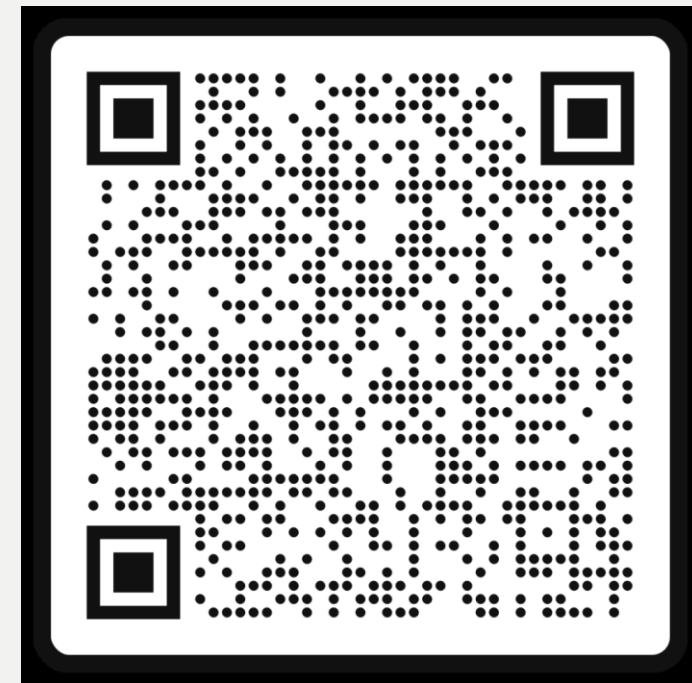




Welcome to the NHS Hospitals Interoperability Summit!

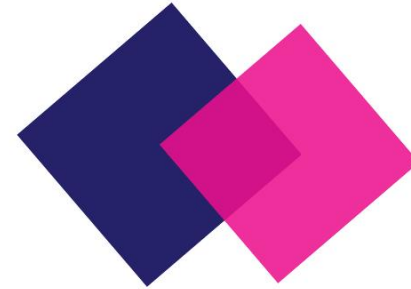


26th February 2025
15Hatfields Conference Centre,
Chadwick Court, London, SE1 8DJ



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Chair Opening Address



Douglas Hamandishe

Chief Digital Officer/Broadcaster and Presenter
Context Heath and Centric Health Media



CONVENZIS

Panel Discussion



Douglas Hamandishe
Chief Digital Officer/Broadcaster
and Presenter, Context Health
and Centric Health Media



Lee Rickles
Director and Chief
Information Officer, Yorkshire
& Humber



Andrew Raynes
CIO and SIRO
Royal Papworth Hospital NHS
Foundation Trust



Dr Tahreema N Matin
Associate Medical Director & Consultant
Radiologist Workforce, Training &
Education Directorate, NHS England



Mark Crannage
Associate Director of BI and Digital
Cambridgeshire Community Services
NHS Trust



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Main Sponsor



ABBYY



Main Sponsor



Karen Gorman
Head of Healthcare
SS&C Blue Prism

ABBYY

Revolutionising NHS Document Processing: How Intelligent Automation Unlocks Efficiency and Reduces Admin Burden.

Amir Behfar

UK & Ireland Sales Director

26/02/2025

What is IDP?

"IDP software solutions blend the power of AI technologies to efficiently process all types of documents and feed the output into downstream applications." – **Everest Group, 2022**

In Simple Terms:

- IDP automates the **extraction, classification, and validation** of data from documents.
- Uses **AI, ML, and NLP** to improve accuracy and efficiency over time.
- Reduces manual processing and enables seamless data flow into NHS systems.

We are **ABBYY**

- ✓ Automate **document-heavy processes** for improved efficiency and accuracy.
- ✓ 35+ years of AI & automation expertise
- ✓ Market leader in IDP
- ✓ Thousands of organisations, including NHS
- ✓ Works seamlessly with NHS systems

Our Mission: To enable organisations to turn documents into intelligent, actionable data that fuels digital transformation.



ABBYY is a recognized market leader

#1 IDP provider
globally

10 Analyst firms name
ABBYY a Leader in IDP

6 Analyst firms name ABBYY a Leader
in Process Mining – top challenger

Gartner **FORRESTER®** **IDC**

Everest Group® **NelsonHall**
TRANSFORM THROUGH INSIGHT

The New York Times ***ISG®**

Forbes **The Washington Post**

FORTUNE

World's leading companies trust ABBYY



10,000+
Customers
worldwide

Fortune 500
companies are ABBYY
customers

ABBYY

Why IDP Matters for the NHS?

Challenges in NHS Document Processing:

- High volume of unstructured documents (invoices, referrals, medical forms).
- Manual data entry leads to **delays, errors, and staff burnout**.
- Need for **seamless interoperability** between different hospital IT systems.

💡 How **ABBYY** Helps:

- ✓ Automates document processing across NHS workflows.
- ✓ Reduces admin burden so staff can focus on **patient care**.
- ✓ Helps with seamless **data exchange** across multiple systems

Manchester University NHS Foundation Trust

The **Challenge**

NHS 75

Manchester University
NHS Foundation Trust

- Processes **300,000 invoices/year** from **6,000 suppliers**.
- Previous IDP solution caused **manual effort due to complexity**.
- Needed a solution that:
 - ✓ Accurately extracts invoice data.
 - ✓ Passes reliable data to RPA for ERP integration.
 - ✓ Reduces invoice validation and training time.







How **ABBYY** Helped – The **Solution**

- Extracts invoice data **with high accuracy** even from complex documents.
- **Seamless integration** with RPA and ERP.
- Enables **low-code** automation using pre-built extraction models.
- **Machine learning continuously improves accuracy** and reduces validation time.



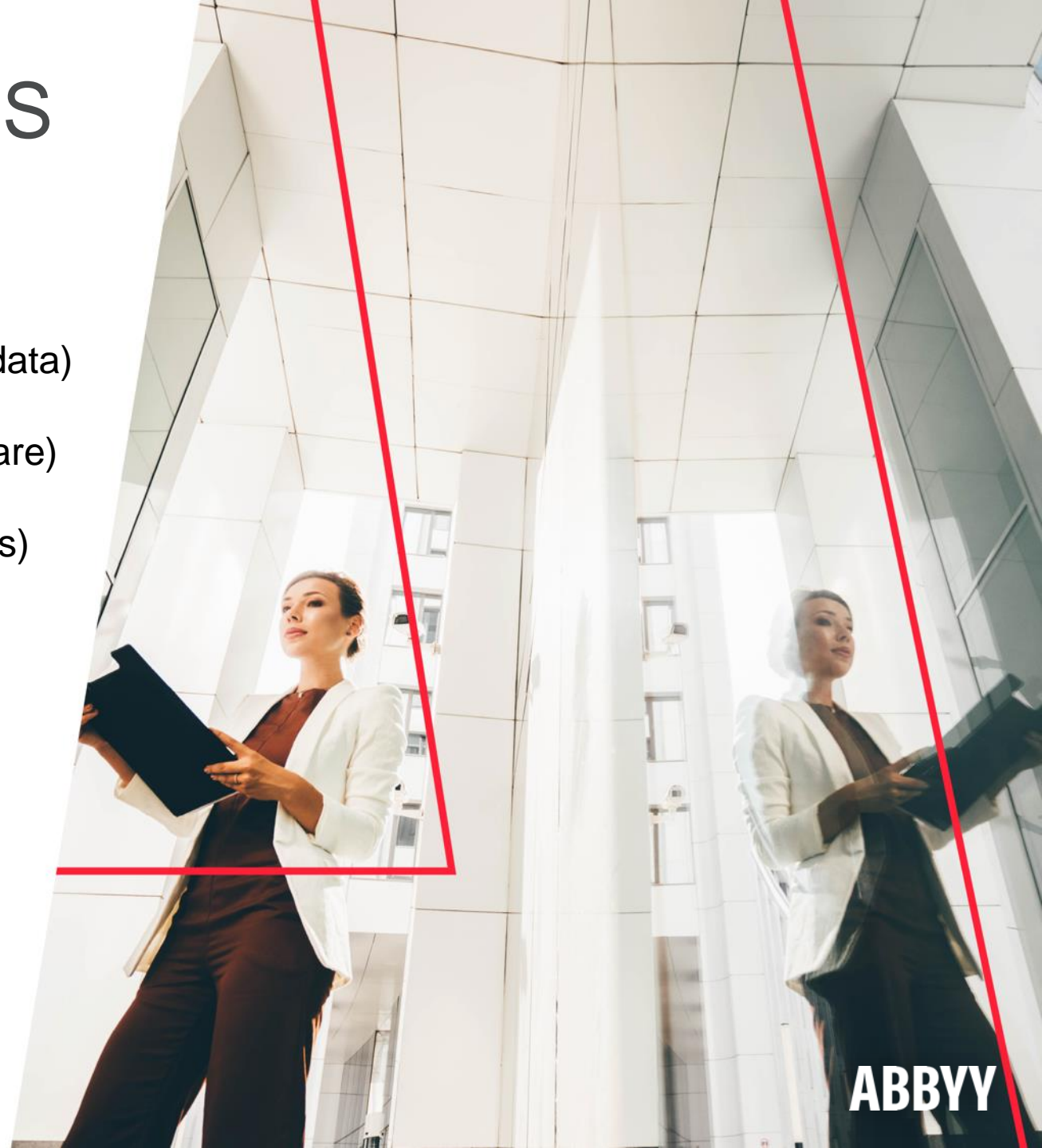
VALUE delivered

-  **Solution rolled out in weeks, not months.**
 -  **Reduced processing time, payment risks, and reconciliations.**
 -  **Freed up staff time.**
 -  **Continuous Machine learning.**
-

The Future of **IDP** in the NHS

Expanding IDP beyond finance & procurement:

- **Patient record management** (faster access to critical data)
 - **Referral processing** (reducing bottlenecks in patient care)
 - **Eye Voucher document** (processing handwritten forms)
-



ABBYY



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Refreshments & Networking



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Register your Interest





Chair Morning Reflection



Douglas Hamandishe

Chief Digital Officer/Broadcaster and Presenter
Context Heath and Centric Health Media



Case Study





Case Study



Paul Walsh
Head of Technical Authority
Norfolk Community Health
and Care Trust



Ben Reynish
Head of Sales
Qolcom a Bechtel Group
Company

Digital Blueprint for Cloud Infrastructure

Simplifying the deployment,
management and transformation of
digital **communication** in **healthcare**

Paul Walsh

Head of Technical Authority,
Norfolk Community Health and Care Trust

Ben Reynish

Head of Sales, Qolcom
a Bechtle Group Company





Accessing
Patient Data



Finding
Medical Assets



Healthy Spaces (Building &
Room Health)



Visibility and Security of
Medical Devices

NHS
England

Search

About us Our work Commissioning Get involved

Digital transformation
Connected digital systems
Global Digital Exemplars

Home > Digital transformation > Connected digital systems > Global Digital Exemplars > Global Digital Exemplar Blueprints

