

HEALTHCARE INNOVATION



HEALTHCARE INNOVATION - Intelligent Healthcare Solutions



KERRIE MCDONALD

Vaccines & Health
Policy Lead
Corporate Affairs
ASTRA ZENECA



SHAUN SEERY

Senior Vice President
Asia Pacific
ELEKTA



REIDAR GÅRDEBÄCK

Chief Executive Officer
ORTIVUS



MITCH FARQUHAR

Operations Manager
CORVANTA



MICHAEL NILSSON

Professor & Director
Centre for Rehab
Innovations
**UNIVERSITY OF
NEWCASTLE**

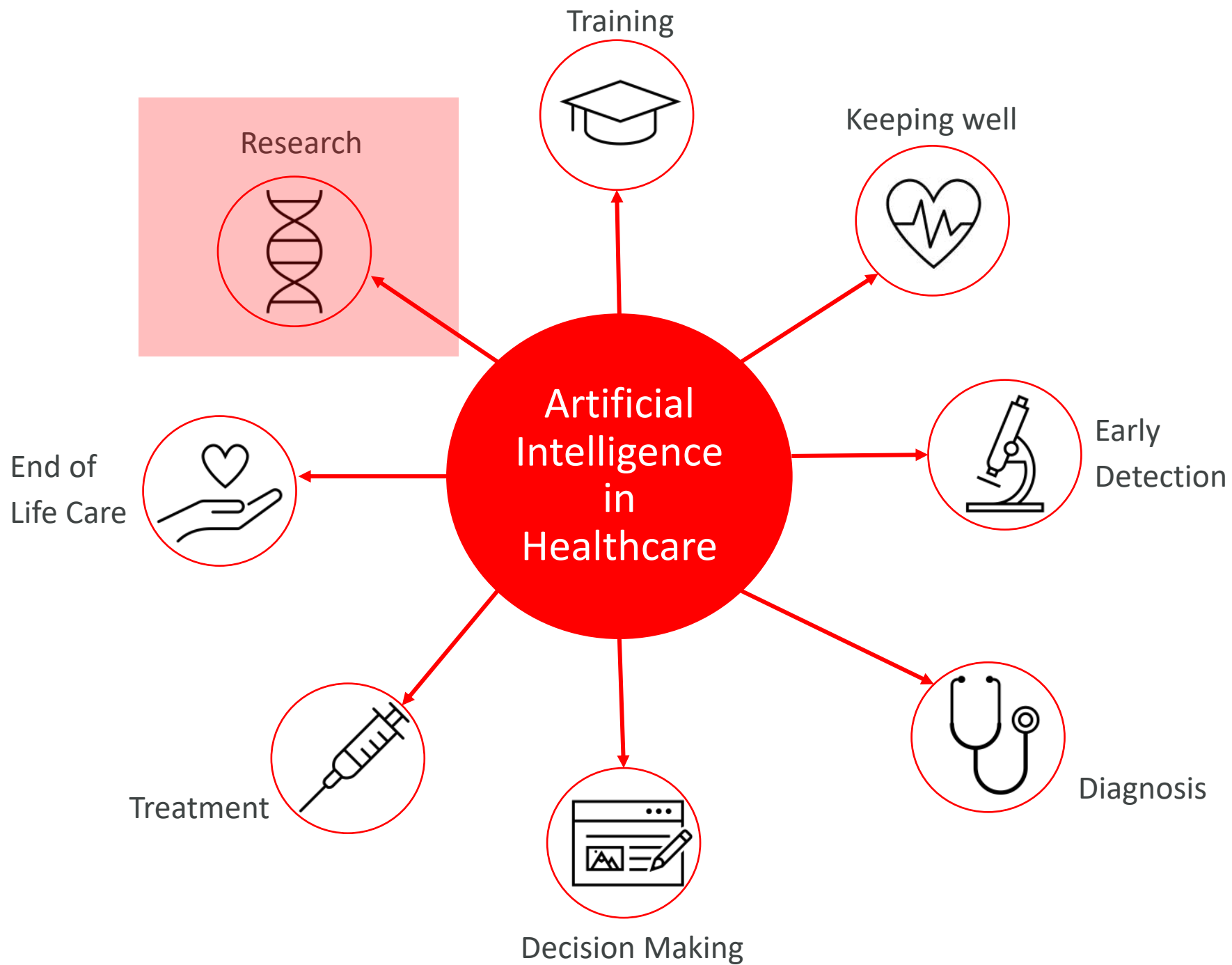


Kerrie McDonald

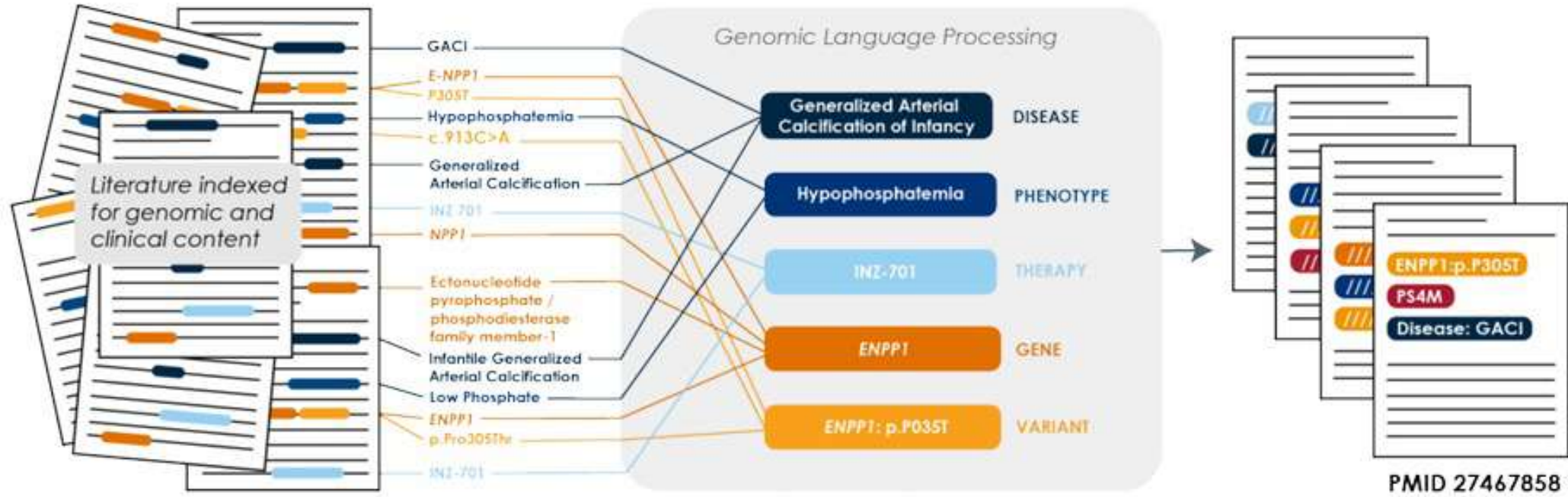
Vaccines and Health Policy Lead
Corporate Affairs
AstraZeneca

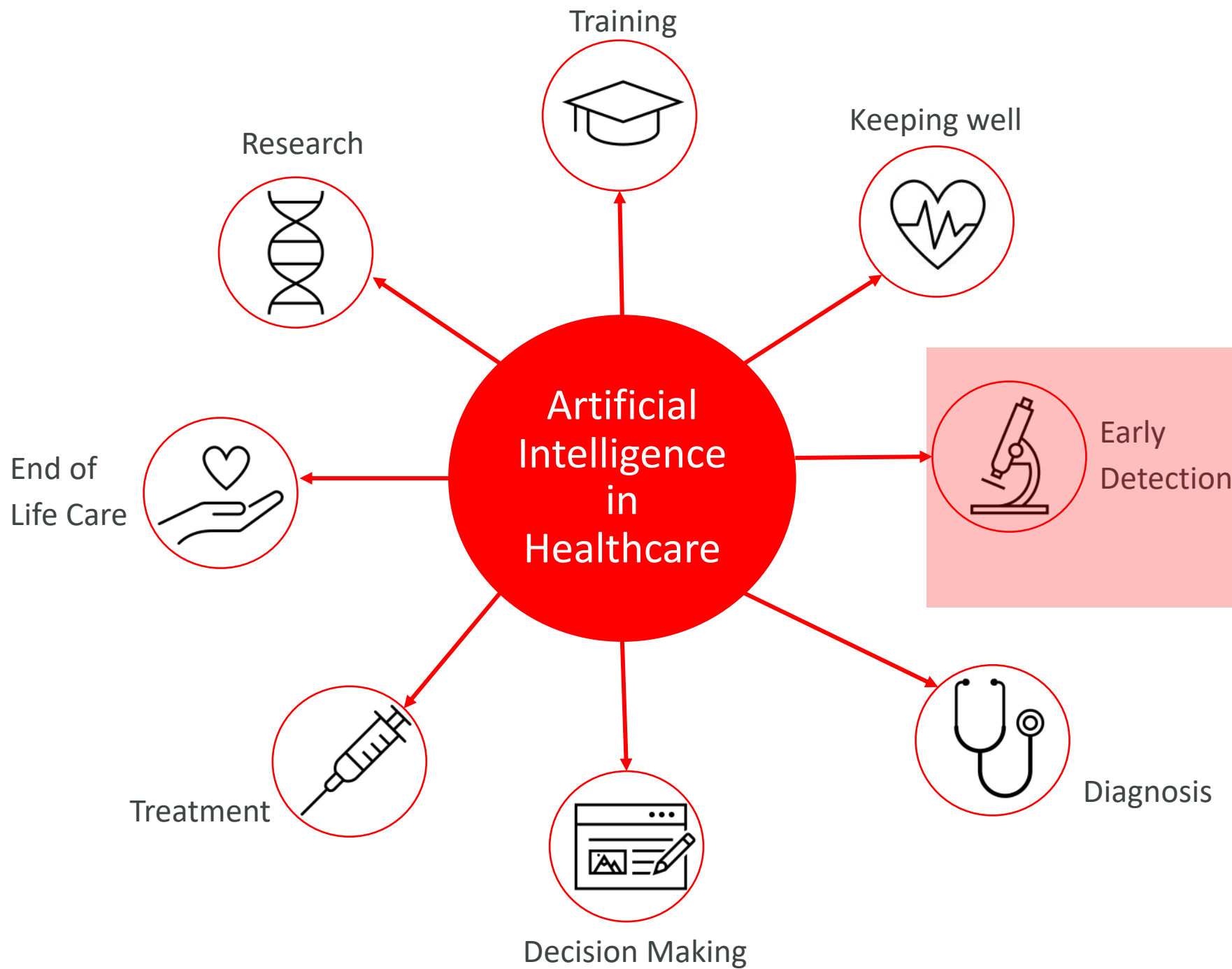
Intelligent
Healthcare
Solutions-
Use of AI in
pathology





