

We pioneer breakthroughs in healthcare.

For everyone. Everywhere. Sustainably.

NovaSBE

Carlos Parente
March 13, 2025



**We pioneer
breakthroughs
in healthcare.**

For everyone.
Everywhere.
Sustainably.



About Siemens Healthineers

SIEMENS
Healthineers



Our long story of success



Röntgen



Von Behring

1901 Nobel prize winners (Physics and Medicine)

1896
First industrially manufactured medical X-ray unit

1909
The fastest X-ray device of its time

1933
Our first rotating anode X-ray tube

1953
First device for echocardiography

1956
First ever dry chemistry testing for glucose in urine

1957
First fully automated discrete chemistry analyzer for whole blood or serum

1958
First nuclear medicine scanner from Siemens

1964
First glass electrode for blood gas analysis

1967
World's first real-time ultrasound scanner

1975
Our first CT scanner

1983
First Siemens MRI scanner

1990
World's first spiral CT scanner

1991
First point-of-care HbA1c analyzer

1998
Our first track-based laboratory automation system

1999
First intuitive medical IT platform from Siemens

2001
Our first PET/CT system

2005
World's first Dual Source CT scanner

2008
Robotic-assisted angiography system

2009
Multi-modality 3D imaging software

2011
First integrated, simultaneous whole-body MRI and PET

2012
Wireless transducers for ultrasound

2014
"Free breathing" CT scanning with dual X-ray sources and detectors

2015
Cloud-based network: teampay

2015
Wide-angle image Acquisition breast tomosynthesis

2015
The first research 7T MRI: MAGNETOM 7T

2016
First Twin Robotic X-ray for better patient care and productivity

2016
Liquid biopsy

2016
Cinematic rendering for 3D medical imaging

2017
Lab diagnostics solution for immunoassay & clinical chemistry: Atellica® Solution

2017
A whole new world of precision: Biograph Vision

2017
MRI technology adapting to human nature: BioMatrix

2017
FAST 3D Camera – automated precise patient positioning

2017
Blood gas testing available at the patient's side

2018
More than 40 AI-enriched offerings

2018
AI-Rad Companion Chest CT to mark and measure potential abnormalities

2018
Software for remote scanning assistance: syngo.Virtual Cockpit¹

2018
Innovation: Planned to refine the MRI experience²

2018
epoc system: first handheld blood gas analyzer powered by Android

2019
AI-enabled user guidance system: myExam Companion

2018
MR Fingerprinting³: Leverage quantitative data to understand more precisely a patient's condition

2018
ARTIS icono enables a wide procedure mix and multi-disciplinary usage

2019
Multi-modality imaging decision support with AI: Rad Companion⁴

2019
AIDAN Artificial Intelligence for Molecular Imaging

2020
Breaking barriers to expand the reach of MRI: MAGNETOM Free.Max

2020
Syngo Carbon⁵: New software environment for enterprise imaging and reporting

2020
In-vitro diagnostic assays^{6,7} for SARS-CoV-2 detection

2020
Biograph Vision Quadra™ 106 cm axial PET field of view for simultaneous whole-body imaging

2021
NAEOTOM Alpha⁸: The world's first photon-counting CT

2021
8-minute fingerstick test for high-sensitivity troponin I⁹

2021
Addition of an integrated portfolio for fighting cancer through joining forces with Varian

2021
Partners in cancer care: Value Partnerships | Oncology

2021
Disruptively simple approach to MRI: MAGNETOM Free.Star

2022
MAGNETOM Cima.X & MAGNETOM Terra.X

2022
MAGNETOM Viato.Mobile

2022
Halcyon[®] and Ethos[™] radiotherapy system featuring HyperSight[™] imaging solution

2023
Self-driving mobile 3D C-arm: CIARTIC Move

2023
SOMATOM Pro.Pulse: Unlock Dual Source technology. Everywhere.

2023
ARIA CORE oncology management solution

2024
The NAEOTOM[®] Alpha class, three photon-counting CT systems for many clinical scenarios⁹

2024
SOMATOM On site bringing critical care imaging to patients

2024
IntelliBlate RapidArc Dynamic

2024
MAMMOMAT B.brilliant Because women deserve fewer maybes

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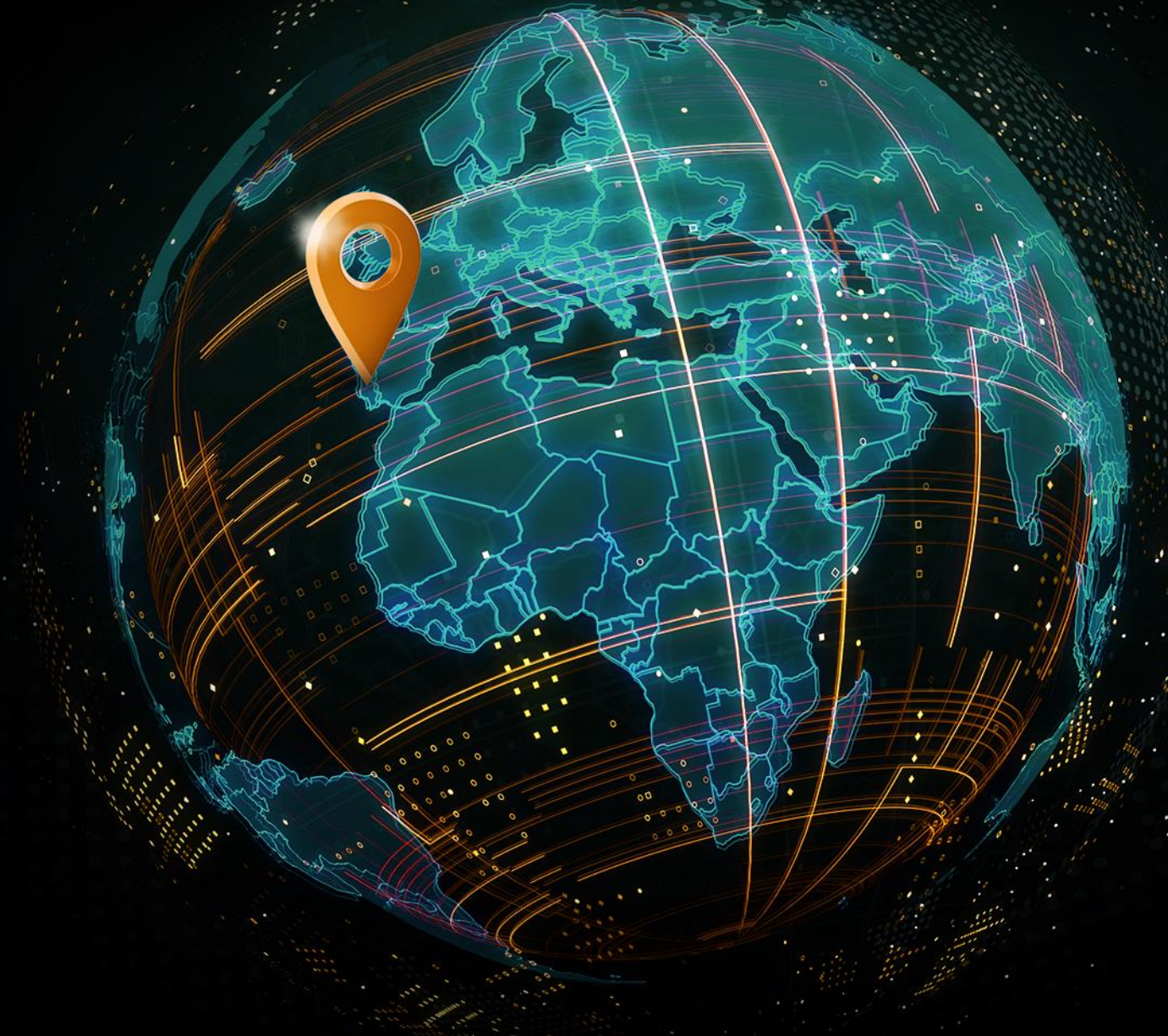
Innovating personalized care

