

digitalhealth

REWIRED

BIRMINGHAM 12-13 MARCH 2024

Headline Sponsors:



Dylan Roberts

CDIO, Betsi Cadwaladr
University Health
Board



Stage Sponsor:



The unique collaborative approach to EHR development in Wales to achieve best fit and value

Dylan Roberts
Chief Digital and Information Officer



GIG
CYMRU
NHS
WALES

Bwrdd Iechyd Prifysgol
Betsi Cadwaladr
University Health Board



21,000 staff
£2bn+ turn over
2100+ beds
22 Hospitals
90 Health Centres
94 GP Practices (Was 116)
78 dental practices
145 pharmacies

Betsi Cadwaladr University Health Board and its problems

Integration

Information transfer

Efficiency

Unrestricted licences

Effectiveness

Time-saving

Cohesion

Pragmatism

transparency

efficient

optimisation

Waiting lists

Interoperability

Quality

One digital health record

Supportive

Safety

security

Less Duplication

AI

Accuracy

Enabling

Wellbeing

Reliability

Codified Record

Effective

Usability

Interoperable

collaboration

obsolescence

availability-info

pace

Patient

Clear direction

User-friendly

EPR

Patient-centred

Accessibility

Compatible devices- multi

425 applications – estimated 116 not supported and present risk Example of 30

Risk of Major ICT Failure and Large Cyber Attack Vector.

Application Name	Apps Mgmt	Apps Support	App Strategy	Performance	Apps Overlap	App Complexity	Burning Platform	Security	Value for Money	Data Quality	Tech Complexity
Haemophilia Clinical Information System	●	●	●	●	●	●	●	●	●	●	●
ARIA	●	●	●	●	●	●	●	●	●	●	●
CYPRIS	●	●	●	●	●	●	●	●	●	●	●
mediwell	●	●	●	●	●	●	●	●	●	●	●
CCW	●	●	●	●	●	●	●	●	●	●	●
Heidelberg OCT FFA Imaging Systems	●	●	●	●	●	●	●	●	●	●	●
Lymcalc	●	●	●	●	●	●	●	●	●	●	●
WEDS	●	●	●	●	●	●	●	●	●	●	●
Therapy Manager	●	●	●	●	●	●	●	●	●	●	●
Oracle eBusiness Suite - to include QlikView	●	●	●	●	●	●	●	●	●	●	●
Auditbase	●	●	●	●	●	●	●	●	●	●	●
Chemocare	●	●	●	●	●	●	●	●	●	●	●
WPAS Central/East/West Areas	●	●	●	●	●	●	●	●	●	●	●
Orsos	●	●	●	●	●	●	●	●	●	●	●
RADIS 2	●	●	●	●	●	●	●	●	●	●	●
Soelhealth	●	●	●	●	●	●	●	●	●	●	●
Synapse	●	●	●	●	●	●	●	●	●	●	●
WCP Welsh Clinical Portal	●	●	●	●	●	●	●	●	●	●	●
Healthroster	●	●	●	●	●	●	●	●	●	●	●
ServicePoint	●	●	●	●	●	●	●	●	●	●	●
BEST	●	●	●	●	●	●	●	●	●	●	●
iFIT	●	●	●	●	●	●	●	●	●	●	●
Adastra	●	●	●	●	●	●	●	●	●	●	●
Stream	●	●	●	●	●	●	●	●	●	●	●
EPRO (Digital Dictation & Speech Recognition)	●	●	●	●	●	●	●	●	●	●	●
Zylab	●	●	●	●	●	●	●	●	●	●	●
WLIMS	●	●	●	●	●	●	●	●	●	●	●
Omnicell	●	●	●	●	●	●	●	●	●	●	●
Malinko Software	●	●	●	●	●	●	●	●	●	●	●
Cito	●	●	●	●	●	●	●	●	●	●	●

- Would recommend immediate further investigation.
- Would recommend further investigation soon.
- Investigate over the next 6 to 12 months.
- Looks broadly OK.





