

A photograph of a modern hospital hallway. In the center, a male doctor in a white lab coat and blue scrubs walks towards the right, talking to a blonde businesswoman in a dark suit who is also walking right and carrying a folder. To the left, a pregnant couple sits on a bench, smiling at each other. In the background, other healthcare workers in blue scrubs are walking. The hallway has large windows and a clean, bright atmosphere.

PHILIPS

Consulting services

Making healthcare transformation real

Collaborating to solve multi-dimensional challenges across the care continuum

Optimise for today and innovate for the future

Moving forward with confidence

Healthcare organisations face a rapidly evolving world. The ongoing realities of resource constraints, aging populations, and increased consumer engagement have been complicated by the extraordinary demands of a global pandemic. Carefully planned improvement strategies now strain to compete with the immediacies of a healthcare crisis.

The importance of flexibility and resilience was understood prior to the pandemic, but is now reaffirmed. As an example, hospitals find they must handle inpatient volumes that shift dramatically from COVID-19 care to traditional care and back again. The pandemic has also fast-tracked the adoption of virtual care and the need for rapid acceleration of digital transformation.

It is apparent healthcare is having to adopt new and different approaches to care delivery both in- and out-of-hospital. For example, increasingly in-hospital care will focus on high intensity care, while elective diagnostics and low-acuity treatments are moving out-of-hospital. Philips is working at the forefront of such changes in both settings – delivering transformational Managed Services in hospitals and establishing partnerships for delivering Community Diagnostic (and Treatment) Centres out-of-hospital. We collaborate closely with you as you undergo significant transformation - addressing today's concerns, while innovating for the future.

Managing the now

Balancing quality, costs, access, delivery and outcomes

Improve

Performance, productivity, quality, reliability, costs

Optimise

Patient flow, capacity, utilisation, workflow, resources, schedules, care co-ordination

Enhance

Patient and staff experience, care environments, physical space, technology and information

Innovate

Future care models; new care paradigms; advanced technology, informatics, analytics, solutions and innovation

Continuous improvement, sustainable transformation, cocreated innovation

Defining solutions to complex issues

Our consulting services focus on several areas within the healthcare ecosystem. We leverage our knowledge and skills to address areas of improvement that are important for you. We tailor our offerings to suit your specific needs and situation, applying our expertise where it's needed.



We take a collaborative approach to enable meaningful transformation. Our consultants work closely with you to streamline workflows, improve utilisation of resources, advise on technology strategy and integration, and create an exceptional experience for patients and staff.

Benefits of collaboration

- Enhance the quality of care delivery focused on improving value and experience
- Streamline clinical and operational processes to increase efficiency and reduce costs
- Enable fact-based recommendations for change with data analytics and modeling tools
- Identify insights and improvement opportunities across the patient journey
- Garner strong support of change initiatives for sustainable results

Achieving operational and clinical transformation



Our consultants bring healthcare expertise and technology know-how to create and implement performance improvement programmes. Combining clinical pathway redesign, patient flow/process optimisation, and operational excellence and analytics, the Philips team helps you realise your goals for better health outcomes and lower cost of care.

"We wanted to do more with our established structures and existing staff – and this project matched this perfectly. We have achieved an outstanding increase in our efficiency, with satisfied employees who feel appreciated and valued."

Pia Koch, Commercial Manager,
UKE Hamburg Eppendorf, Germany



Performance improvement

Improve operational efficiency, clinical flows, patient throughput and experience across the health continuum



Demand and capacity planning

Simulate the impact of predicted patient volumes on necessary resources and model scenarios for a solution roadmap



Clinical pathways

Facilitate best practice pathways complemented with analysis of methods to reduce unnecessary variation

Creating exceptional care experience through design



It is critical to create an optimal experience for patient and staff when you are planning to build a new hospital, future medical service center, or renovate a department. By integrating design thinking, data analytics, medical technology planning, service experience design, and healthcare facility design expertise, our team can help you create exceptional care experiences that are ready for the future.

