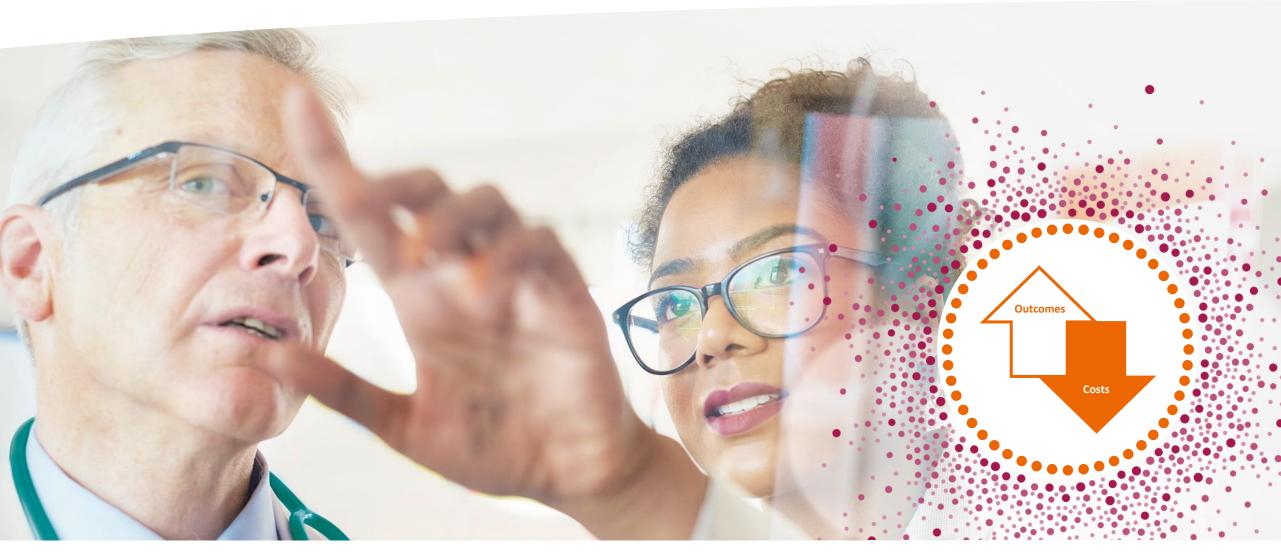




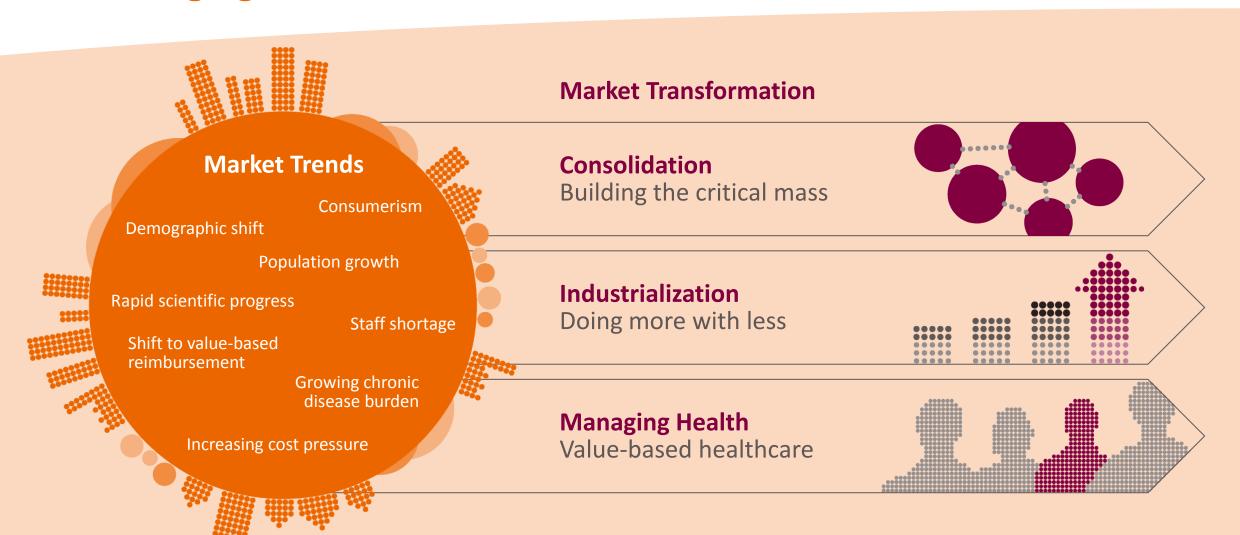
The Medtech Industry strive to become our customers inspiring partner: Why?







The changing healthcare market



The changing healthcare market creates multiple challenges on our customers end ...







