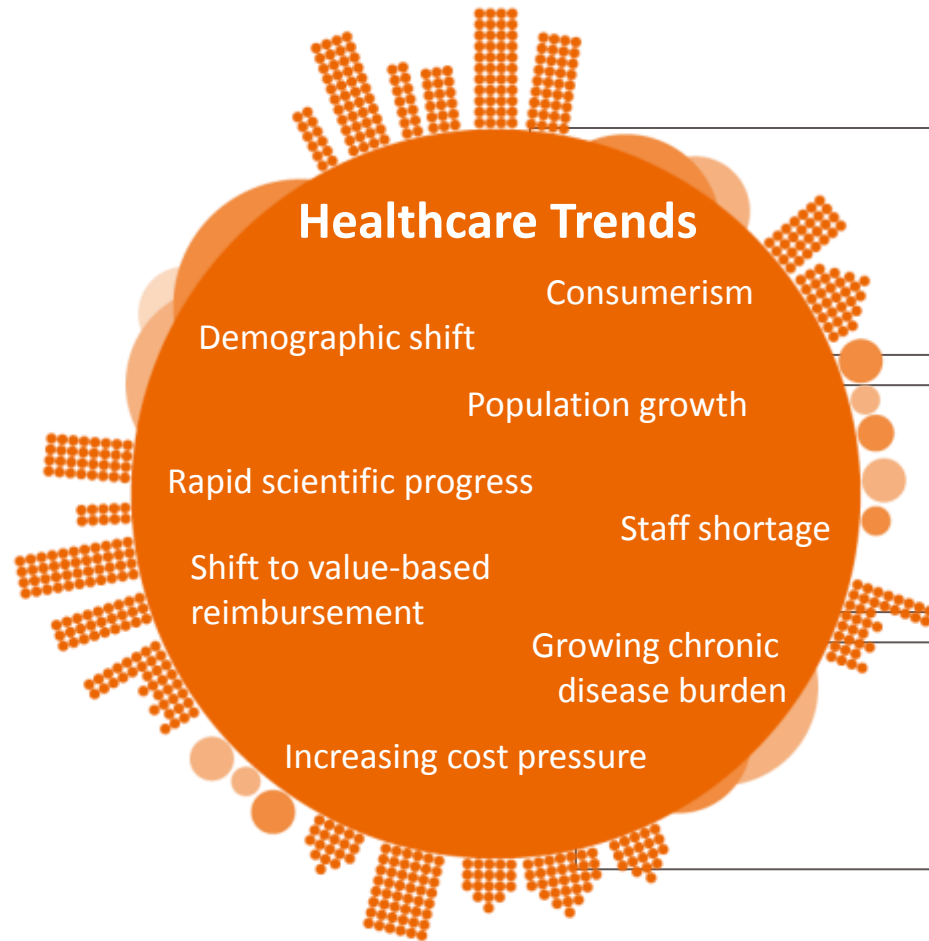


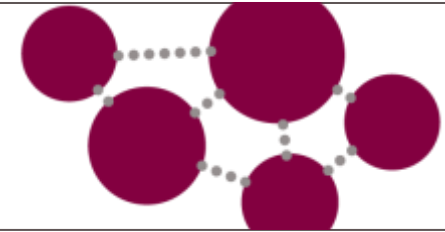
Enabling
better outcomes
at lower costs



Transformation of Healthcare Providers

Consolidation

Building the critical mass



Industrialization

Doing more with less

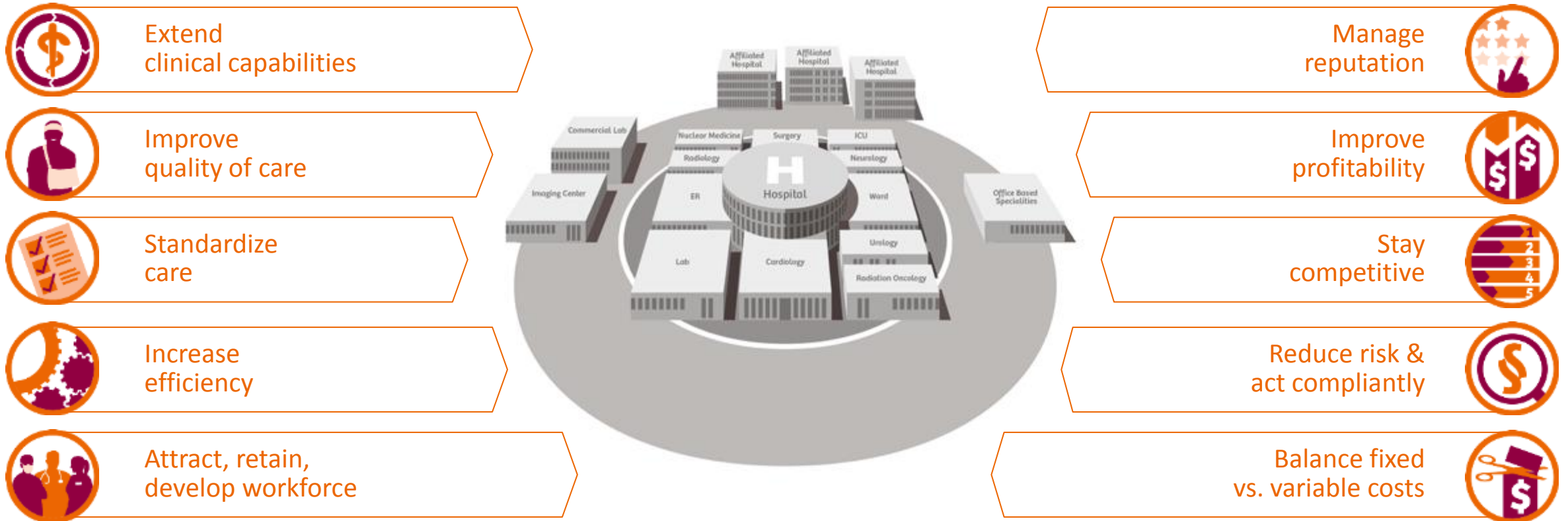


Managing Health

Value-based healthcare

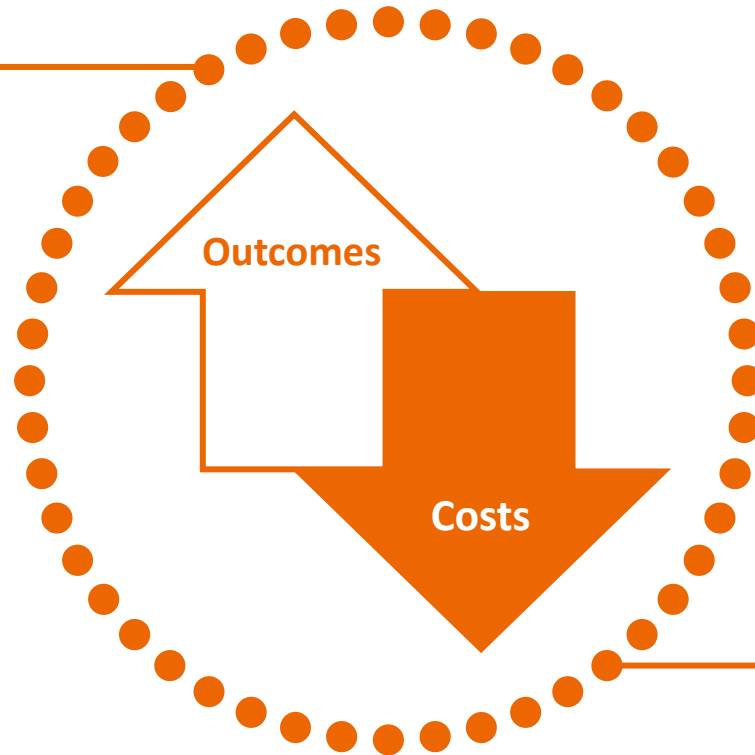


The Transformation Implies Multiple Challenges for Healthcare Providers



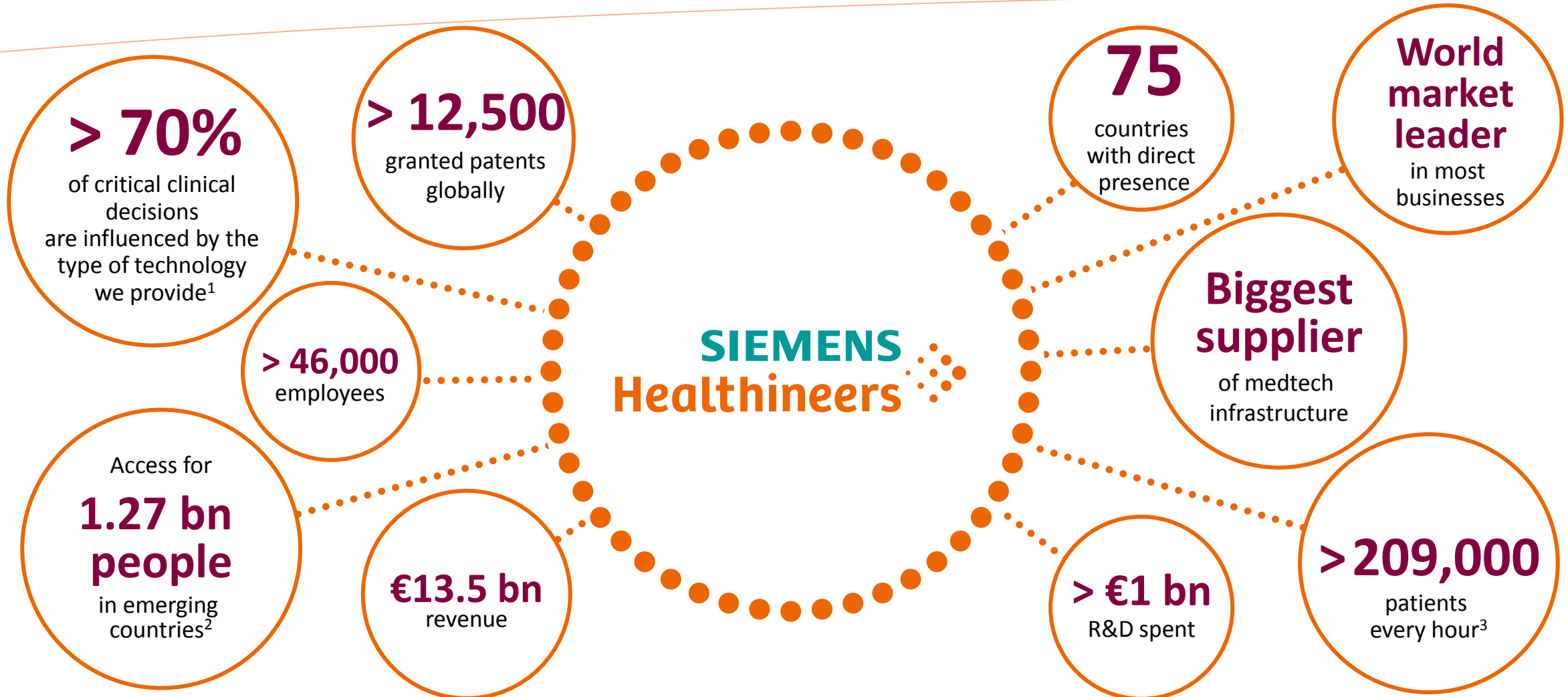
Our Purpose is to Make Healthcare Providers Succeed

Enabling
better outcomes



at
lower costs

Who We Are



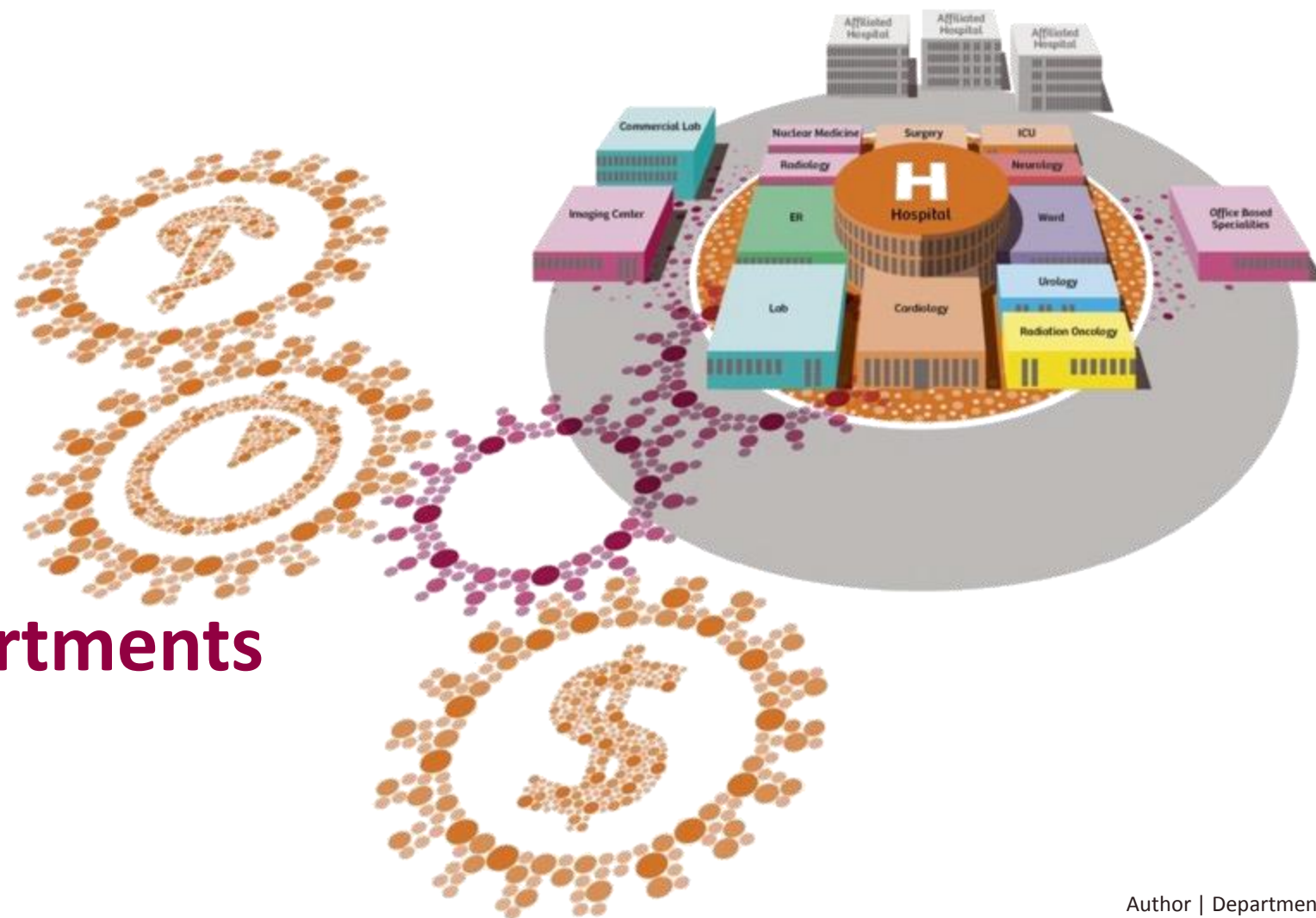
1) AdvaMedDX, "A Policy Primer on Diagnostics", June 2011, page 3

2) Siemens AG, "Sustainability Information 2016", page 8

3) Siemens AG, "Sustainable healthcare strategy - Indicators in fiscal 2014", page 3-4

Engineering Success

Innovations
Transforming Departments



Our Innovations - 120 Years Track Record



1901
Nobel prize winners (Physics + Medicine)

1896
Industrially manufactured X-ray appliance for medical diagnostics

1956
CLINISTIX – dry chemistry testing for glucose in urine

1957
Fully automated discrete chemistry analyzer for whole blood or serum

1967
First real-time ultrasound scanner

1975
First Siemens CT scanner

1982
First acridinium ester based chemiluminescence immunoassays

1983
First Siemens MRI scanner

1998
First Siemens track-based laboratory automation system

1999
First intuitive medical IT platform from Siemens

2001
First PET/CT system from Siemens

2005
