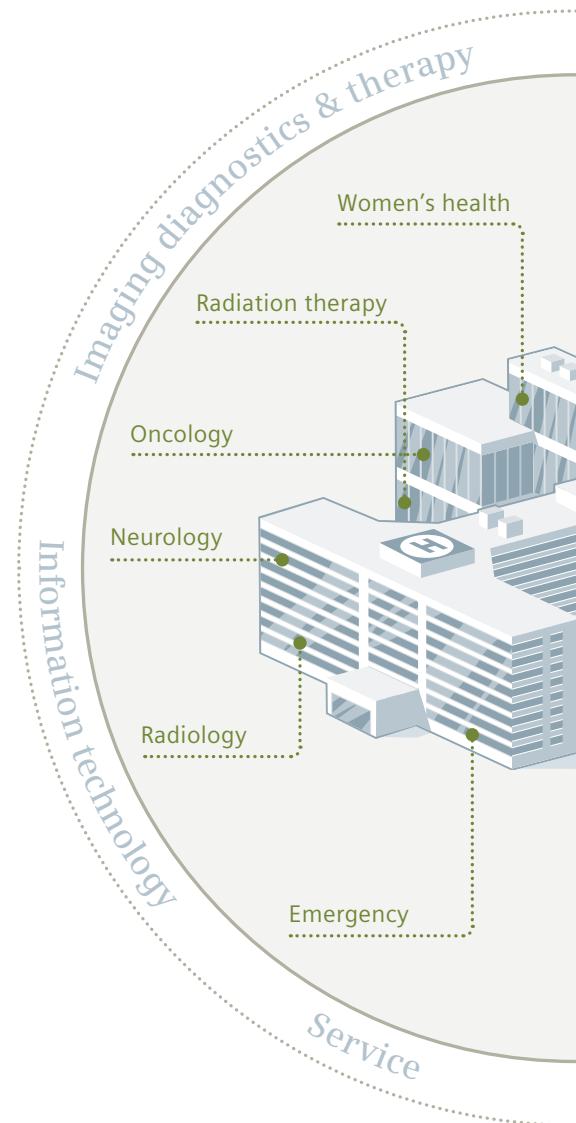
DSI imaging for visualization of fiber crossings in the whole brain

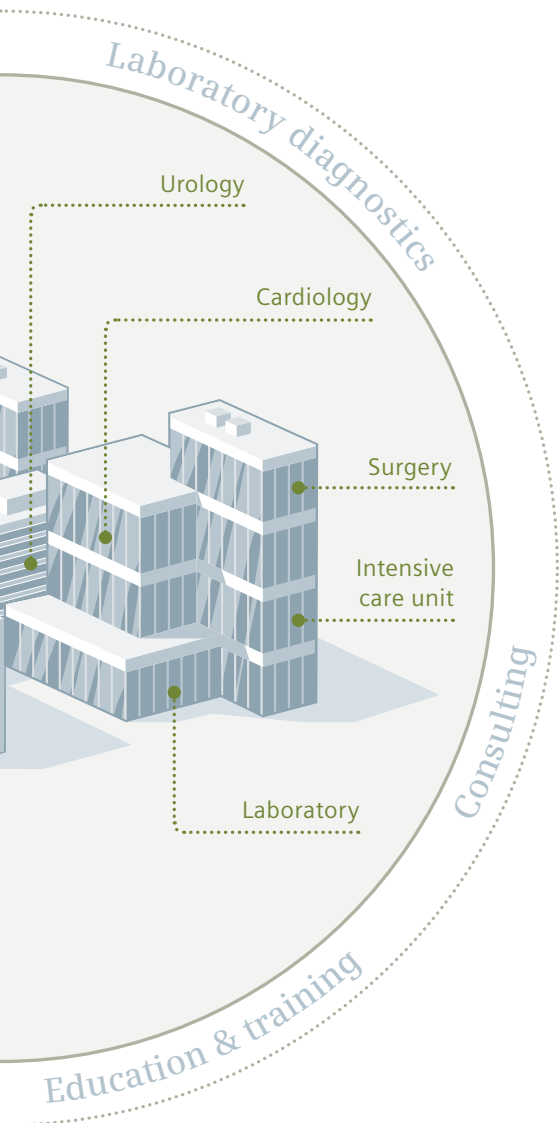
Image rendering courtesy of TrackVis

Magnetic resonance imaging (MRI)¹ provides superb tissue characterization and functional assessment in particular in neurological and musculoskeletal disorders, and in cardiology. It is applied in all stages of cancer care, e.g. in prostate cancer. MRI supports image-guided procedures, e.g. in neurosurgery. Free of ionizing radiation, it is often used in pediatric care.