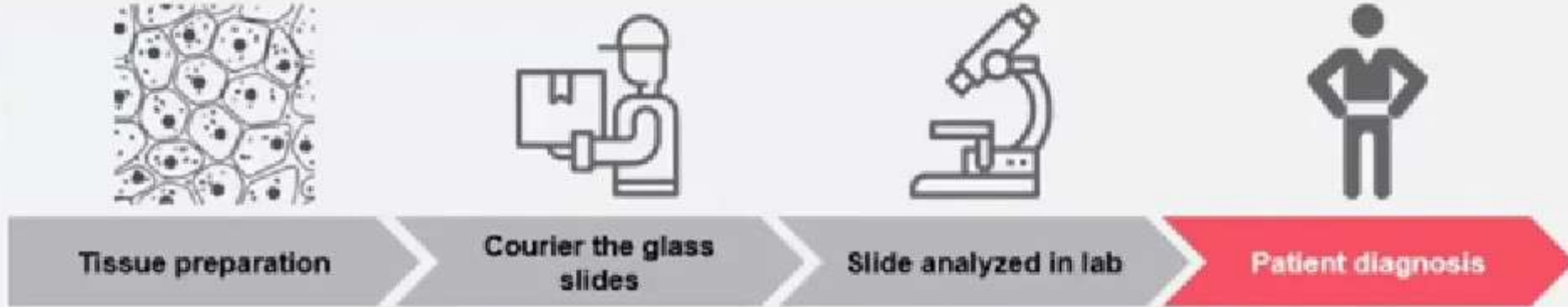
Use of AI in Research



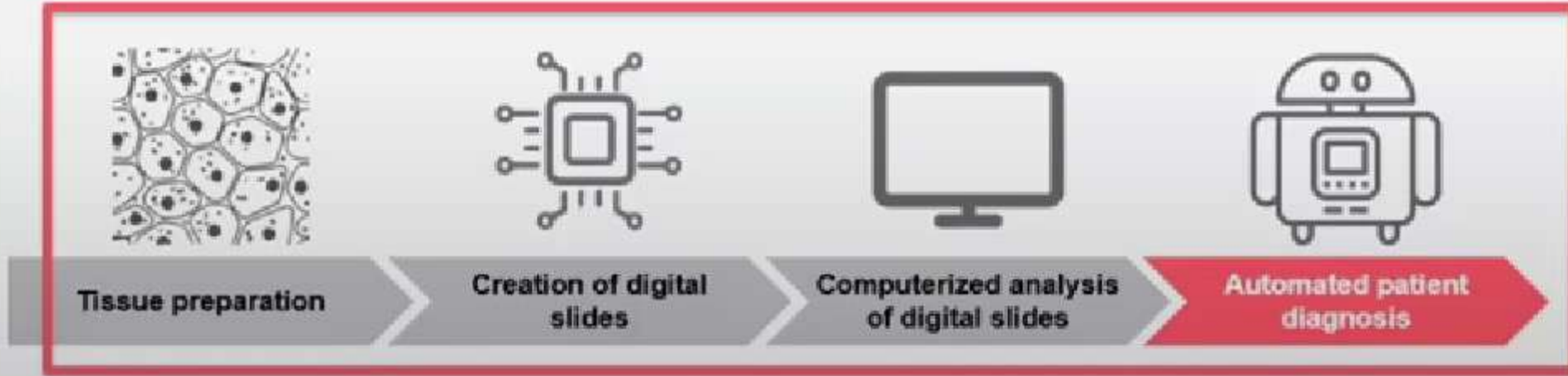


Use of AI in early detection

Traditional Pathology Workflow

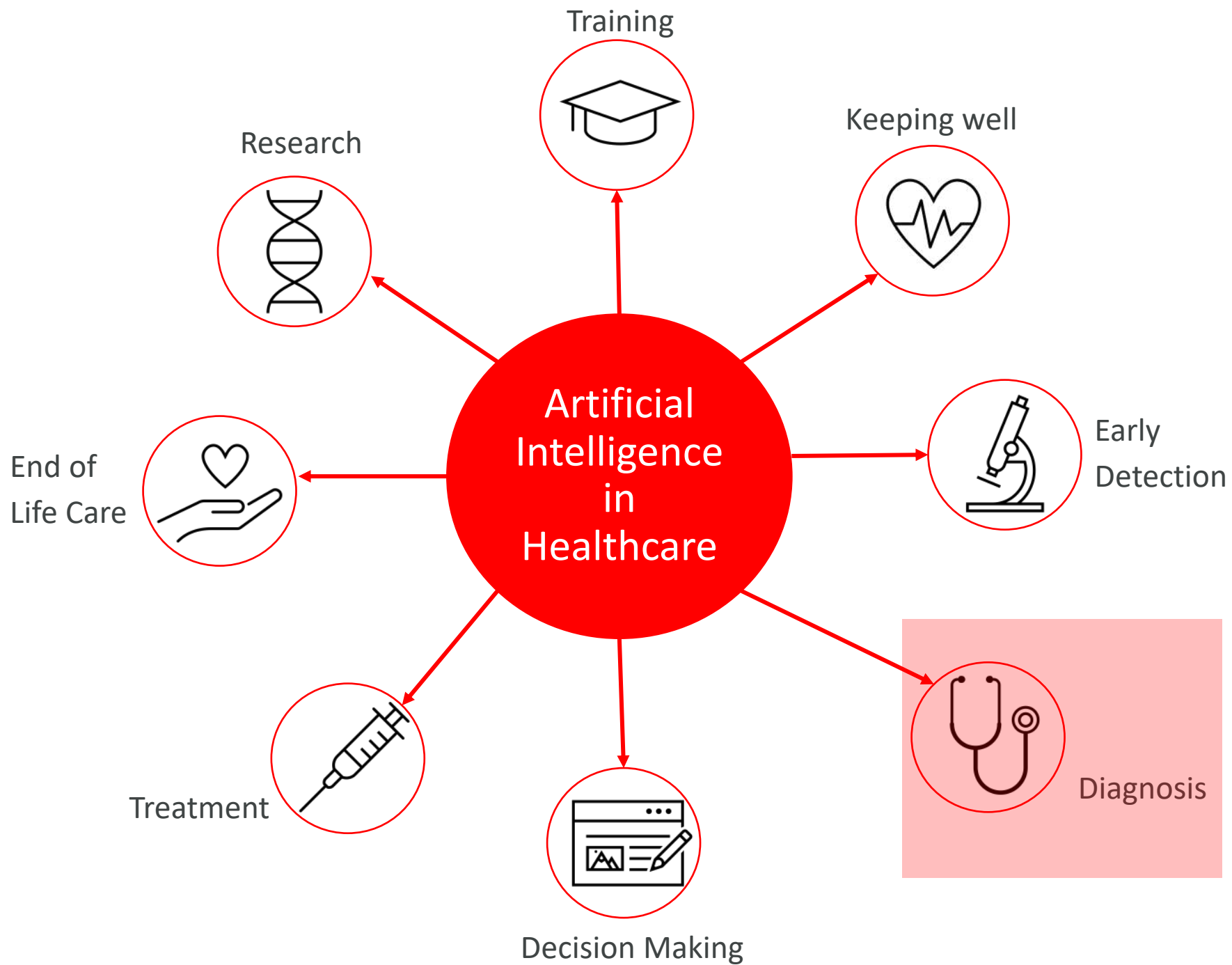


Digital Pathology Workflow



Source: Pathkids.com





Use of AI in Diagnosis

47/Male



Preliminary Findings

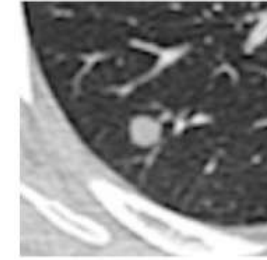
Nodule #1 - Smooth marginated, round nodular lesion is detected in right lower lobe of lung measuring 9×8 mm (series 1, image 377) with volume 120 mm³.