First Dual Source CT scanner

2006
Diagnostic analyzer integrating four technologies in one system

2008
Robotic-assisted angiography system

2008
Digital radiography, wireless flat panel detector

2009
Multi-modality 3D imaging network

2011
First integrated, simultaneous whole-body MRI and PET



2014
“Free breathing” CT scanning with dual X-ray sources & detectors



2012
Wireless transducers for ultrasound



2015
Wide-angle image acquisition breast tomosynthesis

2014
Cloud-based network: teamplay



Enterprise Services

Advanced Therapies

Molecular Diagnostics

Digital Health Services

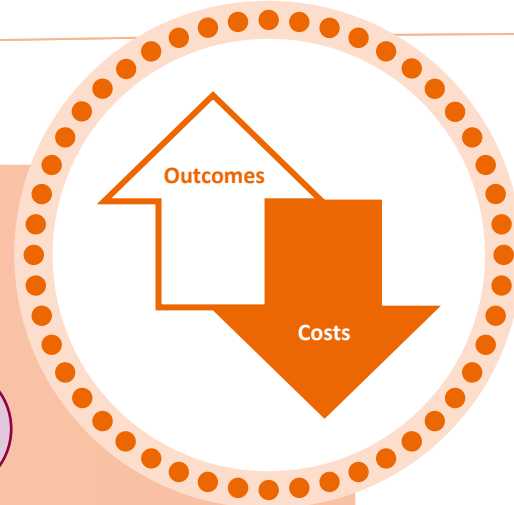


2016
Liquid biopsy



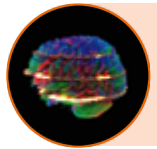
2016
Lab diagnostics solution for immunoassay and clinical chemistry: Atellica™ Solution¹

2015
First Twin Robotic X-ray scanner for enhanced patient care and productivity



Future

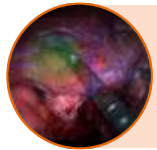
Engineering Success – With Broadest and Deepest Portfolio



Diagnostic Imaging

Computed Tomography, Magnetic Resonance Imaging, Molecular Imaging, Radiography & Fluoroscopy, Imaging IT

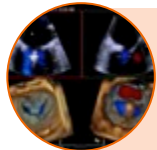
Undisputed market leader
in diagnostic imaging



Advanced Therapies

Cardiology, Interventional Radiology, Radiation Oncology, Surgery

Empowering innovative
therapy concepts



Ultrasound

Cardiology,
Radiology

Versatility and functionality
across clinical questions



Laboratory Diagnostics

Immunoassay, Chemistry, Hematology, Hemostasis, Specialty Testing, Automation, IT and Services, Molecular Diagnostics¹