Achieving operational excellence

Transforming the system of care

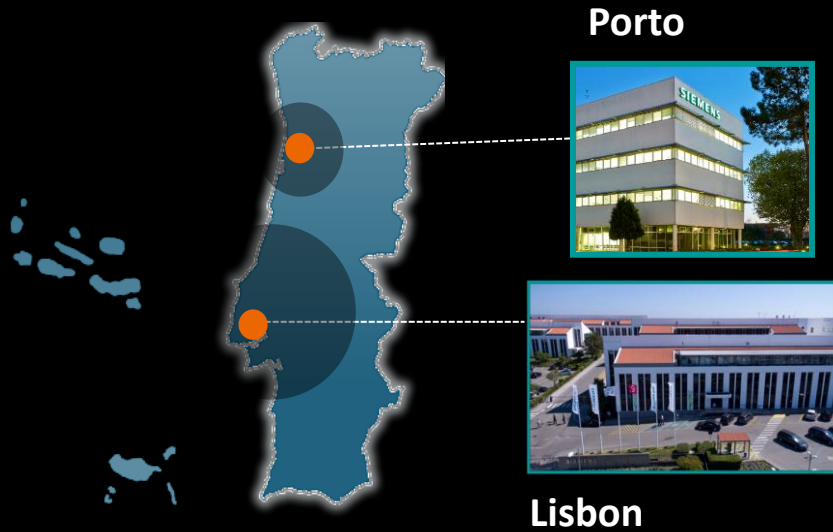
Future

The products/features (mentioned herein) are not commercially available in all countries. Due to regulatory requirements, their future availability cannot be guaranteed. Please contact your local Siemens Healthineers organization for further details. | 1 syngo.Virtual Cockpit is not commercially available in all countries. Due to regulatory reasons its future availability cannot be guaranteed. Precondition: Expert-i enabled modality from Siemens Healthineers. | 2 Innovation is still under development and not commercially available yet. It is not for sale in the U.S. Its future availability cannot be ensured. | 3 The product / feature is not for sale in the U.S. Its future availability cannot be guaranteed. | 4 Several devices of AI-Rad Companion are planned and under development, not commercially available in all countries, and their future availability cannot be ensured. | 5 Syngo Carbon consists of several products which are (medical) devices in their own right. Some products are under development and not commercially available. Future availability cannot be ensured. | 6 These SARS-CoV-2 molecular and serology tests have not been FDA cleared or approved. These tests have been authorized by FDA under an EUA for use by authorized laboratories. The molecular test has been authorized only for the detection of nucleic acid from SARS-CoV-2, not for any other viruses or pathogens. The serology test has been authorized only for detecting the presence of antibodies against SARS-CoV-2, not for any other viruses or pathogens. These tests are only authorized for the duration of the declaration that circumstances exist justifying the authorization of emergency use of in vitro diagnostics for detection and/or diagnosis of COVID-19 under Section 564(b)(1) of the Act, 21 U.S.C. § 360bbb-3(b)(1), unless the authorization is terminated or revoked sooner. | 7 The Siemens Healthineers lab and POC antigen assays are not available for sale in the U.S. Product availability may vary by country and is subject to regulatory requirements. | 8 The product / feature is not for sale in the U.S. Its future availability cannot be guaranteed. | 9 NAEOTOM Alpha.Prime, NAEOTOM Alpha.Pro and NAEOTOM Alpha.Peak are pending 510(k) clearance and are not yet commercially available in the United States and other regions.



PORTUGAL





Gender distribution:



Average Age:

39 years

1946 - 1964 1965 - 1980 1981 - 1995 1996 - 2011

Generation Z



22.5%

Millennials



45.7%

Generation X



30.1%

Baby Boomers



1.7%

405 Employees

20 Nationalities

- | | |
|----------------------------------|--------------------|
| Angola | Luxembourg |
| Brazil | Mexico |
| Cabo Verde | Moldova |
| Democratic Republic of the Congo | Nepal |
| Costa Rica | Netherlands |
| Czechia | Portugal |
| Finland | Russian Federation |
| Germany | Spain |
| Greece | Switzerland |
| India | |
| Ireland | |

Awards



2018



2019



2021



2021



2022



2022



2023

A continuous recognition that makes us proud



Siemens Healthineers Portugal

Top 10 Customers



LUZ SAÚDE



Unilabs



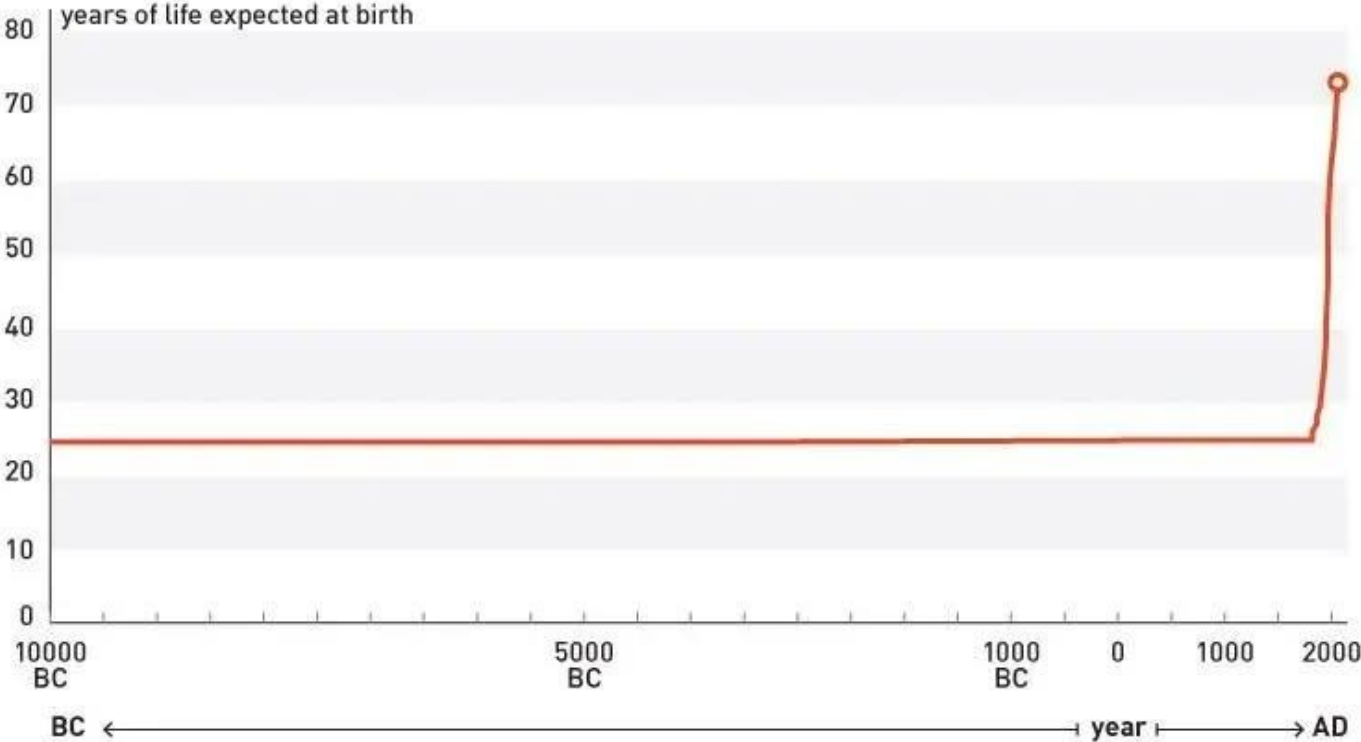
JOAQUIM
CHAVES
SAÚDE



JOSÉ DE MELLO · SAÚDE



GLOBAL LIFE EXPECTANCY (10,000 BC-TODAY)