This nodule has increased in size with a Volume Doubling Time (VDT) of 3 years as compared to previous scan dated 03/05/2019 (previous size 6×5 mm, volume 70 mm³).

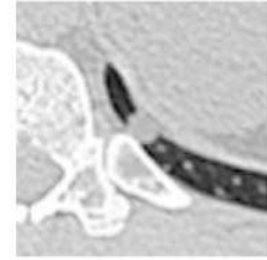
Malignancy risk score 15%

Suggested Follow-up:

CT at 6-12 months, followed by another CT at 18-24 months.



Nodule #1



Nodule #2

Nodule #2 - Smooth marginated, round nodular lesion is detected in left lower lobe of lung measuring 8 5 mm (series 1, image 405) with volume 76 mm³.

Malignancy risk score 2%





Shaun Seery

Vice President
Elekta



We believe that a better future for the treatment of cancer and neurological disease is about achieving focus where it matters



Our history is what drives us forward



Dr. Lars Leksell
(1907–1986)
Professor of
Neurosurgery

Founded by Lars and Laurent Leksell in 1972, we have dedicated ourselves to pioneering advancements for cancer care and treatment of brain disorders.



Elekta

Precision radiation therapy
for everyone, everywhere

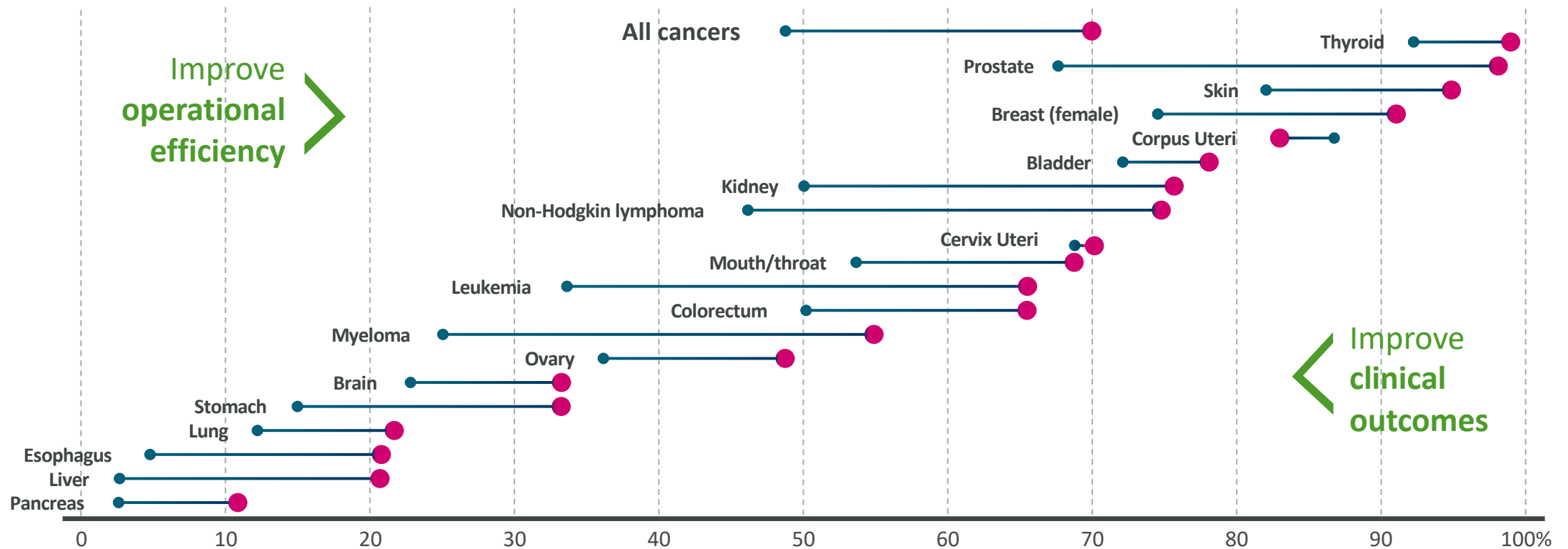
A prolonged, disease-free life is what cancer patients hope for.

As clinics become more collaborative and treatments become more personalized, Elekta is using precision radiation medicine to work towards a future where everyone can benefit from precise and individually tailored radiotherapy treatments, regardless of your need or location.



Improvements in cancer care

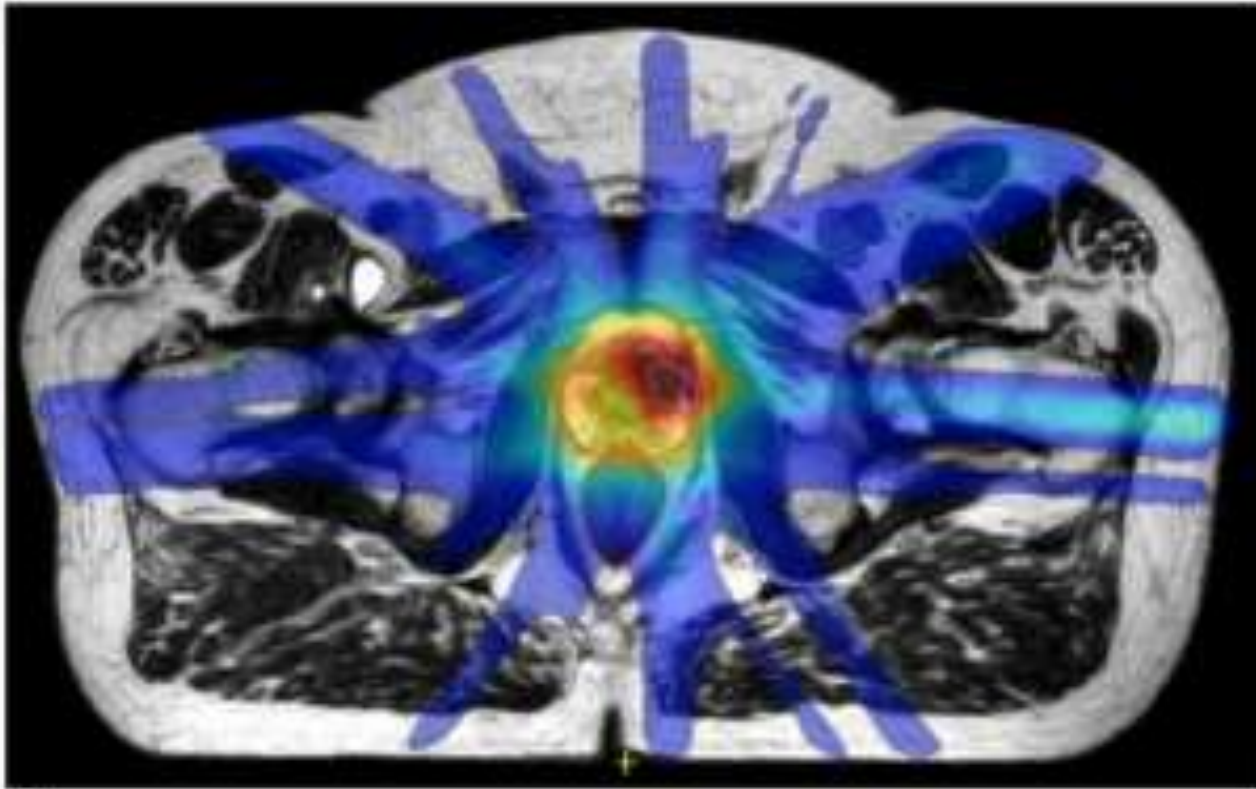
Survival rates have increased over the past 40 years



Average five-year survival rates from common cancer types in the U.S., shown as the rate over the period 1970-77 [] and over the period 2010-16 []. This five-year interval indicates the percentage of people who live longer than five years following diagnosis.