Delivering clinical and
workflow excellence



Point of Care

Blood Gas, Diabetes
Urinalysis, Coagulation,
Cardiology

Lab-accurate, actionable,
timely results at the point of care



Services

System Services, Education,
Enterprise Services,
Digital Services

Transformative services to maximize
opportunities and minimize risks

We support
to raise ...



clinical
excellence



operational
efficiency

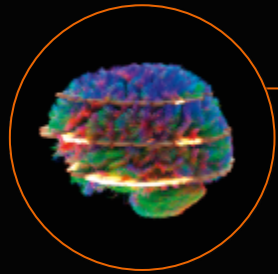


financial
profitability

1) Incubated within Business Function Strategy & Innovation
Image courtesy Diagnostic Imaging: CMRR, Minneapolis, MGH, Boston
Image courtesy Advanced Therapies: IHU Strasbourg, France

Our Diagnostic Imaging Portfolio

– Pushing clinical boundaries



Radiography & Fluoroscopy



Multix Fusion Max¹:

Performing quick, high quality exams with less retakes and downtimes

Magnetic Resonance



MAGNETOM Sempra²:

Scanning of up to 75% of routine daily cases with reliable consistency

Compressed Sensing²:

Accelerating MRI acquisition at a factor of up to 10, with no loss in image quality

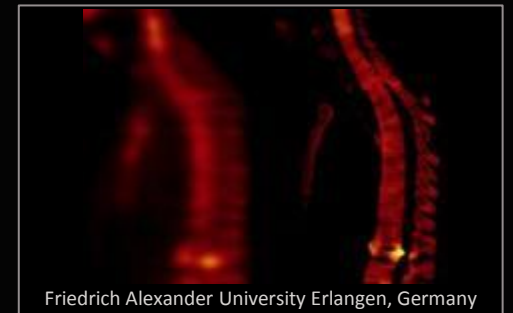
Computed Tomography



SOMATOM go. platform² with SOMATOM go.Now² & SOMATOM go.Up²:

Bringing routine CT and profitability together

Molecular Imaging



Symbia Intevo¹:

Providing the ability to monitor and adjust treatments earlier by accurately measuring even small differences

Friedrich Alexander University Erlangen, Germany

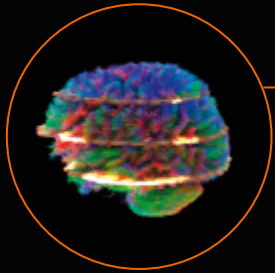
1) This product is not commercially available in all countries.

Due to regulatory reasons its future availability cannot be guaranteed. Please contact your local Siemens organization for further details.

2) This product is pending 510(k) clearance and is not yet commercially available in the US.

Our Diagnostic Imaging Portfolio

– Pushing clinical boundaries



Radiography & Fluoroscopy

Magnetic Resonance

Computed Tomography

Molecular Imaging



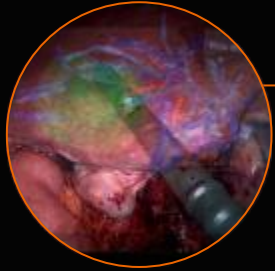
*syngo.via*¹

The intelligent imaging software for multi-modality reading, helping to:

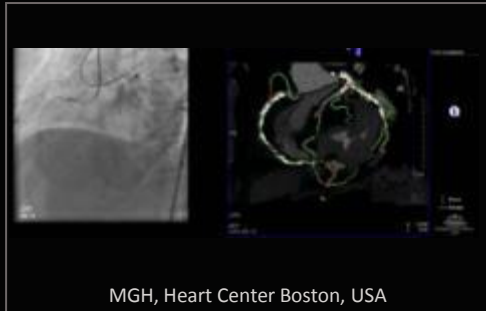
- Make **clear decisions at one place** by bringing together imaging information from CT, MI and MRI images, mammography or preparing for radiation therapy
- Achieve **reproducible imaging results** in radiology and **reconfirm diagnosis and therapy decisions** through automatic image preparation based on intelligent anatomical landmarks
- Create **clear and convincing reports** for simplified distribution of results, inside and outside the department, based on structured reporting along templates and standards

1) *syngo.via* can be used as a standalone device or together with a variety of *syngo.via*-based software options, which are medical devices in their own right. *syngo.via* is not yet commercially available in all countries. Due to regulatory reasons, its future availability cannot be guaranteed. Please contact your local Siemens organization for further information.

Our Advanced Therapies Portfolio – Improving outcomes in therapy



Cardiology

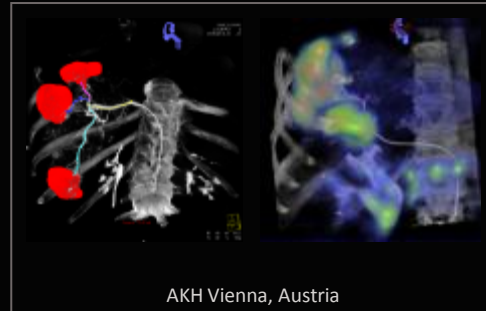


MGH, Heart Center Boston, USA

Coronary Artery Disease (CAD):

Enhance stent visualization in real-time with image quality tools

Interventional Radiology

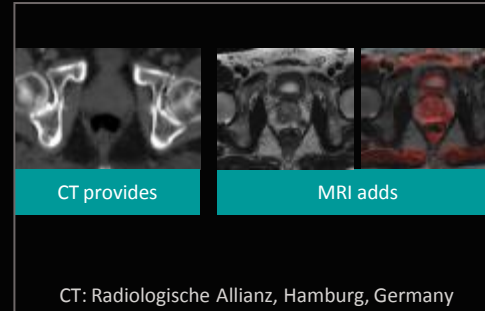


AKH Vienna, Austria

Interventional Oncology:

Estimate tumor response by evaluating initial tumor blood volume and its decrease due to embolization

Radiation Oncology

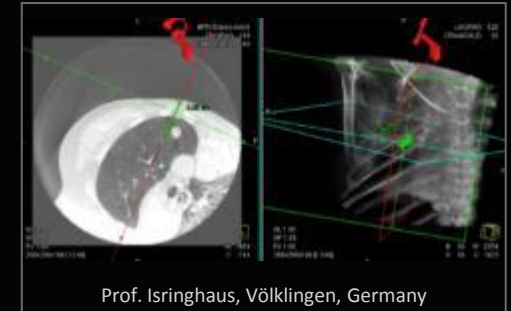


CT: Radiologische Allianz, Hamburg, Germany

MRI in RT:

Adding valuable information on tissue properties

Surgery



Prof. Isringhaus, Völklingen, Germany

Thoracic Surgery – Lung cancer:

One-stop needle localization and minimally invasive resection of small pulmonary nodules

Our Ultrasound Portfolio

– Enhancing operational efficiency



ACUSON S Family HELX™ Evolution with Touch Control



- **Intuitive, user-focused technologies** that promote streamlined processes for improved exam quality with less effort
- **Crisp and clear images** to make the first diagnosis the right one
- **Investment protection** with an upgradeable ultrasound architecture that addresses evolving needs

ACUSON NX™ Series



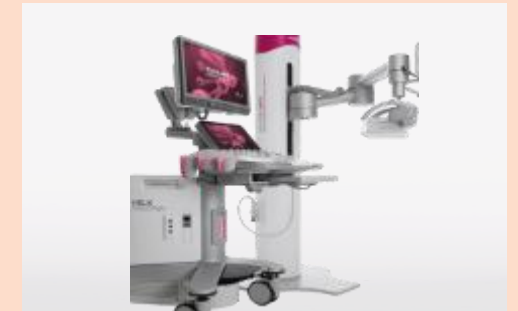
- Advanced workflow solutions for **consistent, accurate results** - even in the **most active clinical settings**
- Adaptable tools for **enhanced clarity across a wide range of applications**
- Versatile ultrasound platform **built to grow as needs evolve**

ACUSON Freestyle™ Series



- World's first wireless ultrasound solution, **redefining ultrasound access in the interventional suite and at the point of care**
- Scalable configurations to promote **automated workflow, clear visualization and faster access** to the ultrasound procedure
- **Consistently focused image from near to far field**, with a simplified workflow obtained by a single user

ACUSON S2000™ ABVS¹ HELX™ Evolution with Touch Control



- **Reduced intra-operator variability in breast practice**
- Views of the anatomical coronal plane for a more **holistic and intuitive view of the global breast architecture**
- **Hands-free acquisition** to produce consistent and reproducible results