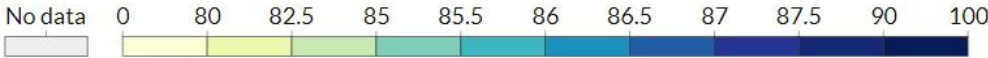
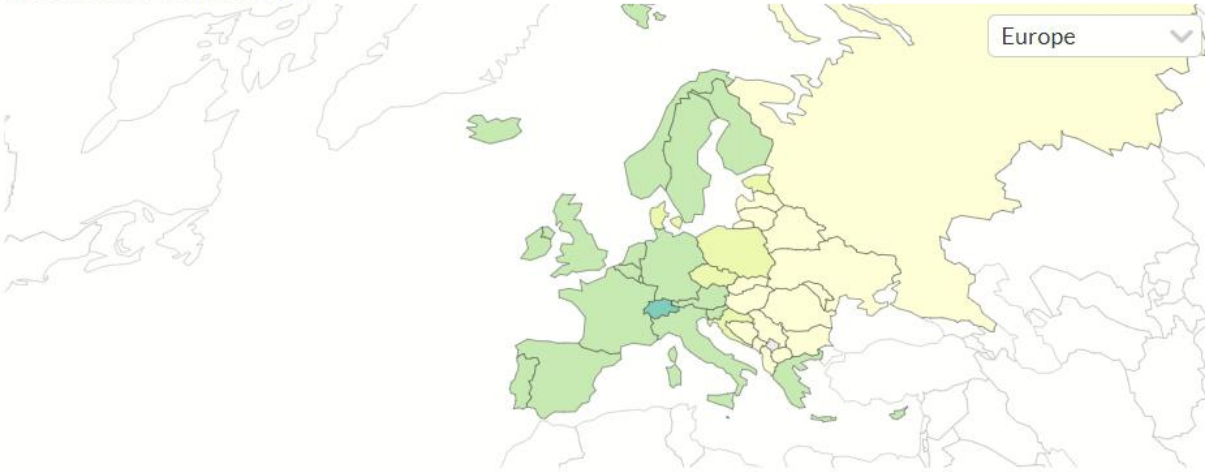
Source: Cato Institute, Our World in Data. Life expectancy is believed to have been 20-30 years prior to 1820. Age 25 is selected as an average.

Life expectancy was 20-30 years prior to 1820

Future life expectancy projections, 2029

Average life expectancy (at birth) projections based on the UN's medium fertility scenario, measured across both sexes.

Our World in Data



Source: United Nations Population Division (2019 Revision)

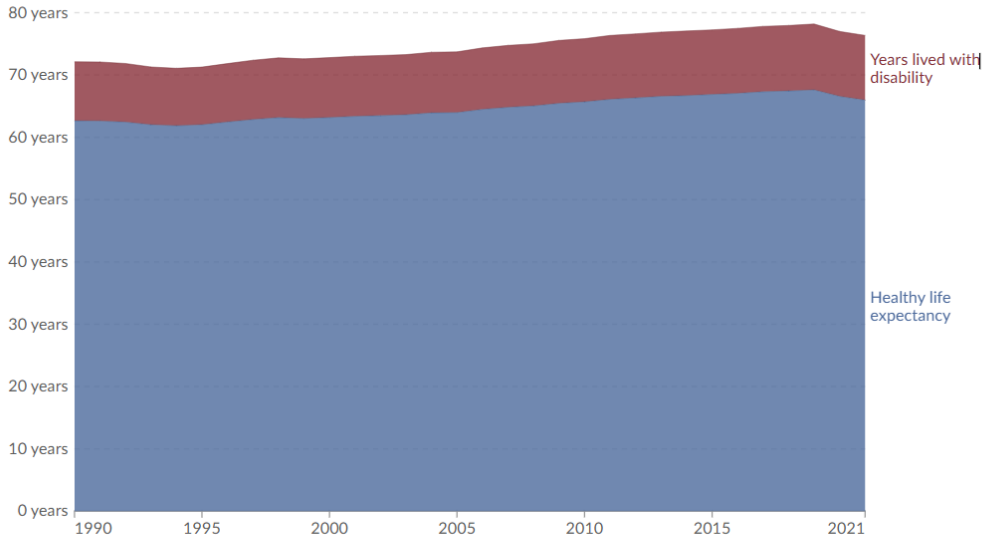
CC BY



Healthy life expectancy and years lived with disability or disease, European Region (WHO)

Our World in Data

The period life expectancy¹ at birth, broken down by the estimated number of years lived in "full health" versus years lived with disability or disease burden.