Linear Accelerator Delivering Radiation Therapy

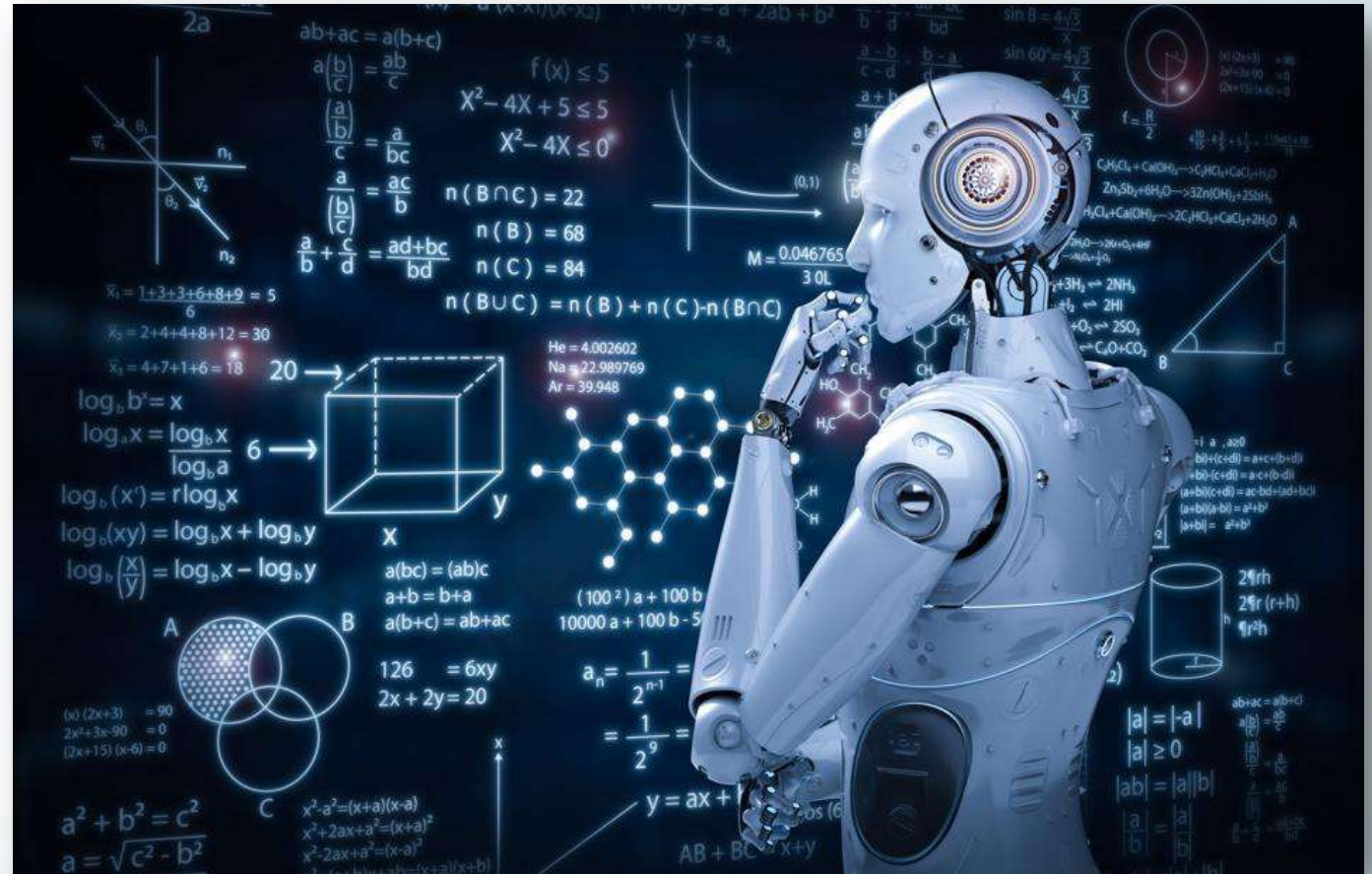
Advanced modulation and delivery



Machine Learning Alive and Well in Radiation Therapy

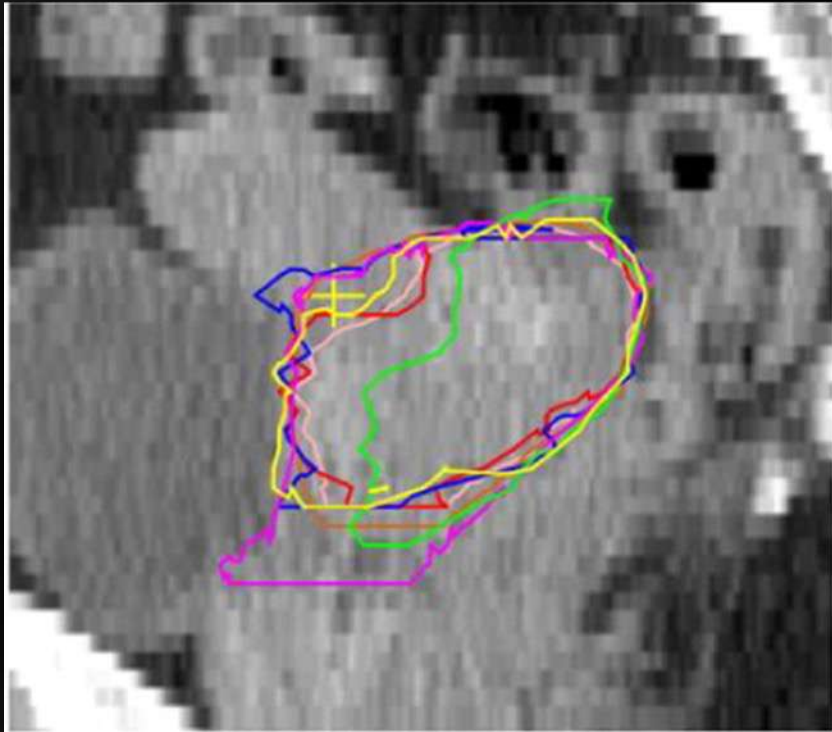
Machine learning is a field of inquiry devoted to understanding and building methods that 'learn', that is, methods that leverage data to improve performance on some set of tasks.

It is seen as a part of artificial intelligence. [Wikipedia](#)