Extend Clinical Capabilities



Improve Quality of Care



Standardize Care

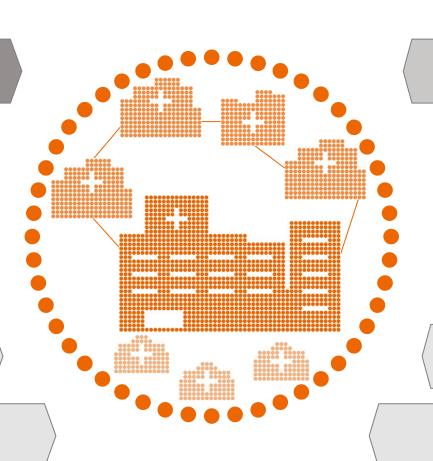
Operational



Increase Efficiency



Attract, Retain, Develop Workforce



Financial

Manage Reputation



Improve Profitability



Stay Competitive



Reduce Risk & Act Compliant

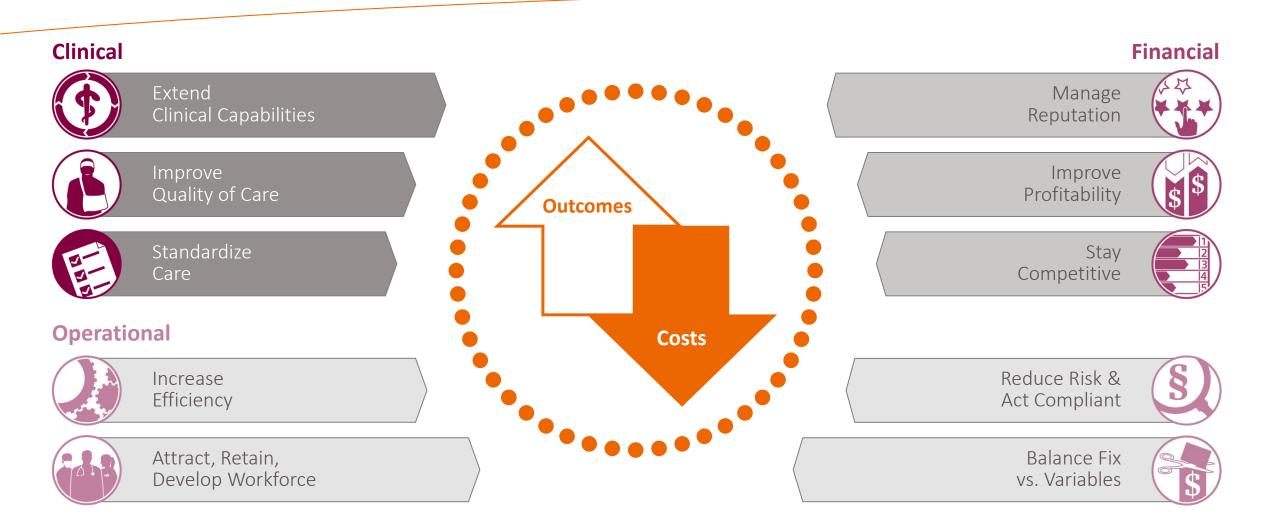


Balance Fix vs. Variables



... requiring our customers to increase outcomes while decreasing costs

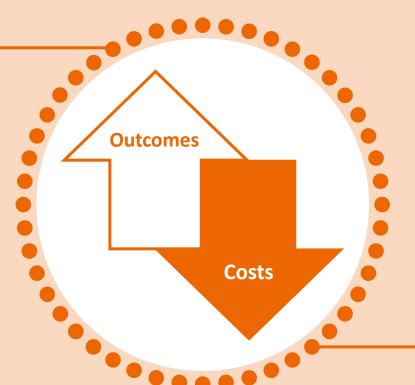




Our focus is to enable our customers to achieve better outcomes at lower costs



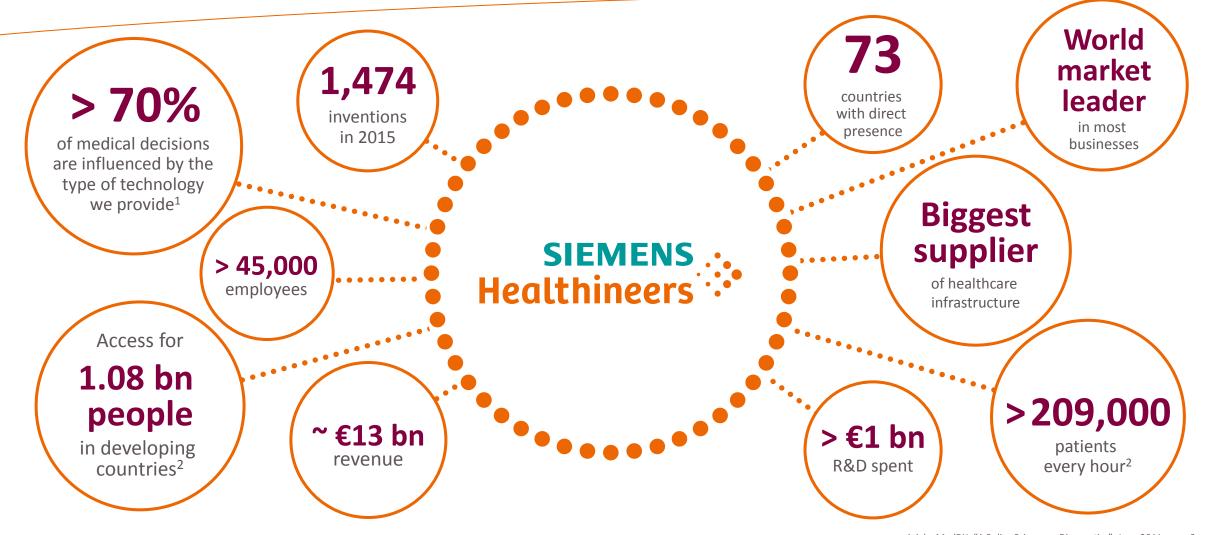




lower costs

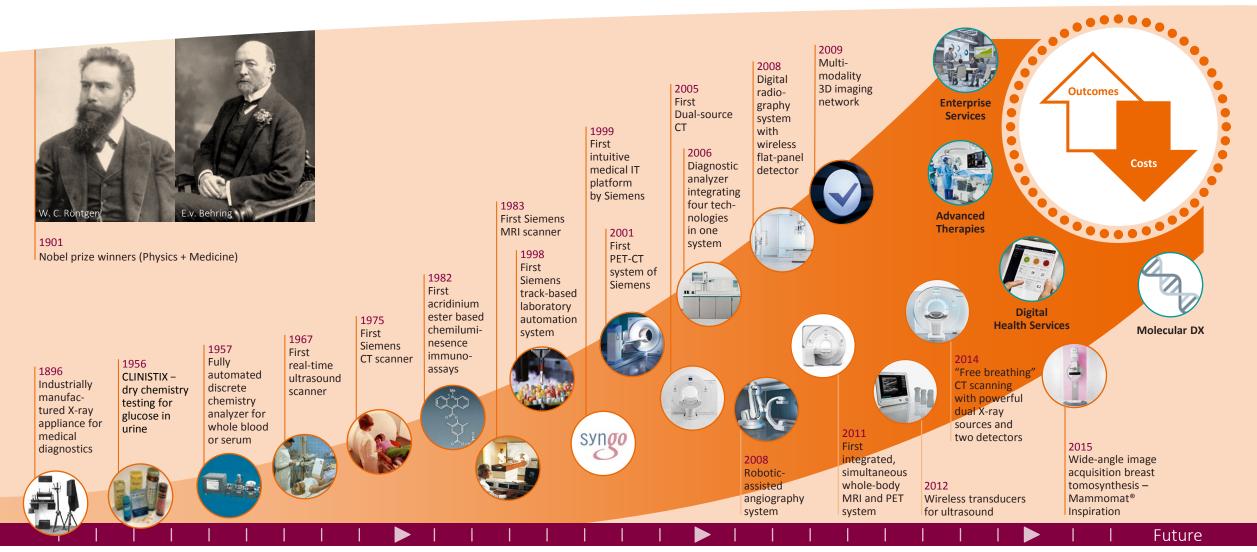
As their partner, we offer expertise and resources for their specific needs





Built on over 120 years of dedication to innovation, we have a long history in enabling healthcare providers ...



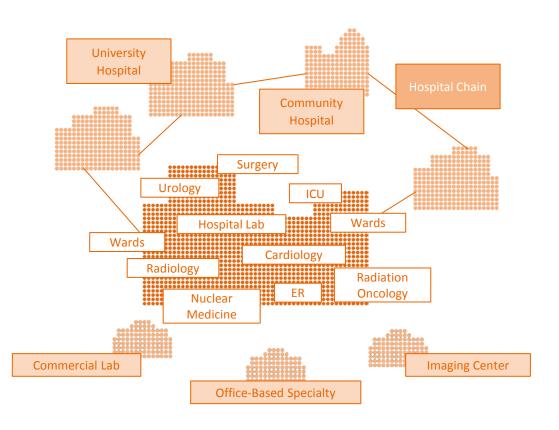


We provide valuable solutions – Starting at the bed side and the point of care





We help to achieve diagnostic confidence at **the point of care**



We help to evaluate and monitor chronic diseases

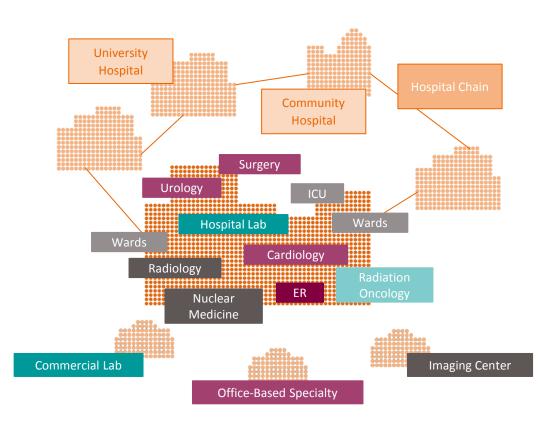
We provide valuable solutions – From single departments to complete service lines