1) ABVS = Automated Breast Volume Scanner

Our Laboratory Diagnostics Portfolio – Serving laboratories of any size



Lab Automation/Diagnostics IT



Chemistry



Immunoassay



Drug Testing



Hematology



Hemostasis



Plasma Proteins



IDD



Largest number of installed Track-based Automation Systems¹⁾

Our Point of Care Portfolio

– Giving full control over POCT program

The challenges of POC testing



Dozens of sites



Hundreds of instruments



Thousands of operators

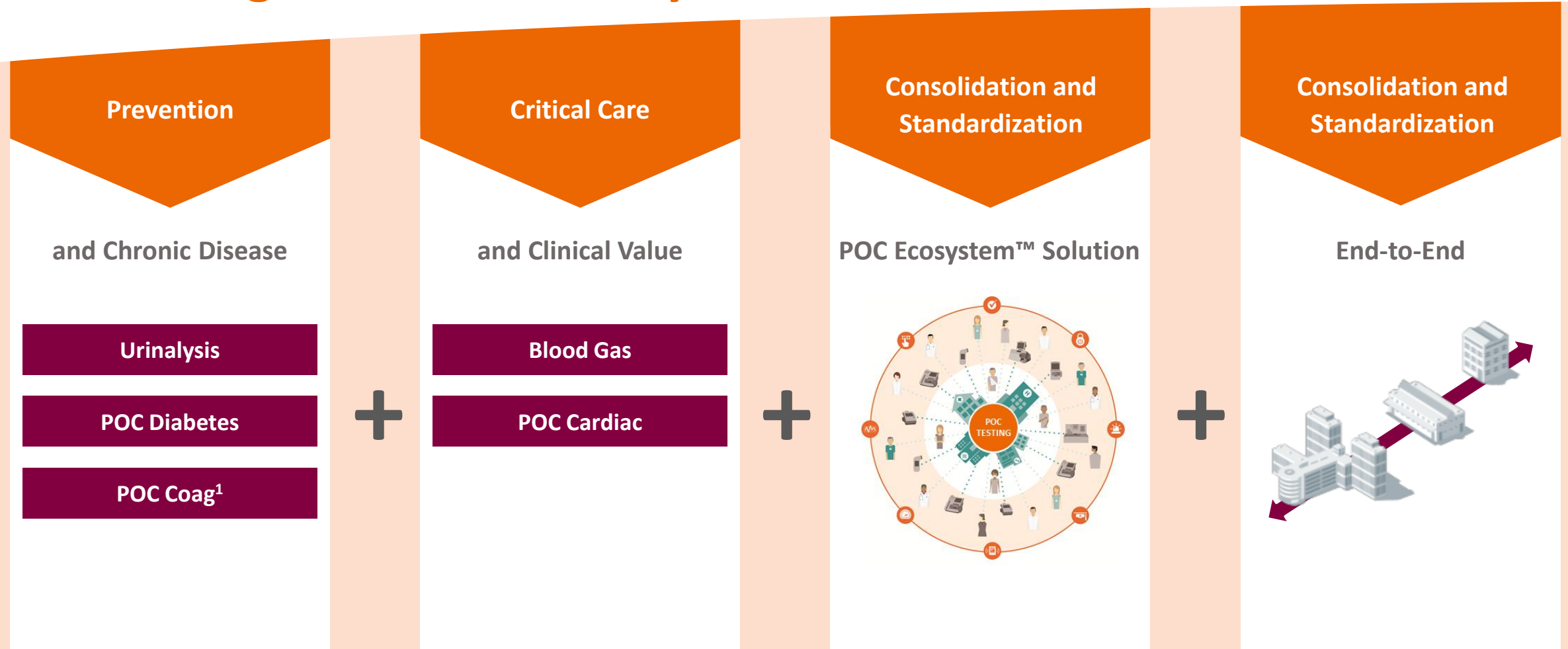
The Point of Care Ecosystem™ Solution

Provides full control over our customers' testing environment



Our Point of Care Portfolio

– Providing end-to-end ecosystem solutions



1) Product availability varies by country.

Entering the Field of Molecular Services – Pursued through NEO New Oncology AG



Third-generation cancer genome diagnostics



FFPE (tissue)



Cytology (cells)



Blood

Clinical routine sample



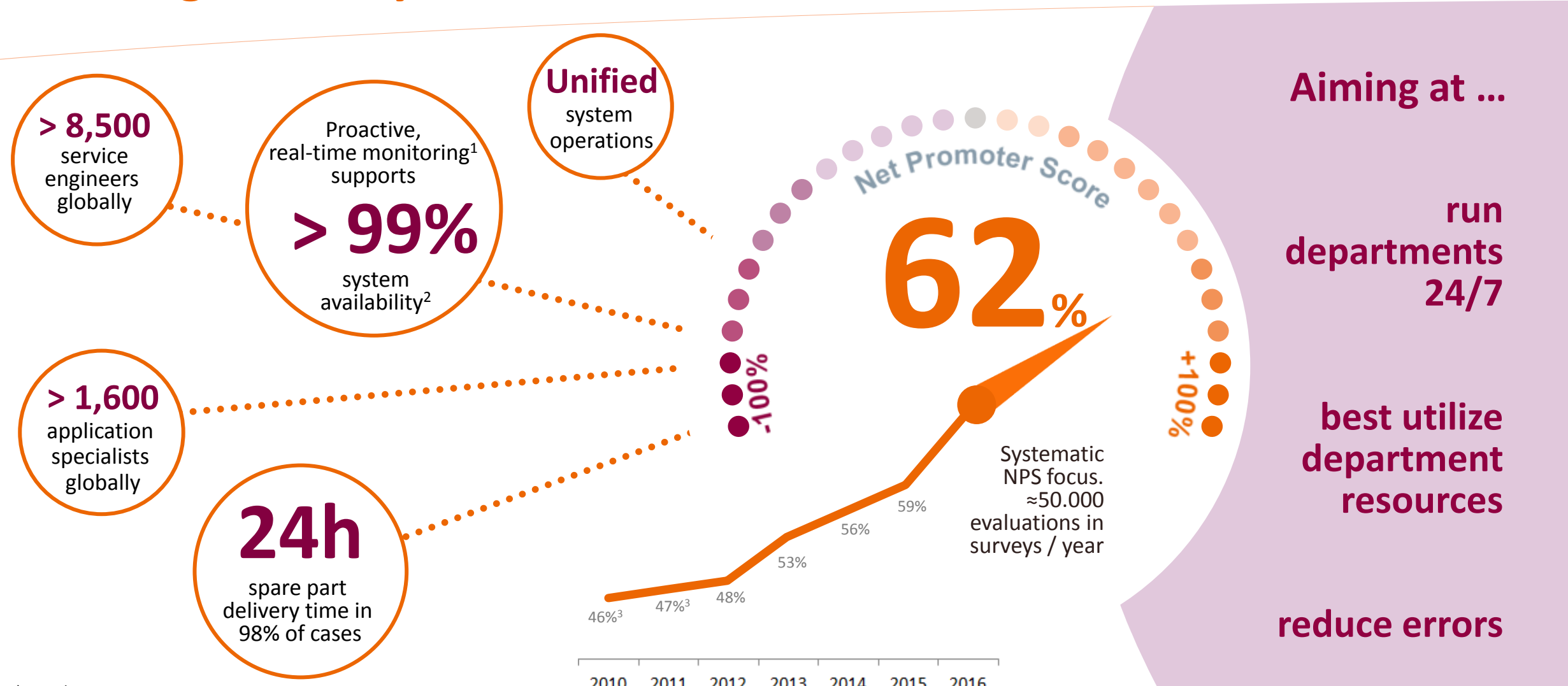
NEO analysis to detect all therapeutically relevant genomic alterations in one sample



Medical report including therapeutic options and information on available clinical trials

Reliable identification and interpretation of all therapy-relevant genomic alterations with only one tissue/blood sample

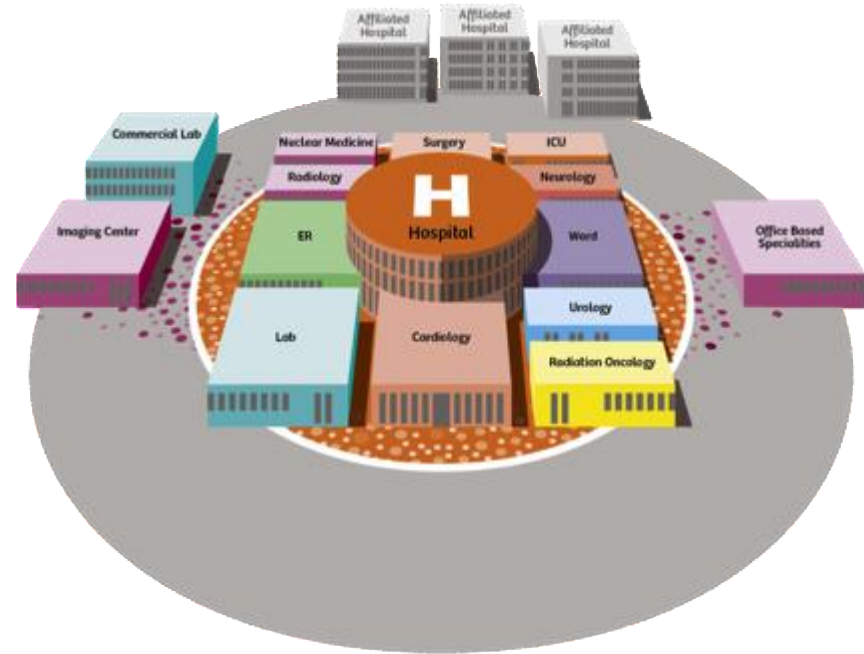
Engineering Success – With High-Quality Products and Service