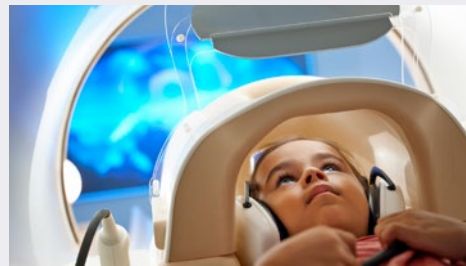
"In a short amount of time, the Philips team managed to identify key bottlenecks in a structured way and translated these, together with our clinical team, in a comprehensive redesign master plan for our future emergency department and day clinic."

Julien Heider, Directeur des Operations (COO),
L'Hopital de La Tour, Switzerland



Service experience design

Optimise the patient journey and service experience through care pathway (re)design to support personalised, value-based care



Ambient Experience solutions

Create innovative, efficient, and calming environments for an enhanced patient experience and improved staff satisfaction



Facility design

Employ an integrated medical technology and facility (re)design approach to meet and future-proof patient, staff and facility needs

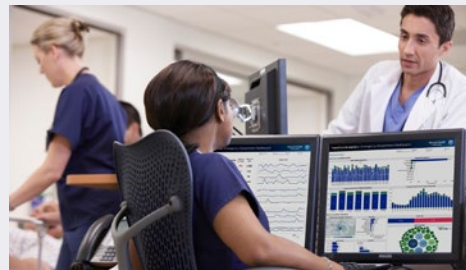
Leading with digital transformation and analytics



We guide digital enablement and data strategies – integrating new technology and industry trends, while effectively managing patient and system data to drive healthcare innovation. Analytics consultants provide data-driven insights and performance dashboards to support confident decision-making and sustainable performance improvement.

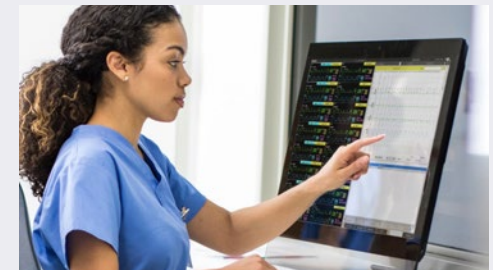
“The Philips team uncovered all the data needed to improve my department and constantly adapted with us during the implementation phase.”

Dr. F. Roodhevel, ED Chairman
Flevoziekenhuis, the Netherlands



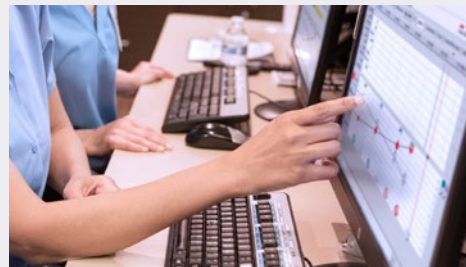
Performance analytics

Leverage data, benchmarking, best practices, and visualisation tools to provide actionable insights for meaningful change



Digital transformation

Provide global thought leadership and expert guidance to harness data and digital technologies



Healthcare modeling and simulation

Develop actionable operational insights by defining KPIs and testing plausible scenarios for viability, ROI, and workflow efficiency



Enterprise care collaboration

Utilise real-time decision support tools to improve care experience, efficiency, and outcomes across the care continuum



Why we are distinctively different

As a global health technology leader and innovator, we know that achieving progress requires collaboration. Experienced Philips consultants work together with your leadership and staff to collectively create tailored, targeted improvement strategies for lasting change.

We combine integrated clinical, operational, and technological expertise with design thinking to ensure better experiences, better outcomes, and more sustainable health systems. We leverage our innovative and successful methodologies to help you truly transform the healthcare experience and your care delivery model.

People-centered

We care deeply about patients, families, and staff. In every engagement we take a people-centered approach, drawing on skills such as experience flow mapping to define the patient journey and make healthcare easier and less stressful for all.

Expert-led

Our consultants have deep clinical, operational, management, and technology expertise. As a company we bring a longstanding history of healthcare knowledge and excellence to every engagement including cocreation workshops that involve you and your staff.

Data-driven

We provide online analytics-based dashboards and simulation tools to leverage the power of your data. Insights gained through critical analysis of clinical, operational, technological, and experiential aspects of care help you be more efficient and productive.

Future-ready

Drawing upon our leadership in research and development, we help transform your organisation today, with tomorrow in mind. Our services are ready for a future that our next-generation technologies are helping to shape and enable.