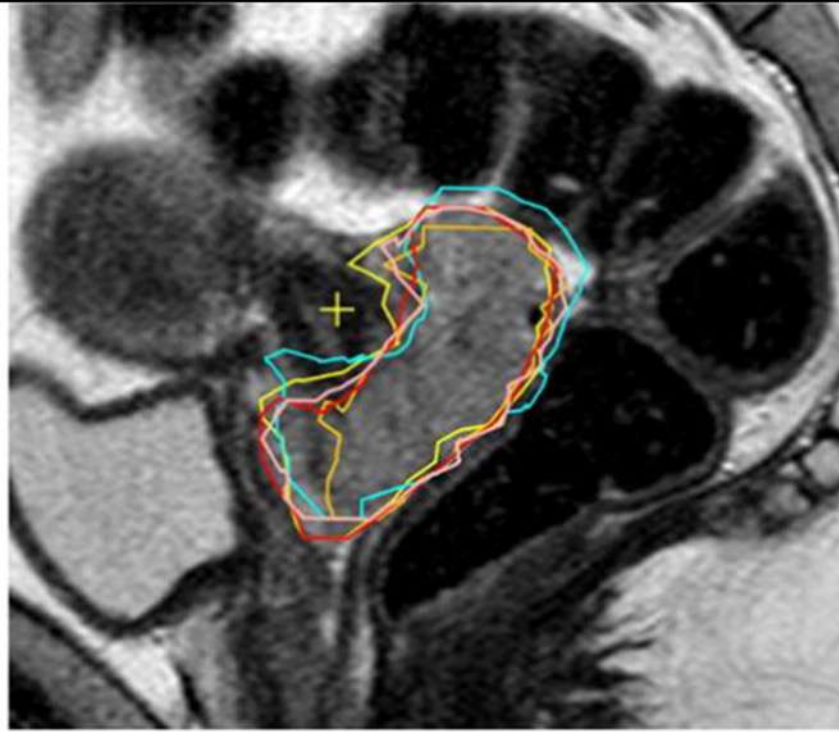


Forbes and Getty Images

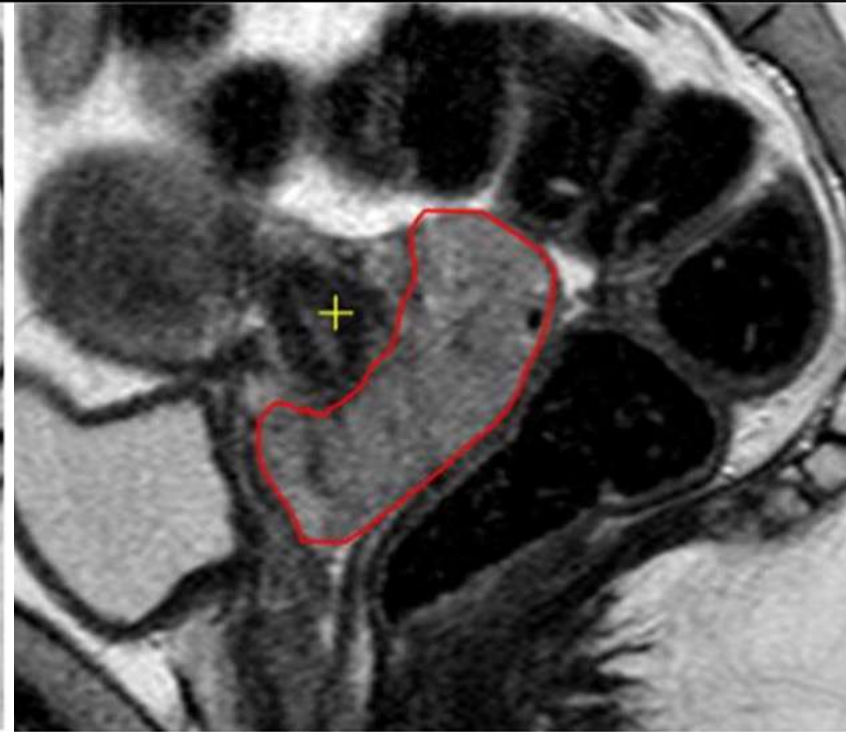
Manual Process can Increase Variability



CT Based Contour



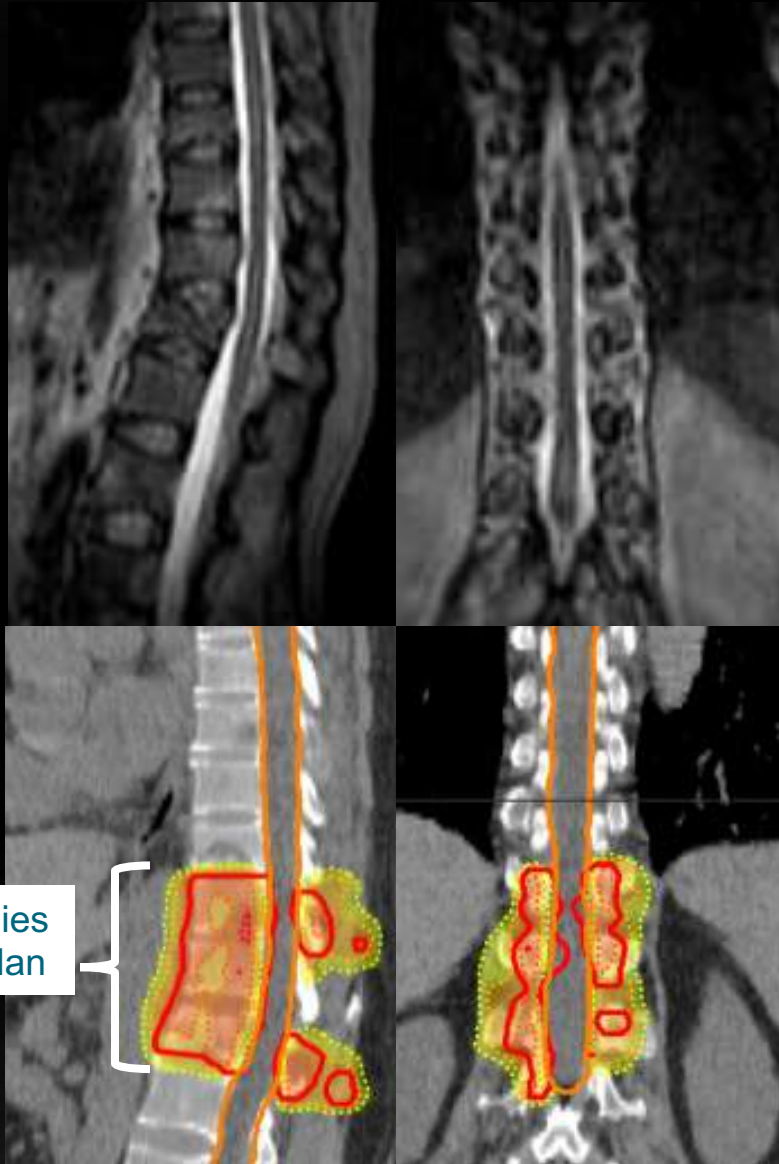
MR Based Contour



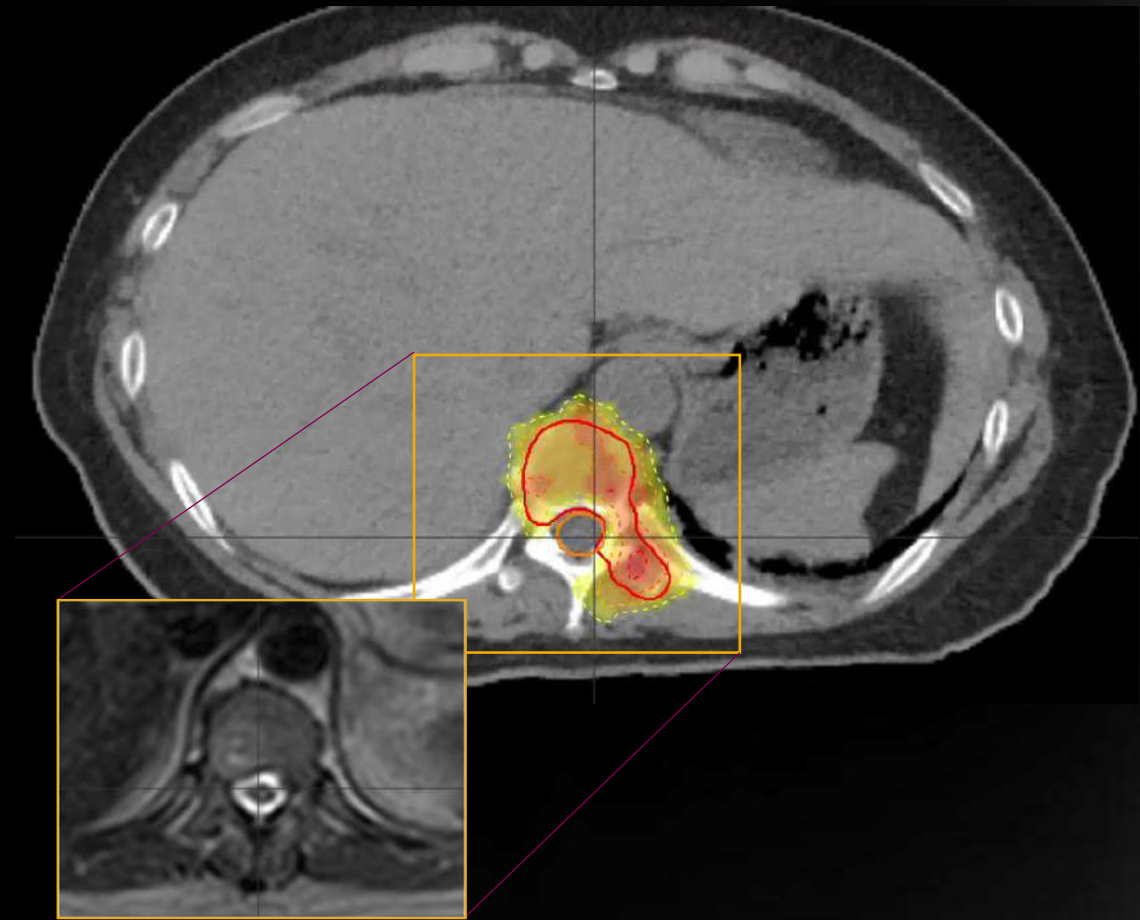
"Auto" Contour

MR/RT Spine SBRT

Radiation Dose “Sculptured” around Spinal Cord



3 spinal bodies
Single iso plan



Two AI applications combined to improve outcomes

Elekta ProKnow®

Unlock the power of data to enhance patient care

Maximize operational efficiency with AI based auto-contouring

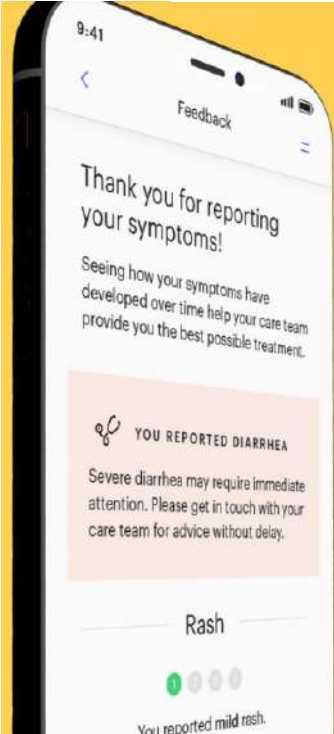
Streamline clinical trial management

Automate data analysis of long-term health outcomes

Knowledge sharing and peer-to-peer support

Kaiku
HEALTH

A PART OF ELEKTA



9:41
Feedback

Thank you for reporting your symptoms!

Seeing how your symptoms have developed over time help your care team provide you the best possible treatment.

YOU REPORTED DIARRHEA

Severe diarrhea may require immediate attention. Please get in touch with your care team for advice without delay.

Rash

1 0 0 0

You reported mild rash.

WHAT WE DO

Personalised digital health interventions for cancer patients

Kaiku Health is a platform for digital health interventions. It provides patient-reported outcome monitoring and intelligent symptom tracking. The use of Kaiku Health helps cancer clinics provide optimised care through timely symptom management and improved workflow.

Kaiku Health is CE-marked as MDD class IIa medical device.