We help to achieve highest diagnostic quality and efficiency

We enable fast triaging

We enable clinical and workflow excellence in the lab



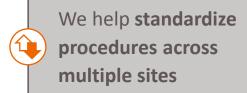
We help to **customize care** to specific patients
and disease states

We help to establish minimally invasive therapies

We enable state-of-the-art (radiation therapy

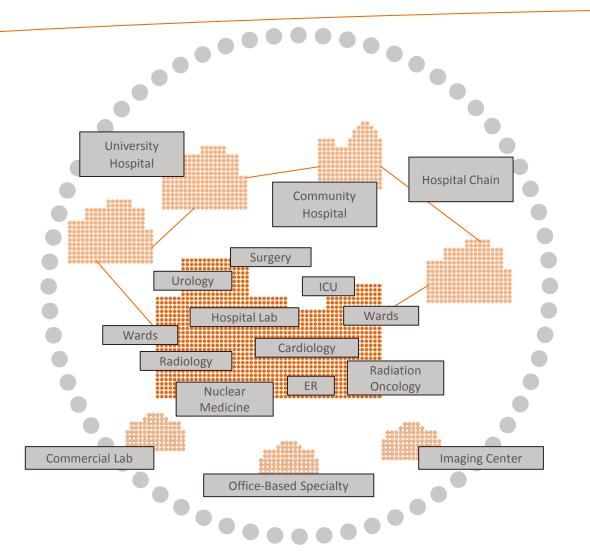
We provide valuable solutions – From single healthcare institution to entire health systems





We **consult** and help to bring efficiency to the next level

We give access to the knowledge of our worldwide network



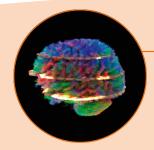
We help master the digital transformation

We help avoid obsolescence with **new technology upgrades**

We protect your investment for the healthcare enterprise

...and we will continue to offer the broadest and deepest portfolio

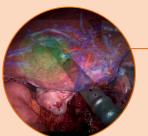




Diagnostic Imaging

We help achieve highest diagnostic quality and efficiency

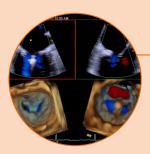
- Computed Tomography
- Magnetic Resonance
- Molecular Imaging
- Radiography & Fluoroscopy
- Imaging IT



