Sustainability for Smart Health

Conference: Digital Health Rewired
Date: Tuesday, March 12, 2024
Presentor: Dr. Piyush Mahapatra

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Agenda

1. Disclosures and Background
2. Introduction
3. Exploring Sustainable Models of Care
4. Redefining Healthcare Delivery: A Greener NHS

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Disclosures and Background

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Divisional Digital and Innovation Lead, West Hertfordshire Teaching Hospitals NHS Trust
National Innovation Fellow, National Health Service
Member, ABHI Orthopaedics and Sustainability Groups

TheAHSNNetwork NHS England NHS Innovation Accelerator

ABHI

OpenMedical

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About Open Medical

More than

170 **NHS**, HSE and private provider sites across the UK & Europe

Over

3m patient pathways

OpenMedical

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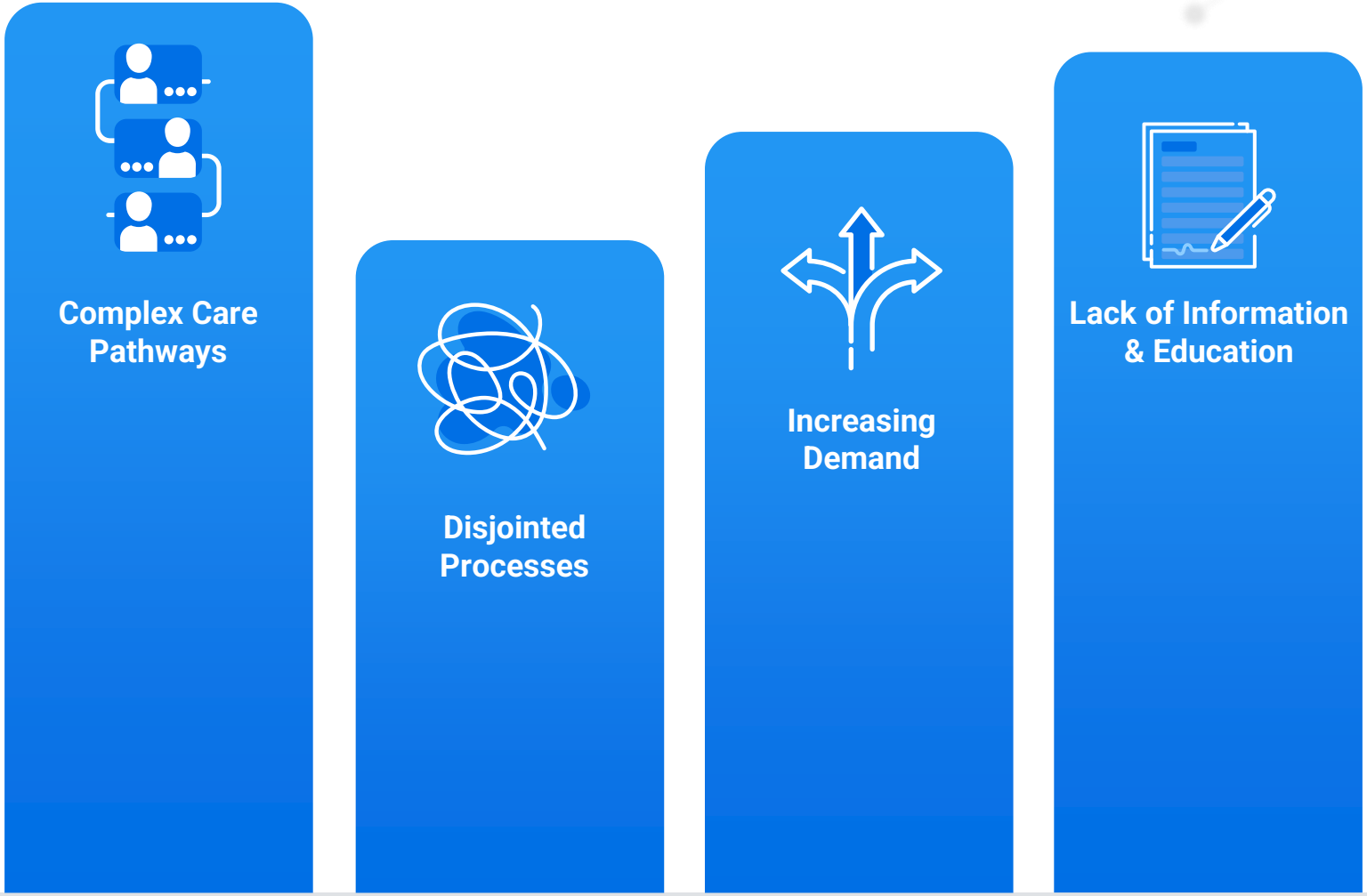
Sustainability for Smart Health