1) Guardian™
2) In countries where available
3) Imaging only

Innovations Transforming Departments

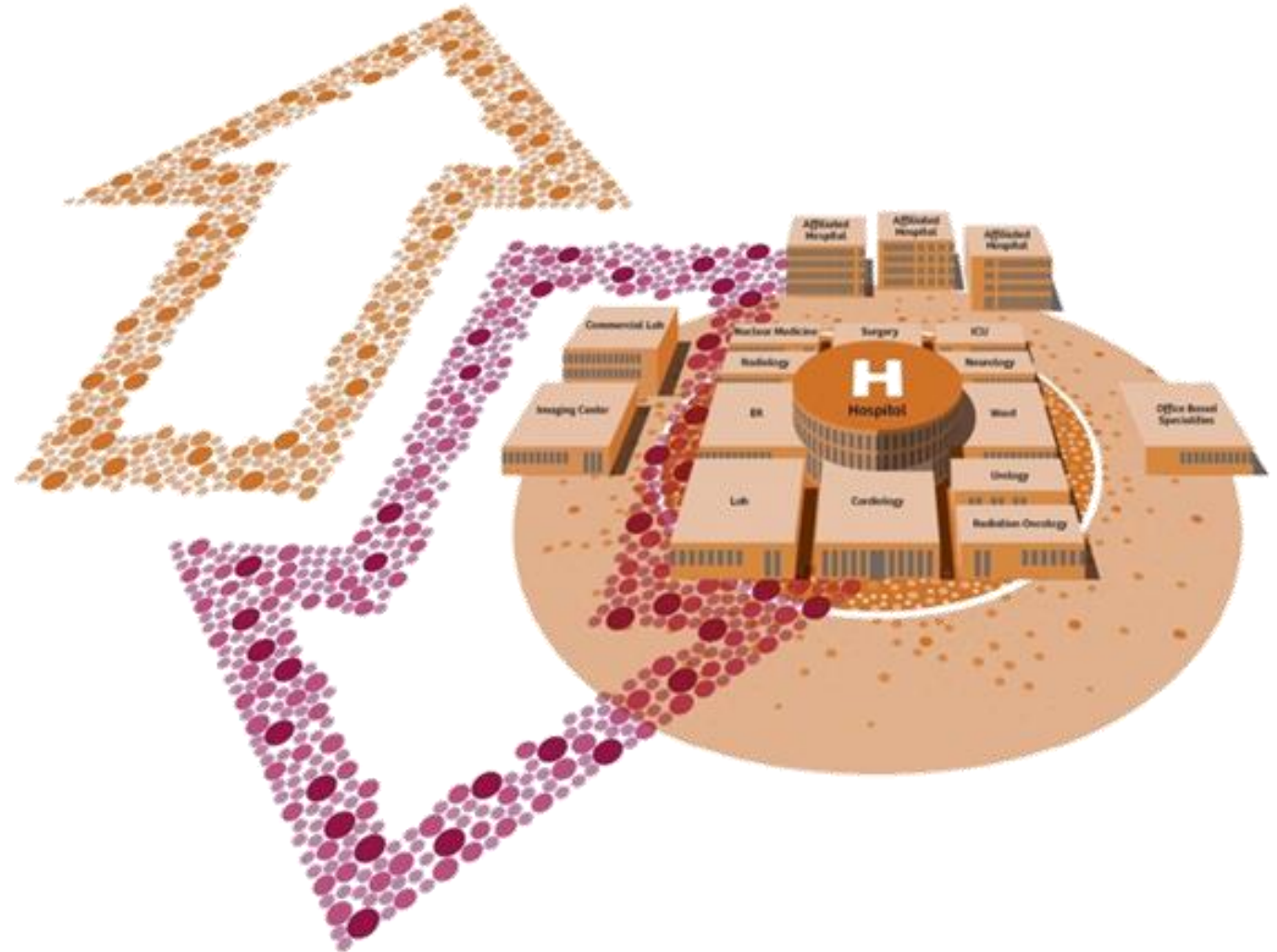
-  Diagnostic confidence at the point of care
-  Highest diagnostic quality and efficiency
-  Fast triaging
-  Clinical and workflow excellence in the lab



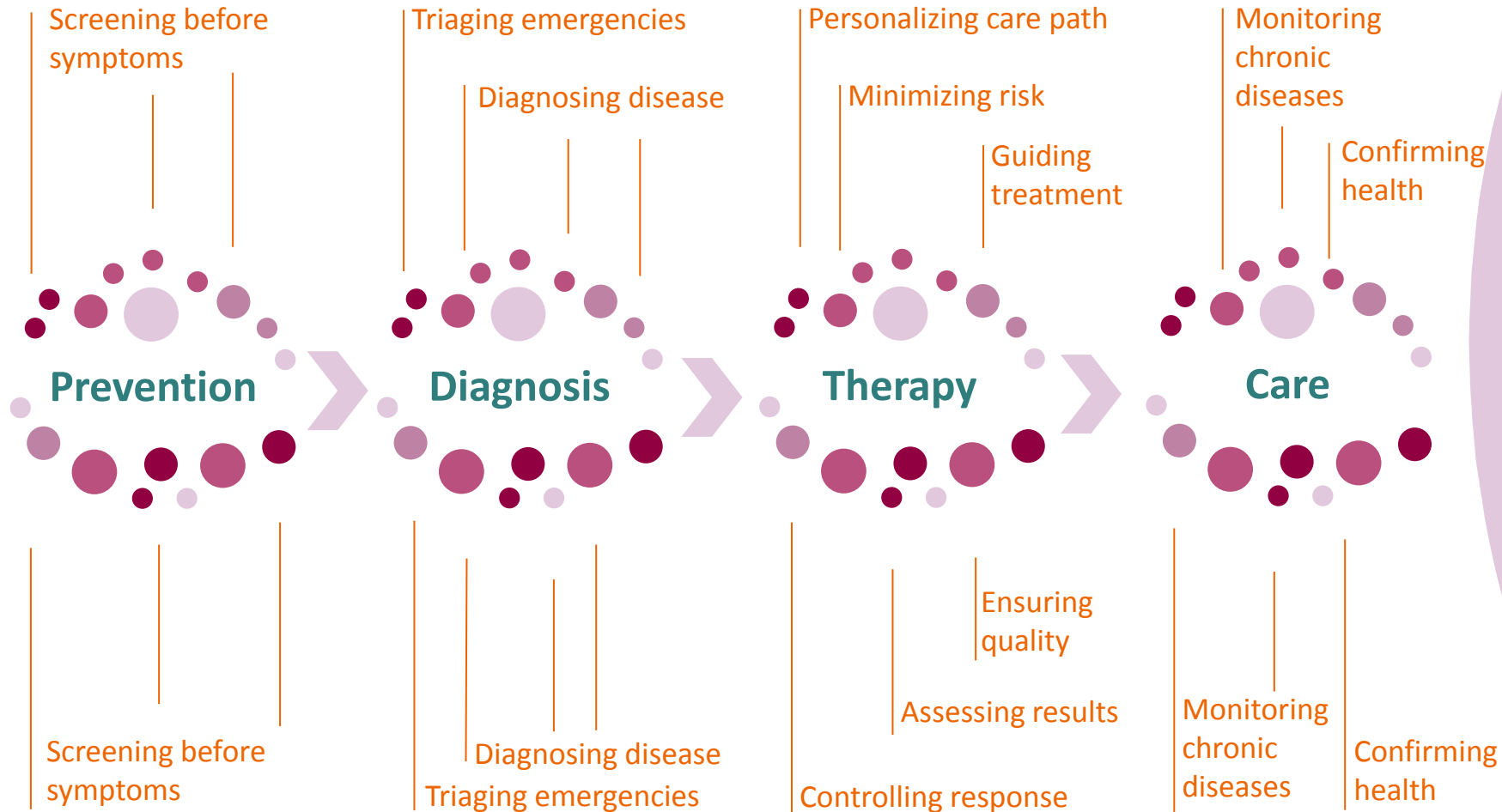
-  Efficient monitoring of chronic diseases
-  Customized care for specific patients & disease
-  Safe and effective min. invasive therapies
-  Precise state-of-the-art radiation therapy