Advanced Therapies

We enable advanced therapeutic procedures

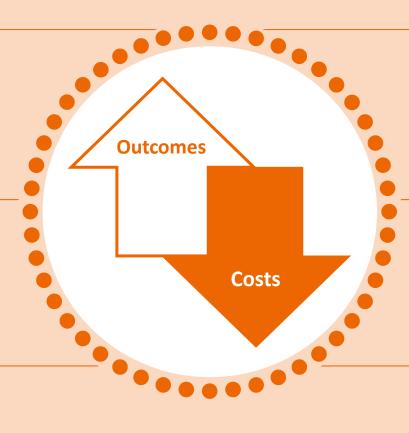
- Cardiology
- Interventional Radiology
- Radiation Oncology
- Surgery



Ultrasound

We enable real-time access to decision-critical information

- Cardiology
- Radiology
- Obstetrics & Gynecology



Laboratory Diagnostics

We enable clinical and workflow excellence in the lab



- Hemostasis, Hematology & Specialty Business
- Molecular Diagnostics



Point of Care

We provide critical patient information in-office and at the bedside

- Blood Gas
- Diabetes
- Urinalysis



Services

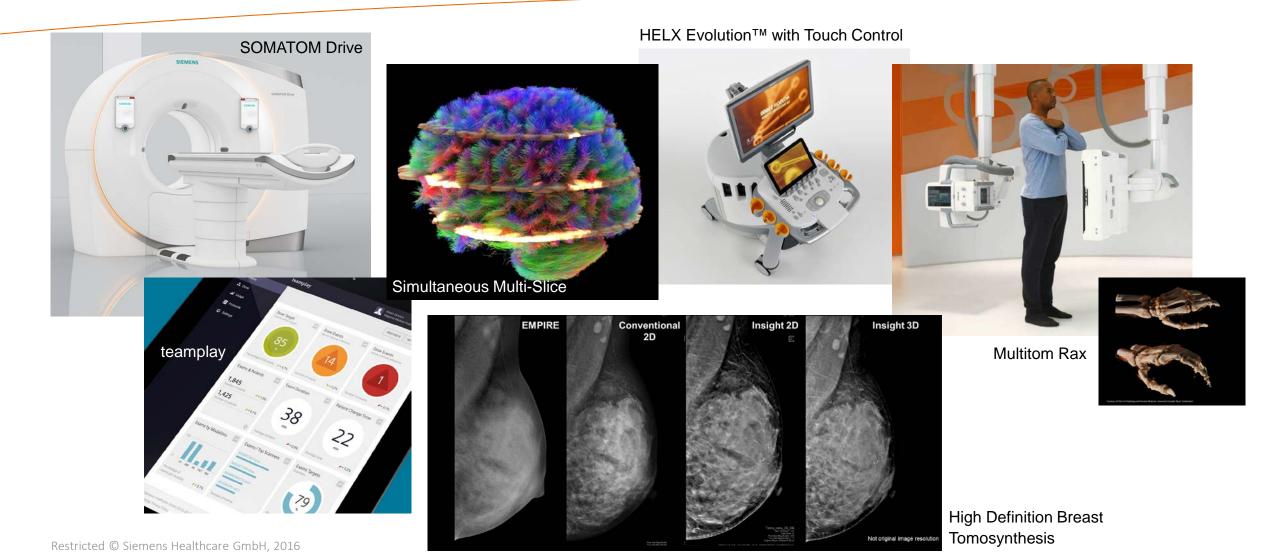
We help achieve best institutional performance

- Customer Services
- Digital Health Services
- Enterprise Services & Solutions



Our latest innovation highlights at ECR 2016 Ahead in every field









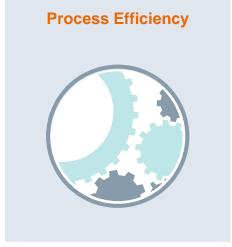
The 10 top "Hot Topics" for hospitals all over the world





















Questions



Clinical capabilities: Aiming for innovative clinical results?	+
Patient Outcome: What adds value to healthcare?	+
Standardization of Quality of Care: A way to manage complexity?	+
Workforce: More work for fewer people?	+
Process Efficiency: Doing more with less?	+
Liability: Legally in force?	+
Liability: Legally in force? Overhead Burden: A burden or an opportunity?	+
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Questions



Clinical capabilities: Aiming for innovative clinical results?	+
Patient Outcome: What adds value to healthcare?	+
Standardization of Quality of Care: A way to manage complexity?	
Workforce: More work for fewer people?	+
Process Efficiency: Doing more with less?	+
Liability: Legally in force?	+
Overhead Burden: A burden or an opportunity?	+
Financial Performance: Up for a challenge?	+
Competitiveness: Competing for the leading edge?	+
Reputation: Is your institution top of mind?	+



Deep Dive: Standardization of Quality of Care

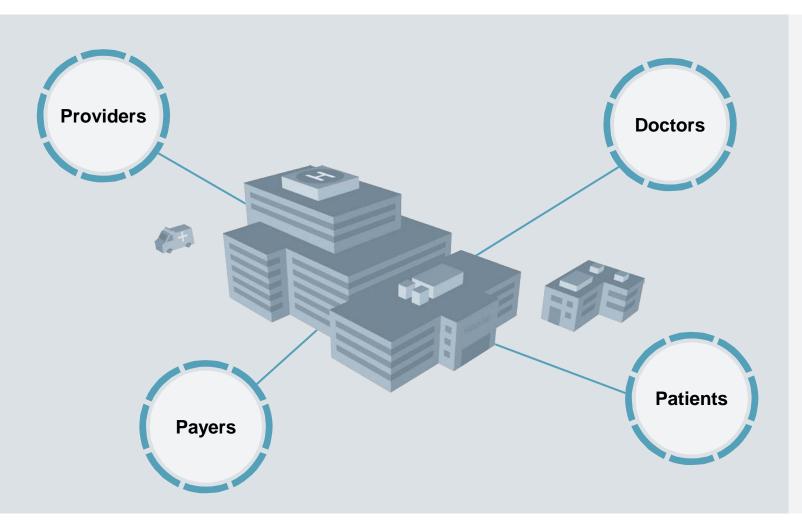
How can you standardize the quality of care provided in your institution?