Our collaborative approach

Co-creating for effective results

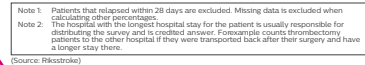
By involving your staff in every stage of the project, they play an active role in shaping the transformation. Interdisciplinary teams are crucial, as the design thinking methodology we use is based on embracing different perspectives.

Cocreate sessions bring people together from various departments, professions, and hierarchy levels so that they can be creative together in a safe space. The more diverse the teams, the greater the potential for innovative ideas.

Experience flow mapping

A unique structured methodology that provides an insights-based view of the patient journey integrated with clinical processes and is visually represented as an experience flow map. It provides a helicopter view of the entire flow and often uncovers challenges that may not have been identified in the stakeholder input phase. The resulting flow visualisation clearly demonstrates areas of concern and helps to identify improvement opportunities across environments.

Family & Patient Journey & clinical processes



"Patient acceptance of the thrombectomy decision is easier when we communicate with confidence that we know this is the right thing to do." - Stroke neurologist

9

Health systems we've helped transform

Decades of dedication to healthcare product and process innovation means that choosing Philips as a consulting partner ensures a team attuned to the realities of this complex industry – a partner with extensive healthcare technology and clinical knowledge, ready to push the limits and secure your success. We've assisted clients through more than 600 engagements across 17 countries, proving that our expertise can help you transform to reach your potential.

Wye Valley NHS Trust, United Kingdom

Universitätsklinikum Hamburg-Eppendorf (UKE), Germany

Heart Hospital, Tampere University Hospital (TaUH), Finland

Rochester Regional Health, USA

Reinier de Graaf Hospital, the Netherlands

Herlev Genofte University Hospital, Denmark

Noah's Ark Children's Hospital, United Kingdom

Beverly Hospital, USA

Wye Valley NHS Trust, United Kingdom

Challenge

Help Wye Valley NHS Trust improve the quality and productivity of its imaging services by making better use of its capacity and staff resources to meet the rising demand and NHS turnaround times.

Solution

Development and delivery of foundation level training for the entire imaging department, covering quality improvement. Additionally, delivery of a focused improvement project to the MR group in the form of six learn-do training cycles.

“Since the training, staff are starting to see things from a different perspective and think in a new way. We are changing people’s mindset and I have high hopes for what we can achieve together.”

Robert Griffiths, Radiology Services Manager
Wye Valley NHS Trust



up to **10%**

expected increase in
imaging productivity
per year

**Foundation
level training**

for imaging staff

6

learn-do training
cycles for the
MR group

Domain: Radiology

Project: Education, performance and process improvement

* Results from case studies are not predictive of results in other cases. Results in other cases may vary.

Universitätsklinikum Hamburg-Eppendorf (UKE), Germany

Challenge

Help UKE optimise their OR performance with existing resources and improve staff satisfaction.

Solution

Detailed data analysis, interviews with stakeholders and process observations captured in an OR process flow map. In a co-creation workshop help identify solutions for areas for improvement and provide support with project coordination, moderation and standardised structures during the implementation phase.

"We wanted to do more with our established structures and existing staff – and this project matched this perfectly. We have achieved an outstanding increase in our efficiency, with satisfied employees who feel appreciated and valued. And, the communication and collaboration between our teams has improved as well. Great!".

Pia Koch, Commercial Manager
UKE Hamburg-Eppendorf



77%
reduced downtime
in the central OR

1400
more
surgeries

Blueprint
for future
transformation
projects

**Improved
staff
satisfaction**

Domain: Operating room (OR)

Project: Performance improvement

* Results from case studies are not predictive of results in other cases. Results in other cases may vary.

Heart Hospital, Tampere University Hospital (TaUH), Finland

Challenge

Identify areas of improvement in work processes and premises usage for the cardiac catheterisation labs and heart surgery department of Heart Hospital TaUH.

Solution

Assessment of processes by using careflow mapping for the cardiac catheterisation labs and heart surgery department to identify and guide improvements to enhance patient experience, promote staff well-being and improve operations.

"The Philips consultants were very thorough in their review and assessment of our processes and experiences. From comprehensive analyses came a targeted list of improvement opportunities we feel certain will reinforce our commitment to exceptional patient care and sustain us as we move forward."