Pioneering Healthcare

Services Transforming
Systems



Our Technology – The Nervous System for Healthcare Providers



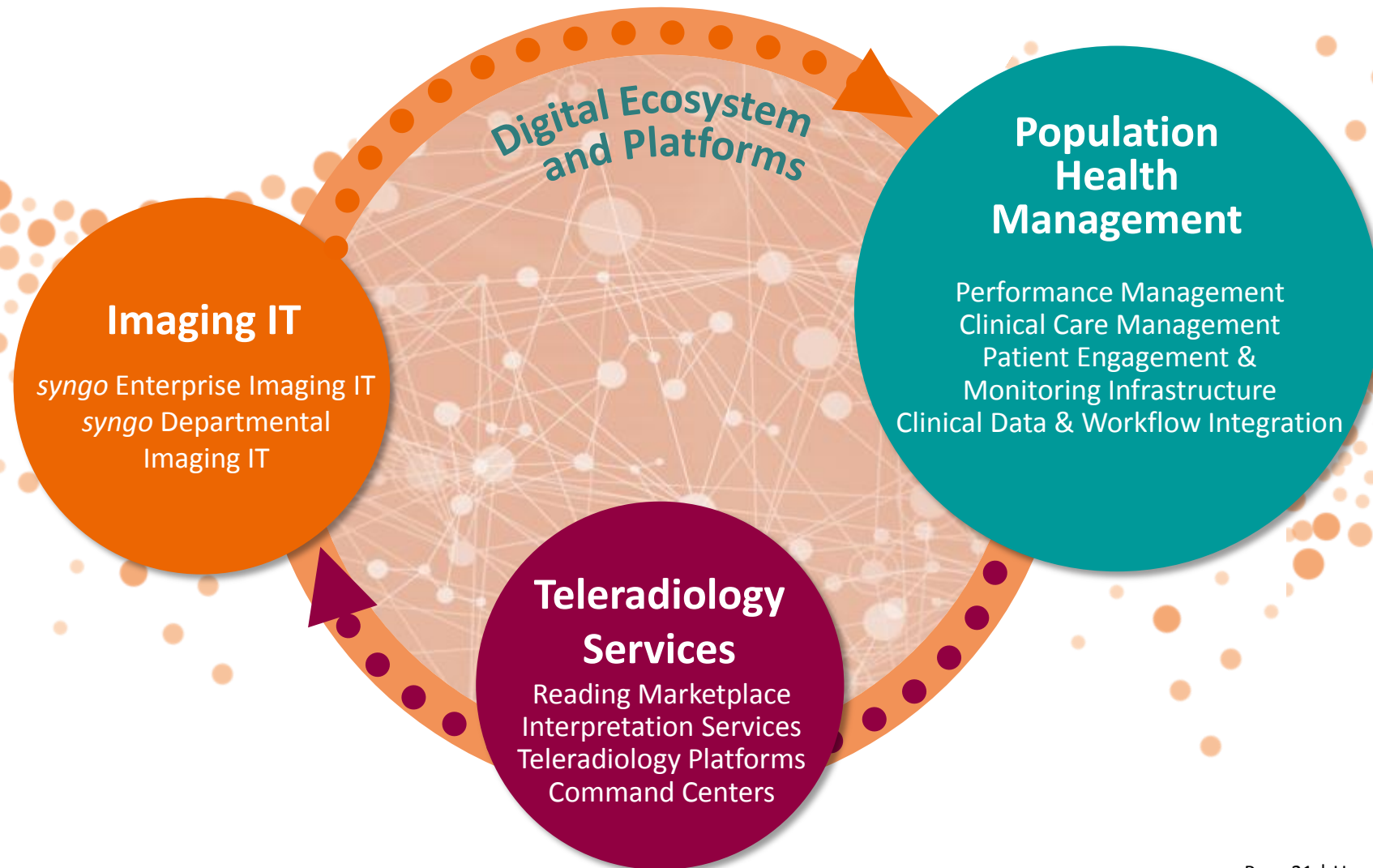
> 70%
of critical clinical
decisions influenced
the type of technology
we provide¹

2%
of budget touching
almost every patient

**covering all major
disease states**

1) AdvaMedDX, "A Policy Primer on Diagnostics", June 2011, page 3

Pioneering Healthcare – Through Digital Services



Pioneering Healthcare – Through Enterprise Services



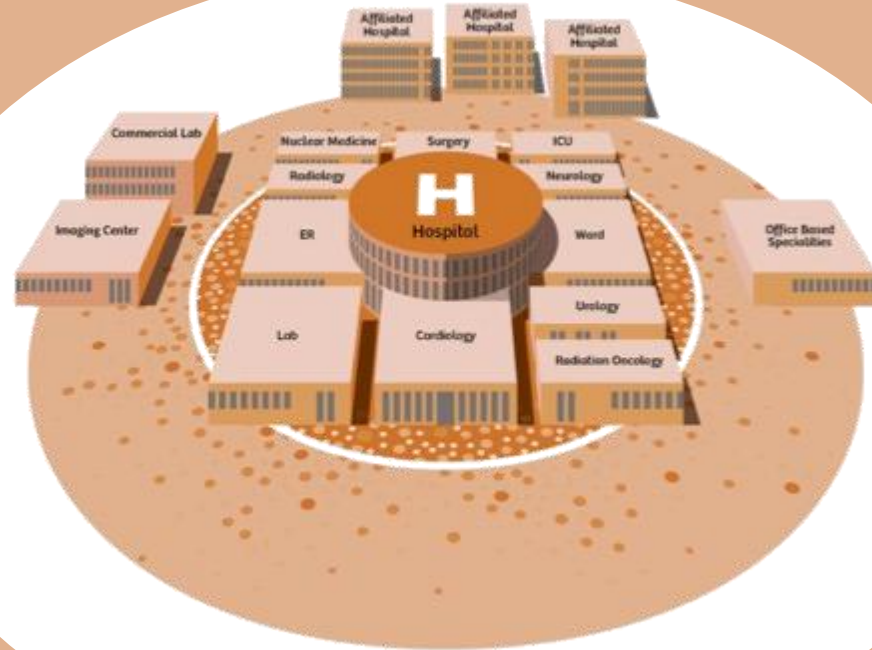
Enabling **standardized procedures across multiple sites**



Consulting and helping to bring efficiency to the next level



Helping master the **transformation towards value-based care**



Helping master the **digital transformation**



Avoiding obsolescence with **new technology upgrades**



Protecting your investment for the healthcare enterprise



Together

People Transforming
the Industry



Our People – Engineers. Pioneers. Passionate for Healthcare.

10%

of employees
with clinical
background

> 1,600

invention
disclosures
in 2016

7,660
R&D employees

17% of
entire company



“A day without
**passion for
healthcare** is a
lost day”

≥85%

employee
engagement

50%

of employees
globally
with Siemens
Healthineers
> 10 years

92%

of employees
committed
to go the
“extra-mile”

Together – A Unique Network to Transform the Industry

- > Direct presence in **75 countries**
- > **4,400** research collaborations
- > All **U.S. News and World Report Honor Roll Hospitals** are Siemens Healthineers customers
- > **600,000** installed systems

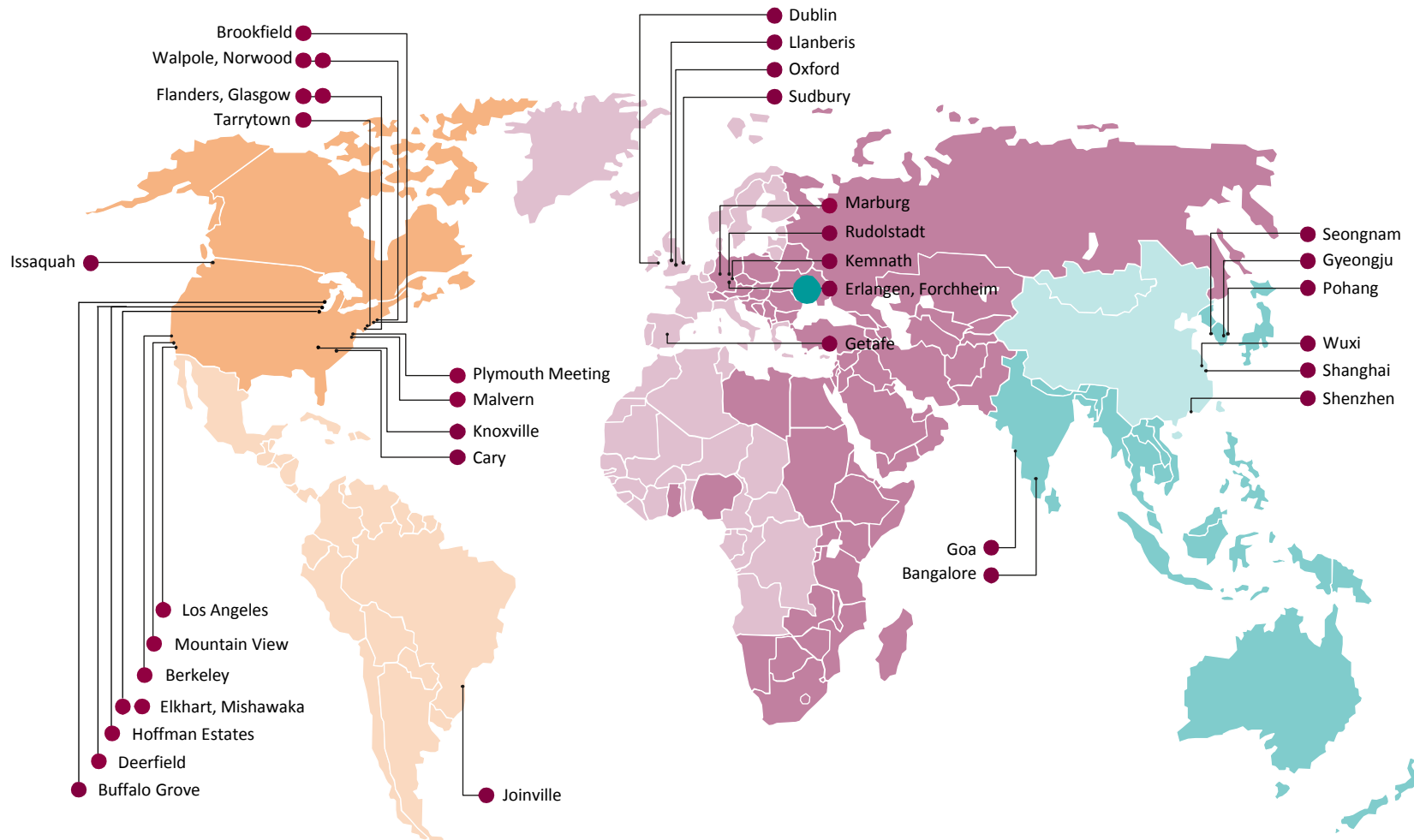
Gives access to ...

latest research activities & results

deep market insights

operational experience

Together – We are Where You are



Local everywhere with sales & service

- **North America**
> 5,600 employees
- **Latin America**
> 1,500 employees
- **Western Europe and
Western Africa**
> 3,800 employees
- **Central Europe,
Middle East, Africa**
> 3,900 employees
- **Asia Pacific**
> 3,600 employees
- **North East Asia**
> 2,700 employees

What if you could provide optimal care while weathering a storm?