How can industry support you?



Standardization can help healthcare providers build structure, improve quality, and gain efficiency



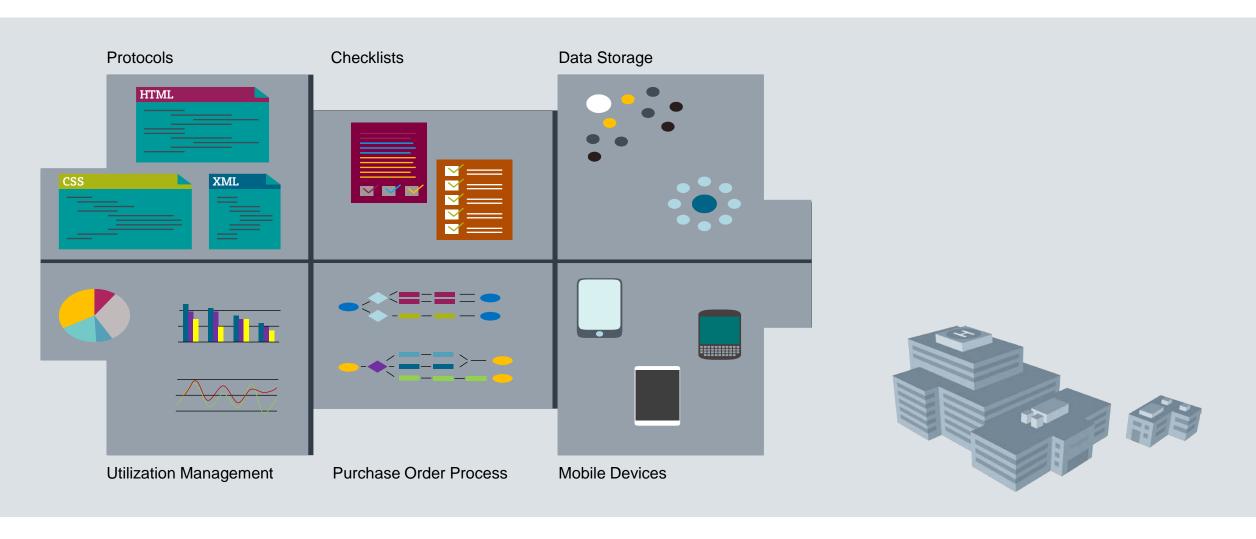


Standardized clinical pathways are increasingly influencing the debate about making healthcare affordable and efficient in a sustainable manner. The reasoning behind this: proven and consistent procedures help make quality of care more measurable and reproducible for doctors, patients and payers. The objective: Treatment and coverage decisions should follow from a sound and transparent evidence base.

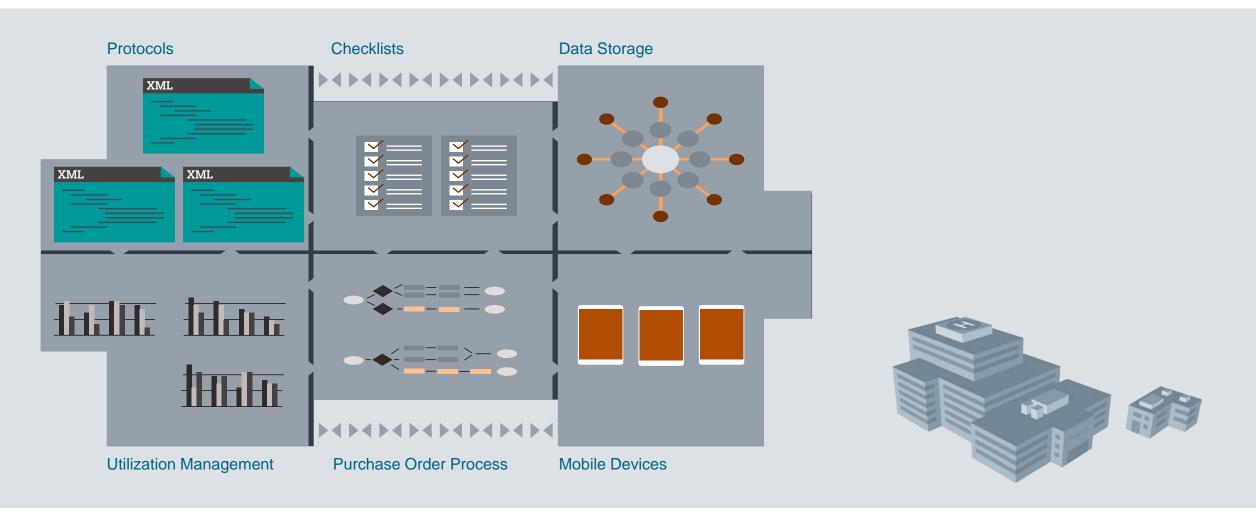
»Top 2

priorities for hospitals are increasing clinical quality and improving standards of care*