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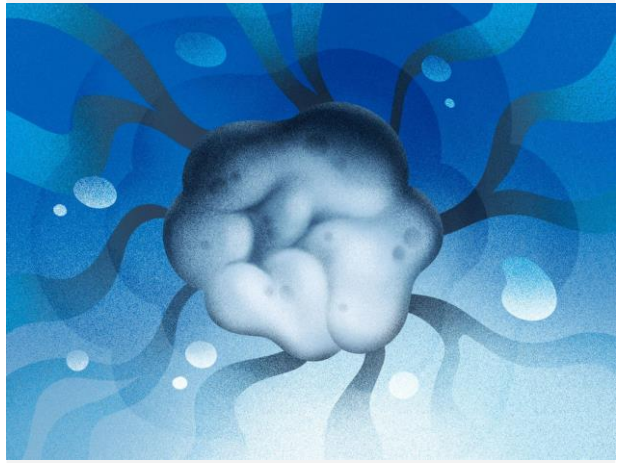
Exploring Sustainable Models of Care

Trauma

Elective Surgery

Oncology



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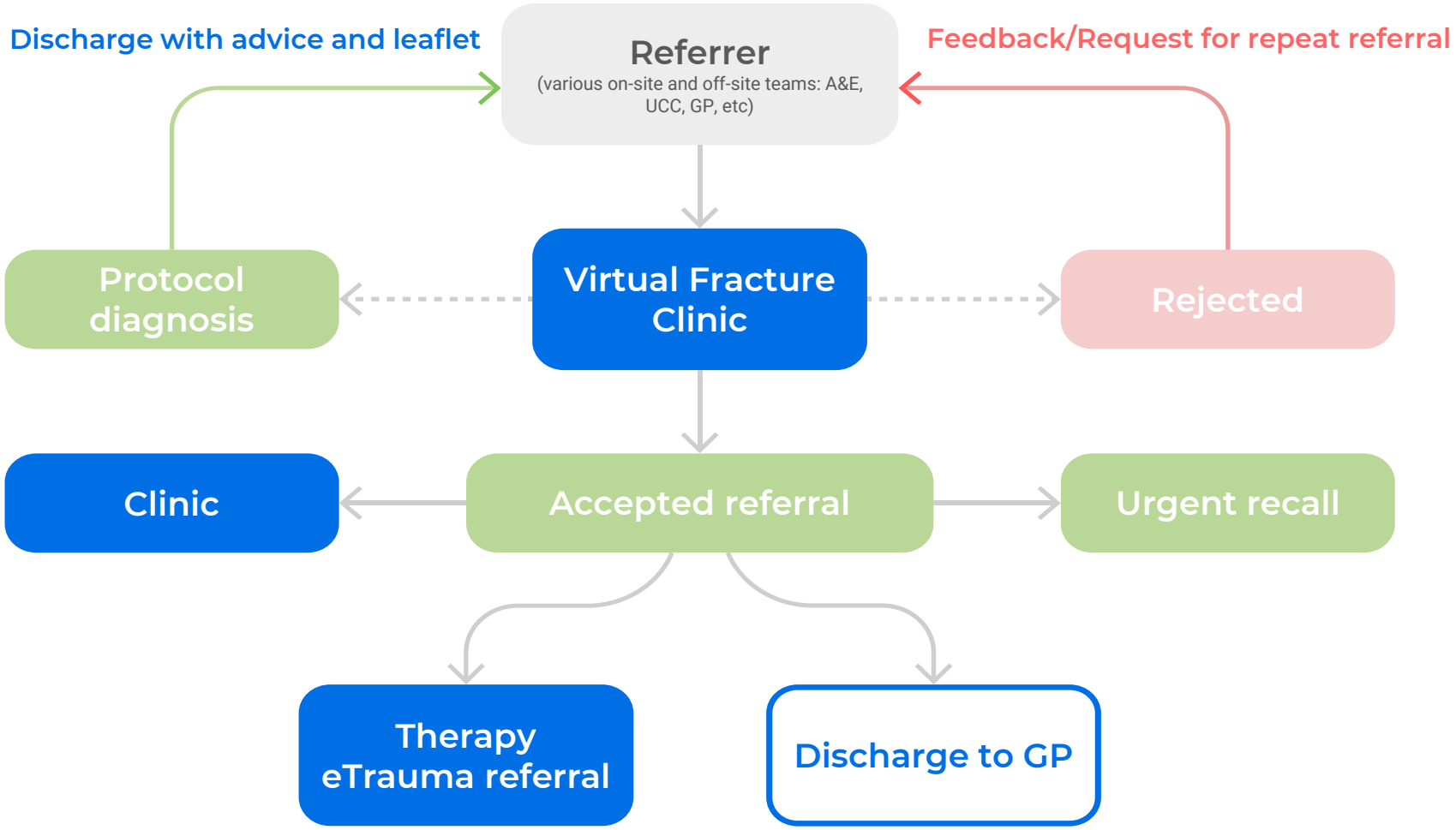
Exploring Sustainable Models of Care