Computed Tomography & Imaging IT



Children's Hospital of Alabama Birmingham, Alabama, USA

"I realized that night that through technology and our wonderful employees that we would make it through anything."

Karen Nide, Diagnostic Radiology Manager

Challenge



Process Efficiency



Standardization



Patient Outcome

Provide optimal emergency care and quick diagnosis in a 3-day span of tornado storms

Healthcare engineering

- Siemens CT passed the stress test of scanning 151 patients' head, neck, chest, abdomen and pelvis in one night
- PACS system made images available at multiple locations at the same time, allowing for fast and efficient reading and reporting

Value contribution

Ø 12 min

Patients on and off the CT table

151

CT scans read in one night

176

X-ray exams read in one night

What if you could reduce the door-to-needle time to 20 minutes?

Computed Tomography & Consulting



Helsinki University Hospital Helsinki, Finland

“Industry could and should have more role to help distribute optimal information about stroke care and helping international stroke organizations to do the same.”

Professor Markku Kaste, MD

Challenge



Patient Outcome

Improve outcome and quality of life for stroke patients



Process Efficiency

Speed up treatment



Financial Performance

Reduce long-term hospitalization and institutional care

Healthcare engineering

- Joint analysis and change of processes to better connect the ambulance services with the emergency department and the latter with the neurological department
- Move of the CT system to the emergency department to shorten distances and save precious time
- Therapeutic lysis can be performed immediately while the patient is still in CT

Value contribution

25%

Reduction of stroke mortality from 30 to 25 percent in the period from 2004 to 2014

Ø 20 min

Door-to-needle time

14.4 mio €

Savings in chronic care costs in 2007

What if you could achieve maximum accuracy for the smallest patients?

Magnetic Resonance Imaging & Molecular Imaging



University Hospital Leipzig Leipzig, Germany

“If simultaneous MR and PET examinations show that the patient will not respond to a treatment, the patient does not have to undergo a useless treatment that would only be a strain on him or her, and the plan can shift to a different treatment instead.”

Professor Henryk Barthel, MD, Assistant Medical Director,
Nuclear Medicine Department

Challenge



Clinical Capabilities

Accuracy of treatment guidance in oncology, specif. for pediatric patients



Process Efficiency

High efforts: 2 scans and 2 sedations needed



Reputation

Keeping position as leader in science and research

Healthcare engineering

Hybrid imaging (MR-PET):

- combined morphological and functional information
- minimal radiation exposure
- less time and resource efforts

Value contribution

#

Treatment response can be quantified

-1

One scan and sedation less per case



First hospital with MR/PET certified and approved for regular use in patients

What if you could improve the life expectancy of liver cancer patients?

Interventional Radiology



University of Texas MD Anderson Cancer Center, Houston, Texas, USA

“While TACE has been around for decades, the recent improvements in intra-procedural imaging have given us the necessary anatomic information to be more targeted and therefore more aggressive with treating liver cancers.”

Michael J. Wallace, MD, Interventional Radiologist
(*5/15/1966 + 5/31/2016)

Challenge



Clinical Capabilities



Patient Outcome

Fight liver tumors that are extremely dangerous, with a very poor long-term prognosis for patients

Healthcare engineering

- Liver tumors can be treated accurately and safely with transarterial chemoembolization (TACE) by precisely guiding the catheter using *syngo* DynaCT

Value contribution



Better understanding of the extent and characteristics of the tumor

∅ 10 mths

Increased life expectancy of liver cancer patients

What if you could reduce complications in spinal surgery below 0.2%?

Surgery



Shonan Fujisawa Tokushukai Hospital Fujisawa, Japan

“Our system was the world’s first system specialized for spine – great for public relations! We realized that even if the system is used solely for the spine surgeries, it can pay off.”

Dr. Sohei Ebara, Vice President and Director of the Spine and Scoliosis Center

Challenge



Process Efficiency

Speed up surgeries and recovery



Patient Outcome

Reduce side effects caused by misplacement of screws



Reputation

Avoid patient dissatisfaction and damaged reputation due to secondary operations

Healthcare engineering

- High-end imaging in the OR with Artis zeego enables improved workflows and more complex procedures for minimally invasive and open spine surgery
- Less invasive procedures can lead to faster operations, faster recovery, and a reduced number of secondary surgeries and complications

Value contribution

-50%

OR time

<0.2%

Complication rate

+57%

Increased number of patients in the period from 2012 to 2014

What if you could perform LAA closures without general anesthesia?

Ultrasound & Cardiology



Centro Hospitalar Vila Nova de Gaia Espinho, Portugal

“Using AcuNav V, the interventions only need vascular access – the patient is sedated, and neither general anesthesia nor intubation is needed. This fact decreases the periprocedural patient risk.”

Vasco da Gama Ribeiro, MD, Head of the department for Hemodynamics

Challenge



Patient Outcome

LAA closure is a challenging intervention requiring TEE guidance and anesthesia



Workforce

Reduce additional staff in the interventional suite



Financial Performance

Avoid prolonged length of stay

Healthcare engineering

- Real-time volume intracardiac echocardiography (ICE) imaging eliminates the need for anesthesia, thereby providing safer and more efficient procedures.

Value contribution

30 min

Successfully occlude a left atrial appendage (LAA) without anesthesia

**intubation/
anesthesia**

No staff required for intubation and anesthesia

€€€

Sparing patient intubation and anesthesia leads to reduced complications/length of stay

What if you could increase test volume by 20% with no additional staff?

Laboratory Diagnostics



National Health Service (NHS) Tayside Dundee, UK

“Siemens looked at our processes, looked at what we were trying to achieve, then – working with our staff – they helped us design the laboratory.”

Bill Bartlett, PhD,
Joint Clinical Director of Diagnostics

Challenge



Process Efficiency

Integrate three labs into one



Workforce

Free laboratory staff to focus on higher value tasks



Competitiveness

Provide higher level of service for area hospitals and physician practices

Healthcare engineering

- Consolidation of formerly separated core lab disciplines onto a single automation solution
- Use of data-driven decision making and Siemens consultative expertise to determine the optimal track layout, mix of instruments, and workflow
- Intelligently automated workflows that can handle routine and emergency testing on one track

Value contribution

+20%

Workload per day

0

Staff increase

-61%

Reduced turnaround time for add-on tests

What if you could reallocate 40% of your lab staff while improving outcomes?

Laboratory Diagnostics



Hospital Clinic de Barcelona Barcelona, Spain

“Now all the analytical processes, from the loading to the discarding of samples, have been connected to the track. Our technicians only need to load samples to Aptio® Automation. It saves time and reduces biological risk and the probability of errors.”

Dr. Jose Luis Bedini, Head of Core Lab

Challenge



Process Efficiency

Increase test volume



Workforce

Counter lack of qualified
laboratory staff



Liability

Reduce errors inherent
in manual processing

Healthcare engineering

- Automate all diagnostic testing, as well as pre- and post-analytical processes, while consolidating STAT and routine hemostasis on the same system
- Connecting 16 analyzers and integrating more than 350 assays across clinical chemistry, immunoassay, hematology and coagulation

Value contribution

+48%

Tube volume increase
per day to 4,800

40%

Staff reallocated from
repetitive manual work
to more challenging tasks



Reduction of errors in
manual processing

What if you could increase sample volume by 12% and reduce TAT?

Laboratory Diagnostics



North Memorial Health Care Robbinsdale, Minnesota, USA

“Our relationship with Siemens is priceless. They understand what our needs are and what our mission is and our vision and how they fit into it. We couldn’t ask for more.”

Adam Grau, Manager Business Development and Sales

Challenge



Process Efficiency

Improve efficiency and
turnaround time for all testing



Standardization

Maintain quality
of results consistently



Competitiveness

Increase revenue-producing
reference services that rival
much bigger healthcare system

Healthcare engineering

- Workflow analysis to optimize track design, menu balance, and load balance
- Project management and implementation of Aptio® Automation, CentraLink™ Data Management System, Refrigerated Storage Module
- Post-implementation workflow optimization, training, technical services and support

Value contribution

-19%

Basic Metabolic Panel (BMP)
TAT decreased
from 32 to 26 minutes

-17%

Troponin TAT reduced to 29 minutes,
meeting TAT window 97% of the time

+12%

Reference laboratory
sample volume increased

What if you could be faster and more precise at the same time?

Laboratory Diagnostics



Santa Casa Hospital
Porto Alegre, Brazil

“On top of an increased output, we have much more detailed analyses.”

Dr. Carlos Franco Voegeli, Head of laboratory

Challenge



Workforce

Analyze more specimens
in less time



Process Efficiency

Decrease turnaround time
of laboratory results



Patient Outcome

Optimize the accuracy
of analyses

Healthcare engineering

Installation of laboratory automation and data management solutions

- ADVIA® WorkCell® Automation Solution
- Centralink™ Data Management System

Value contribution

50%

Increase in test volume

~0

Human errors in laboratory

What if you could achieve STAT turnaround times of 11.8 minutes?

Laboratory Diagnostics & Consulting



Laboratory Sciences of Arizona, USA a subsidiary of Banner Health

“Siemens and Laboratory Sciences of Arizona have had a long and positive partnership, [...] They are always there to help. That builds trust.”