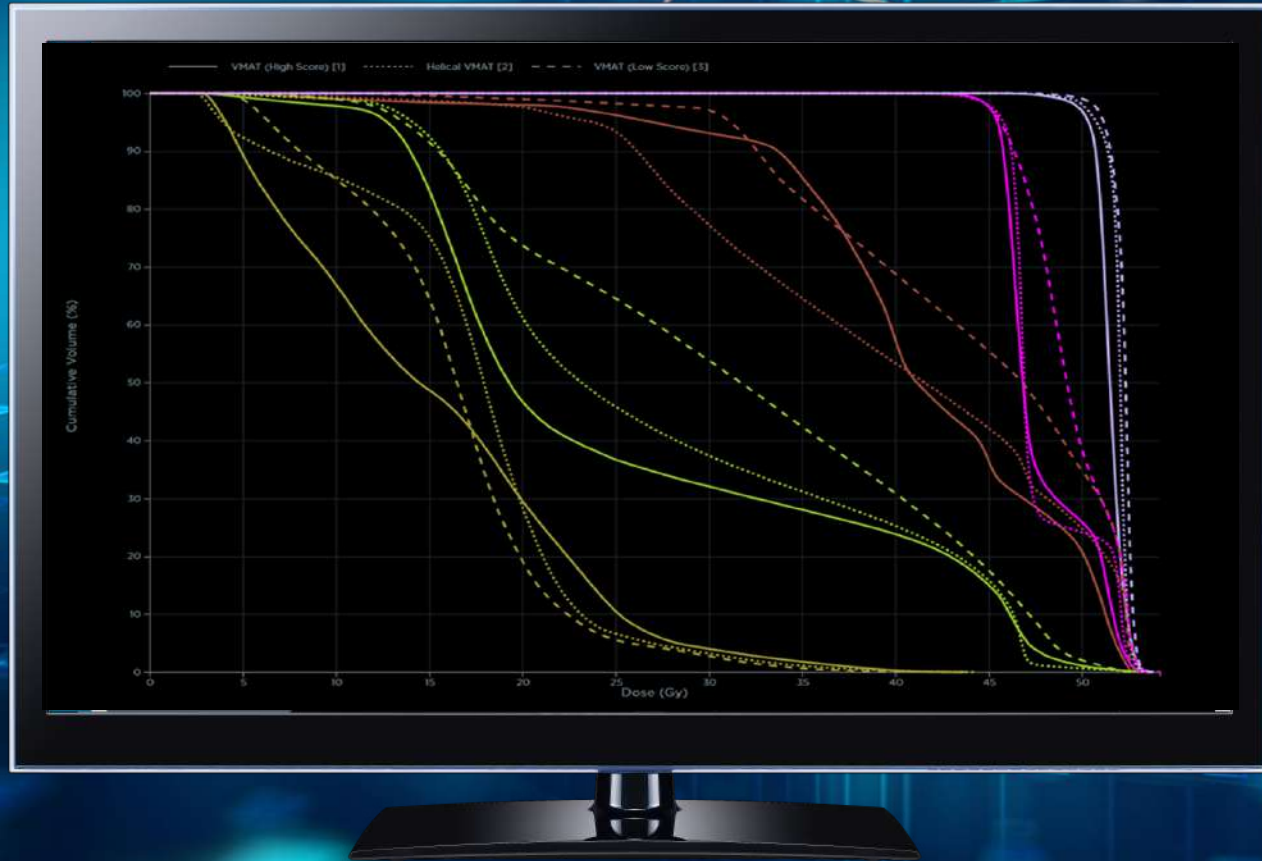
→ How it works?

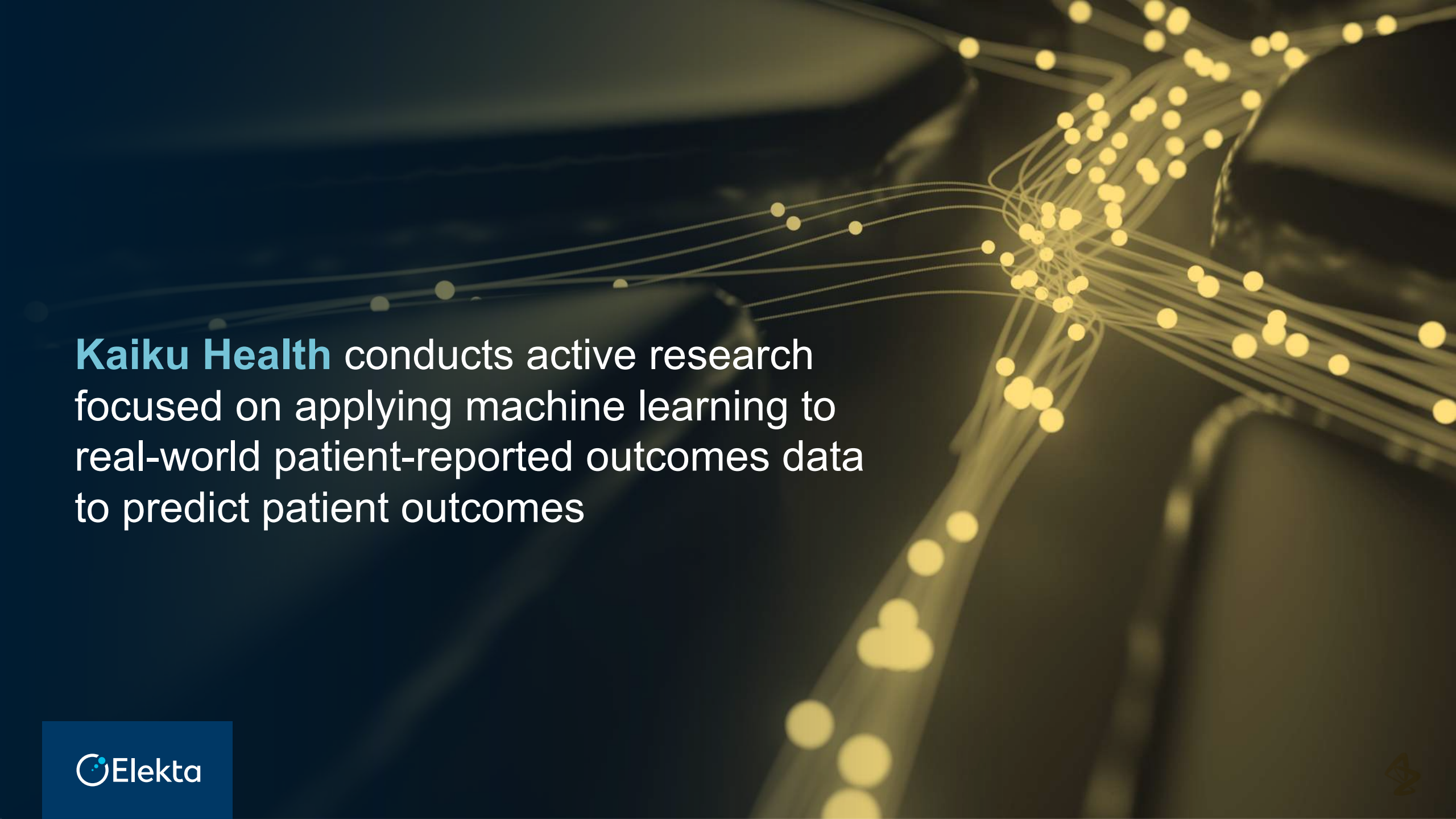
Elekta Proknow®

View, Analyze and Gain Insights Planning

ProKnow DS is a cloud-based solution that allows you to store, navigate, and retrieve your radiation therapy plans in scalable framework that works across all imaging, planning, and treatment modalities.

- Identify outliers and trends to drive consistency
- Navigate from big population plans to the individual patient with a simple mouse click
- Correlate customized metrics with treatment plans
- Measure outcome and support clinical trials
- Drive care decisions in every clinic







Kaiku Health conducts active research focused on applying machine learning to real-world patient-reported outcomes data to predict patient outcomes