¹ MR scanning has not been established as safe for imaging fetuses and infants under two years of age. The responsible physician must evaluate the benefits of the MR examination compared to those of other imaging procedures.

Clinical focus of our solutions

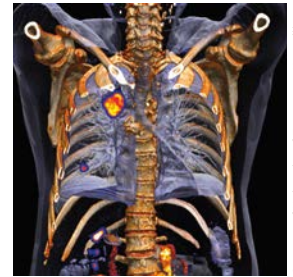




Molecular imaging



Biograph mCT Flow™²



Flexible ranges for gated acquisition with FlowMotion™

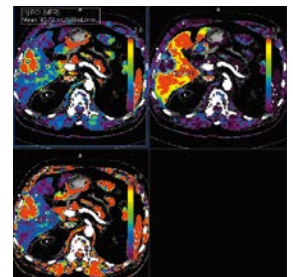
Courtesy of University of Tennessee, Knoxville, TN, USA

Molecular imaging provides diagnostic assessment of metabolism and special organ functions (e.g. perfusion) in oncology, cardiology, and neurology. Through its ability to visualize cellular processes it supports early disease detection and therapy response assessment. Hybrid imaging (integrated molecular and CT/MR systems) is on the rise.

Imaging IT



syngo.via^{2,3}



Body perfusion imaging

Imaging IT provides fast and easy visualization and partly automated processing of image data sets from all modalities. It enables early diagnosis and treatment decisions by e.g. functional imaging analysis and real-time 3D applications. IT applications facilitate efficient management of today's huge image data sets.

² These products are not commercially available in all countries. Due to regulatory reasons its future availability cannot be guaranteed. Please contact your local Siemens organization for further details.

³ syngo.via can be used as a stand-alone device or together with a variety of syngo.via-based software options which are medical devices in their own right.

Hemostasis and hematology testing



Sysmex®⁴ CS-5100⁵ Hemostasis System



The Coagulation Cascade

Hemostasis testing helps identify bleeding disorders and assess platelet function, e.g. prior to surgical intervention. Hematology testing performs blood cell counts and differentiates blood cell types and shapes, helping diagnose conditions such as leukemia. Automated hematology systems minimize test interferences that can compromise results.

Clinical chemistry and immunoassay testing



Aptio™ Automation clinical decisions



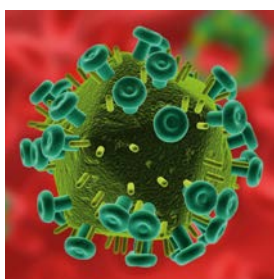
In vitro diagnostics affect 60-70% of all critical clinical decisions

Clinical chemistry and immunoassay testing are essential for the diagnosis and monitoring of a vast number of conditions and disease states, including cardiovascular disease and cancer. With high-performance analyzers, lab automation, and diagnostics IT, hospitals and reference labs can deliver fast and accurate test results to clinicians.

Molecular testing



VERSANT® kPCR Molecular System



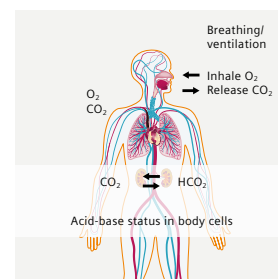
The human immunodeficiency virus (HIV)

Molecular testing enables precise detection of major infectious diseases, such as hepatitis and HIV/AIDS, in addition to monitoring treatment efficacy and selection of targeted, individualized treatment options. Molecular analyzers enable high-quality nucleic acid (DNA and RNA) extraction, sensitive detection, and accurate quantification.