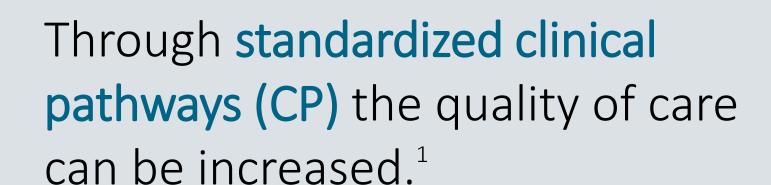








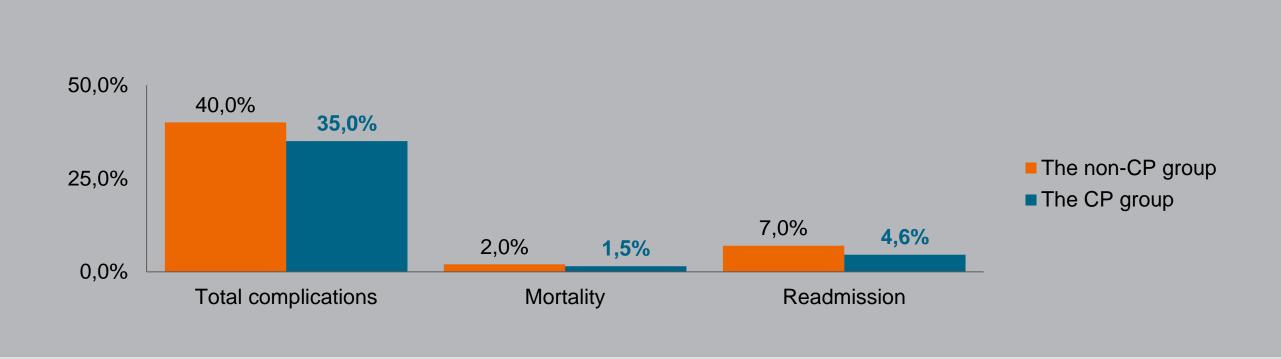






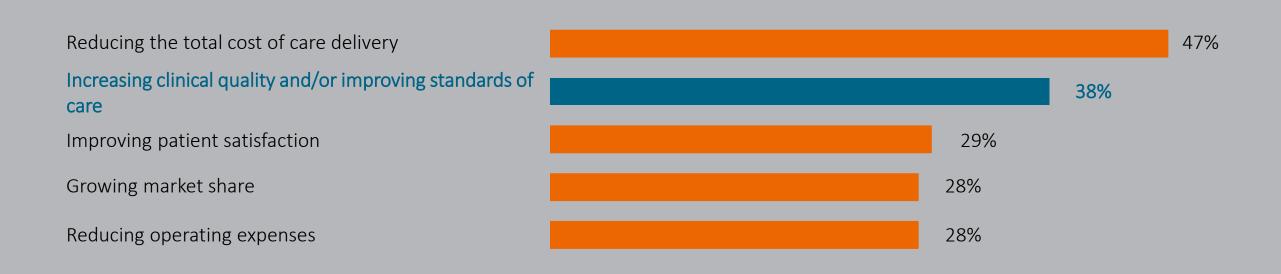


Comparison of postoperative outcomes, in %





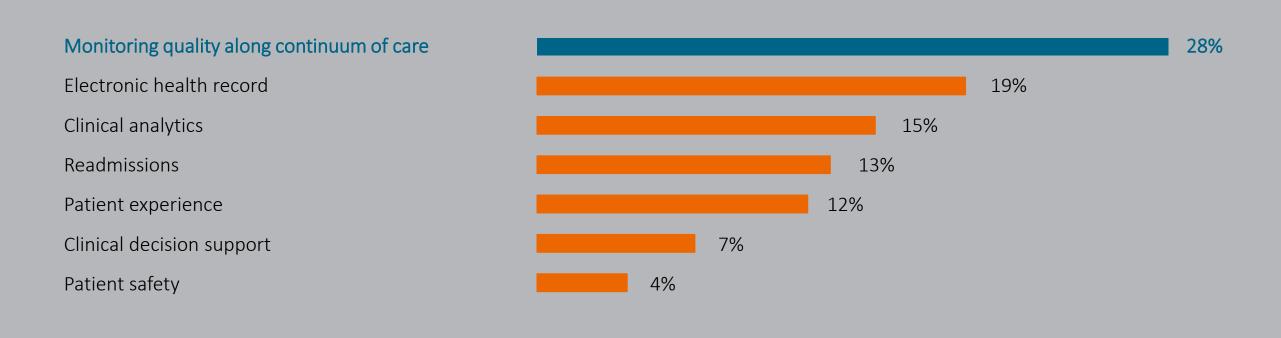
What are your organization's top 5 priorities?



Participants given 12 topics to choose from; n=92

Regarding clinical quality improvement, which of the following areas represents the single greatest challenge for your organization?





