

Smart Health

# Real-World Impacts of Technology and AI on Health

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## The Challenge

A global healthcare crisis  
that traditional resources  
can't solve

## Opportunity

Unlocking better health  
outcomes with  
technology & AI

# The challenge is not one problem

It is a convergence of pressures hitting healthcare at the same time



Not enough people



Too much cost



Too much complexity



Too much is preventable



Too many people still being left behind

Not enough people

The workforce cannot scale fast enough

# 12.9 Million

The projected global skilled  
healthcare worker shortage  
by 2035

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Too much cost

Spending keeps rising, but outcomes are not keeping pace

# \$20 Trillion

The projected cost of global  
healthcare spending as it doubles  
by 2040

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Too much complexity

Clinicians are drowning in data, not insights

70%

Physicians surveyed report data  
overload causing **burnout** and  
**impact to quality of care**

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Too much is preventable

Too much disease is avoidable, delayable, or could be better managed

# \$47 Trillion

Estimated cumulative economic burden of noncommunicable diseases, 2010-2030

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Too many are left behind

Women and underserved communities are still being missed

1 in 3

women globally die of heart disease,  
but only 30-40% of clinical trial  
participants are women

25% More Time

The extra burden women carry in poor  
health or disability compared to men

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**We have a problem that  
money and people can't  
solve...**



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# Healthcare must **move upstream** and get **smarter downstream**

Medical care itself influences only part of health outcomes – Much of health is shaped earlier, and elsewhere

What shapes health *before* the clinic?