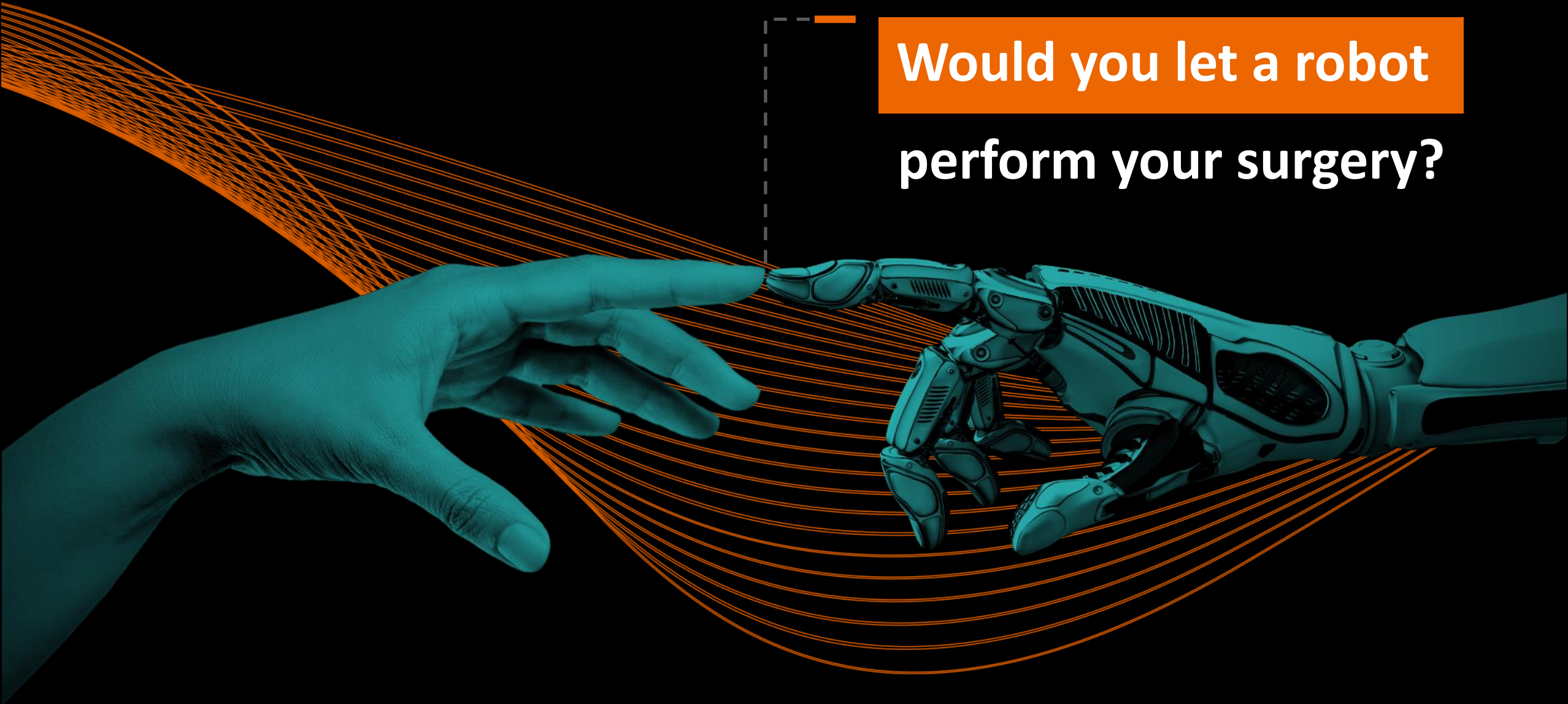


Data source: IHME, Global Burden of Disease (2024) | OurWorldinData.org/life-expectancy | CC BY

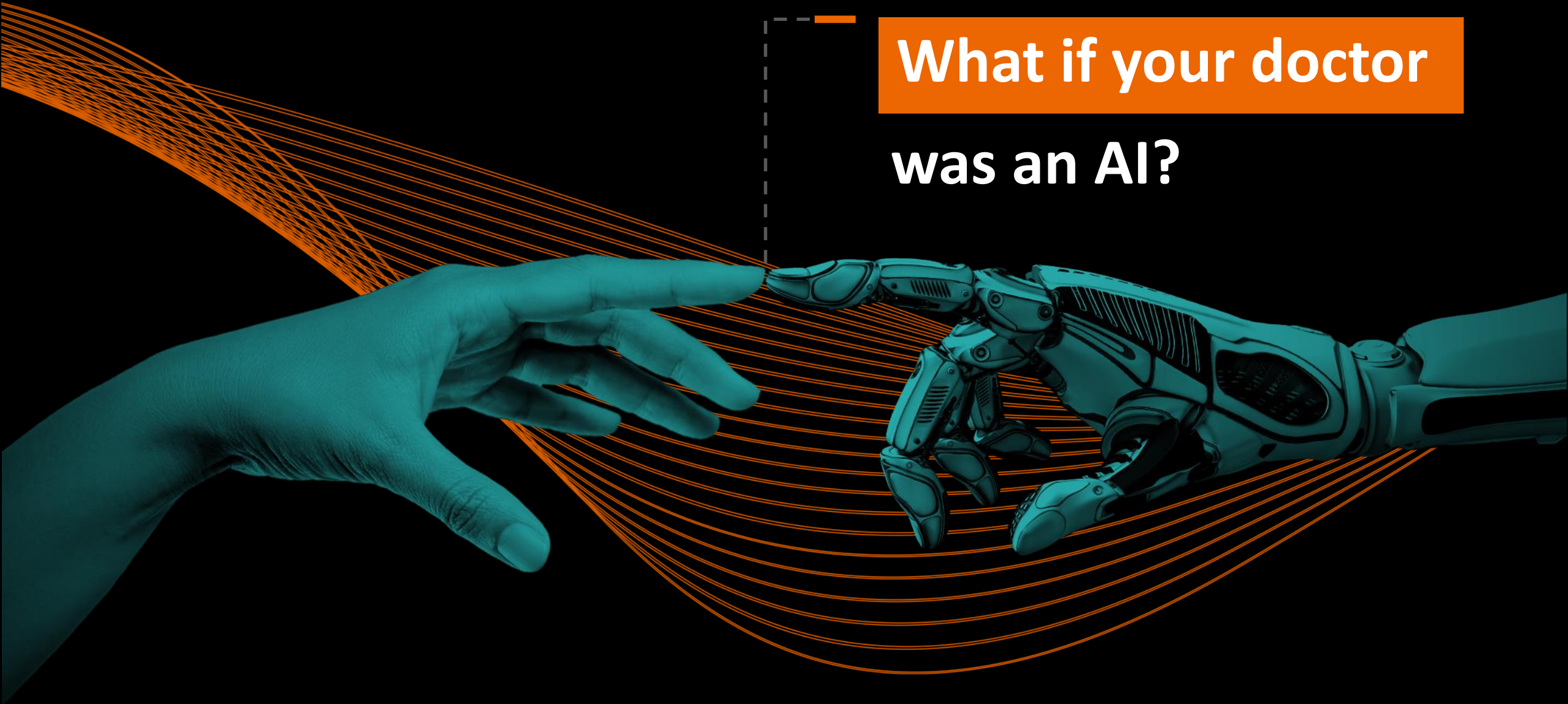
1. **Period life expectancy:** Period life expectancy is a metric that summarizes death rates across all age groups in one particular year. For a given year, it represents the average lifespan for a hypothetical group of people, if they experienced the same age-specific death rates throughout their whole lives as the age-specific death rates seen in that particular year. Learn more in our articles: "Life expectancy" - What does this actually mean? and Period versus cohort measures: what's the difference?

The future
of healthcare

Would you let a robot
perform your surgery?



What if your doctor was an AI?



Market leader in majority of businesses

>90% of leading hospitals collaborate with us⁴

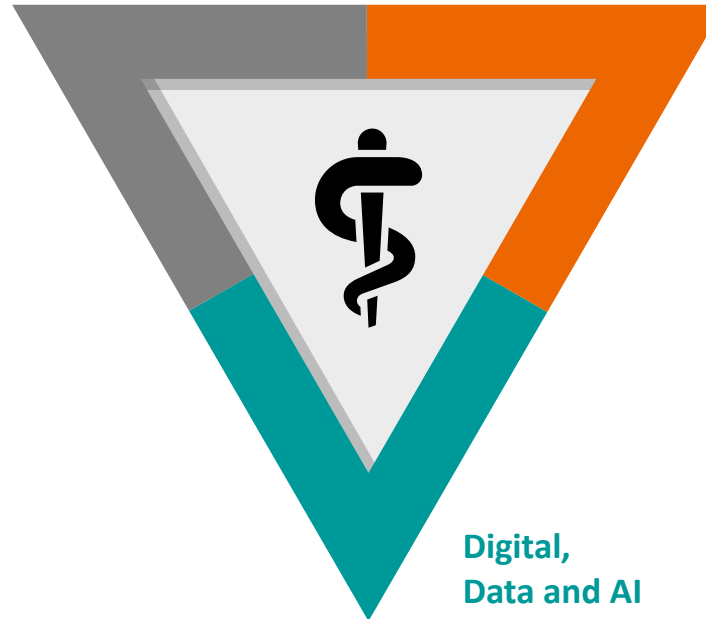
~73,000
highly skilled employees

>70
countries with direct presence

€22.36 bn
revenue FY2024¹

25,000 technical IPRs,
thereof 16,000 granted patents³

Patient
Twinning²



Precision
Therapy

Digital,
Data and AI

>100
AI-enabled products

2.6 bn
patient touchpoints worldwide⁵

>70% of critical clinical decisions are
influenced by the type of technology we provide⁶

>700,000
installed base

¹ Revenue FY2024 Siemens Healthineers | ² Patient Twinning is currently under development. It is not for sale. Its future availability cannot be guaranteed.