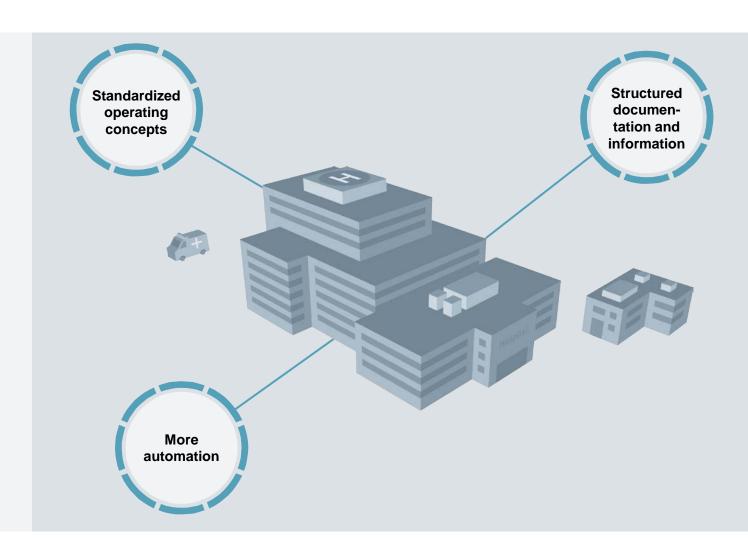
n=112



Quality of care is enhanced by a safe and accurate imaging examination procedure, as well as medical image evaluation leading to a reliable diagnostic and a proper documentation.¹

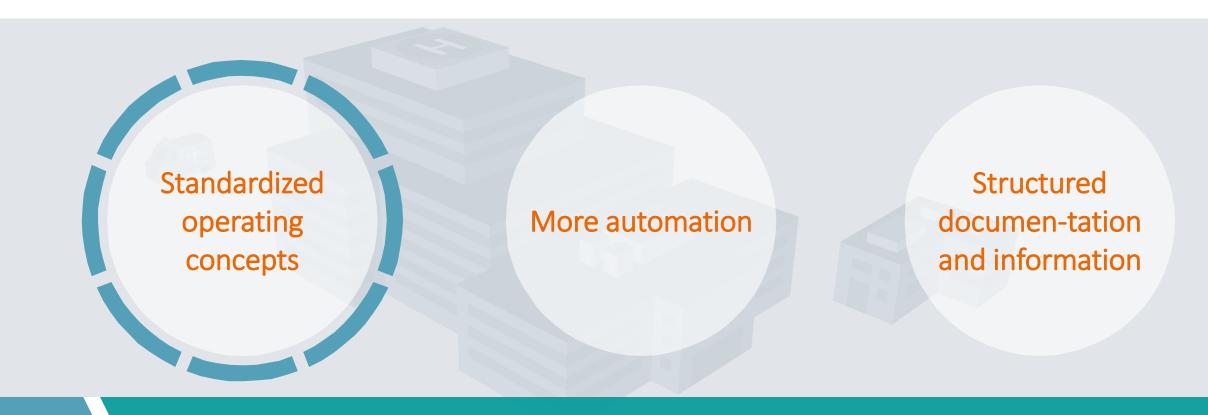


How could MedTech support you to standardize the quality of care in your institution?





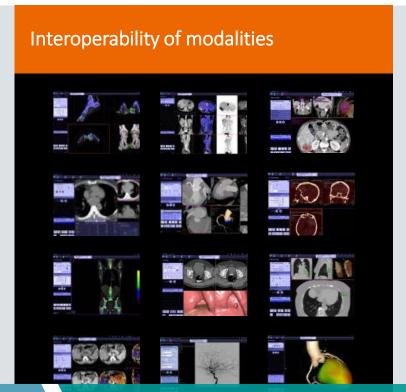
Important Offerings (I)...



...to standardize the quality of care throughout your institution.

Fostering progress towards a value-based care environment with interoperability of technology





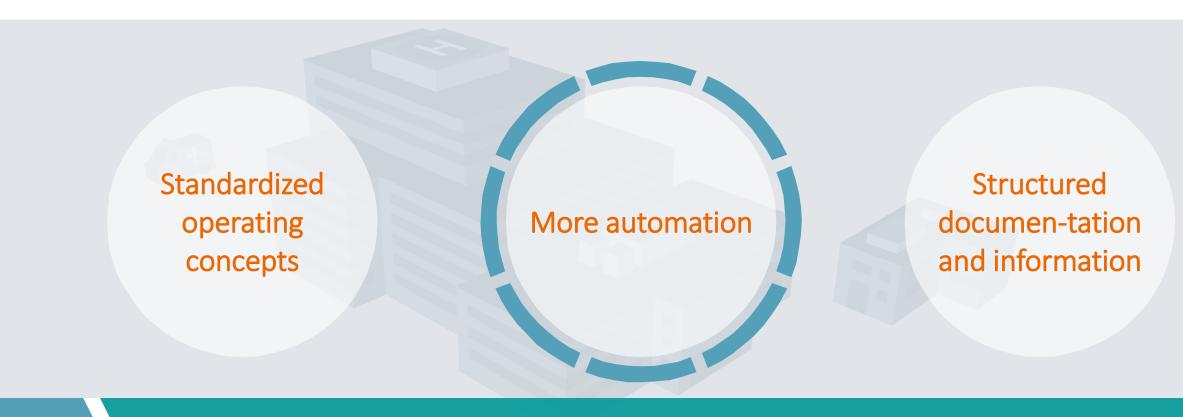




Integrated usability across all technological assets



Siemens offers (II)...