Kaiku®


Capture and process patient-reported data

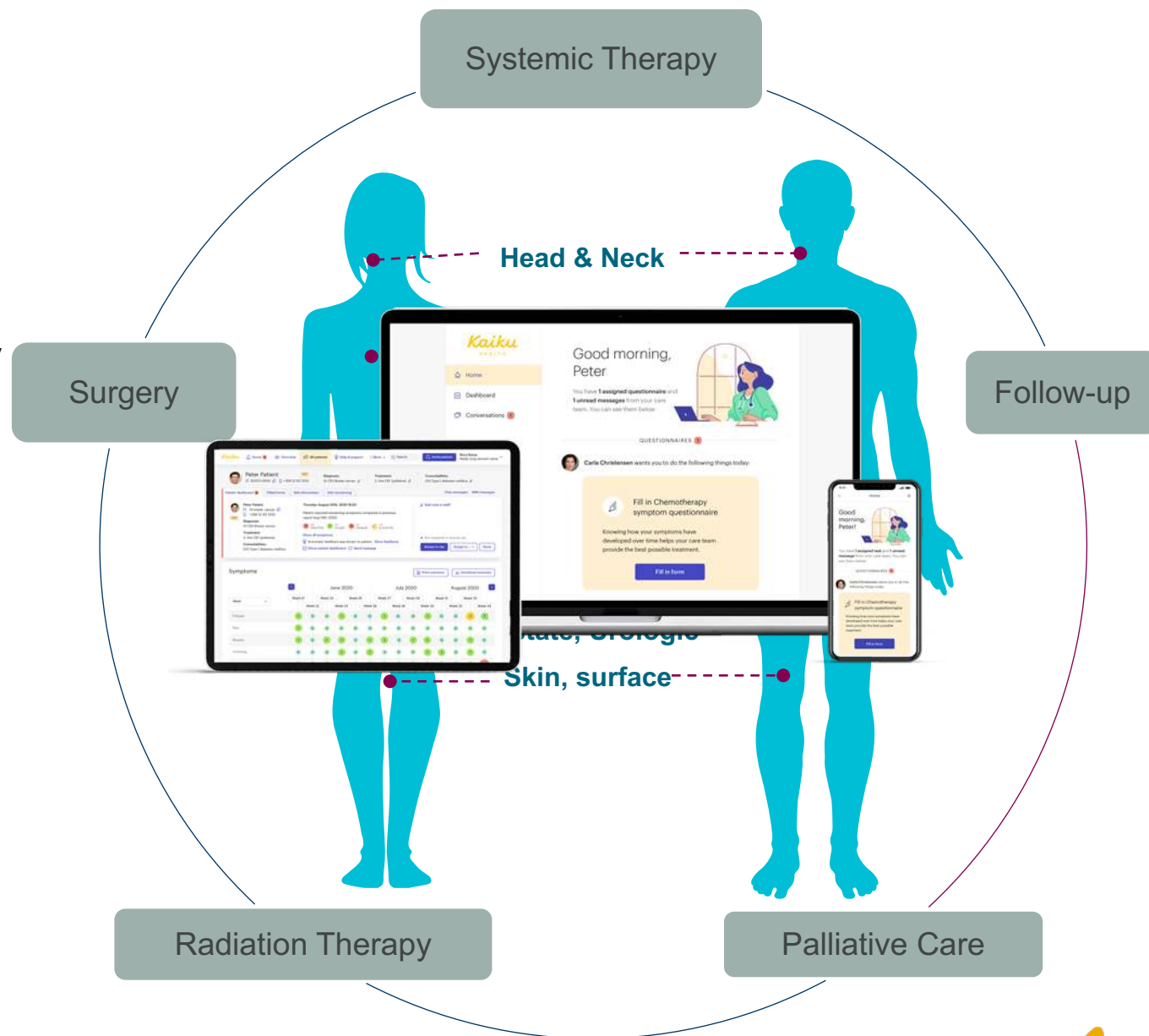
Kaiku Health is a digital platform for patient engagement and patient-reported outcomes

 Collect Real-World Data on treatments to evaluate their effectiveness, safety profile and long-term outcomes for patients

 Engage patients to the treatment better and know on-time how patient's symptoms are developing in between medical appointments

 Provide patients with better patient support materials and instructions during and after the treatment (e.g. psycho-oncology or rehabilitation)

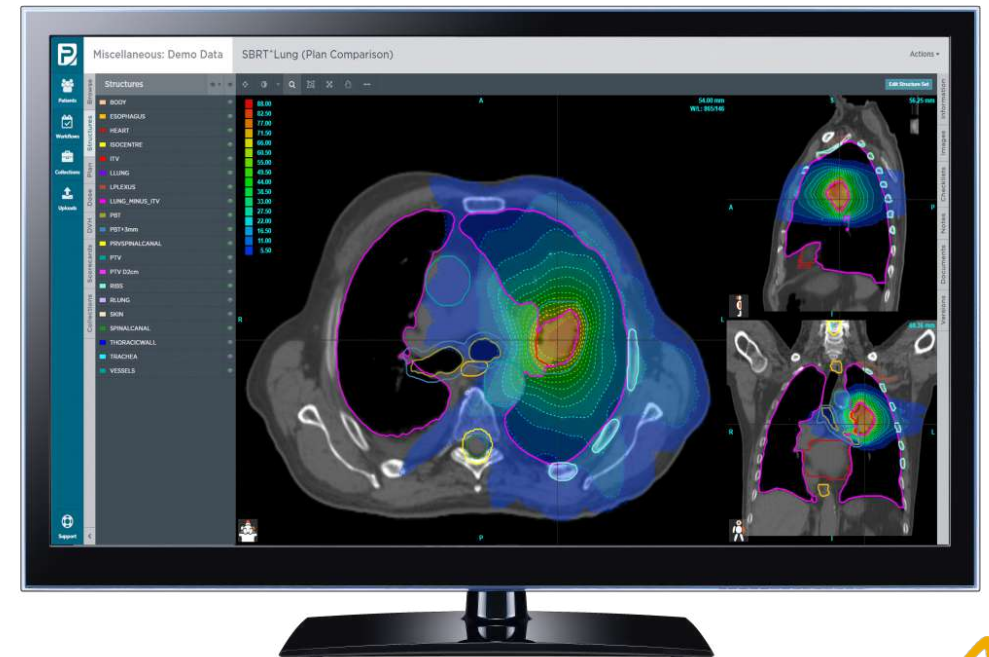
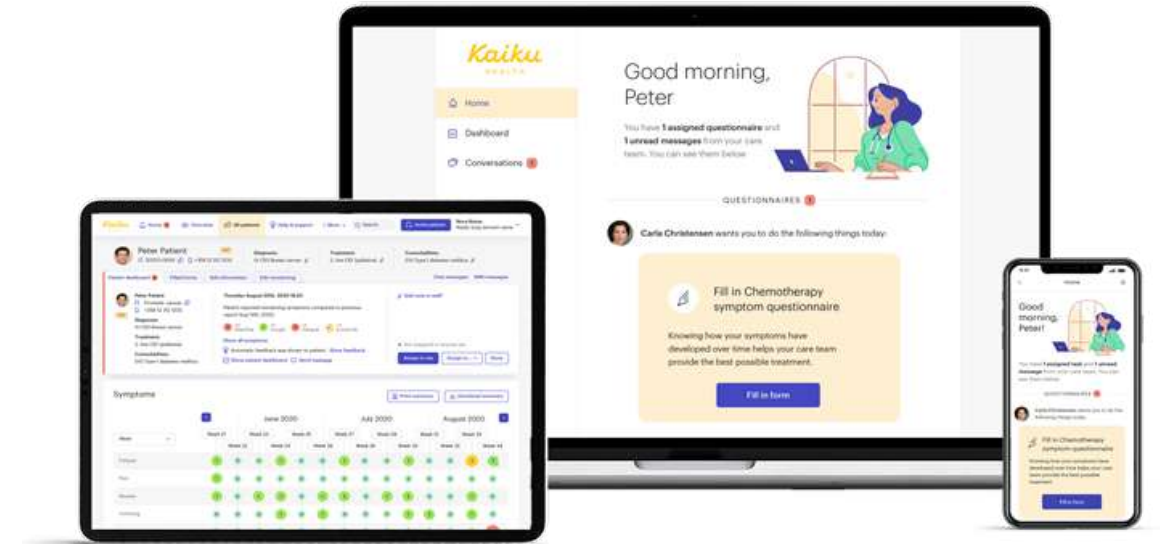
 Improve clinical workflow efficiency by automating manual processes in patient follow-up and decrease the amount of phone calls to the clinic



Kaiku® + Proknow®

Comprehensive suite of Patient experience AND Dose

- Link dose with patient experience, imaging, patient reported outcomes
- Understand how radiotherapy dose has affected patient experience, symptom management and Patient reported outcomes.
- Continuously improve the quality of care and quality of life by Identify trends and correlations from plan characteristics and Kaiku information.
- **Use these trends and correlations to proactively adapt care for future patients.**
- Audit and refine practice to give the best experience and care for your patients based on RWD



We don't just build
technology,
we build **hope.**





**50 years of innovation
and beyond.**



Reidar Gårdebäck

Chief Executive Officer
Ortivus AB

CORVANTA

Mitch Farquhar

Operations Manager
Corvanta



ortivus

CORVANTA

SWEDISH - AUSTRALIAN INNOVATION, TECHNOLOGY AND DESIGN SUMMIT

A female paramedic in a red jacket with reflective silver stripes is looking down at a clipboard. The clipboard has a white sheet of paper with a grid pattern, likely a patient's chart. The background is blurred, showing what appears to be the interior of an ambulance or a vehicle. The overall color scheme is cool, with a blue tint.

ortivus

CORVANTA



Healthcare today

Healthcare challenges



Growing and ageing population



Staff shortages and lack of competence



Increased care need and care depth after Covid-19



Crowded emergency departments and care units



Insufficient care chains, inefficient processes and administration



Large geographical areas, with varied access and terrain



"The impact of digitalisation of health services has been profound and is expected to be even more profound in the future."

The European Commission

Ortivus



**An innovative Swedish
e-Health/MedTech company**



**HQ in Stockholm
Office in Southampton**



Listed on Nasdaq OMX



Corvanta



**An Australian company
specialising in technology for
out-of-hospital care**



Offices Australia-wide



**Part of Constellation Software
- listed on Toronto Stock
Exchange**





ortivus

CORVANTA



Healthcare innovation

Healthcare requirements



“The exchange of data and sharing of relevant information across the health ecosystem, creating a continuum of care, have proven potential to enhance health outcomes.”