Global Digital Exemplar Blueprints



NHS
England

Digital Services Data Cyber Developer News About

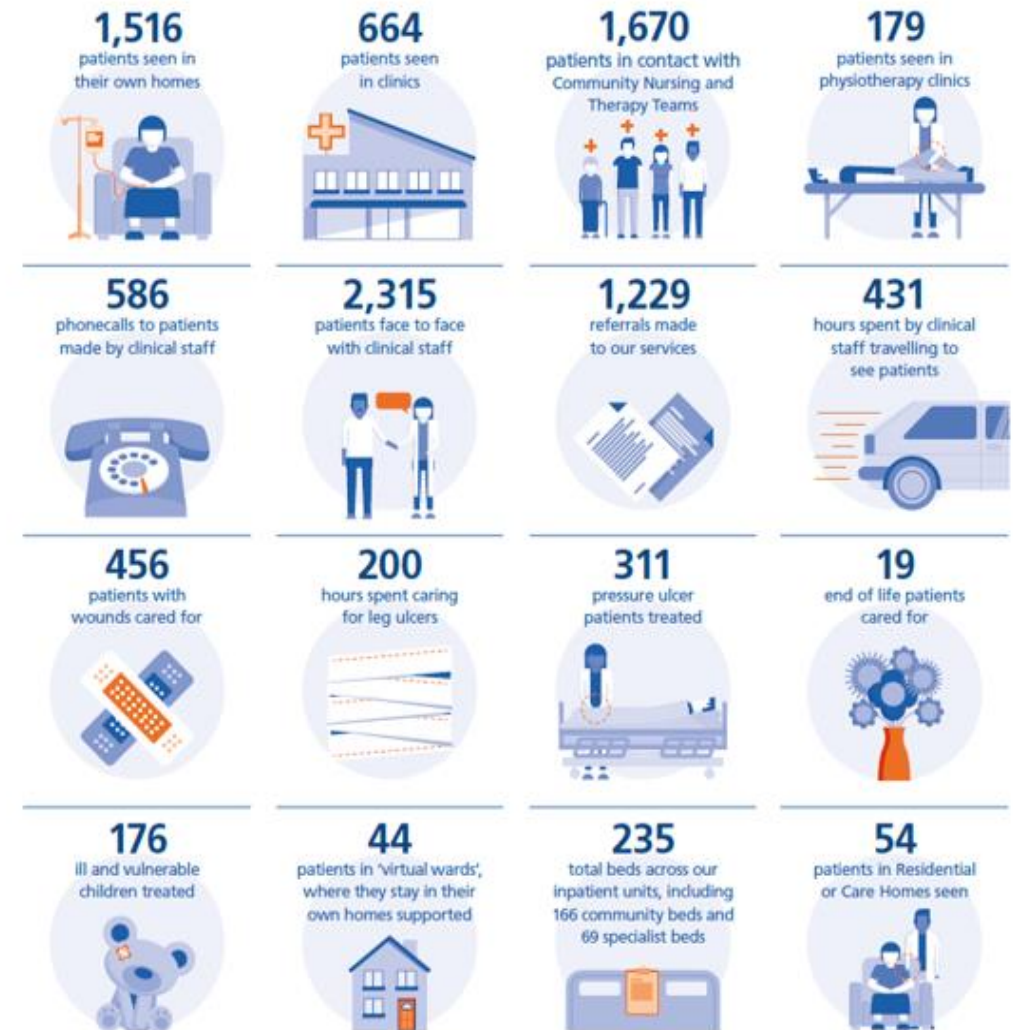
NHS Digital > Services > Future Connectivity > Connectivity hub > Advice and guidance > **RTLS Guidance**

Real Time Location Services (RTLS) guidance

Date Published: 16 July 2024

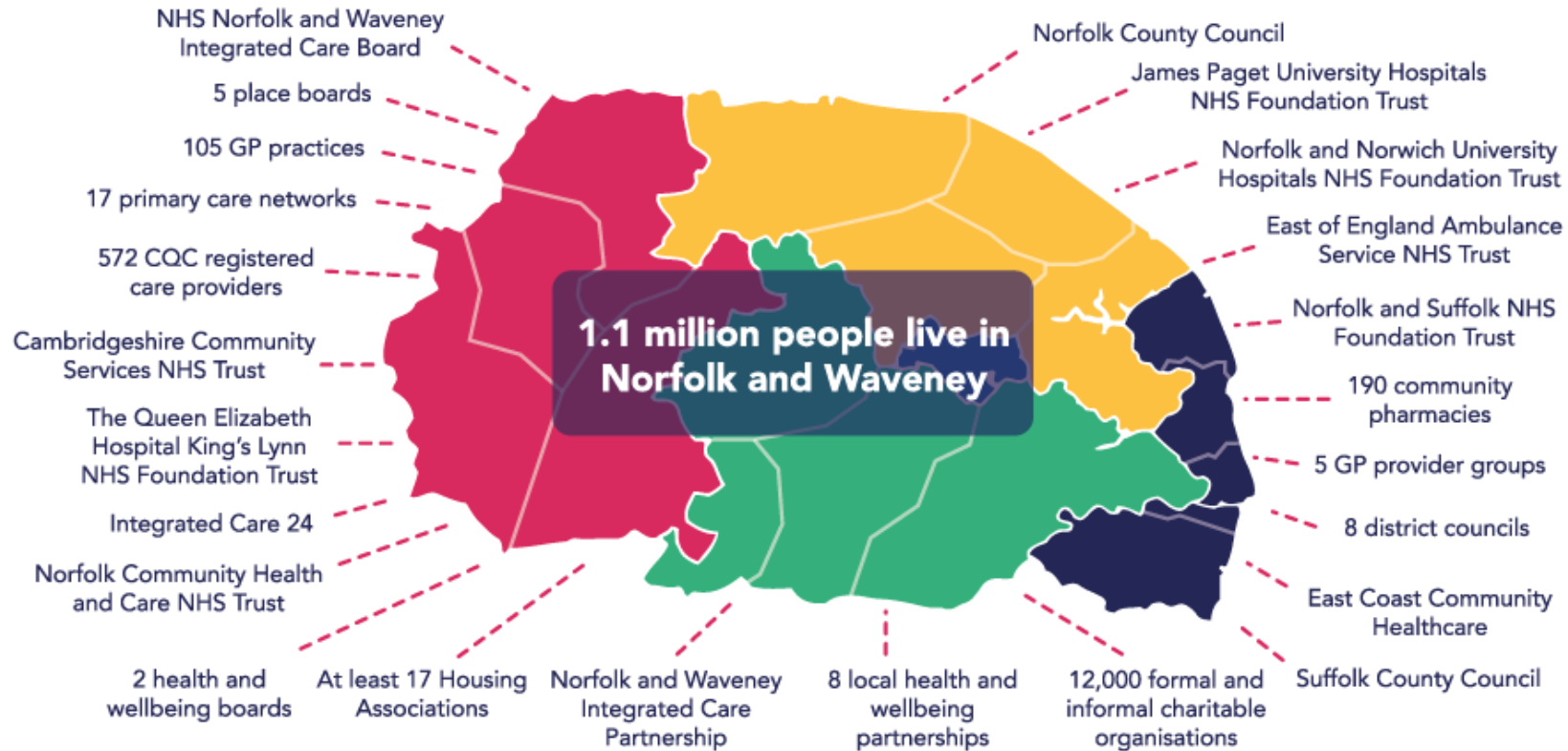
About us

- NCH&C provides community-based NHS health & care at more than 70 different service locations across Norfolk, serving a population of over 900,000 people
- Over 3000 + members of staff work at our trust
- Over 80% of our staff are healthcare professionals such as nurses, doctors, dentists and AHPs
- NCH&C was the first standalone NHS Community Trust in the UK to achieve an 'Outstanding' rating from the Care Quality Commission (CQC)
- Partnership with Qolcom

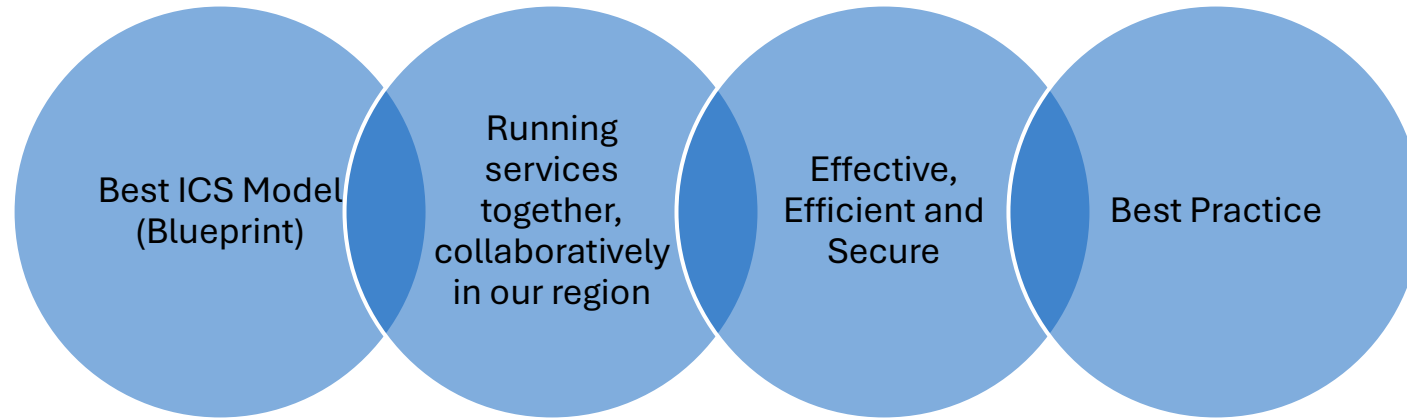


About us – Norfolk and Waveney ICS

Norfolk & Waveney Integrated Care System



Joint Vision



“Enabling a pioneering digital blueprint which provides a common modern infrastructure for seamless connectivity for customers across Norfolk and Waveney...”

Joint Vision

Blueprint

SD-WAN

Flexible application
driven network for
modern services

Single Authentication

Supports simpler
user experience

Wi-Fi

Cloud-integrated
Wi-Fi for anyone

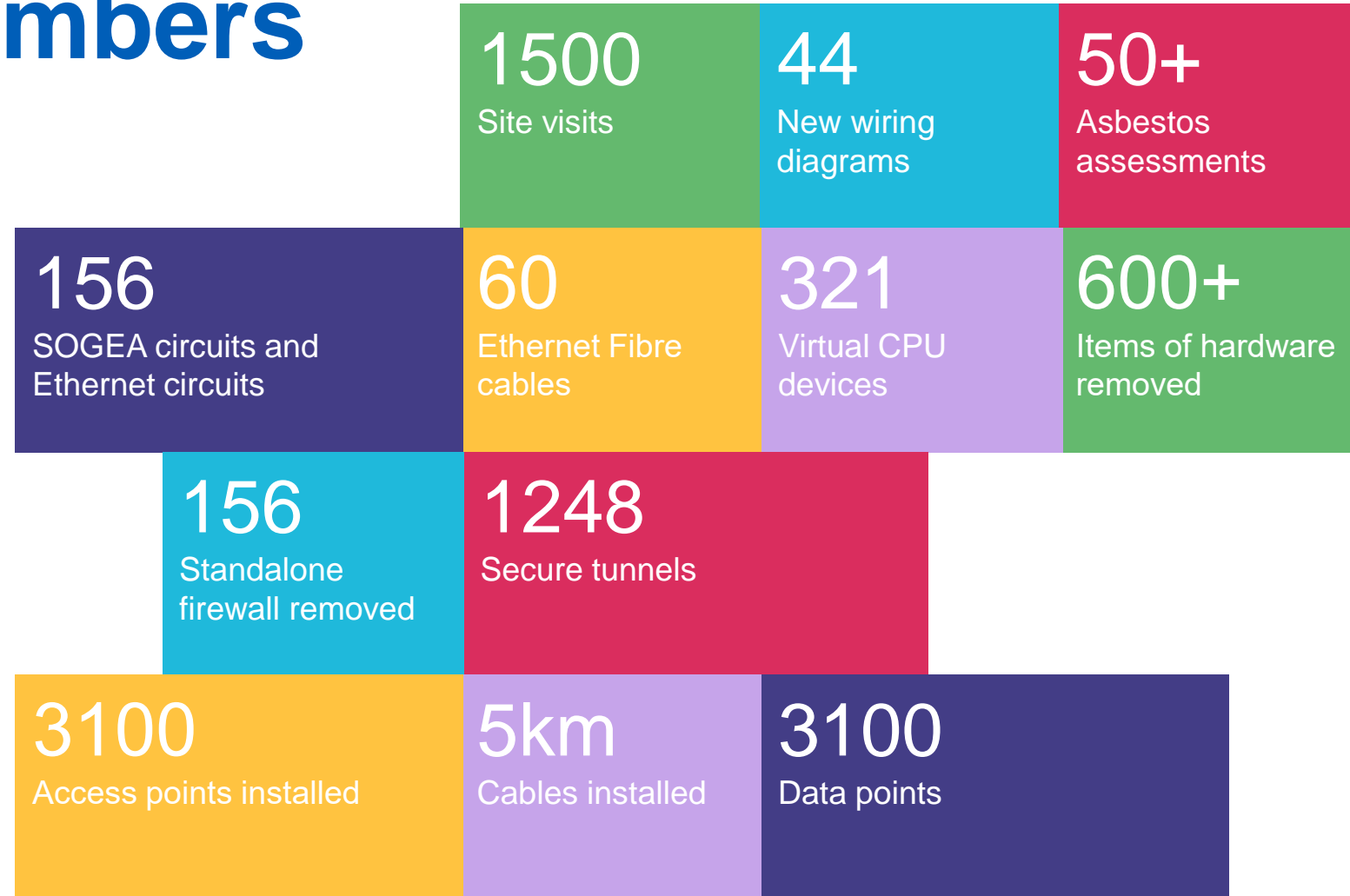
Firewalls

SD-WAN
integrated firewalls
for Zero Trust
Architecture (ZTA)