...to standardize the quality of care institution.

throughout your

Automation of manual tasks as part of a strategy for quality and performance improvement



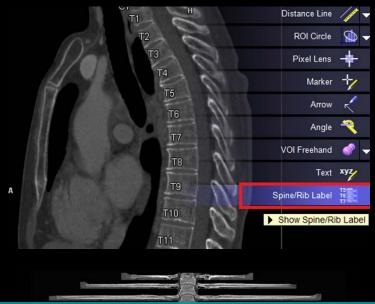
Automated diagnostic scan settings and pre-configuration



Automated updates and pre-fetching of previous exams



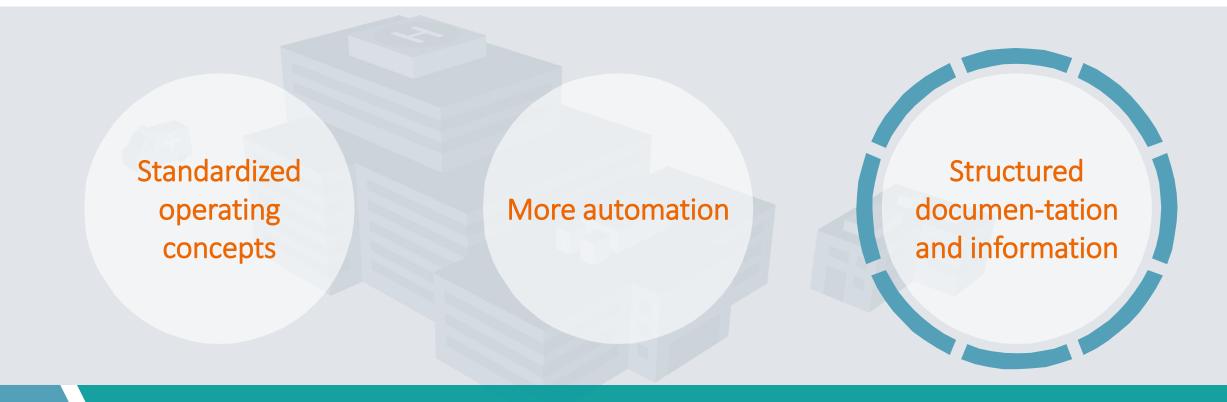
Applications for automated post-processing



Improved quality and consistency through automation



Siemens offers (III)...



...to standardize the quality of care institution.

throughout your

Monitoring and maintaining individual health care with structured patient information and reports



Structured reporting of advanced diagnostic findings



Access to diagnostic information on the go



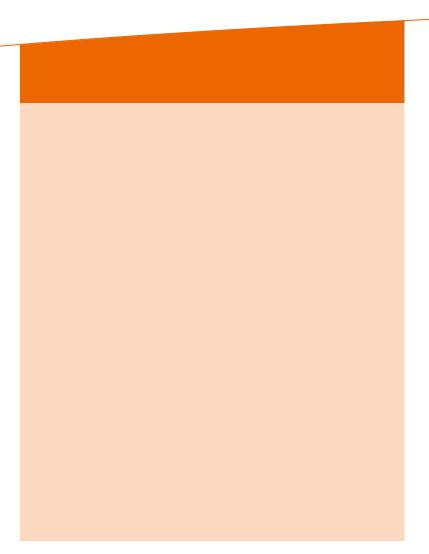
Centralized data and structured reporting for cardiovascular imaging information



Capturing the potential of big data through structure

How can immediate Support of MedTech can look like? A few examples...





What if you could reduce 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



Speed up treatment



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 14.4 mio €

Savings in chronic care costs

Door-to-needle time

in 2007

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







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%

< 0.2%

+ 57%

OR time

Complication rate

Increased number of patients in the period from 2012 to 2014

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 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 for NHS Tayside

Challenge



Process Efficiency

Integrate three labs into one



Free scarce laboratory staff from menial tasks



Funding climate is becoming more restrictive

Healthcare engineering

- Consolidation of formerly separated testing onto a single automation track
- 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%

61%

Workload per day

Staff increase

Improved turnaround time for add-on tests

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 drastically reduce system downtime?







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



Reduce downtime of medical equipment



Avoid loss of patient trust



Patient Outcome

Provide optimized time-totreatment 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

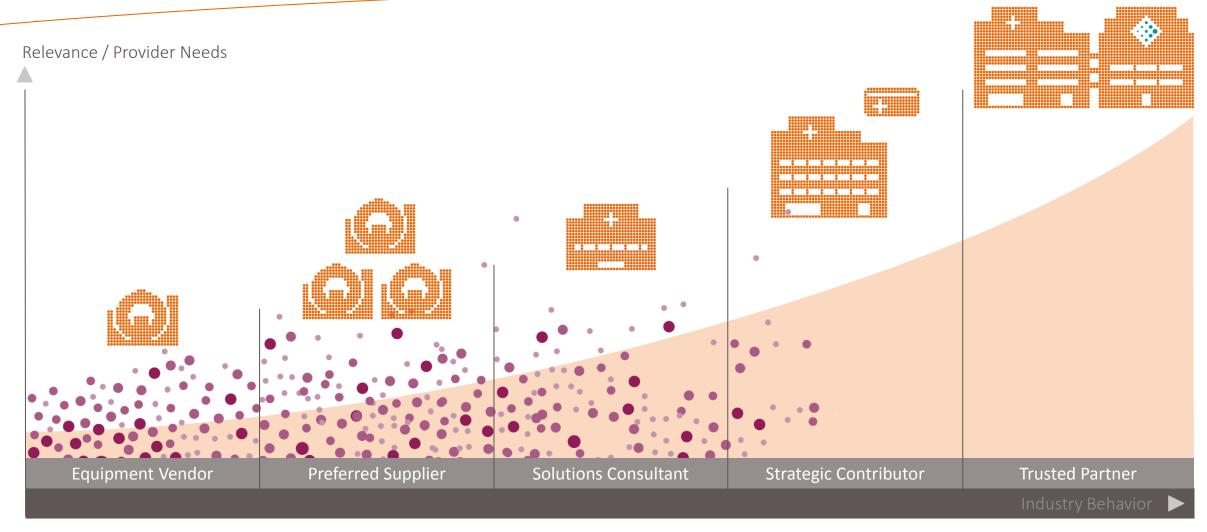
24/7

Web interface

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.

We understand that our customers expect us to evolve from a simple product vendor to a trusted partner









the future of healthcare

together

Engineering success. Pioneering healthcare.