³ The reported figure from FY 2020 covers granted patents and registered utility models. As of FY 2021, only granted patents are reported.

⁴ Based on hospital rankings in the U.S., China, and Germany | ⁵ FY2024 Sustainability Report | ⁶ AdvaMedDX 'A Policy Primer on Diagnostics'

Our innovation commitment to improve patient touchpoints globally

Strong focus on research & development

9%
ratio of R&D expenses to revenue*

+€1.8 bn
R&D spending*

>13,000
R&D employees*

Established global ecosystem SHIFT for open innovation



Connecting **PEOPLE** inside and outside our company to drive innovation.



Offering **PLACES** to come together and make fast idea validation possible.



Providing **PLATFORMS**, communities and methodologies to enable innovators to make the most of their ideas.

Three interconnected key technology areas based on our capabilities



Sensing

- Imaging modalities
- In-vitro biomarkers
- Optical perception
- Vital sign sensors
- Wearables



Artificial Intelligence

- Data access and integration
- Data analysis and interpretation
- Decision making
- Smart robotic control



Robotics

- Lab assistance
- Robotic catheters
- Radiation beam application
- Patient handling devices
- Robotic imaging devices
- Smart actuators



Our unique capabilities Reflected in our broad and deep portfolio

Patient Twinning¹

Imaging

A market leader in diagnostic imaging with systems for

- Computed Tomography
- Magnetic Resonance
- Molecular Imaging
- Ultrasound
- X-Ray/Fluoroscopy
- Mammography Systems
- Digital Health Solutions
- Imaging Software and IT

Key clinical specialties

- Radiology
- Nuclear Medicine



Diagnostics

Accurate and timely test results plus, workflow excellence for lab and point-of-care settings

- Reagents, consumables and analytical instruments for testing
- Automation and IT systems
- Consulting and project management

Key clinical specialties

Laboratory, molecular, and point-of-care diagnostic tests for nearly every disease and every healthcare setting



Precision Therapy

Varian

Cancer treatment ecosystem for streamlined, comprehensive patient-centric care

- Radiosurgery
- Radiotherapy
- Proton Therapy
- Brachytherapy
- Adaptive Therapy
- Oncology Services
- Interventional Solutions
- Software
- Veterinary Oncology

Key clinical specialties

- Radiation Oncology
- Interventional Oncology
- Radiosurgery



Advanced Therapies

Empowering advanced therapy concepts

- Angio Suites
- Cath Labs
- Hybrid ORs
- Mobile C-arms
- Multi-modality imaging solutions

Key clinical specialties

- Interventional Radiology
- Cardiology
- Surgery



Digital, Data and AI

Customer Services

Digitally enabled and available in customizable service plans

- UpTime Services
- UpSkill Services
- UpSpeed Services
- UpLift Services

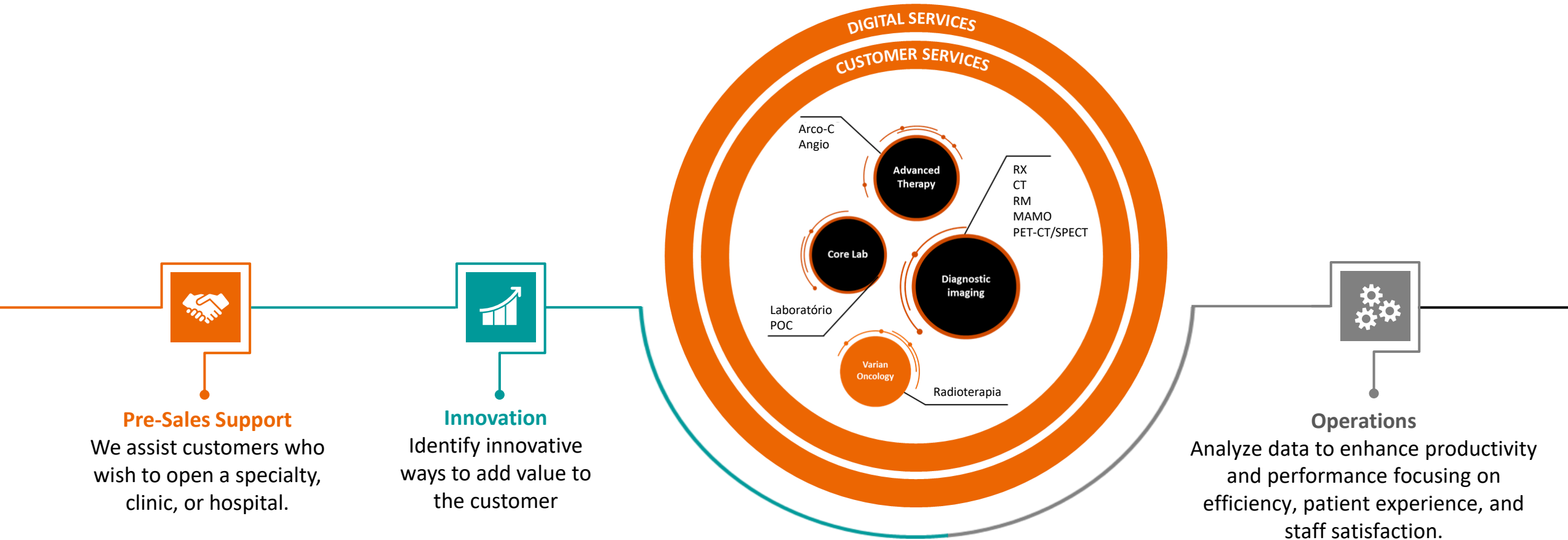
Value Partnerships

Long-term, performance-oriented, collaborative commitments, focusing on

- Technology
- Operations
- Workforce
- Facility
- Strategic Transformation
- Digital Innovation

Explore what a Value Partnership can do for your hospital

Where Siemens Healthineers adds value



Provide **integrated services** with the acquisition of medical equipment, ensuring a comprehensive and synergistic approach to meet the specific needs of each project.

Who is who?



Filter

Body Part

Head	Head	Thorax	Abdomen
Neck	Face	Arms	

Mobility

All	CT	MR	CR	AI
MC				

Date

Last 1 Week	Last 1 Month	Last 3 Months
Last 1 Year		

Department

General Practice	General Practice	General Practice
------------------	------------------	------------------

We believe ...

... personalization will dramatically improve patient outcomes
Diagnoses will be more nuanced. Treatments will be more precise.

... operational excellence will amplify professional impact
Care teams will be more empowered. Healthcare will be more sustainable.

... smart care systems will increase health equity and access for all
Care will be more localized. Patients will be better served.