HSCN

Access supplied
through highly-
resilient
geographically
dispersed hub sites

By the numbers



Operational & Clinical benefits



Improved access to patient data supporting digital transformation



Adoption of M365



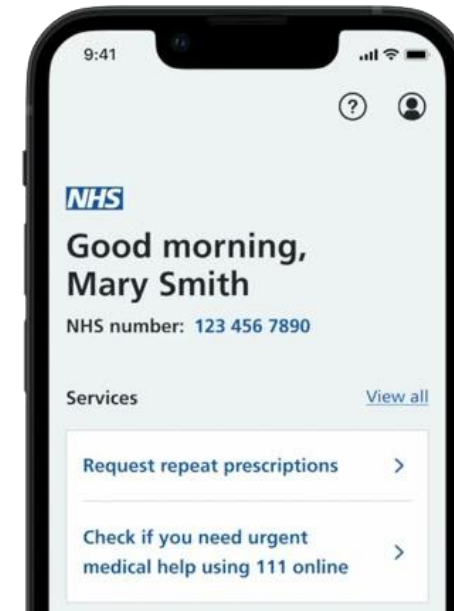
Image processing, use of apps and mobile devices through Wi-Fi



EPR Systems access



Patient Benefits



Operational & Clinical benefits



Supports the Primary Care Access Recovery Programme and adoption of digital tools to deliver the Modern General Practice model



SD WAN provides a reliable network solution for efficient access to patient data across all primary care sites in Norfolk and Waveney



Improved network performance and resilience the SD WAN solution has led to better productivity in practices - "I didn't realise EMIS could be so fast"



Improved security by replacing out of date firewalls with a new cloud based virtual firewall solution



SD-WAN offers a unified network solution for fixed and Wi-Fi connectivity, enabling a single domain and single sign-on across Norfolk and Waveney primary care.

Some clinicians currently have 8+ different logins due to working across multiple sites



The Wi-Fi solution is fully integrated into the SD-WAN for complete site coverage.

- Mobile access for staff and patients, including phone coverage in areas with weak 4G signals.
- Govroam allows staff from other NHS and government organizations to access IT and patient care systems seamlessly.

NHS
England

Digital Services Data Cyber Developer News About 🔍

[NHS Digital](#) > [Services](#) > [Future Connectivity](#) > **Connectivity hub**

Connectivity Hub

Connectivity has an increasingly important role to play in delivering digitally mature health services and NHS organisations must make plans to ensure digital transformation is not hindered by poor connectivity.



NHS
England

Digital Services Data Cyber Developer News About 🔍

[NHS Digital](#) > [Services](#) > [Future Connectivity](#) > [Connectivity hub](#) > [Advice and guidance](#) > **RTLS Guidance**

Real Time Location Services (RTLS) guidance

Date Published: 16 July 2024

Thank you



Q&A



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Case Study





Oxford University Hospitals
NHS Foundation Trust

Enhancing Healthcare Data Integration and Research

Telefónica Tech UK&I

Oxford University Hospitals

telefonicatech.uk

A decorative graphic consisting of a white circle, a blue circle, and a blue circle with a white border, arranged in a cluster. The background features a blue gradient with a pattern of white dots and lines, resembling a data visualization or network structure.

HARNESSING TECHNOLOGY.
ADVANCING BUSINESS.
ENHANCING LIVES.



Improving Patient Care

Introduction

Chris Uren

Public Sector Sales Director
Telefónica Tech UK&I

A BETTER WORLD

Solving our customers' most *complex challenges*

We believe in building a better world through secure digital enablement, focusing on solving our customers' most complex challenges with our comprehensive end-to-end solutions.

Our mission is to guide them confidently through their digital transformation, ensuring their success in an evolving digital world.

Through Data & AI, Cyber Security, Cloud, Business Applications, and digital workplace solutions, we create a positive impact for our customers and the community.



DATA & AI

Visualising and harnessing the power of data and AI, we enable data-driven decisions and transformation.



CYBER SECURITY

Driving structured cyber security resilience in a complex digital landscape, we provide a secure and cost-effective posture.



CLOUD

Leveraging the latest technologies, we provide digital infrastructure that empowers and supports our customers on their cloud journey.



BUSINESS APPLICATIONS

Harnessing the power of the Microsoft ecosystem, we solve complex business problems and provide revolutionary digital transformation.



DIGITAL WORKPLACE

Enabling hybrid working on secure and sustainable devices, we embrace automation and provide outstanding user experience.



Data & AI

Data-driven digital transformation

Helping organisations visualise and harness the power of data

Whether it means designing an analytics or data governance strategy, building and evolving a data and AI platform, or managing a data and analytics platform for our customers, we are a data & AI partner that organisations can rely on to keep them effortlessly at the cutting edge, no matter how fast technology evolves.

Data-first culture is built on more than just technology. People, guardianship, capabilities and accessibility are core to successful data programmes. We offer transformational consultancy to drive adoption and fuel your business with data.





Improving Patient Care

Thames Valley & Surrey Secure Data Environment

Kerrie Woods
TVS SDE Programme Director



Oxford University Hospitals
NHS Foundation Trust



Thames Valley & Surrey

SECURE DATA
ENVIRONMENT

Part of the
**NHS Research Secure Data
Environment Network**

TVS SDE Overview NHS Hospitals Interoperability Summit 2025

Kerrie Woods
Director

Context



Department
of Health &
Social Care

Policy paper

Data saves lives: reshaping health and social care with data

Updated 15 June 2022

In secure data environments, access to data is granted [...] in a controlled and recorded manner.

We will be mandating the use of secure data environments for NHS data

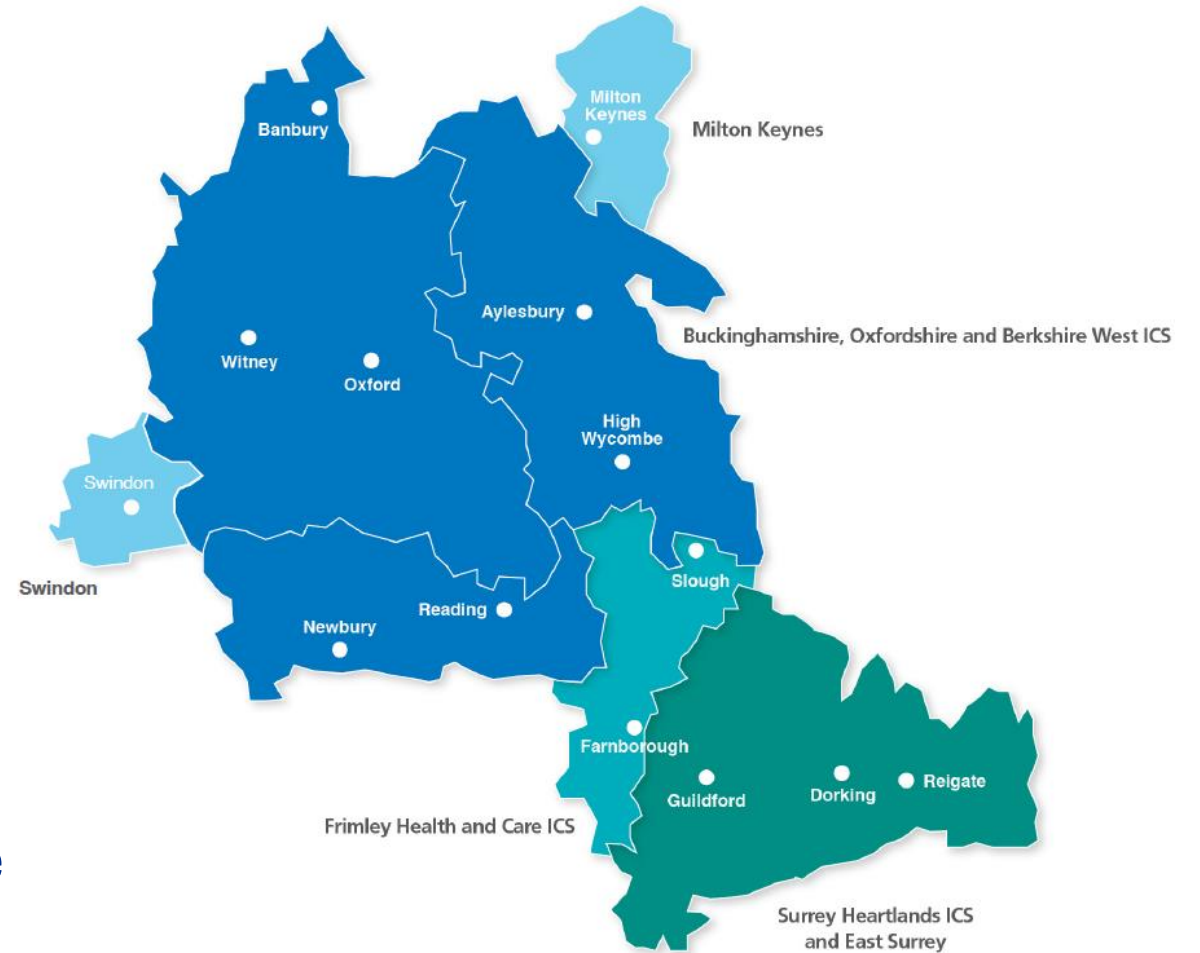


Secure Data Environments:

E	England	POPULATION 57m
EE	East of England	POPULATION 6.6m
EM	East Midlands	POPULATION 5.1m
KMS	Kent, Medway & Sussex	POPULATION 3.8m
L	London	POPULATION 10.5m
NENC	North East and North Cumbria	POPULATION 3.2m
NW	North West	POPULATION 7.3m
SW	South West	POPULATION 5.2m
TVS	Thames Valley & Surrey	POPULATION 3.9m
W	Wessex	POPULATION 2.8m
WM	West Midlands	POPULATION 6.2m
YH	Yorkshire & Humber	POPULATION 5.9m

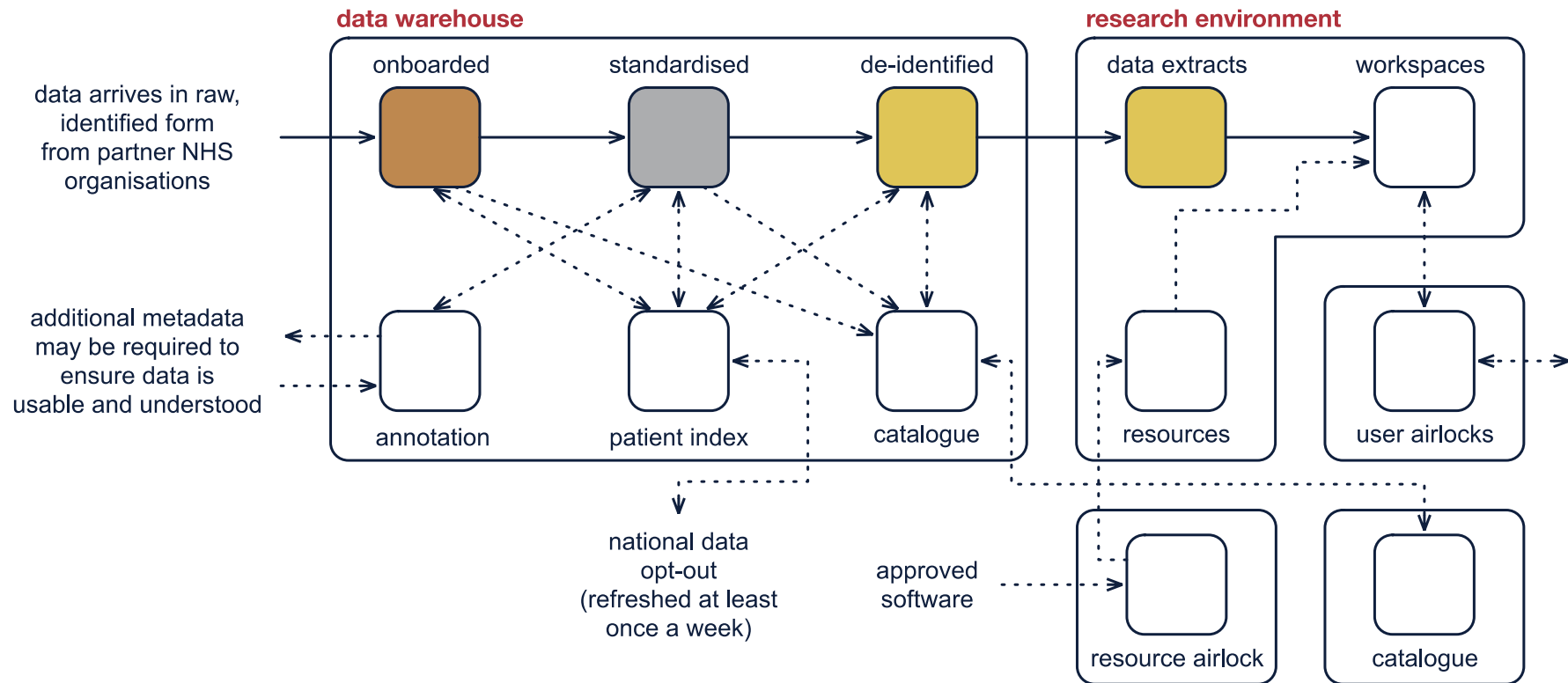
TVS

- Buckinghamshire, Oxfordshire, and Berkshire West ICS
- Frimley Healthcare ICS
- Surrey Heartlands ICS
- Milton Keynes University Hospital
- Great Western Hospital
- South Central Ambulance Service
- South East Coast Ambulance Service