Model of Care #1: Pathpoint eTrauma & Virtual Fracture Clinic (VFC)



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Exploring Sustainable Models of Care

Model of Care #1: Pathpoint eTrauma & Virtual Fracture Clinic (VFC)

In total, they saved 118,906 kg of CO2e (equivalent to driving to the moon and back)

Avoided 12,957 unnecessary patient visits

Reduced operational energy consumption (heating, cooling, etc,) saved 72,268 kg of CO2e

Reduced patient travel saved 46,164 kg of CO2e

Reduced paper use saved 474 kg of CO2e

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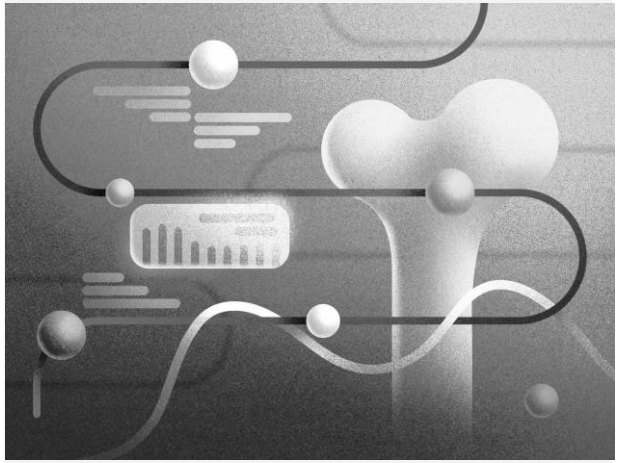
Exploring Sustainable Models of Care

Trauma



Elective Surgery

Oncology

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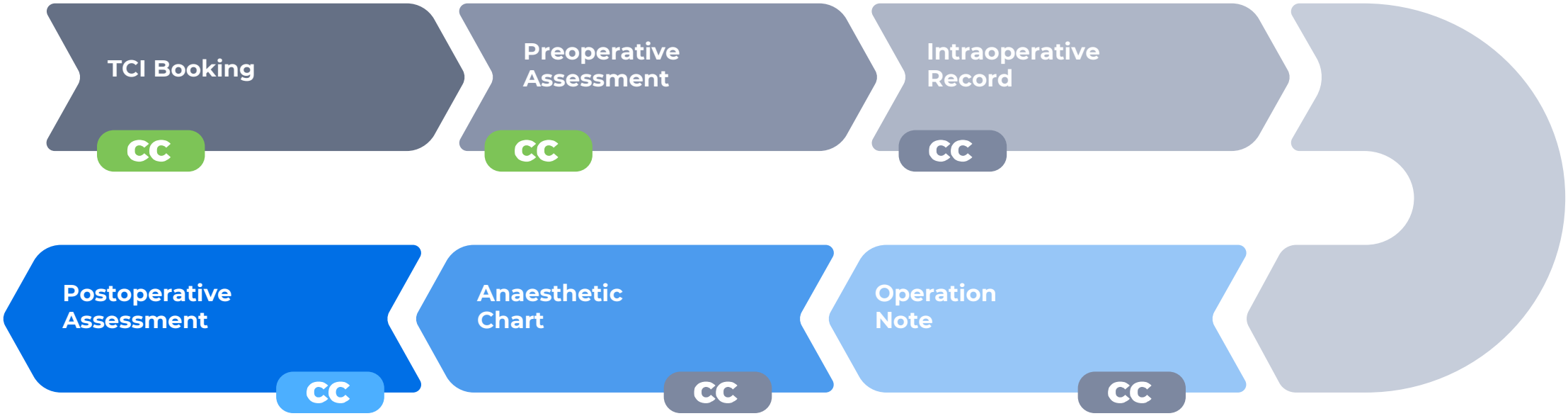
Exploring Sustainable Models of Care