Global market dynamics

Sustainability Consolidation

Patient centricity Consumerism

Staff shortage Population growth

Affordability **Managing Health**

Increasing cost pressure Shift towards virtual care

Digital, Data and AI Demographic shift

Partnership models **Focus on outcomes**

Limited access to care

Growing chronic disease burden

Global market dynamics

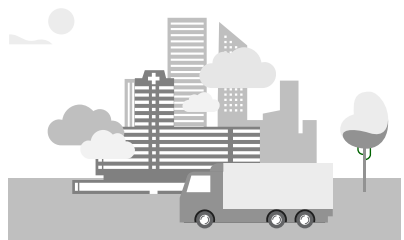
Climate change

Up to 5.5%

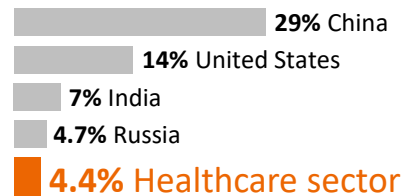
increased mortality risk
with every 1 °C rise in global temperature¹

The healthcare sector is one of the biggest contributors to climate change.

Healthcare sector **fifth-largest emitter** worldwide if it were a country²



Net CO₂ Emissions



Employer attractiveness



Two out of three job seekers are more willing to apply at environmentally friendly companies³

Legal requirements

The EU's Corporate Sustainability Reporting Directive is effective since January 2023.

It requires EU businesses to report on the environmental and social impact of their activities.

Consequence: Environmental protection initiatives are gaining importance in decision-making.

Global market dynamics

Staff shortage



The world is projected to be short of

10 million

healthcare workers by 2030¹



Growing world population

Staff retiring

Internal and international migration

Staff leaving for better paid jobs

Not enough young people enter profession/being adequately trained



Consequence: Sourcing, attracting, and retaining experienced employees are among the top challenges globally. From a healthcare provider perspective, there are two ways to address these topics: With concepts to increase labor efficiency and by improving the attractiveness as employers, e.g., through education programs.

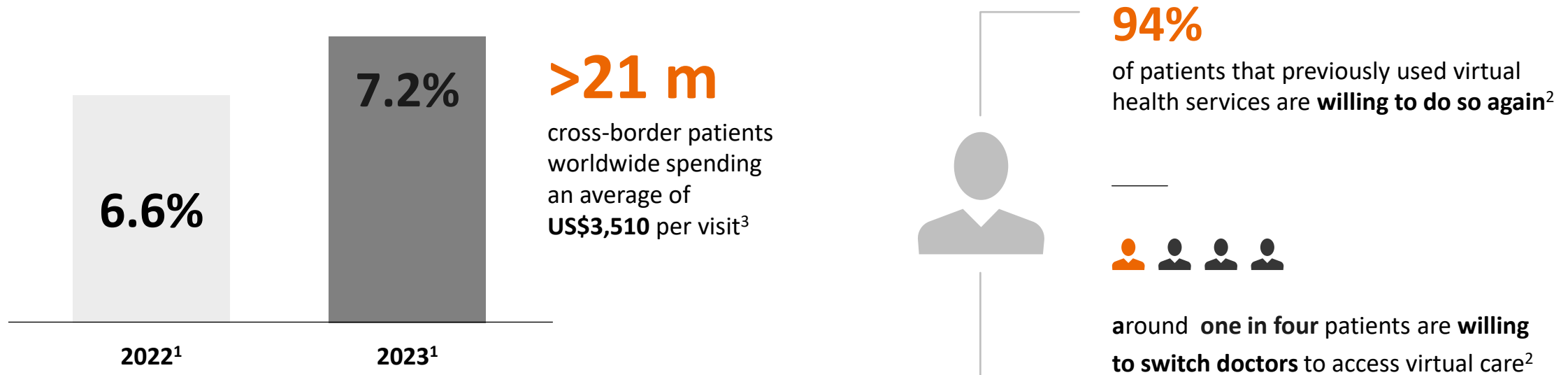
¹ WHO: https://www.who.int/health-topics/health-workforce#tab=tab_1 viewed January 3rd, 2025

² WHO: [https://www.who.int/data/gho/data/indicators/indicator-details/GHO/medical-doctors-\(per-10-000-population\)](https://www.who.int/data/gho/data/indicators/indicator-details/GHO/medical-doctors-(per-10-000-population)) viewed January 3rd, 2025

Global market dynamics

Consumerism

Average annual growth of out-of-pocket-expenditure in the U.S.¹



Consequence: Patients nowadays are better informed and more involved in their own healthcare decisions than ever, they are also setting the terms by which they seek and receive healthcare services. Therefore, the way healthcare providers need to market themselves is changing dramatically – a good reputation is key to be top of mind.

¹ CMS: <https://www.cms.gov/files/document/nhe-projections-forecast-summary.pdf>, viewed January 3rd, 2025

² Deloitte : <https://www2.deloitte.com/us/en/insights/industry/health-care/virtual-health-consumer-demand-and-availability.html> , viewed January 22nd 2025

³ Patients Beyond Borders: <https://www.patientsbeyondborders.com/media>, viewed January 15th, 2025

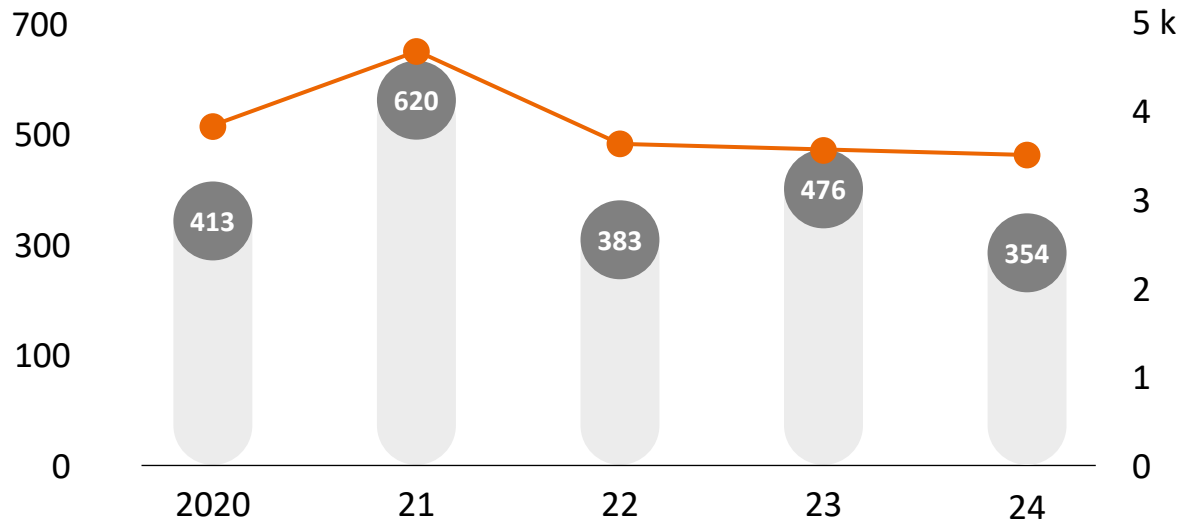
Global market dynamics

Consolidation: Building the critical mass

Healthcare M&A¹

Global healthcare M&A deal value, US\$ bn

Global healthcare M&A deal count



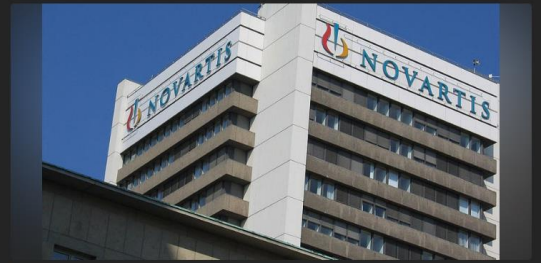
National and multi-national healthcare chains diversifying their business **vertically** as well as **horizontally**

➤ Healthcare M&A reached US\$354 bn in announced deal value in 2024.