Aki Haukilahti, CFO
Heart Hospital TaUH



Streamline workflow

by creating interfaces for **strong integration of IT systems**

Increased utilisation

of cath labs and heart surgery rooms

Expand the role of nursing

allowing physicians to **focus on core activities**

Domain: Cardiology

Project: Cardiac careflow optimisation

* Results from case studies are not predictive of results in other cases. Results in other cases may vary.

Rochester Regional Health, USA

Challenge

Provide data-based recommendations to help optimise operations and prepare for service expansion at Rochester General Hospital.

Solution

Complete a comprehensive assessment including deep data analysis, staff interviews and onsite observations, root cause analysis, market trends, impact of technology, and prioritised change recommendations.

"Philips provided a comprehensive performance improvement assessment and roadmap that has enabled Rochester General to implement best practices."

Amy Craib

Vice President of Operations, Rochester Regional Health



Increased

first case on-time starts

Improved

pre-procedure workflow

Custom

analytics dashboard

Domain: (Interventional) radiology

Project: Workflow improvement and analytics dashboard implementation

* Results from case studies are not predictive of results in other cases. Results in other cases may vary.



Reinier de Graaf Hospital, the Netherlands

Challenge

How can throughput be improved so the cardiology department at Reinier de Graaf Hospital no longer has to freeze admissions to their Chest Pain Center (CPC)?

Solution

Detailed root-cause analysis based on data to identify key issues. Throughput improvement ideas were considered together with staff. Simulations were used to decide which initiatives had the most improvement potential, and these were implemented.

"I am not such a fan of consultants. It's an investment and doesn't always produce results. But this team had great communication skills and helped us make the right choices. This is the first time I really have the impression that an improvement project will bring lasting results."

Jolanda Versteegen, Interim Business Manager Cardiology
Reinier de Graaf Hospital



1 hour

on average patients go
home an hour earlier

9%

decreased CPC intake, by set up
of emergency outpatient clinic¹

57%

decrease in CPC
admission freezes²

Domain: Cardiology

Project: Throughput improvement

¹ During office hours

² From January to September 2018. Several factors contributed to this reduction, including the initiatives described in this article. It is not possible to determine the percentage that each initiative contributed.

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Herlev Genofte University Hospital, Denmark

Challenge

Help improve patient satisfaction and help differentiate the healthcare services at Herlev Genofte University Hospital.