Model of Care #2: Streamlined Elective Surgery



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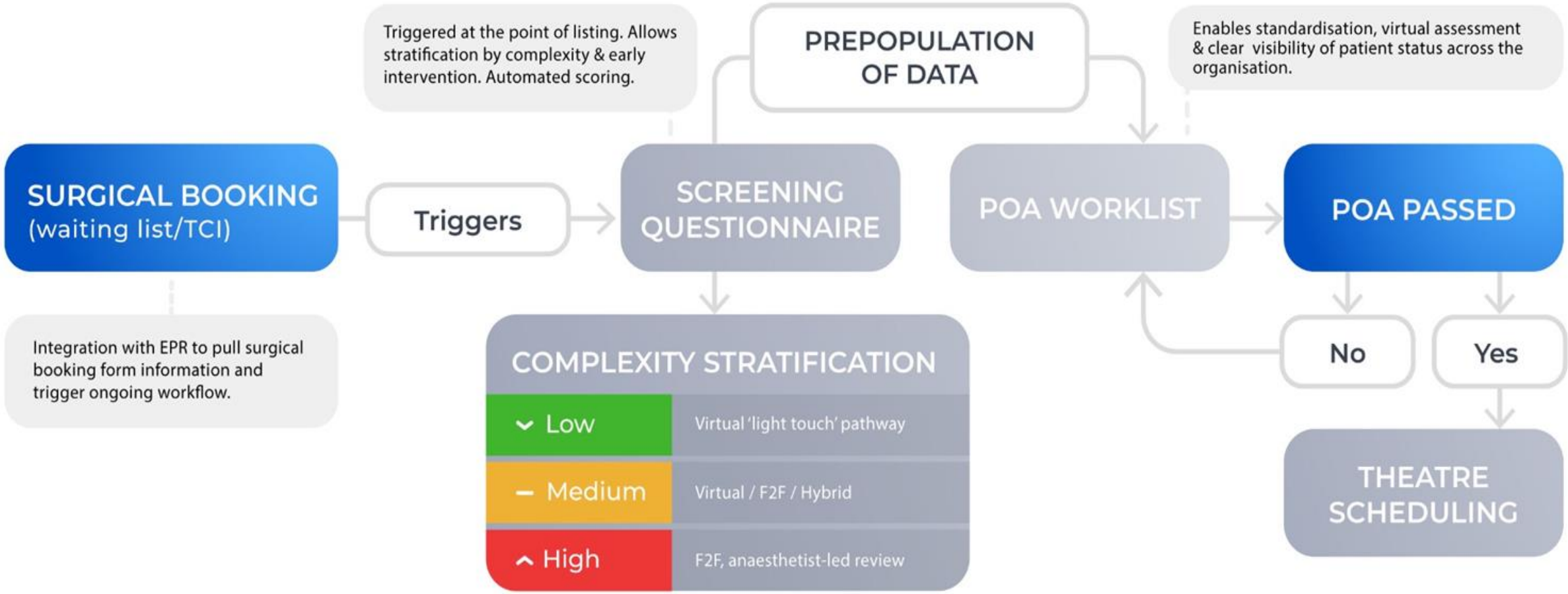
Exploring Sustainable Models of Care