Point of care testing



The RAPIDPoint® 500 Blood Gas Analyzer



Oxygenation and gas exchange to blood and cells

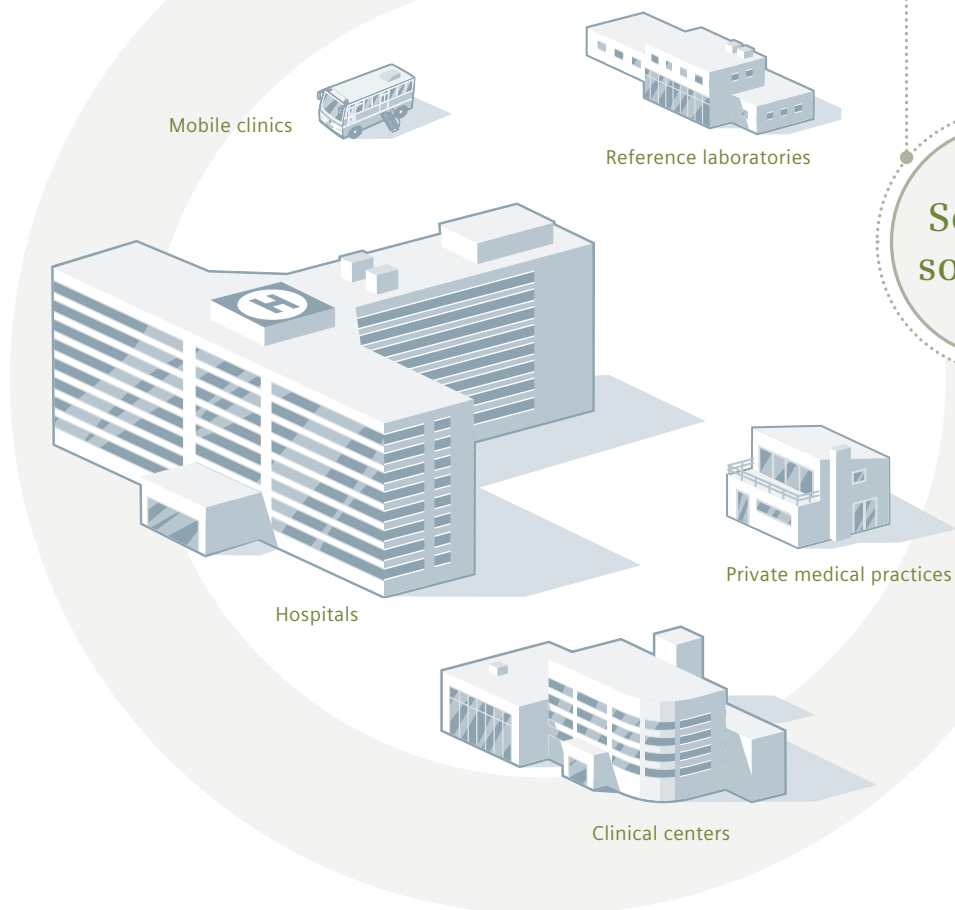
Point-of-care (POC) testing provides actionable results within minutes near the patient's bedside while improving workflow and reducing costs. POC solutions – ranging from acute cardiac care, coagulation, and blood gas to diabetes management and urinalysis – are essential in the emergency room, operating room, ICU, and physician offices.

⁴ Sysmex is a trademark of the Sysmex Corporation

⁵ Sysmex® CS-5100 is not available for sale in the US. Product availability may vary from country to country and is subject to varying regulatory requirements.

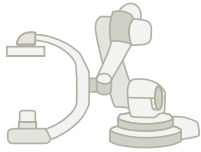
Providing products for all customer needs

Delivering quality and affordable healthcare requires scalable solutions to meet the needs of a spectrum of healthcare providers ranging from international hospital chains, large university or community hospitals to physician offices, and mobile clinics in rural settings. We offer different solutions tailored to the customers' needs – for all market segments.