Mary Acedo, Senior Administrative Director of the Clinical Laboratory at Banner Baywood

Challenge



Process Efficiency

Growing number of patients in observation status in the ER lead to an increase in STAT tests



Workforce

Support optimal utilization of workforce and staff satisfaction



Reputation

Meet requirements for Accreditation for Cardiovascular Excellence

Healthcare engineering

Siemens conducted a consulting project to optimize workflow and instrument configurations through joint efforts in:

- Optimization of testing menus
- Rescheduling of quality control and maintenance activities
- Reagent server reconfiguration

Value contribution

Ø 11.8 min 4.2 miles

STAT turnaround times/14.7 min. analytical testing turnaround times.¹

Annual reduction in unnecessary steps in the lab.



Banner Baywood received accreditation as Chest Pain Center.

1) Does not include pre-analytical and post-analytical time
The results by Siemens' customers described herein are based on results that were achieved in the customer's unique setting. Since there is no "typical" hospital and many variables exist (e.g. hospital size, case mix, level of IT adoption) there can be no guarantee that other customers will achieve the same results.

What if you could assess liver fibrosis in a non-invasive way?

Laboratory Diagnostics & Ultrasound



Hospital Clinic Barcelona (HCB) Barcelona, Spain

“We already had a very good partnership with Siemens, which paved the way for further projects including new diagnostic methods for better managing liver disease, colon and breast cancer, and the prevention of sudden cardiac death.”

Josep Campistol, MD, CEO of HCB

Challenge



Clinical Capabilities

HCB wants to stay at the forefront of clinical research



Patient Outcome

Accurate, timely staging of liver fibrosis for appropriate treatment



Financial Performance

Avoid costly and resource intense testing

Healthcare engineering

Joint research project on non-invasive diagnostic methods for liver fibrosis, combining

- Lab test based on a set of blood biomarkers
- Acoustic Radiation Force Impulse (ARFI) Imaging, an ultrasound technology providing information on the complete organ

Value contribution

100%

Avoided biopsies

-96%/-18%

Mortality reduction for Hepatitis C by 96%, for Advanced Liver Disease by 18%

>90%/~99%

Cost effectiveness at > 90% for Hepatitis C and 99% for Advanced Liver Disease

What if your physician office could reduce efforts and costs?

Point of Care Testing



Massachusetts General Hospital
Boston, Massachusetts, USA

“The economic benefits of POCT may be realized in both fee-for-service and global payment environments.”

J. Benjamin Crocker, et al. Am J Clin Pathol, Nov 2014; 42:640-646

Challenge



Process Efficiency

Ordering laboratory tests after a primary care visit requires follow-up calls with the patient



Reputation

Ordering laboratory tests after a primary care visit may require revisits by the patient



Financial Performance

Tendency to order unnecessary tests for physician and patient convenience

Healthcare engineering

- Implementing Point of Care laboratory testing in the primary care practice allowed to reduce turnaround time and improve operational efficiency

Value contribution

-89%/85%

Follow-up calls /follow-up letters

-61%

Revisits

-21%

Tests ordered per patient

What if you could speed up diagnosis and enhance diagnostic accuracy at the same time?

Point of Care Testing & Molecular Imaging



Floyd Medical Center
Rome, Georgia, USA

“We anticipate the approaching changes and have put in place the necessary measures for improvements.”

Alison Land, Vice President

Challenge



Patient Outcome

Achieve gold standard of 90 minutes door-to-balloon time



Process Efficiency

Quickly identify patients with Acute Coronary Syndrome



Financial Performance

Reduce readmission rate for patients with chest pain

Healthcare engineering

Emergency department equipped with

- Dimension® EXL™ 200 Integrated Chemistry System STAT lab
- Symbia S with IQ SPECT cardiac software

Value contribution

Less than ½ time

Stress tests now in \varnothing 10 minutes instead of 27

-10 min

Faster troponin test results

-63%

Decrease in readmission rates for heart attack and heart failure

What if you could drastically reduce system downtime?

System Services



Ruijin Hospital Shanghai, China

“Before, in the case of failure, we had to first identify what the problem was, then call a technician by phone. This has changed.”

Dr. Haipeng Dong, Deputy Director of the Radiology Department

Challenge



Process Efficiency

Reduce downtime
of medical equipment



Reputation

Avoid loss of patient trust



Patient Outcome

Provide optimized time-to-treatment in emergency cases

Healthcare engineering

- The digital fleet management portal LifeNet offers real-time data on equipment status via a web interface and the possibility to transmit failures electronically to the Siemens support desk

Value contribution



Reducing avoidable downtime
and system failures



Speeding up initiation
of repair process

24/7

Web interface

What if you could get financing, equipment, and service from one source?

Financing & Managed Equipment Services



Ommelander Ziekenhuis Groningen (OZG) Groningen, Netherlands

“Thanks to their knowledge of what comparable hospitals work with in terms of equipment they gave us good advice... It's from these discussions that the added value comes. And Siemens is clearly in the relationship for the long-term.”

Rinze Visser, director of Finance and Procurement at OZG

Challenge



Financial Performance

Banks are reluctant to fund both new buildings and new equipment



Overhead Burden

Keeping capital costs low



Liability

Mandatory regular technology service and its documentation

Healthcare engineering

A solution was developed:

- To finance the new hospital, Siemens Financial Services joined forces with OZG's principal bank, ABN AMRO. Together both parties are investing 58 million euros in the project.
- To cover the installation, management, maintenance, and regular replacement of the relevant medical equipment.

Value contribution

58 mio €

Financing project, out of a total investment of 110 mio €

15 years

Constant technology updates and upgrades for the tenure of the contract



Siemens shares the responsibilities and risks

What if you could improve patient outcome while increasing overall profitability?

Comprehensive Stroke Solution



Rush University Medical Center Chicago, IL, U.S.

„Jointly with Siemens Healthcare we uncovered potential for cost reduction, bringing the cost per stroke case down by 11.2%.“

Wendy Stark-Riemer, MHA Neurosciences Service Line Administrator

Challenge



Patient Outcome

Improve outcome and quality of life for stroke patients



Process Efficiency

Optimize processes to shorten door-to-needle times



Financial Performance

Increase overall profitability

Healthcare engineering

- Support during the planning and construction phase. Site planning taking into account process efficiency aspects and on-site coordination via dedicated project manager
- Consulting for optimization of clinical processes and workflows
- State-of-the art imaging modalities to advance clinical capabilities and drive reputation
- Asset and fleet optimization via IT analytics to standardize quality of care and ensure maximized returns

Value contribution

-33%

Reduction in the degree of severity of symptoms at discharge

-27%

Reduction in door-to-needle time

-11.2%

Reduction in cost per case while number of cases increased by 15.1%

What if you could turn CAPEX into OPEX?

Managed Equipment Services



William Osler Health System Ontario, Canada

“We now have a great partner who can help us to look at best practices, best workflow and optimal outcomes for patients.”

Joe Fairbrother, MD, Medical Director

Challenge



Financial Performance



Patient Outcome

Cut costs while continuing to deliver the highest standard of care and better treatment results



Overhead Burden

Replace obsolete systems while not having the annual budget

Healthcare engineering

- Procurement, replacement and maintenance of some 190 vendor-neutral diagnostic imaging equipment items for radiology and cardiology
- Financing and clinical solutions, professional services, room renovations, training for clinical users as well as onsite technical support

Value contribution

15 yrs

15 years technology partnership in radiology

> 190

> 190 clinical equipment items

100%

Fully financed through Siemens, all equipment purchases converted to OPEX

What if you could expand your clinical capabilities while saving costs?

Managed Equipment Services



Zaans Medical Center (ZMC) Zandaam, Netherlands

“The utilization management and project management systems have helped us reach more productive results and efficiency through better response and resolution times.”

Martin Borggreve, Head of Radiology (right)

Challenge



Clinical Capabilities

Obtain state-of-the-art equipment to improve clinical capabilities and offer new examinations



Process Efficiency

Optimize processes and improve operational results



Financial Performance

Support cost effectiveness

Healthcare engineering

13-year partnership contract covering

- Provision of state-of-the-art medical technology
- Maintenance services, upgrades and replacements
- On-site operational management
- Solutions for lean clinical workflow
- Contractual basis for financing a new hospital building

Value contribution

+100

Additional patients examined per month in CT

99.6 %

System uptime exceeds agreed levels

€ 135,000

Annual savings through MES, compared to traditional procurement


People Transforming the Industry



Trustworthy & reliable




Committed & empowered to serve your success



Resilient partner at your side



Offering new perspectives and challenging conventional thinking



Giving access to the **knowledge** of our **worldwide network**



Well-versed with provider operations and challenges

Siemens Healthineers – Jointly Transforming the Way Healthcare is Delivered



Engineering Success

- 120 years of innovation
- Broadest and deepest portfolio
- High-quality products and service

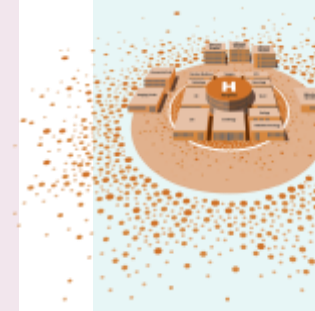
Innovations transforming departments



Pioneering Healthcare

- The nervous system for healthcare providers
- Digital Services
- Enterprise Services

Services transforming systems



Together

- Engineers. Pioneers. Passionate for Healthcare.
- A unique network to transform the industry
- We are where you are

People transforming the industry

Now's our time
to inspire
the future
of healthcare together

Engineering success.
Pioneering healthcare.
Together.