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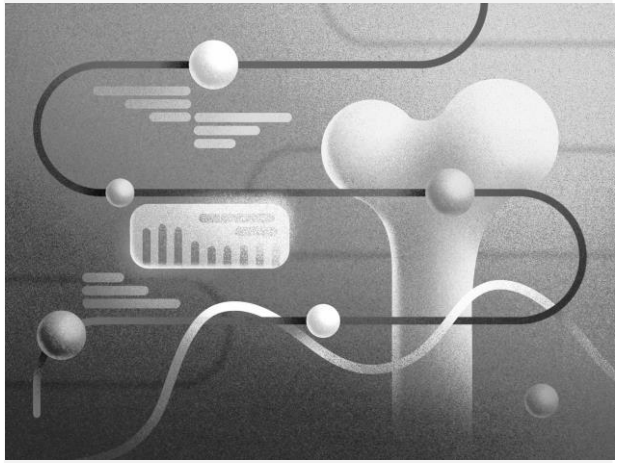
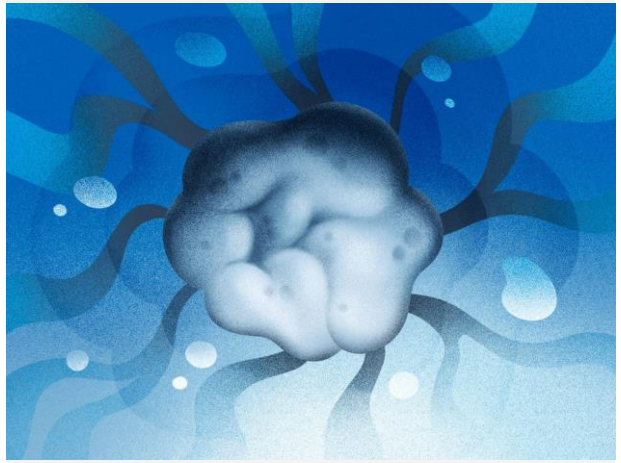
Exploring Sustainable Models of Care

Trauma



Elective Surgery

Oncology



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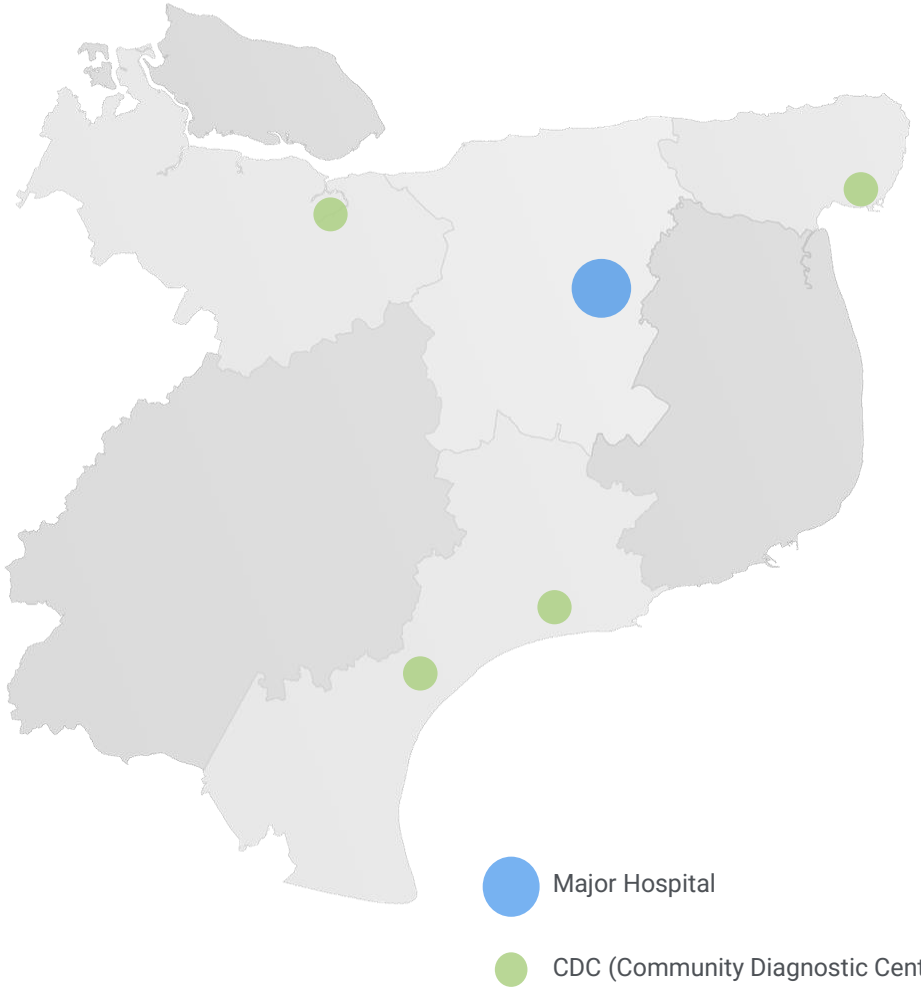
Exploring Sustainable Models of Care