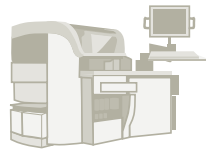


High-end solutions

Cutting-edge technologies – examples:



Artis zeego with Q Technology
The robotic-assisted C-arm pushes advanced imaging further in interventional procedures and enhances surgery through real-time intra-operative 2D and 3D imaging



ADVIA Centaur® XPT^{1,2} Immunoassay System
Among the highest throughput immunoassay systems available, delivering fast, accurate results for better patient care



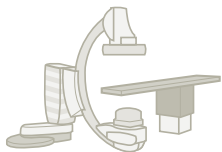
ACUSON S3000™
A system for advanced automated ultrasound fusion imaging and multi-modality review capabilities



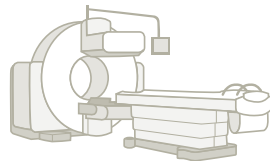
SOMATOM® Force
Kidney-friendly and “free-breathing” CT scanning for a broad range of patients

Mid-range solutions

Proven technologies for a broad field of applications – examples:



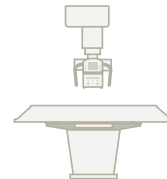
Artis zee
A system family offering a wide range of configurations and advanced 3D applications to fulfill any interventional imaging need



Symbia Intevo™²
First SPECT-based molecular imaging technology to provide unique quantitative capabilities to help distinguish between malignancies and degenerative disease



Mammomat Fusion³
A mammography system for everyday screening and diagnostics. With automated workflow and a new generation detector that is remarkably robust



Multix Fusion
An X-ray system deploying proven high-end technology without overtaxing investment budgets

Entry-level solutions

Affordable products for generalists – examples:



MAGNETOM ESSENZA
An MRI system developed from the ground up to be an affordable, reliable system that supports both clinical and financial success



syngo.via Element CT
The post-processing software syngo.via Element CT facilitates fast and reliable diagnoses with entry-level CT scanners



ACUSON X150™
A comprehensive ultrasound solution for a wide variety of everyday clinical applications in busy hospitals and private practices



CLINITEK Status®+ Analyzer
Simple, point-of-care urinalysis analyzer with enhanced clinical information is designed for near patient testing

¹ ADVIA Centaur® XPT is under FDA review. Not available for sale in the U.S.

² ADVIA Centaur® XPT and Symbia Intevo are not commercially available in all countries. Due to regulatory reasons its future availability cannot be guaranteed. Please contact your local Siemens organization for further details

³ The Mammomat Fusion is pending 510(k) clearance and is not yet commercially available in the United States

Building on over 160 years of innovation



1896

Industrially manufactured X-ray tubes for medical diagnostics



1957

Fully automated discrete chemistry analyzer for whole blood or serum – Technicon AutoAnalyzer



1967

First real-time ultrasound scanner – Vidoson



1975

First Siemens computed tomography scanner (CT) – SIRETOM



1983

First Siemens magnetic resonance imaging (MRI) – MAGNETOM



1998

First track-based laboratory automation system – ADVIA® LabCell® Automation Solution



1999

First intuitive medical IT platform by Siemens – *syngo*



2001

The first PET-CT system of Siemens – Biograph

We in
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human

Innovate Advance Health

2014

"Free breathing" CT scanning with powerful dual X-ray sources and two detectors – SOMATOM® Force



2012

Wireless transducers for ultrasound – ACUSON® Freestyle



2011

First integrated, simultaneous whole-body MRI and PET system – Biograph mMR



2009

Multimodality 3D imaging network – syngo®.via



2008

Robotic angiographic system – Artis zeego®



2008

Digital radiography system with wireless flat-panel detector – Ysio®



2006

Diagnostic analyzer integrating four technologies in one system – Dimension Vista® System



2005

Dual-source CT – SOMATOM® Definition



2003

Open-bore 1.5 Tesla magnetic resonance imaging (MRI) – MAGNETOM® Espree



Investing in ongoing innovation

Key to the success of Siemens Healthcare is our tradition of innovation and our pioneering spirit.

Despite of market challenges, in fiscal year 2013 we maintained our R&D expenditures at the level of previous years, constantly investing in the development of new technologies for a broad range of segments.

Our R&D activities are tailored to address the challenges our customers are facing due to the steadily growing and aging global population. We dedicate our innovative minds to make healthcare more efficient and more effective.

R&D spending

€ 1.23 billion


Ratio of R&D expenses as a percentage of revenue

 9.0%

Inventions per year

 1,650

Patents per working day

 > 4

We support customers all around the globe

Having significant global presence is more than a simple description of leadership. For us, it means the opportunity to support our customers in more than 180 countries enabling them to deliver even better healthcare.

In fiscal year 2013, we posted revenue of 13.6 billion euros. In addition to our 52,000 employees around the world, we continue to build international partnerships – working together to advance human health.