The World Health Organisation

Develop the use of digital solutions

- Secure IT systems with seamless information sharing
- Advanced out of hospital care

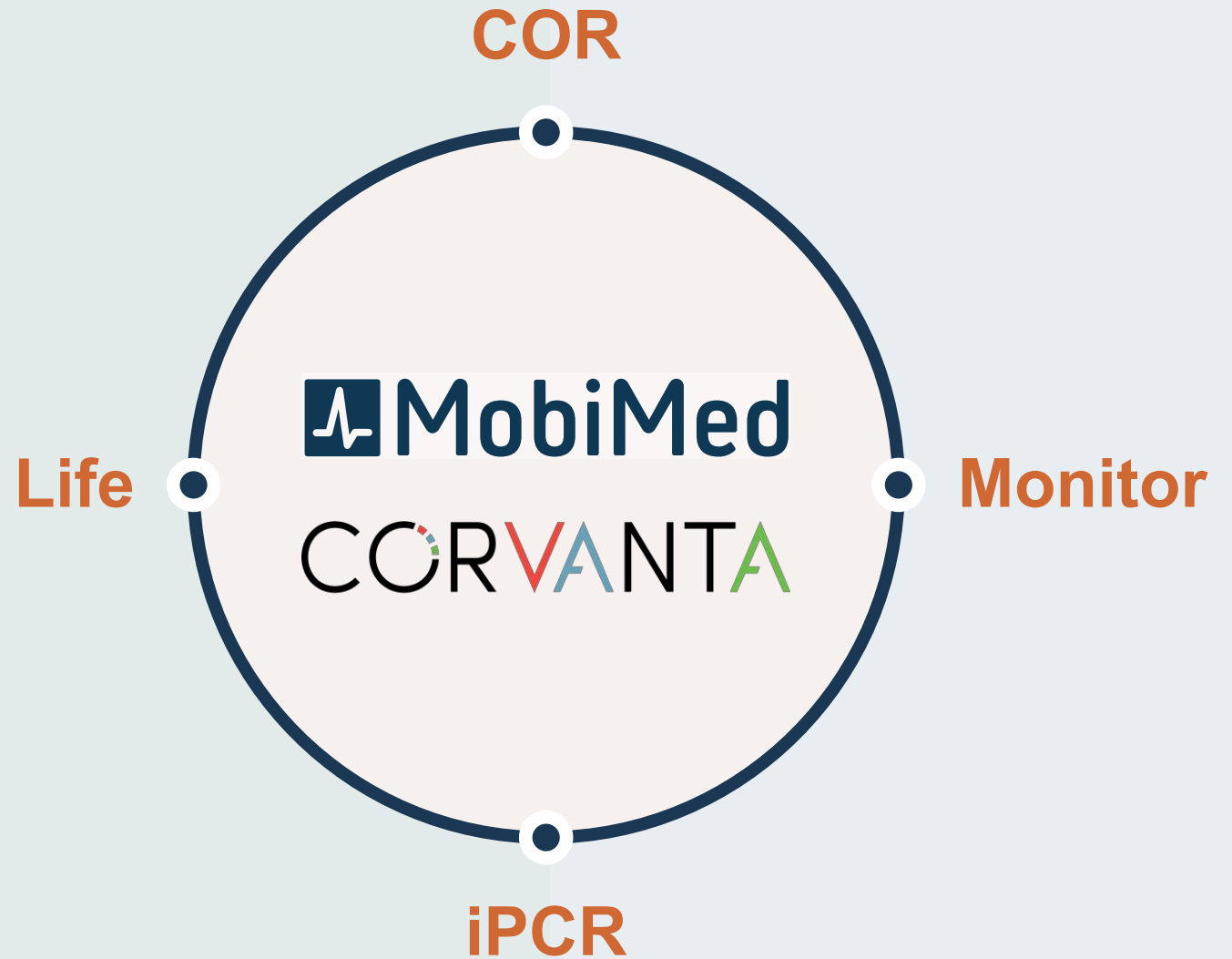
Create conditions for great collaboration between all actors in the care chain

- Updated information in real-time improves efficiency and treatment outcomes
- For a continuum of care

Innovative technology for better work efficiency

- Ergonomic, modular and user friendly
- Advanced decision support and simple documentation
- Big data to evaluate and improve organisations

Healthcare innovation



Integrated Patient Care Record



A tool for decision support and documentation



Intuitive and user friendly



Proven technology



Modular and tailored to the organisation's needs



Real time communication throughout the care chain

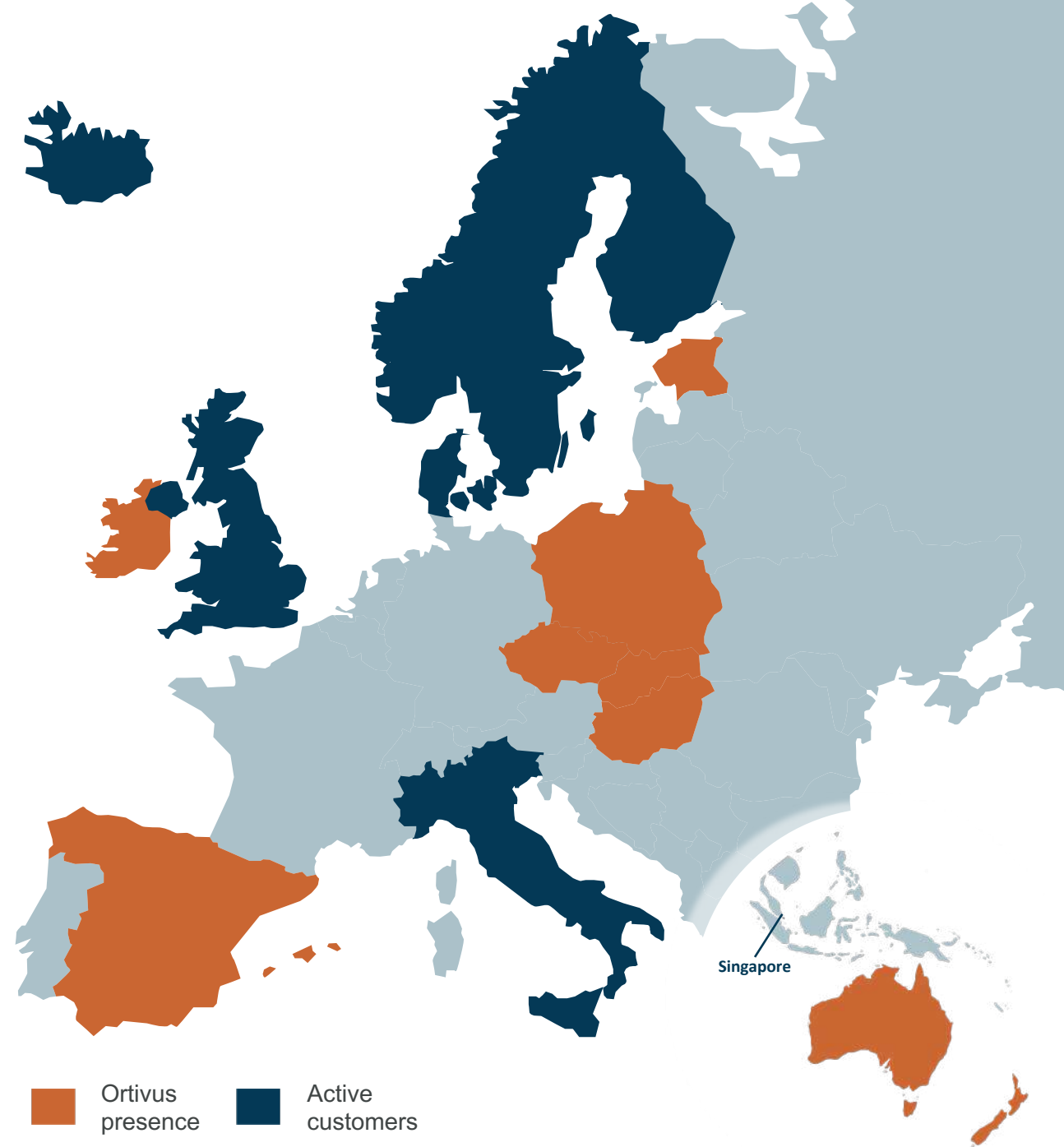


**Advanced support
for specialists**

Used by over
12,000
paramedics

Installed in over
2,700
emergency vehicles

Handle over
250,000
missions each month





ortivus

CORVANTA



Future of healthcare

Made in Sweden 

Deployed in Australia 



Made in Sweden with
in-house production and
local partners



Deployed in Australia with
local implementation,
service & support

Looking ahead

Resource management

- Increased efficiency through the use of digital tools
- Staff and fatigue management
- Ramping reduction – on scene treatment

Data use

- Big data capture
- Informed decisions reinforced by AI/ML
- Seamless transfer between care providers



Summary

Ortivirus and Corvanta are active in a growing segment

Integration is key for a Continuum of Care

Resource efficiency is a key driver in pre-hospital care

Remote monitoring is a key driver in primary care

Ortivirus and Corvanta meet healthcare challenges on a global level

HEALTHCARE INNOVATION - Intelligent Healthcare Solutions



KERRIE MCDONALD

Vaccines & Health
Policy Lead
Corporate Affairs
ASTRA ZENECA



SHAUN SEERY

Senior Vice President
Asia Pacific
ELEKTA



REIDAR GÅRDEBÄCK

Chief Executive Officer
ORTIVUS



MITCH FARQUHAR

Operations Manager
CORVANTA



MICHAEL NILSSON

Professor & Director
Centre for Rehab
Innovations
**UNIVERSITY OF
NEWCASTLE**

THANK YOU