Model of Care #3: Pathpoint eDerma

86% supportive

Accessible care to deprived areas through a community based model

Health equality by catering to patients of diverse sexual orientations, primary languages, and ethnic backgrounds



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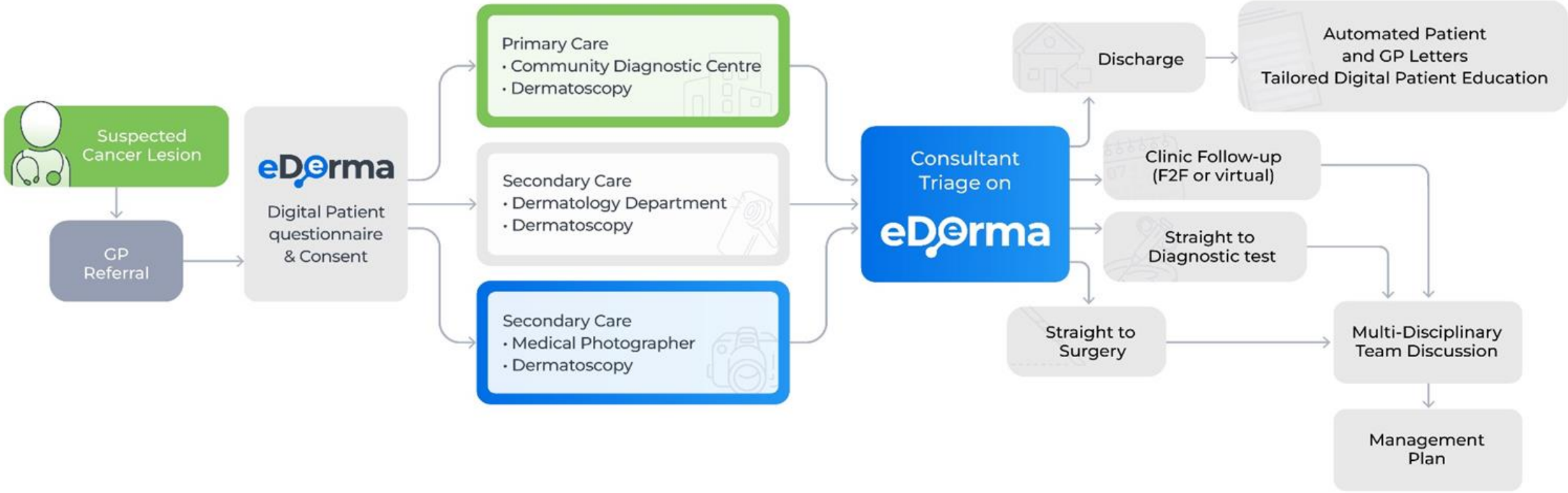
Exploring Sustainable Models of Care



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The Outcomes

Referral to Diagnosis Timeline Analyses

On average, eDerma patients were diagnosed

6.4 DAYS FASTER

than those managed without **eDerma**.

The majority of patients were diagnosed

14 DAYS FASTER

Health Economic Evaluation

£32 saved (per referral)

18% reduction in procedures

£16 million

saved / 500,000 referrals
Per annum

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Redefining Healthcare Delivery: Sustainable Care Pathways

Sustainability Principles

Measure

Promote

Enable

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Redefining Healthcare Delivery: Sustainable Care Pathways