Siemens Healthineers To Buy Novartis Diagnostics To Bolster Cancer Scan Business In \$220M Deal

Story by Vandana Singh • 6mo • 2 min read



Siemens Healthineers agreed to acquire Novartis AG's (NYSE:NVS) diagnostics arm for \$223.5 million (200 million euros) in a deal meant to enhance its cancer treatments. Both companies confirmed the acquisition, and it involved Advanced Accelerator Applications, a division Novartis purchased in 2017.

HOSPITAL DE CASCAIS

Vivalto Santé estrena la compra de Ribera Salud con un contrato de 800 M en Portugal

La concesionaria valenciana firma el concurso para la gestión durante ocho años del hospital de Cascais, que convocaba el Gobierno de António Costa



El Hospital de Cascais.

Global market dynamics

Shift towards virtual care | physical + digital = phygital

Shift towards virtual care

Significant increase in investments and usage of virtual care



8 out of 10

global hospital CEOs stated that **investments in digital tools and systems have changed significantly** as a result of the pandemic.²

Increase of telehealth in the U.S.¹

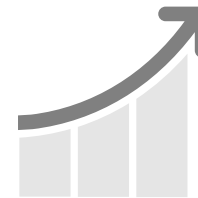
Share of patients using telehealth



... and **76%** are interested in using it.

Increase in health monitoring

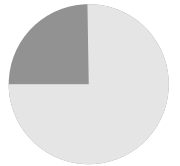
Trend among consumers to use technology to monitor their health³



Virtual care delivery by 2040e

Expected

At least **25%** of all outpatient care, preventive care, long-term care, and well-being services will move to **virtual delivery** by 2040.⁴



Consequence: Significant acceleration of digitalization in healthcare

¹ United Nations: https://www.un.org/development/desa/pd/sites/www.un.org.development.desa.pd/files/wpp2022_summary_of_results.pdf, viewed January 12, 2024

² United Nations, United Nations Statistics Division: <https://data.un.org/Data.aspx?d=PopDiv&f=variableID%3A68>, viewed January 12, 2024

³ United Nations: https://www.un.org/development/desa/pd/sites/www.un.org.development.desa.pd/files/undesa_pd_2022_wpp_key-messages.pdf, viewed January 12, 2024

⁴ Deloitte: The future of virtual health: <https://www2.deloitte.com/us/en/insights/industry/health-care/future-of-virtual-health.html>, viewed January 18th, 2023

Mobile Stroke Units



2017



2022



Wearable technology is transforming health care. Do not delay the revolution.

“Wearables and artificial intelligence look poised to reshape healthcare in three big ways: early diagnosis, personalized treatment, and chronic disease management.”

“Continuous monitoring shifts the balance of care from **what doctors can do in the occasional brief office visit to what patients can do for themselves**, day in and day out.”

“Patients' data need to be entered into HER's, which are often inadequate. Practitioners need treatment protocols on how to use new technologies. **Professionals must be trained and reimbursed for offering digital treatments and reviewing data.**”

Governments and insurers must figure out how to make the technology available in subsidized health systems **so busy putting out fires that they struggle to invest in prevention.**

Innovating personalized care

Enable you to promote health for each patient by digitally connecting precise diagnoses with precise treatments

Organize care around the patient's medical condition

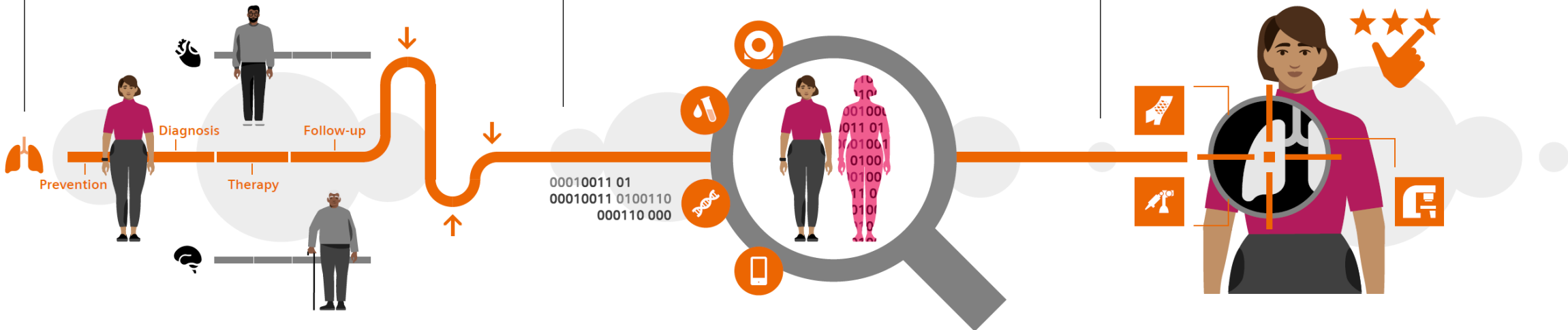
Implement innovative best-practice standards to **organize care along the patient's clinical pathway**, enabling you to reduce unwarranted variations as a precondition for personalizing care.

Provide precise diagnosis for actionable decisions

Integrate **precise diagnostic data**, enabling you to **build a digital twin** of the patient that provides a holistic understanding and **actionable insights** at the point of decision.

Deliver therapy outcomes that matter to patients

Combine **highly precise image guidance** with **minimally invasive, robot-assisted, and intelligent therapies**, enabling you to deliver better patient outcomes with improved, lasting therapy results.



Empowering communities, transforming lives.

Alentejo in Portugal has the oldest population in the country. Heart disease is the leading health risk. To improve cardiovascular care, we helped Évora Hospital to double their capacity and build a world-class cardiovascular center. Today, it treats patients both far and near – including Francisco Antonio Rosa who now receives the care he needs.*

Because every patient matters, we create new possibilities in a world of limited resources.

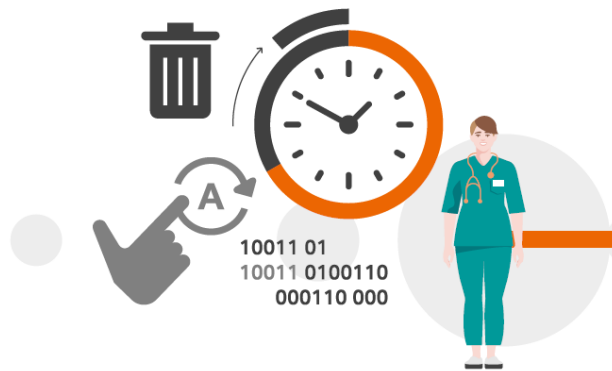
**We pioneer breakthroughs in healthcare.
For everyone. Everywhere. Sustainably.**

Achieving operational excellence

Enable your care teams to focus on value creation by augmenting their capabilities and simplifying their work, sustainably.

Empower caregivers to focus on what matters most

Automate everyday tasks and **augment** care teams with decision support enabling you to **free up your caregivers' time** while reducing the workforce burden.



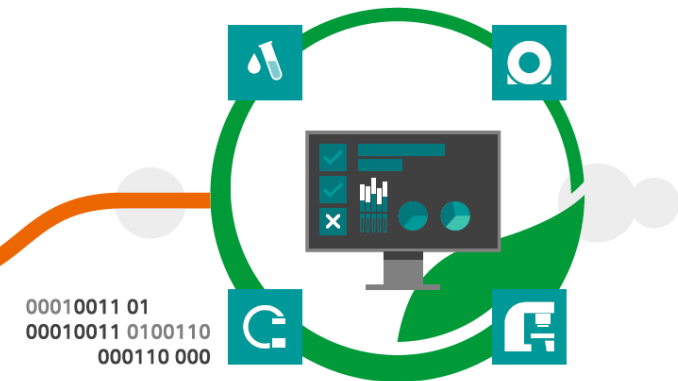
Embrace and utilize new models of work


Create more **flexible and attractive workplaces** that encourage elevating your workforce, sharing skills and adapting capacity enabling you to **deploy resources and expertise when and where needed**.