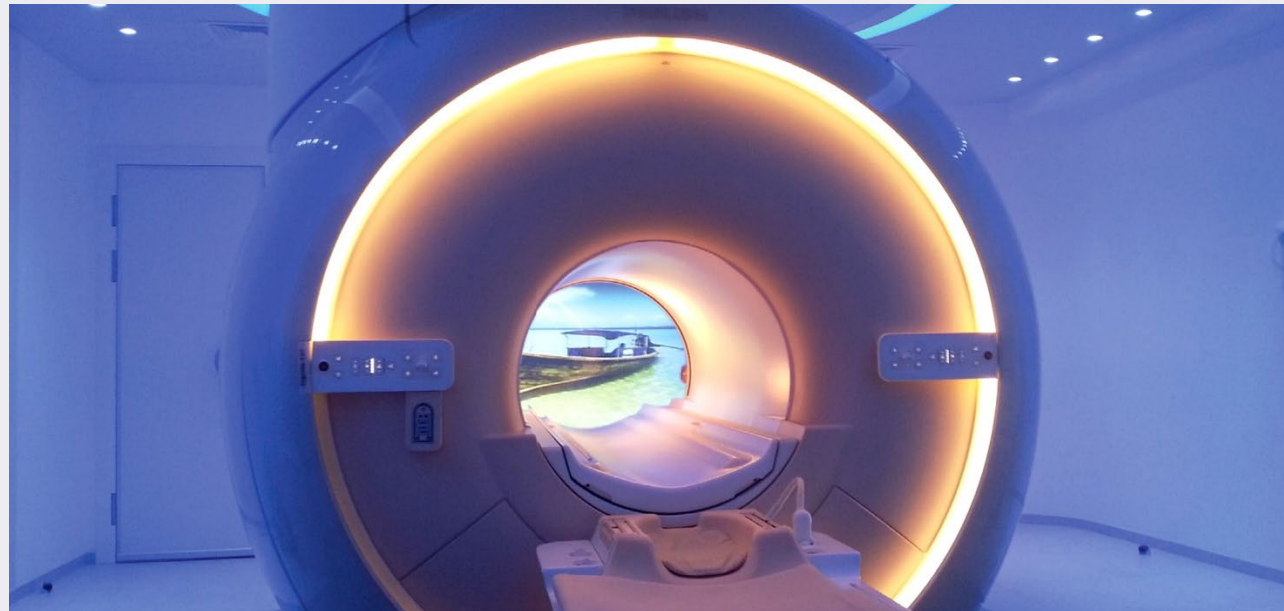
Solution

The In-bore Connect was added to the Ingenia 3.0T MRI system with Ambient Experience, providing information and guidance to the patient during scanning. Leading to improved patient experience and patient satisfaction.

“Our data demonstrate a significantly reduced number of interrupted scans (rescans) in the scanner room where the Patient In-bore Solution is installed – which directly contributes to a more predictable throughput.”

Jeanette Brus Mortensen,

Department Radiographer & Leader for the MRI Department,
Herlev Genofte University Hospital



70%
reduction in number of rescans*

90%
better patient comfort level

Domain: Radiology

Project: Ambient Experience MR Patient In-bore Solution

* Results from case studies are not predictive of results in other cases. Results in other cases may vary.

Noah's Ark Children's Hospital, United Kingdom

Challenge

Children's charity LATCH, and Noah's Ark Children's Hospital wanted to enhance the experience of children with cancer.

Solution

After reviewing ongoing plans, consulting staff and patients on deeper needs, the Philips team created a child-friendly radiology department improving patient satisfaction with environment design.

"We've achieved something fantastic here. It is better than we anticipated and more effective than we anticipated. Children are more cooperative and we get the scans we need."

Dr. Susan Morris, Pediatric Radiologist
Noah's Ark Children's Hospital



78
Net Promoter Score

85%
of parents say that their
child was **less stressed in**
the new department

89%
of parents rate the
department as **better**
regarding child friendliness

Domain: Pediatric radiology

Project: Ambient Experience department design

* Results from case studies are not predictive of results in other cases. Results in other cases may vary.

Beverly Hospital, USA

Challenge

Help improve operational efficiency in the emergency department at Beverly Hospital with analytics consulting, and tools.

Solution

Detailed data insights, create custom analytics dashboards for insight in daily operational performance, and change implementation support. These custom analytics dashboards were created:

- **Physician and nursing dashboards** to track volume, throughput times, and acuity level
- **Outlier dashboard** to track patients experiencing extended throughput times

“Philips worked with our leadership, staff, and IT teams to create a performance dashboard, customised for our needs. The daily updates provide a quick look at our performance without each team running multiple reports and the teams can dig into to their department data as needed.”

Kimberly Perryman, MMHC, RN, VP, Patient Care & CNO
Beverly Hospital, part of Beth Israel Lahey Health



31%

reduction in time between
bed request and inpatient
bed assignment

Improved staff alignment

avoiding a \$1.3M
operational expenditure

Reduced time spent on

collecting,
analysing and sharing
performance metrics

Domain: Emergency care

Project: Performance analytics and dashboards

* Results from case studies are not predictive of results in other cases. Results in other cases may vary.

Global presence, local expertise

The Philips consulting team consists of global network of experienced consultants with clinical proficiency and a broad knowledge of healthcare technology and health systems. Our UK & Ireland consultants are versed in the strategic and operational challenges that healthcare organisations face in the local market and can provide relevant expertise to support transformational goals.



240 clients
through
more
than **600**
17 engagements across
countries

We look forward to **partnering** with you to make healthcare transformation real

Learn more

Through collaborative and people-focused engagements, Philips can help develop and deliver innovative solutions to solve your most complex challenges of care, both in- and out-of-hospital. By delivering transformational Managed Services in hospitals and establishing partnerships for delivering out-of-hospital Community Diagnostic (and Treatment) Centres, we can help you achieve meaningful and sustainable improvements so you can provide the best care to your patients.

For more information, please visit
www.philips.com/healthcareconsulting