Measure

Automate

NHS Digital Dashboards

Procurement Data

Activity / Operational Data

Technology / Digital Systems

Health Sector Led Groups

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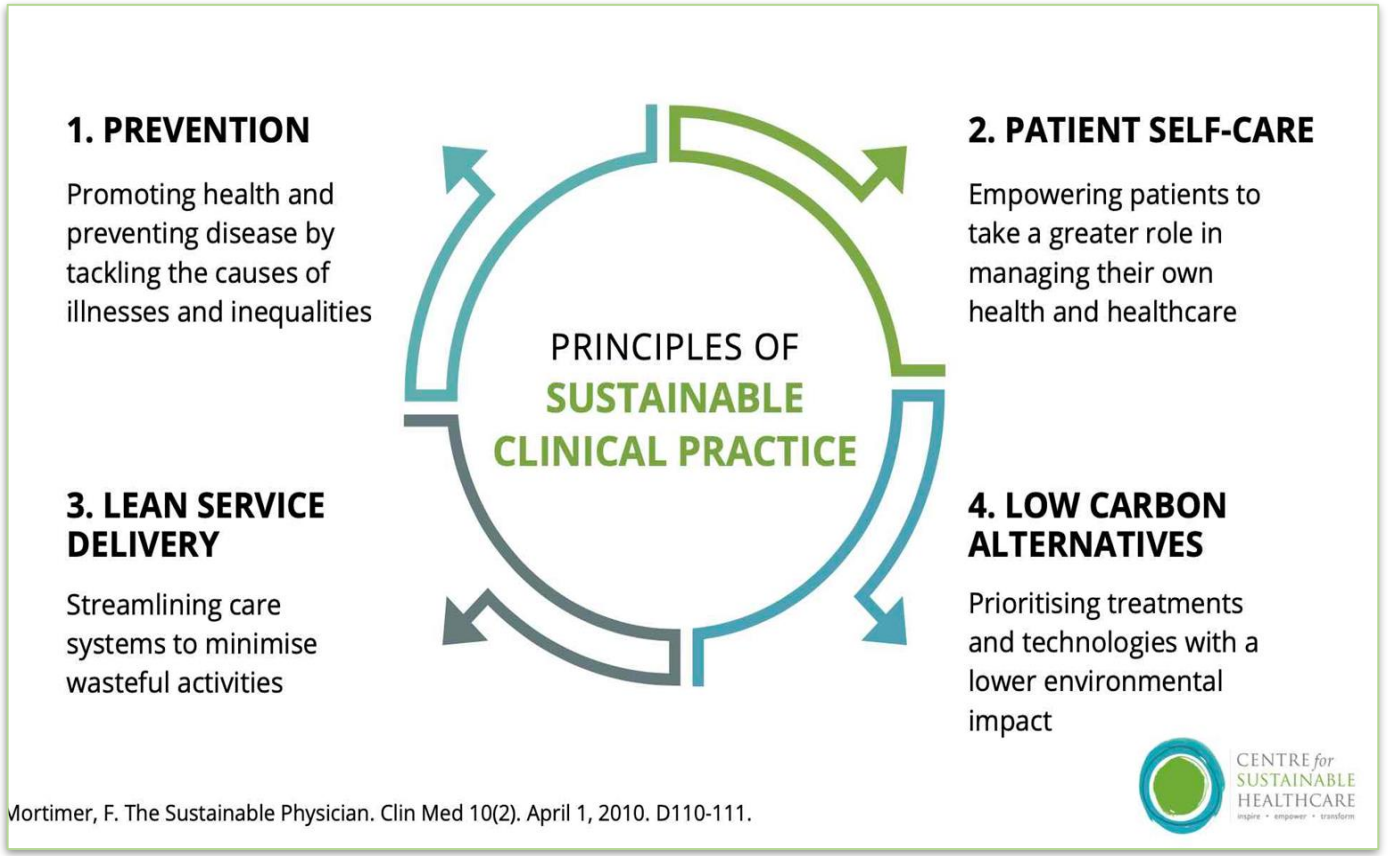
Redefining Healthcare Delivery: Sustainable Care Pathways