Ensure technological and operational sustainability

Embrace quality, streamline operations, and proactively **manage medical technology** enabling you to **maximize system-wide performance** while reducing resource consumption.



A stylized graphic featuring a green globe with a plant stem and leaves growing from it, set against a dark blue background. The globe is positioned in the upper right quadrant, and the plant stem with several leaves extends from the bottom right towards the center. The overall theme is environmental and sustainable.

**How can we partner
to provide more
care per kilowatt?**

And our capabilities enable you in ...

... innovating **personalized care**

Enable you to promote health for each patient, by digitally connecting precise diagnoses with precise treatments.

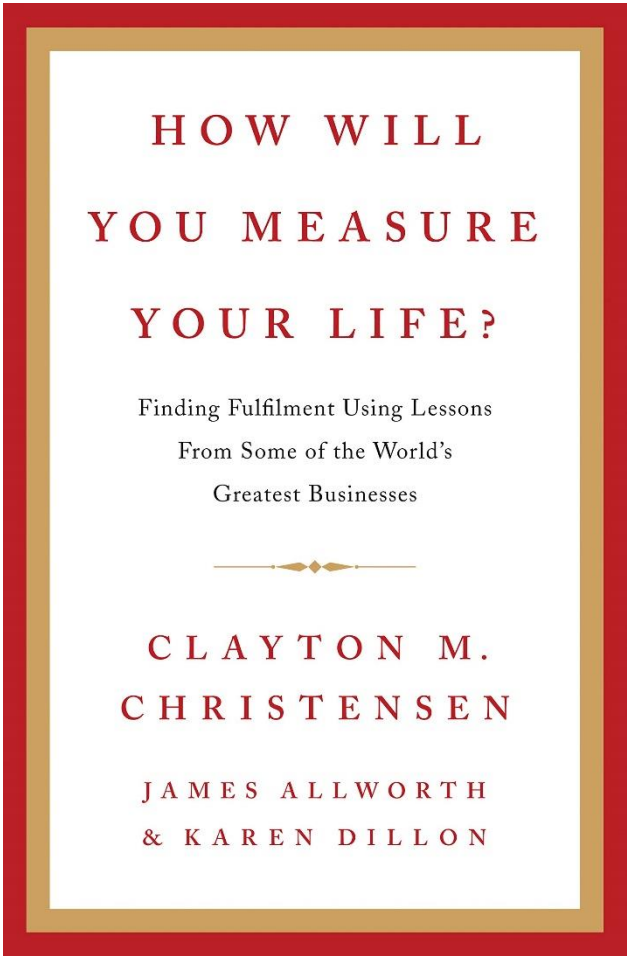
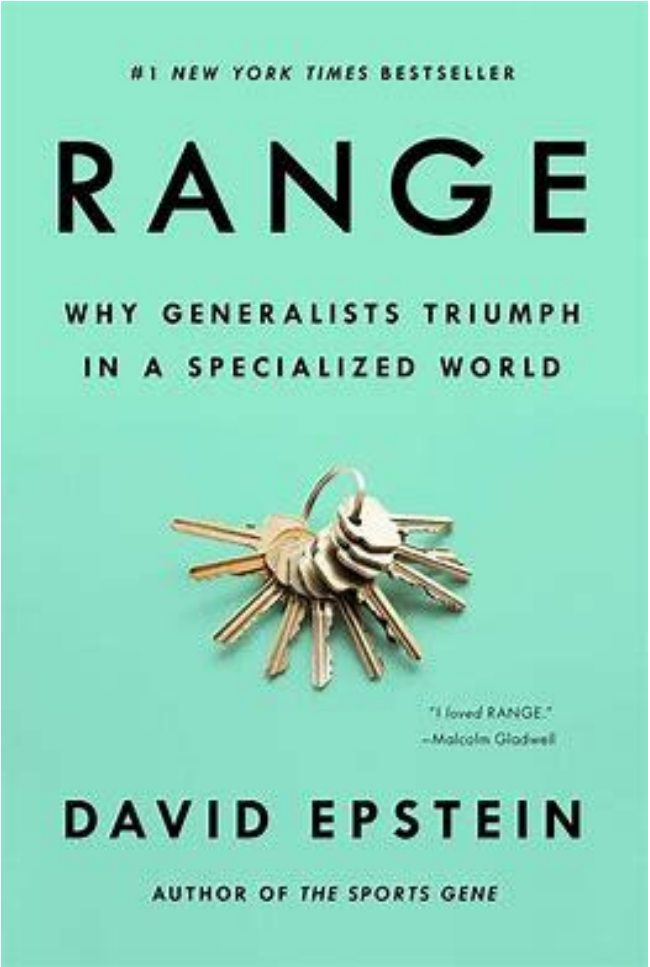
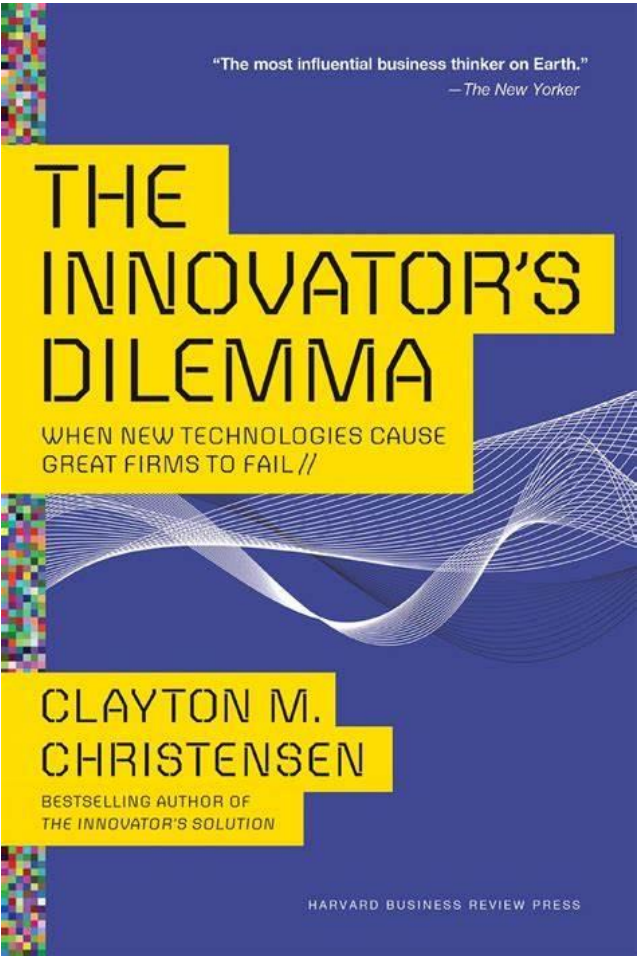
... achieving **operational excellence**

Enable your care teams to focus on value creation by augmenting their capabilities and simplifying their work, sustainably.

... transforming **the system of care**

Enable you to build a smart care delivery model that provides equitable access to care, no matter where patients are.

We can't predict the future, but we can build it



Siemens Healthineers

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