Achievements and enablers

- Obtained
 - legal approval for transfer of raw data (Section 251, HRA CAG)
 - ethical approval for data access process (HRA-affiliated REC)
- Agreed (with NHS partners)
 - joint controllership
 - value assessment framework, 'value return'
- Established
 - services and access review committee
 - community of practice (PPPIE)
- Built tools to support
 - metadata discovery
 - automated access request process with built-in explorer function
 - data delivery and reporting



Gold

- Gold A
 - De-identified, partial copies of original tables
 - Additional columns with extracted features
- Gold B
 - Unified tables, merging data from different providers
 - Reflecting clinical data standards
- Gold C
 - Disease-specific data marts with additional, derived data points
 - Reflecting research data standards

The Technology

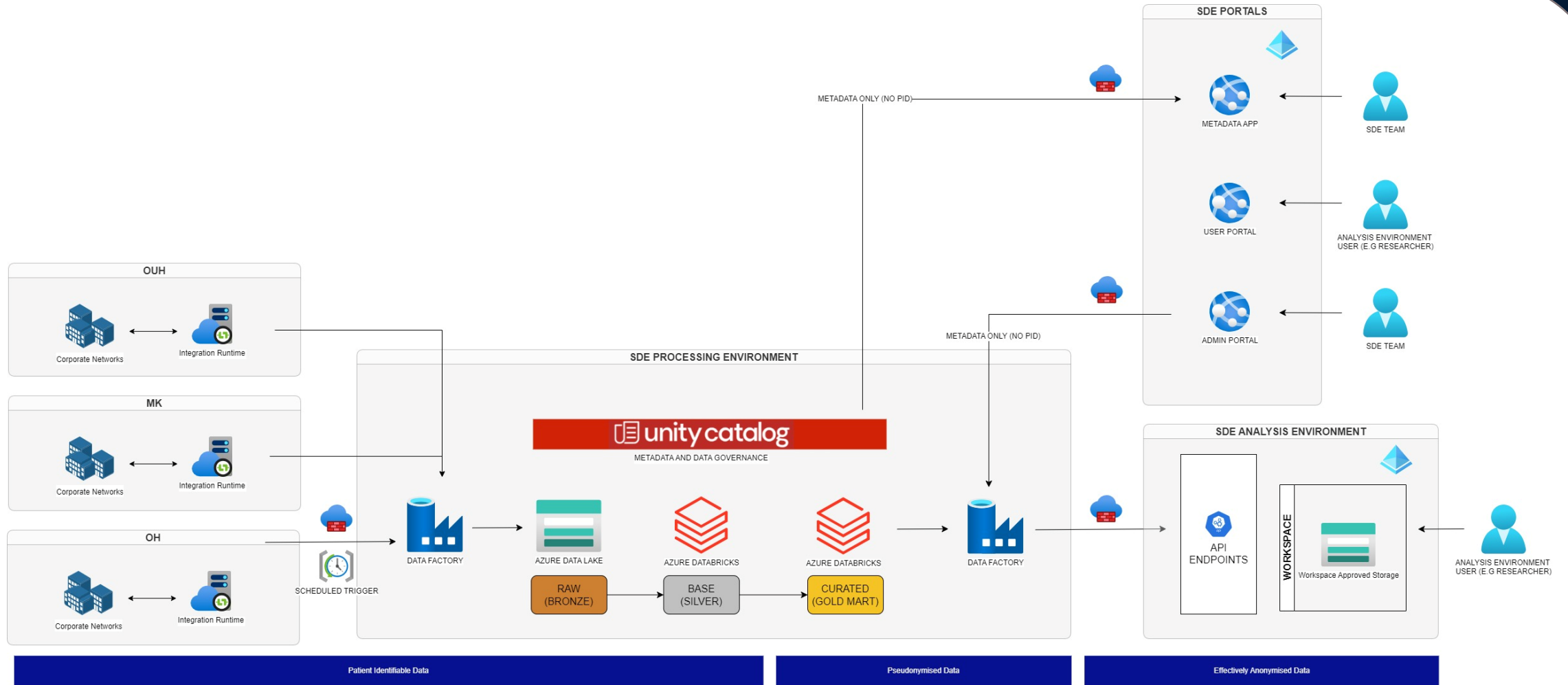
Thames Valley & Surrey Secure Data Environment

George Marlow

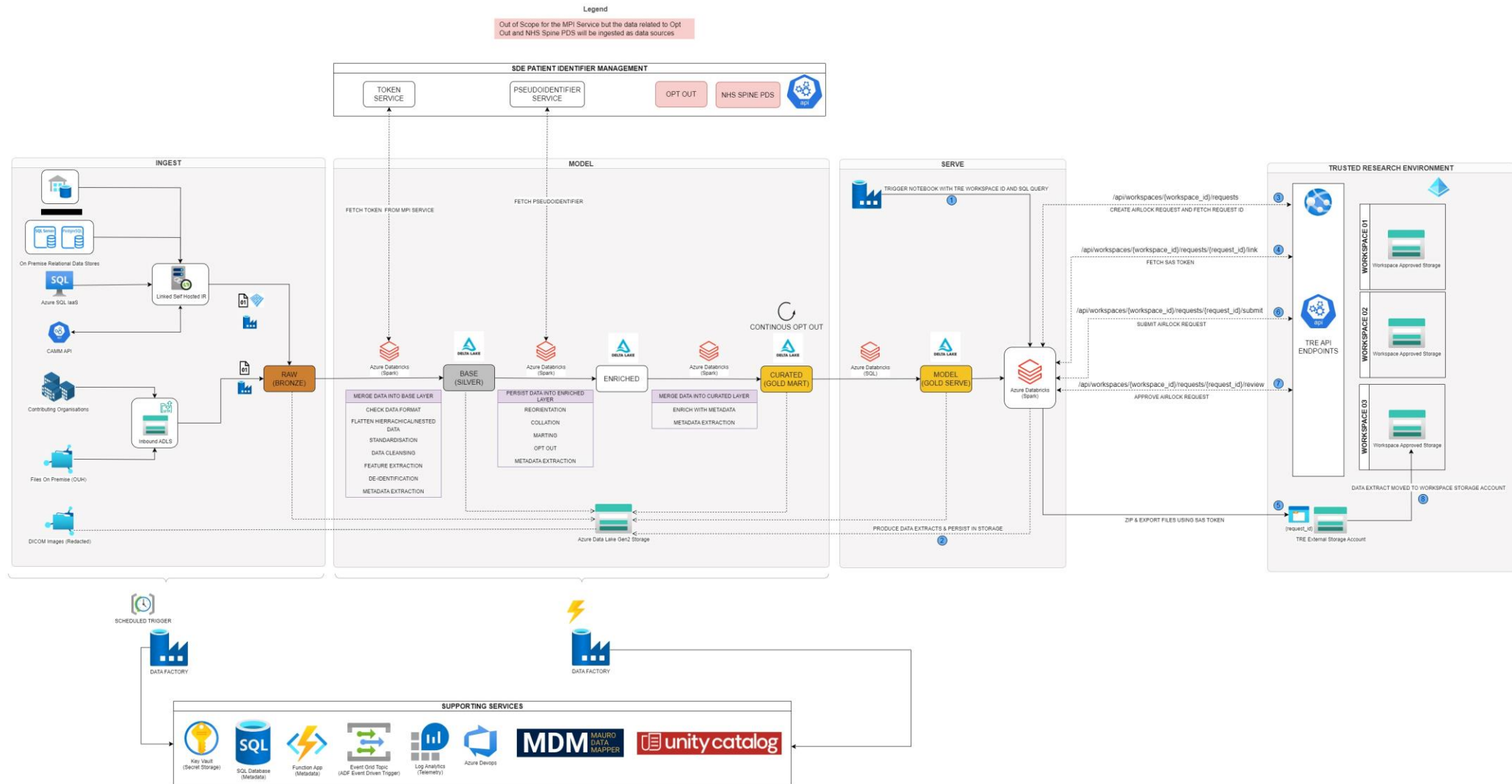
Client Delivery Lead
Telefónica Tech UK&I



The Technology Behind TVS SDE



The Technology Behind TVS SDE



Thames Valley & Surrey SDE

What is Next?

Kerrie Woods & George Marlow



Next Steps

Summary

George Marlow



Wrap Up

Meet Our Team



Chris Uren
Data & AI Specialist



George Marlow
Data & AI Specialist



Adam Jones
Data & AI Specialist



Andrew Mellish
Data & AI Specialist

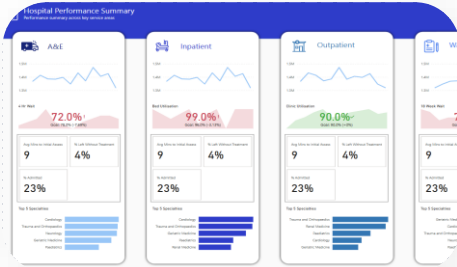


Barry Heron
Healthcare Ireland Specialist



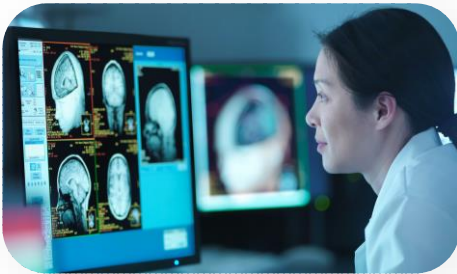
Sarah Kennedy
Security, Digital Workplace &
Cloud Specialist

Our Key Healthcare Offerings



NEW Healthcare Accelerator

Our Healthcare Accelerator service, based on the OMOP data model, for quick implementation of analytical dashboards addressing NHS challenges. Example: A&E data collaboration with NHS trusts.



SDE / TRE Framework Support Using Government Funding

During economic uncertainty, the NHS faces substantial challenges that require innovative solutions and collaboration. Telefónica Tech’s extensive experience in developing Secure Data Environments and Trusted Research Environments has established a standard framework, demonstrated with Oxford University Hospitals.



Healthcare Automation in Power Platform NHSE Funding Supported

NHS Trusts need scalable, intelligent automation to streamline operations, reduce administrative burdens, and enhance patient care. Telefónica Tech’s solutions, built on Microsoft’s Power Platform, deliver immediate impact with cost-neutral implementation through NHSE funding.



Scan for more
information



www.telefonicatech.uk



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Fireside Interview



Vicki Gavin
Security Business Partner
NHS England



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Case Study

8x8



Case Study



Ian Taylor
Public Sector Sales Director
8x8

8x8



Outdated systems no longer align to NHS long term goals

- 1 Missed calls, under utilised and overworked staff, missed appointments
- 2 Siloed teams, technology, data, and reporting
- 3 Service availability and business continuity challenges
- 4 Complex vendor and system management

The changing landscape

70%

of IT Executives are exploring GenAI adoption with customer engagement and support as the top business use case

Creating operational excellence in NHS communications



Supercharge your digital transformation



Maximise operational efficiency



Improve patient experiences



Mitigate risk

A safe pair of hands

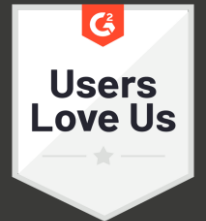
Gartner Magic Quadrant®

13X

Leader in
UCaaS

10X

Recognised for
CCaaS



1. 2024 Gartner Critical Capabilities for Unified Communications as a Service
Gartner, Magic Quadrant and associated logos are trademarks of Gartner, Inc.