**30-50%**

Lifestyle & Behaviors

**40-80%**

Environmental &  
Social Determinants

**20-25%**

Genetics



## **Upstream**

Prevent early  
Predict population risk  
Detect sooner

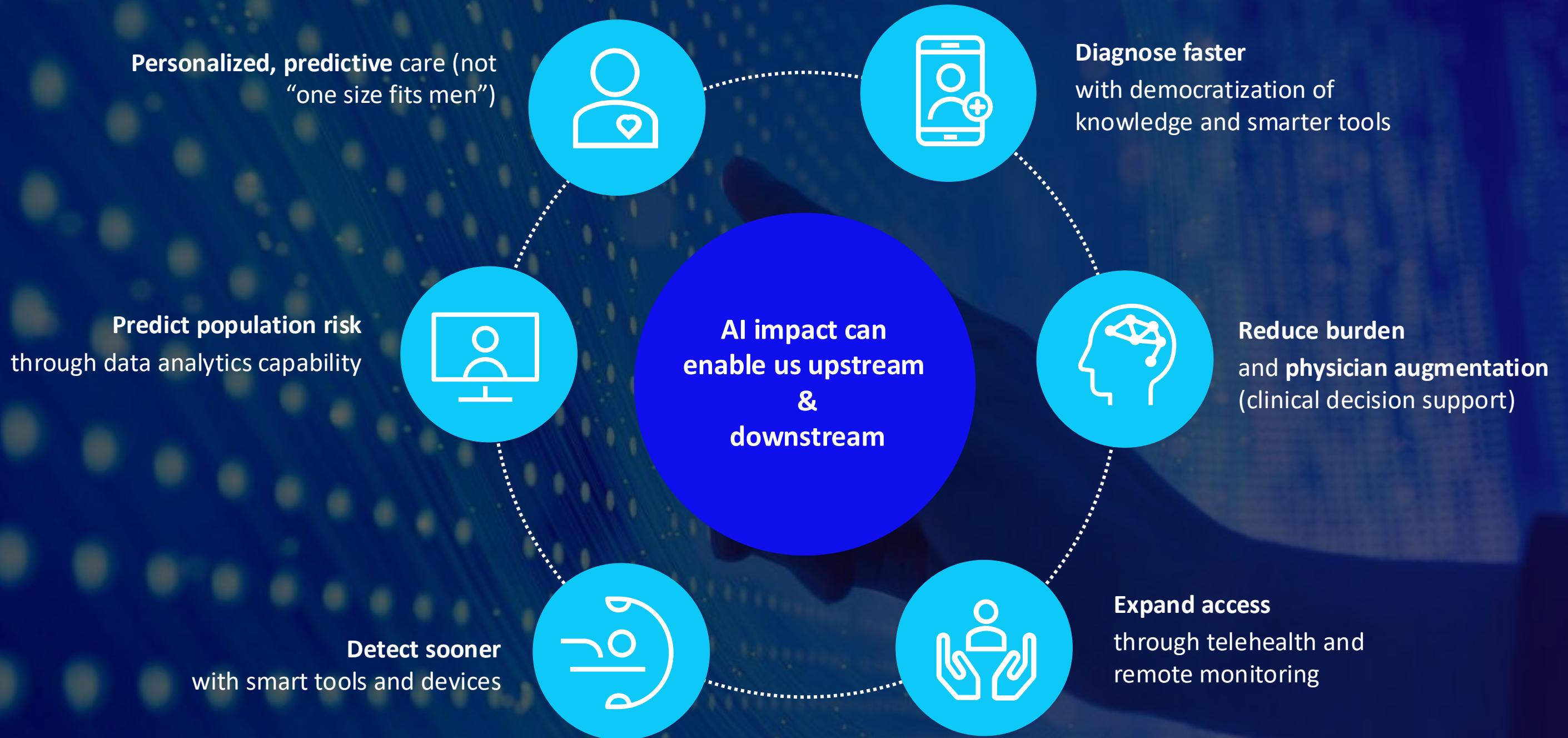
## **Downstream**

Diagnose faster  
Reduce burden  
Personalize care  
Expand access


Better outcomes require more prevention before disease takes hold, and smarter care after it begins

# AI + technology can connect both

The opportunity is to use technology and AI to help care move earlier, scale farther, and become more personal



**Examples of how our industry  
is already leading the way...**



We have **increased detection rates** of colon adenomas by **14%** with Medtronic GI Genius

Early diagnosis reduces colorectal cancer deaths by up to 50%

Every 1% increase in detection, reduces risk of cancer by 3%

Colorectal cancers are the deadliest cancer for adults under 50 years old and the second deadliest cancer for women worldwide

We have reduced the **burden\*** by saving more than **1.2 million hours** for U.S. clinicians since launch of LINQ II through remote monitoring, remote programming, and AI-enabled false-alert reduction for cardiac rhythm patients.



\* Based on internal estimates

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Using PillCam technology,  
we have reduced cost,  
travel time and invasive  
endoscopy and  
colonoscopy procedures for  
**4 million people globally.**

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We now have **personalized** AI-driven pre-op planning into robotics, navigation, imaging and post-op insights, transforming care into more **predictable outcomes**


YOUR surgery is specifically designed for YOUR anatomy.

YOUR surgeon is guided by a pre-op plan designed for YOUR specific case.



AiBLE™ digital ecosystem for spine and cranial procedures

\*Siemens Healthineers AG is the legal manufacturer of the Multitom Rax.  
\*\*ePRO is an offering of OBERD™

A female medical professional with dark hair tied back, wearing safety glasses and a white lab coat, is shown in profile from the chest up. She is looking intently at a large, vertical medical monitor. Her right hand is touching the screen, which displays a complex medical interface with various charts and data points. The background is a clinical setting with other medical equipment visible, including a device with a green display screen. The overall lighting is soft and professional.

# The “Democratization” of Learning and Deep Clinical Experience

AI is enhancing clinical capabilities, not replacing them...

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The revolution has already arrived

We must understand the **opportunity and the risks**

## AI Adoption in Healthcare and Life Sciences

**70%**

Said their organizations are actively using AI, **up from 63%** in 2025

**69%**

Said they're using generative AI and large language models, **up from 54%**

A group of people in a dark room with blue lighting, looking at a tablet held by a woman. The scene is dimly lit, with the primary light source being the blue glow from the tablet and the ambient blue light of the room. The woman is in the foreground, holding the tablet, while a man and another person are looking at it. The background is dark with some faint blue light patterns.

**Innovation is  
only progress if  
it improves the  
human condition.**

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We have a choice:

**Ignore it.**

**Fear it.**

**Shape it.**