Promote

SusQI Principles

Utilise your workforce



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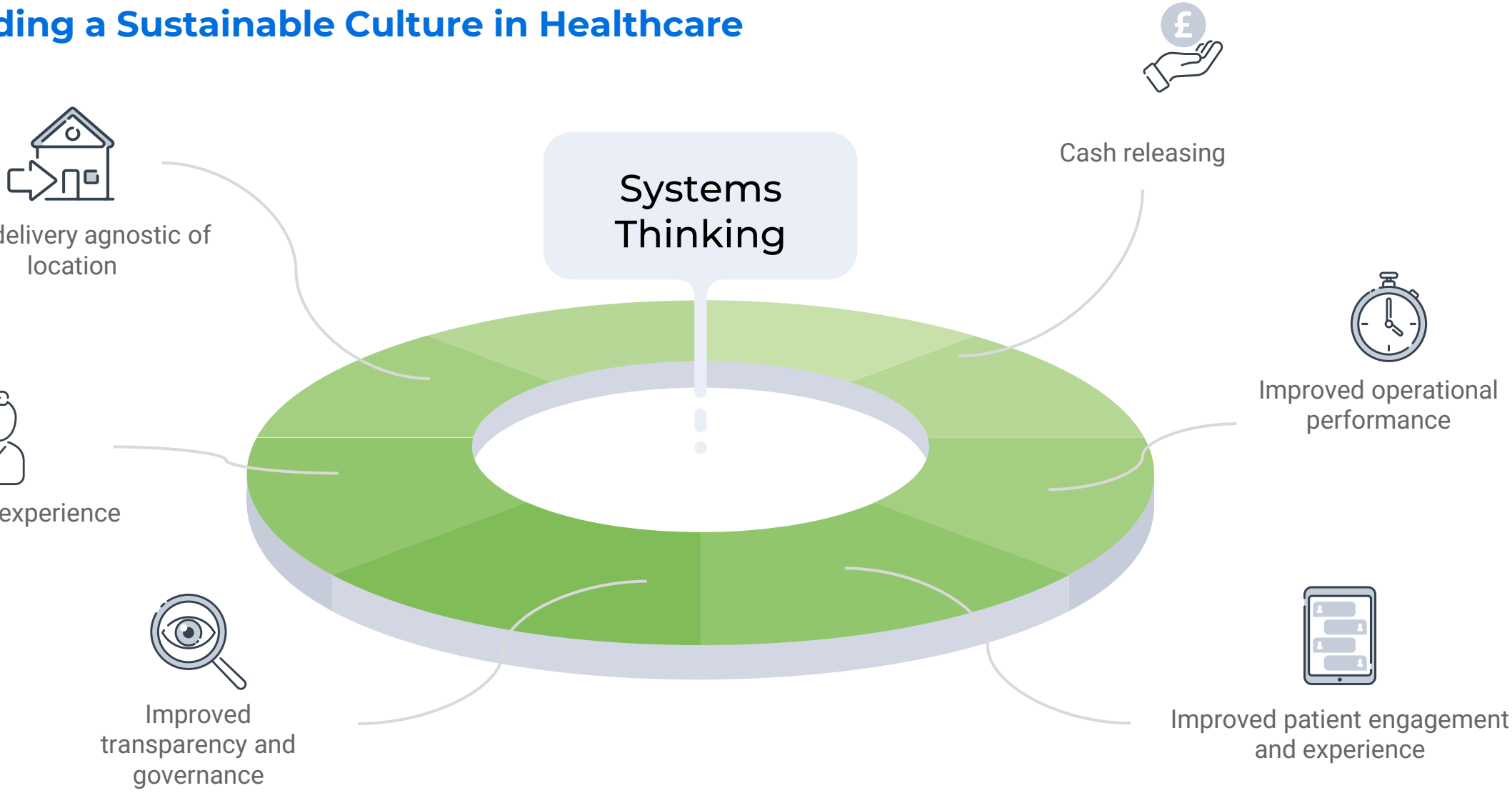
Redefining Healthcare Delivery: Sustainable Care Pathways

Embedding a Sustainable Culture in Healthcare



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Redefining Healthcare Delivery: Sustainable Care Pathways

Enable

Help and support out there!

Use the right technologies

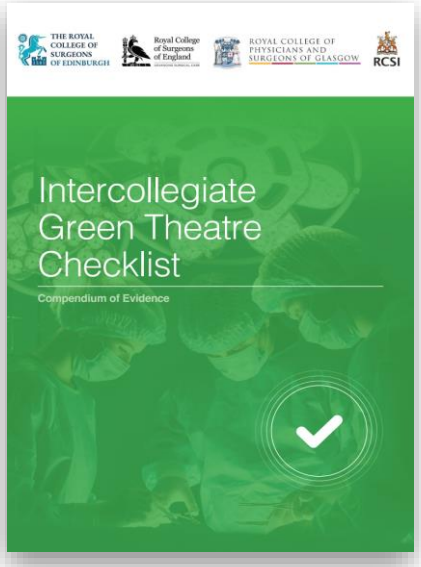
Local, regional, and national

Industry

Third sector

Centre for Sustainable Healthcare

Sustainable Healthcare Coalition



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Redefining Healthcare Delivery: Sustainable Care Pathways

Measure your impact

Promote sustainable decision making by design

Embrace digital health technologies as an enabler

Implement and promote sustainable practices

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Thank you!

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