2. G-G2 and associated logos are trademarks of G2.com, Inc.
TrustRadius and associated logos are trademarks of TrustRadius, Inc.

How the NHS can leverage future-ready communications

<h2>Enhance patient experience</h2> <p>Intuitive interfaces for clinical, admin and front office staff</p> <p>AI-powered knowledge bases</p> <p>Seamless EHR and clinical system integrations for personalised patient</p>	<h2>Ensure reliability and compliance</h2> <p>Single point of accountability for integrity and security</p> <p>Call recording and data analytics</p> <p>DSP toolkit compliance</p> <p>Ring fenced UK data,</p>	<h2>Seamless transformation</h2> <p>Cloud-native, flexible solutions tailored for NHS environments</p> <p>Safe, phased mitigation strategies with sandbox testing for risk free implementations</p> <p>Centralised admin for ease of management</p>	<h2>Drive productivity and welfare</h2> <p>Real-time presence for collaboration tools to boost efficiency</p> <p>AI-powered analytics for actionable insights to support training and resource allocation</p> <p>Speech and sentiment analysis to improve</p>	<h2>Increase cost efficiency</h2> <p>Data-driven reporting and analytics for strategic planning</p> <p>Consolidated vendor management</p> <p>Integrated communications channels including Microsoft Teams , SMS and WhatsApp</p>



Hospital Trust accelerates digital journey, enhancing the patient experience

2X

Call volumes handled

1:3

Ratio of hot-desking enabled

"The Trust's corporate goals are built around the 5 'P's – Patients, People, Place, Performance, and Pounds. With 8x8, we've met every one of these."

Jeffrey Wood, Deputy Director of ICT, Princess Alexandra Hospital NHS Trust

8x8® for the NHS

- Elevate patient and clinician experience with smart automation and seamless workflows.
- Maximise operational efficiencies through AI-driven analytics and cloud-based collaboration.
- Future-proof NHS communications strategies with scalable, compliance-ready solutions.
- Mitigate risk & strengthen data governance with enterprise-grade security and UK-based hosting.



8x8

Thank you

For more information please contact
ian.taylor@8x8.com



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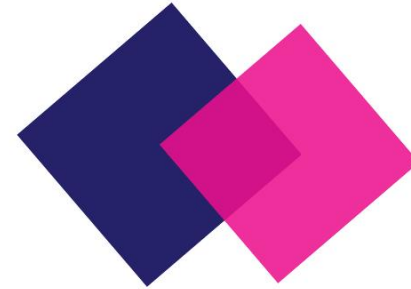


Lunch & Networking



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Chair Afternoon Reflection



Douglas Hamandishe

Chief Digital Officer/Broadcaster and Presenter
Context Heath and Centric Health Media



Keynote Presentation



Mark Crannage
Associate Director of BI and
Digital
Cambridgeshire Community
Services NHS Trust



NHS

**Cambridgeshire
Community Services**
NHS Trust

Digital Platform Programme

“...simple, secure and accessible digital channels in place to access advice and guidance, streamlined routes to access support and mechanisms to connect with our services and stay informed”

Mark Crannage
Associate Director for BI and Digital



Your sexual health
Where to go for help and advice



Cambridgeshire Community Services NHS Trust

About Us



The populations we serve are approximately:

Bedfordshire	437,817
Cambridgeshire	644,000
Luton	214,000
Milton Keynes	264,479
Norfolk	883,000
Peterborough	193,000
Suffolk	743,000

 CAMBRIDGESHIRE	 Just one Norfolk.nhs.uk 0300 300 0123	
 Cambridgeshire, Peterborough & Suffolk	 MSK, Pelvic Health Physio Cambridgeshire & Peterborough	 Contraception & Sexual Health East of England



Vision

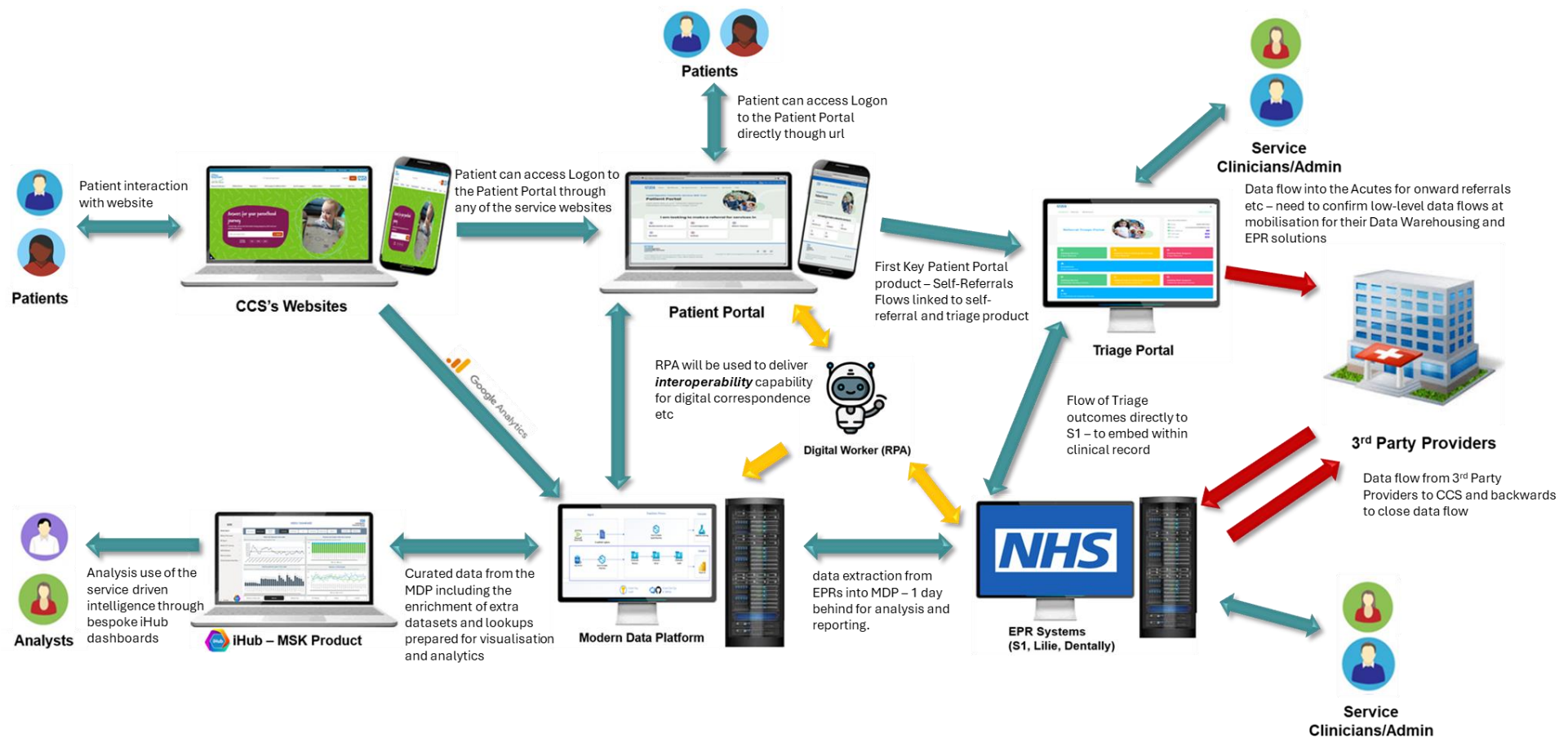
In response to the evolving healthcare landscape and growing patient expectations, we are developing a comprehensive bespoke Digital Platform consisting of Websites and Patient Portal.

- **Websites:** Modern, user-friendly websites will serve as the digital front door for the trust providing information about services, specialties, and the Trust. They will also feature interactive elements to engage visitors and facilitate online interactions.
- **Patient Portal:** The Portal will empower patients with secure access to their health information, appointment scheduling, and communication. It will serve as a centralised platform for patient engagement.

This platform aims to revolutionise patient engagement, streamline administrative processes, and elevate the standard of healthcare delivery. By providing patients with convenient access to healthcare resources and personalised services we will enhance patient satisfaction, improve operational efficiency, and maintain our local competitiveness in the healthcare industry.



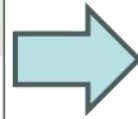
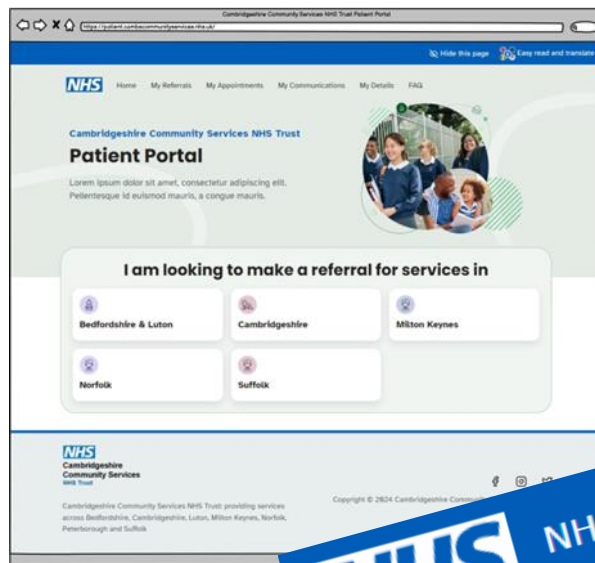
High Level Digital Platform Programme





Patient Portal

The development of the key products of a patient portal will lead to improved patient engagement, better patient centric healthcare delivery, streamlined administration processes, and patient satisfaction. NHS APP Login product will be the patient authentication.



Product	Reasoning	Benefit
Secure patient authentication	Secure patient authentication is essential to ensure that only authorised users can access sensitive health information. Methods like multi-factor authentication (MFA) enhance security. Integrating the NHS APP Login product as part of the authentication process.	Protects patient privacy, prevents unauthorised access to personal health data, and ensures compliance with regulatory standards building trust and confidence among patients.
Appointment scheduling	Providing a convenient online scheduling system allows patients to book, reschedule, or cancel appointments at their convenience without needing to call the office.	Increases patient satisfaction by offering flexibility, reduces administrative workload for healthcare staff, and decreases DNA rates through automated reminders and confirmations
Healthcare records access	Allowing patients to access their healthcare records empowers them to take an active role in their health care.	Enhances patient engagement and understanding, facilitates better coordination of care among different services.
Real time care tracking	Offer real-time tracking of a patient's progress through their care journey, reducing confusion and frustration while promoting transparency.	Enables timely interventions and adjustments to health plans, improves management, and provides a comprehensive view of the patient's health status, leading to better outcomes.
Digital correspondence	Facilitating digital correspondence through the portal streamlines communication between patients and the trust, eliminating the need for phone calls or in-person visits for routine enquiries.	Improves efficiency and response times, enhances patient satisfaction by providing quick and easy access to their healthcare team, and reduces administrative burden on the trust
Account history	Providing access to a detailed account history, details of all activities undertaken and their statuses.	Increases transparency, helps patients manage their healthcare by providing clear and accessible records.
Request for support (referrals)	Enables the trust to deliver Referral Forms for services to patients quickly and in a standardised generic manner.	Speeds up the referral process, ensures timely access to necessary healthcare services, and improves coordination of care by streamlining communication between primary care providers and specialists.
Secure messaging	Enable secure real time communication between patients and healthcare providers for enquiries and follow-ups. Secure messaging systems ensure that all communications between patients and healthcare providers are encrypted and confidential, protecting sensitive information.	Enhances patient trust, ensures compliance with data protection regulations, and provides a safe and efficient platform for discussing health concerns, care plans, and other medical issues.
Educational resources	Offer personalised educational materials and resources to empower patients with relevant health information, including the ability for people to register for support programmes like – pathway to parenting, SLT training, etc.	Promotes health literacy, encourages preventive care, and empowers patients to take proactive steps in managing their health, leading to better long-term health outcomes.



Referral Engine – Referral Form Builder

Form Builder [Home](#) [Templates](#)

Templates

Briony Questions
Templ
Test (V
Test wi

Question 1 of 5

Question label
What is your name?

Type
text

Required
 Yes
 No

Label hidden
 Yes
 No

Autocomplete
name

Edit template / Test

Section 1 of 2 (5 questions)

Heading
Section 1 Edit template / Test

Additional text
Additional explanation
Section 1 of 2: Section 1 (5 questions)

Questions
Section 2 of 2: Section 2 (6 questions)

Question 1 of 5: What is y

Question 2 of 5: Address

[Add section](#)

[Back](#) [Delete template](#) [Save template](#)



Referral Engine – Referral Deliverable

Welcome back, Mark Crannage Account ▾

- Saved Content
- Quiz Results
- Mental Health Request for Support History**

Mental Health Request for Support History

All of your submitted and in progress requests for mental health support are available here. You will be able to review the status of your request and see any outcomes. There will also be self-care resources to support you and your child.

[Start a new request](#)

In Progress Submitted & Completed

Mark Crannage - 15/11/1973	In Progress
Self Request for Support	11/04/2024 10:38
Go to form	

If you have any questions or queries, feel free to contact us:
 ☎ 0300 300 0123 📞 07520 631590
 Just One Number is open Mon-Fri 8am to 6pm, Sat 9am to 1pm

Mental Health Request For Support

This is a request for support for mental health and wellbeing services for children and young people from birth to 25. It can support children, young people and their families access a range of options to improve their mental health and wellbeing, including:

- Self-care resources
- Advice and guidance
- Access to mental health or emotional wellbeing support services.

We take requests for support via this online access system and via telephone on 0300 300 0123. We aim to review all requests within 5 working days.

The support offered to you might come from the NHS or charity based services. We also work closely with colleagues in related services, such as the local authority, and may refer on to them where needed.

There is no charge to access the services we cover.

This is not an urgent mental health service. If your concerns are life threatening please call 999. You can also [click here](#) to see other options.

All fields marked with * are required.

Child or young person details

First name *	Surname *
<input type="text"/>	<input type="text"/>
Date of birth *	NHS number
<small>Date format: dd/MM/yyyy (e.g. 15/11/2023)</small>	<small>Please click here to find your child's NHS number</small>
<input type="text"/>	<input type="text"/>
Referrer email *	Parent / carer email *
<input type="text"/>	<input type="text"/>
Young person email	
<input type="text"/>	
Address *	Town / city *
<input type="text"/>	<input type="text"/>
County *	Post code *
<input type="text"/>	<input type="text"/>

[Next](#)



Triage Portal

Triage Portal consists of

- SQL DB
- Set of Administration Web Forms to deliver triage functionality.
- Referral Submission rules engine for the referral submission to the appropriate provider in a way they have agreed – i.e frequency and submission method to manage the manual triage process and queues.

Creates a full audit trail of triage decisions.

Traffic Light outcomes from Referral reviewed – these will then sit in separate queues to process.

- Red – Referral Rejection and gets processed and reported on
- Amber – Referral not needed direct to self-care materials but needs to be marked on the clinical system.
- Green – Referral Accepted, and referral sent to Acute provider and added to the clinical record

Green – Accepted Referral

- Referral Submission rules engine to enable referral to be sent at a frequency and through the correct technical pathway as required by the Acute provider.

Referral Status data feed to Patient Portal for Referrer history



Your sexual health
Where to go for help and advice



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Community Services
NHS Trust

Triage Portal

The screenshots show the following interface elements:

- MSK Service Referral Portal:** A dashboard with service information (Tel: 0300 300 0000, Email: msk.cd@nhs.uk) and three main action buttons: "Getting Advice" (12 New Referrals), "Getting Help & Getting More Help" (1 New Referrals), and "Getting Risk Support" (1 New Referrals).
- Referrals: View Details:** A form for a referral for Sam Smith on 01/12/2013. Fields include: First Name (Sam), Surname (Smith), Date of Birth (01/12/2013), NHS Number (614 131 3876), Date Submitted (04/09/2024), Referral Source (Young Person), and Presenting Issue (Feeling sad or low in mood). A "Download Referral" button is visible.
- Referral for Sam Smith - 01/12/2013:** A detailed view of the referral with sections for "Before Completion" (Please ensure you?), "Referral Outcome" (No file chosen), and "Upload Outcome Letters" (Please upload any referral outcome letters here, and select the recipients from the dropdown below).



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Digital Worker – ‘CHUCK’

Meet Chuck!!! CHUCK will assist in delivering backend interoperability processing within the Patient Portal



Appointment Management (Backend Processing)

- **Automated Scheduling and Reminders:** CHUCK will manage appointment booking, rescheduling, and sending reminders across all EPRs, ensuring seamless coordination.
- **Conflict Detection and Resolution:** CHUCK will look to detect appointment conflicts or overlaps across systems and automatically resolve them by suggesting alternative times or notifying staff.

Integration with External Apps (Backend Processing)

- **API-Layer Automation:** CHUCK will manage API calls and automate backend processes, ensuring that data from other apps or systems is integrated in real-time, reducing the need for manual intervention.



Digital Worker – ‘CHUCK’

Digital Correspondence (Backend Processing)

- **Automated Correspondence Generation and Routing:** CHUCK will automatically generate and send emails, SMS, or letters based on triggers from the EPRs ensuring timely communication with patients.
- **Unified Archiving and Tracking:** CHUCK will automate the organisation and tracking of all outgoing and incoming correspondence, ensuring that communication logs are updated across all systems for accurate patient records.

Patient Healthcare Journey (Backend Processing)

- **Consolidation of Patient Data:** CHUCK will pull data from the EPRs to create a unified view of the patient’s journey, ensuring that all touchpoints, from consultations to treatments, are reflected in one place.
- **Real-Time Journey Visualisation:** CHUCK will provide real-time updates to visualise the entire healthcare journey of the patient, helping healthcare professionals understand the progress and manage patient outcomes more effectively.



Your sexual health
Where to go for help and advice

NHS

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ANY QUESTIONS



Slido

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Keynote Presentation



Andrew Raynes
CIO and SIRO
Royal Papworth Hospital NHS
Foundation Trust



Royal Papworth Hospital

NHS Foundation Trust

UK's Leading Heart and Lung Centre

NHS Hospitals Interoperability Summit

Interoperability for productivity and resilience;

Building a more secure, integrated and sustainable NHS and care system

26 February 2025

Andrew Raynes MSc CHCIO FBCS LFEDIP
CIO and SIRO

Royal Papworth Hospital NHS Foundation Trust



CIO (Board executive director)
BCS Fellow FedIP Leading Practitioner
CIO UK 100 2022, 23, 24
Global CIO 2023, 2024
Marlow Business School, Global CIO100 2024

- Major London acute
- Local authority
- HMP
- 25+ years NHS and private experience



Andrew Raynes

Former strongman

Andrew Raynes, commonly known as "Stumpy", is an English former strongman, powerlifter, and bodybuilder. He was a multiple time finalist in Britain's Strongest Man and a finalist of the 2001 World's Strongest Man contest. [Wikipedia](#)

Born: 7 April 1973 (age 48 years), Barnsley

Height: 1.6 m

Royal Papworth Hospital today

'Bringing tomorrow's treatments to today's patients'

UK's leading heart and lung hospital, treating more than 50,000 patients each year.

UK's first successful heart transplant in 1979, and world's first heart-lung and liver transplant in 1986

Most heart and lung transplants of any UK centre and a record five transplants in 36 hours

98% of our patients said they would recommend us to their friends and family

First NHS Trust in England – Robotic thoracic surgery 2023

CQC rated outstanding 2019



Our Hospital and Heart and Lung Research Institute (HLRI)

<https://www.bbc.co.uk/news/av/health-63747798>



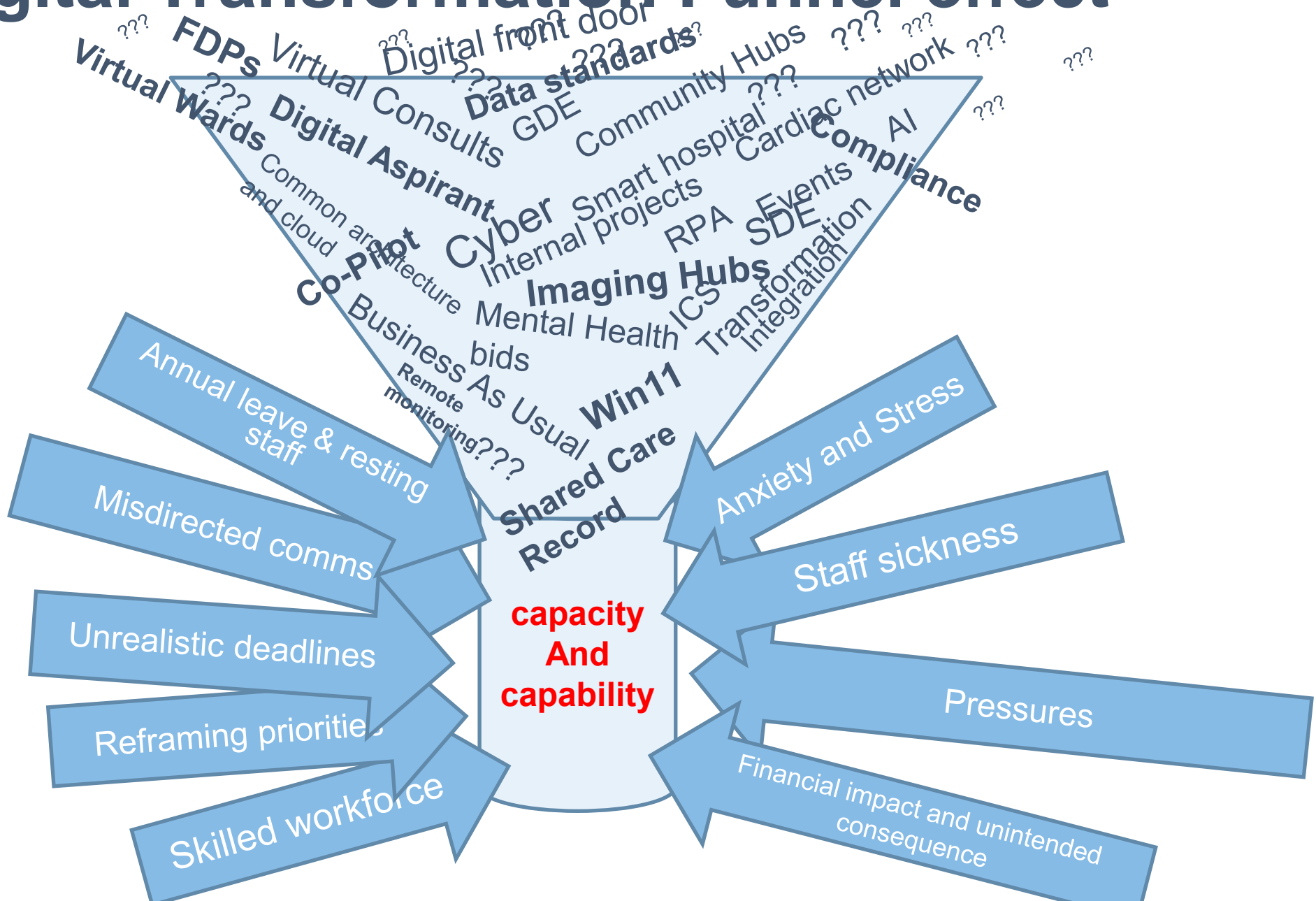
Royal Papworth Hospital
NHS Foundation Trust



■ Collaboration



The Digital Transformation Funnel effect



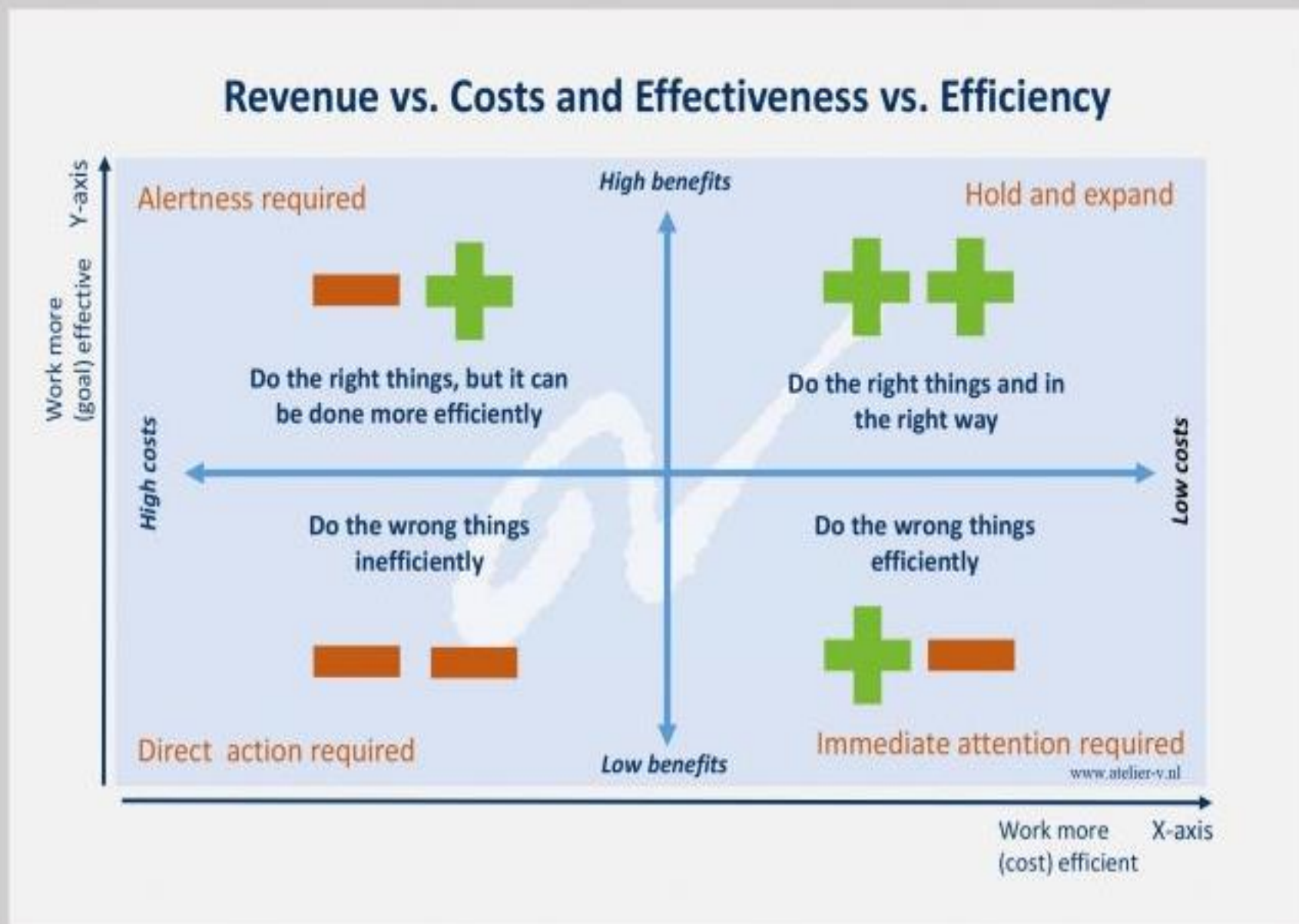
Room 101

Understand the beast: Digital transformation

- **People**
- **Process**
- **Technology**

Adding value is more than cost reduction

BAR HIGHER:
Quality (effective)



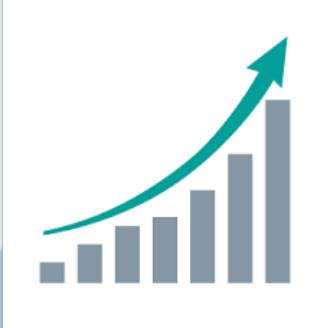
MORE GRIP:
Costs (efficient)

Standards use cases

In hospital (lifecycle)

1 →

Buying best
Inventory,
lifetime and
standards



EDC Gold
Inventory
Management
(P2P/PEPPOL)



3 →

End of product life/Disposal
Replenishment,
Sustainability, bigdata
e.g

- Patient level costing and service line reporting
- Real time lab resulting through interoperability
- Safety - Reduced drug errors
- Reduce/avoid never events
- Efficiency - Ward Audits
- Implantable devices Remote care
- Tracking equipment

Productivity? So what...



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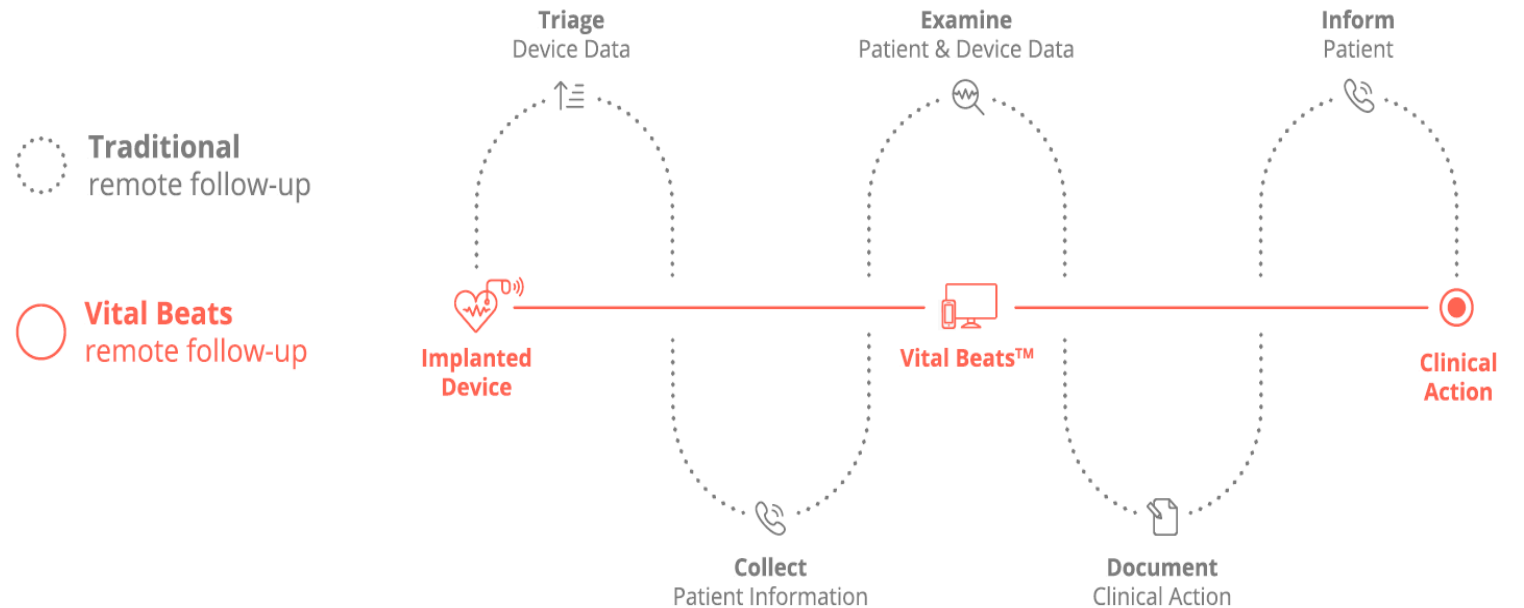
Problem	GS1 Technology	Was	Benefit (now)
Ward audit	RFID for assets (GIAI)	0.5 Day of nursing time	<2 mins
Remote care	Fysicon (implantable cardiac device monitoring) for patients	1000 patients prior to pandemic	5300 patients
Lab resulting	Interoperability for patients	24 hours prior to interop	Realtime
Medicines safety	Wristband for patients	Unknown number of times wrong patient given wrong medication	214 potential incidents avoided in 6 months
Buying	EDC Gold for Trade identification	Extensive time spent materials management to manually to enter data (1 – 2 hours p/d)	Time savings, precision reporting e.g. automatic repeat orders (30 minutes saved of materials management staff p/d)
Patient ID	Bloodtrac (Blood wastage) for Patients	Reduced from 5%	Less than 1%
Inventory/stock	EDC Gold	Hours of storekeepers time	Time saving and accuracy but also track dates (when things go out of date we know e.g. Heart valves)

Standards use case 1

Out of hospital remote care

Implantable devices for safety and efficiency (Fysicon)

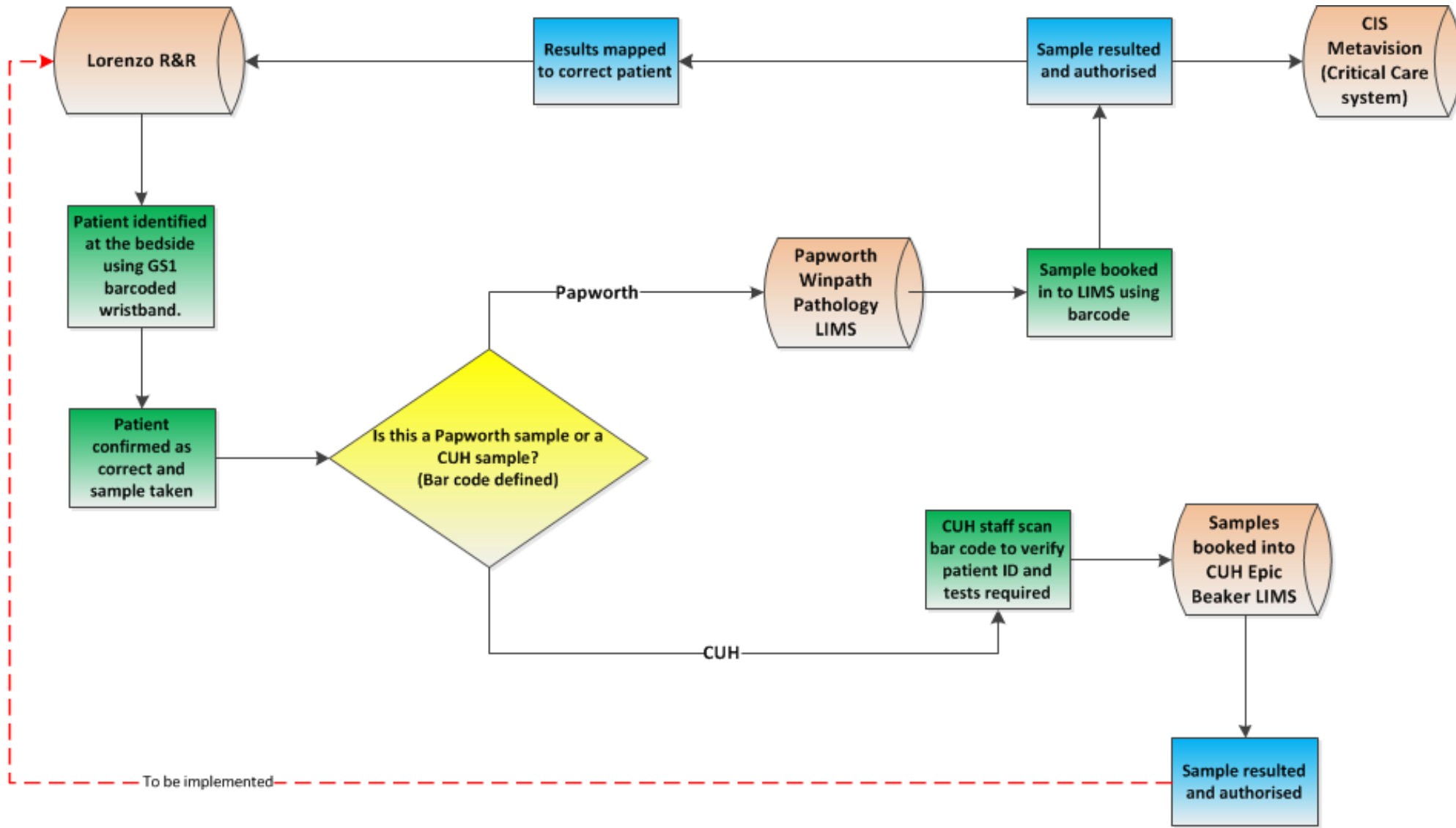
- GS1 compliant barcodes for scanning implantation, follow up of pacemakers and defibrillators
- The barcodes have a crucial role in identifying patients that may be adversely affected by field safety notices and product recalls.



Standards use case 2

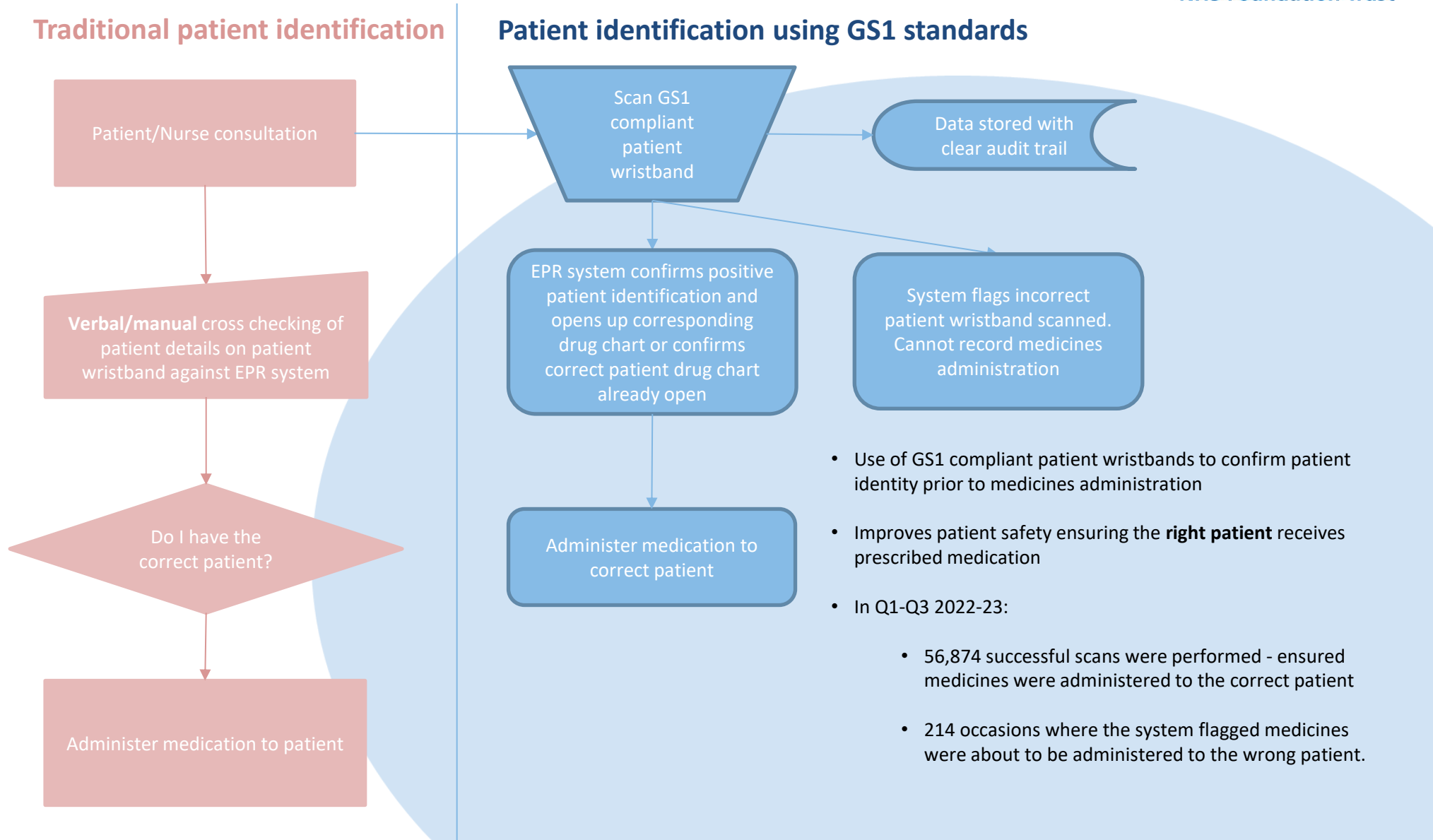
Interoperability

Pathology Positive Patient ID pathway (PPID)



Standards use case 3

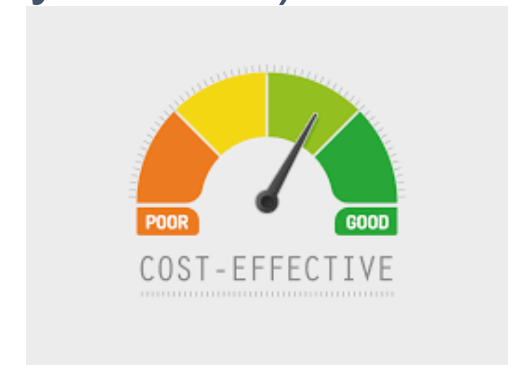
Barcode Medicines Administration



Safe, sustainable and cost-effective

Cover your bases for a productive, safer and cost effective...

- Context
- Effective starters and leavers process (buy what you need)
- Sign off for new technology (VFM - Total Cost of Ownership: Opportunity, Depreciation, Optimism Bias, Contingency, Inflation, Indexation, VAT, cap/rev)
- Streamlining enterprise
- Standardisation vs 'eggs in one basket' (business need/healthy market)
- Secure reselling/recycling?
- Process/Recall unused devices?
- Monitoring and continuous improvement, metrics
- Uses and promise of patient information
- Resilience, sustainability, agility and adaptability
- Move from FOMO to problem solving
- Maturity models think of core, system and universal capability (Micro/Macro)
- Tax-payer and ethics - will it stand the daily mirror test,





Creating value:

Open standards for interoperability?



What you need for interop...

- Systems that have capability to talk to one another
- Integration Engine
- Open Application Interfaces
- Data standards; HL7/FHIR/OpenEHR/GS1
- Dev Ops/skill and knowledge/Access to services



VS Proprietary tools: All in for one, but increased cost, lock in and making money?



賽馬會醫療大樓
Jockey Club Clinical Tower





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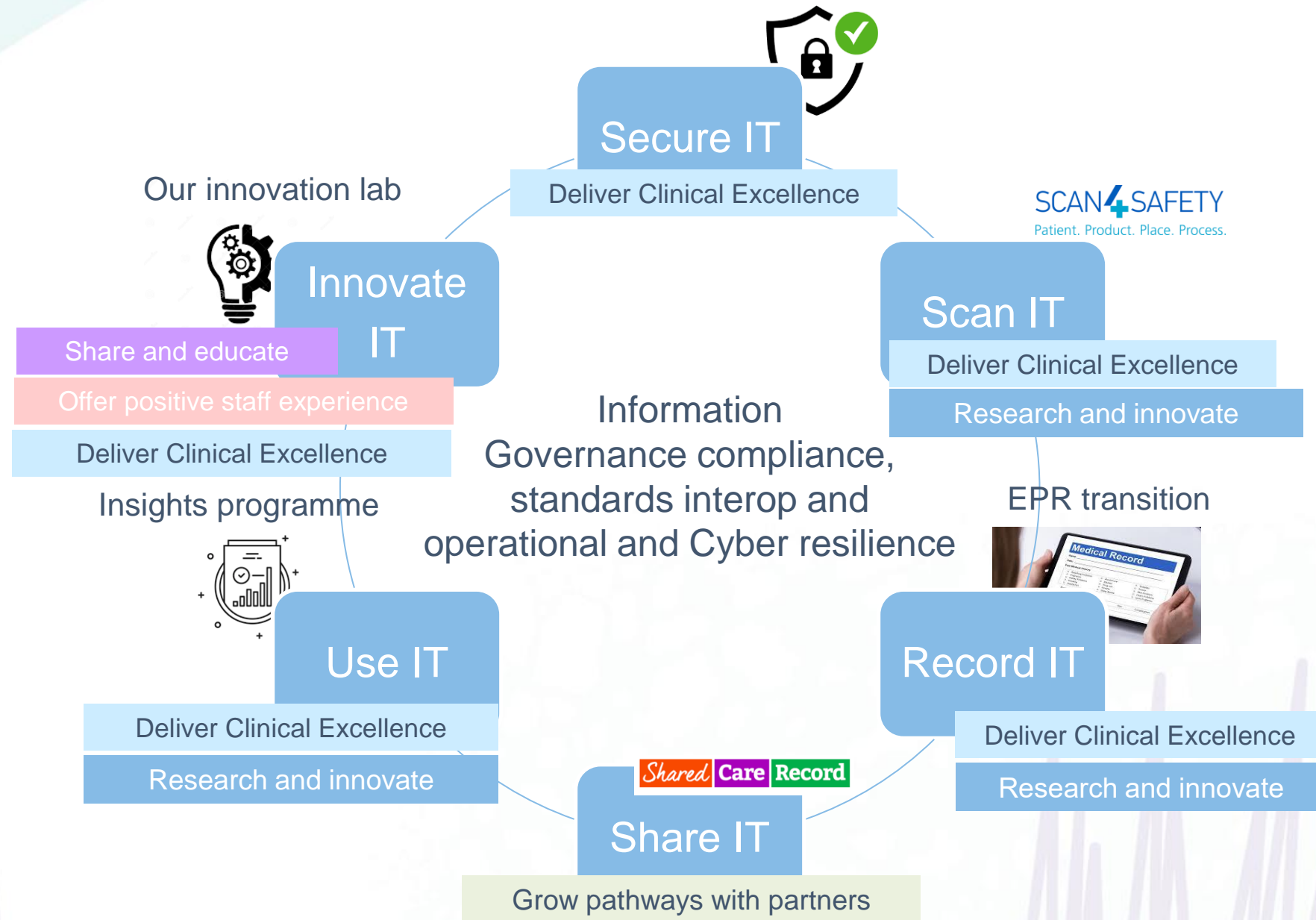
Beyond value

Our digital and data strategy to support
clinical excellence and world beating care 2024-26

November 2024
Final edition 7.2



Deliver IT! Our 6 point digital and data delivery plan



Wanna Cry

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CROWDSTRIKE

UNIVERSITY

Research data

Cyber attack affects two south
England services



LOG4J

Vulnerability

NHS
111

LESSONS FROM
THE NHS 111
CYBER ATTACK

4 Possible Cybersecurity Risks Related to COVID-19:



Some takeaways...

Interoperability supports productivity, and **SHAVING COST....**

- **S**tandards focus (Computer applications)
- **H**ealthier market place (adopt standards vs proprietary tools)
- **A**gnostic capabilities
- **V**ersatile: Supports innovation (connecting) and drives competition
- **E**nsures a viable NHS avoiding monopolies or duopolies
- **R**esilient first: Be wary of vendor lock in, lights out (all out) (Cyber)
- **S**ustainable, cost effective, vendor agnostic and ethical (Data = Golden thread)

.....**Focus on productivity outcomes.....**

Leadership



Royal Papworth Hospital
NHS Foundation Trust



Andrew Raynes
Chief Information Officer
Executive Director



Dr Chris Johnson
Chief Medical Information
Officer,
Associate Medical Director



Adri De Souza
Chief Nurse/AHP
Information Officer.
Cystic Fibrosis Team Lead
Dietitian



Chris McCorquodale
Deputy Chief Pharmacist
Chief Pharmaceutical
Information Officer



Shalini Chandran
Chief Operations Information Officer
Divisional Director of Operations –
Clinical Administration



Dr Raj Vaithamanithi
Dep Dir of Digital/
Chief Information
Officer



Simon Brown
Head of Digital



Cath Willcox
Head of Information
Governance and
Health Records



Phil Hammond
Head of Bi and Analytics



Simon Page
Dep EPR Prog. Director



“Data about people’s experiences of health and social care has huge potential for improving services and discovering more effective treatments and ways to provide care. Those benefits will not be realised without public trust.”

Dame Fiona Caldicott

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Royal Papworth Hospital
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Interoperability for productivity and resilience;

Building a more secure, integrated
and sustainable NHS and care system

Thank you for listening

26 February 2025

Andrew Raynes, CIO and SIRO

Royal Papworth Hospital NHS Foundation Trust





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Fireside Interview



Dr Michael Watts

Associate CCIO

University Hospitals of Derby and Burton
NHS Trust



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Panel Discussion



Elom Srebi

Former Interim Group Head of Patient
Systems
Royal Free London NHS Foundation Trust



Mark Crannage

Associate Director of BI and Digital
Cambridgeshire Community Services
NHS Trust



Dr Michael Watts

Associate CCIO
University Hospitals of Derby and Burton
NHS Trust