Step 1

BASIC BASELINE: PARALLEL HIMSS AND KLAS ASSESSMENTS ACROSS
ALL OF WALES

EMRAM Scores Distribution

Stage	Share
7	0.0%
6	0.0%
5	0.0%
4	0.0%
3	0.0%
2	0.0%
1	87.5% (n=7)
0	12.5% (n=1)
Total	100% (n=8)
Average	0.88
Median	1.00

- Morriston Hospital
- Betsi Cadwaladr University Health Board
- Velindre Cancer Centre
- Aneurin Bevan University Health Board
- Hywel Dda University Health Board
- Cardiff and Vale University Health Board
- Powys

- Cwm Taf Morgannwg UHB

CDR: A COMBINED CODIFIED CLINICAL DATA REPOSITORY THAT ALL CLINICANS CAN EASILY ACCESS AND INTERROGATE

Overall Benchmark Net Digital System Experience Score NHS Wales 23

Included Clinical Backgrounds: **All respondents at 300 Organisations**

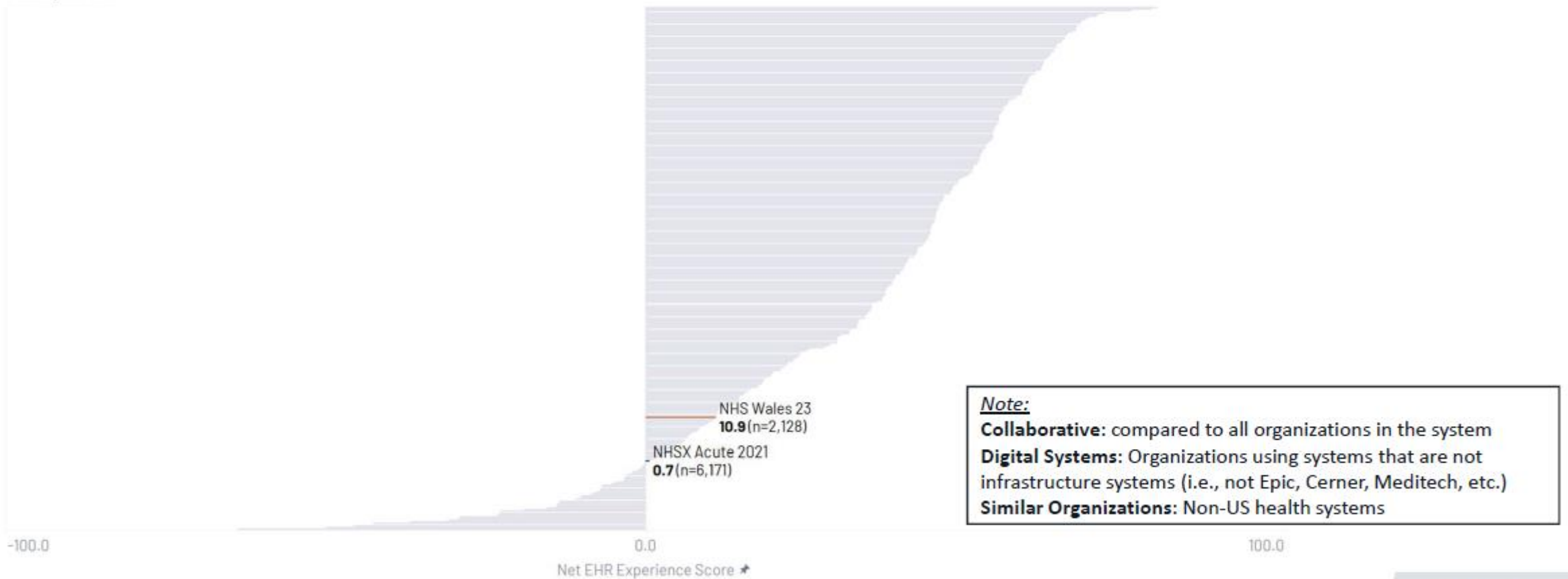
Digital System Benchmark: **95 Other Organisations**

Similar Organisations: **27 Non-US Health Systems**



Net Digital System Experience Score

All respondents

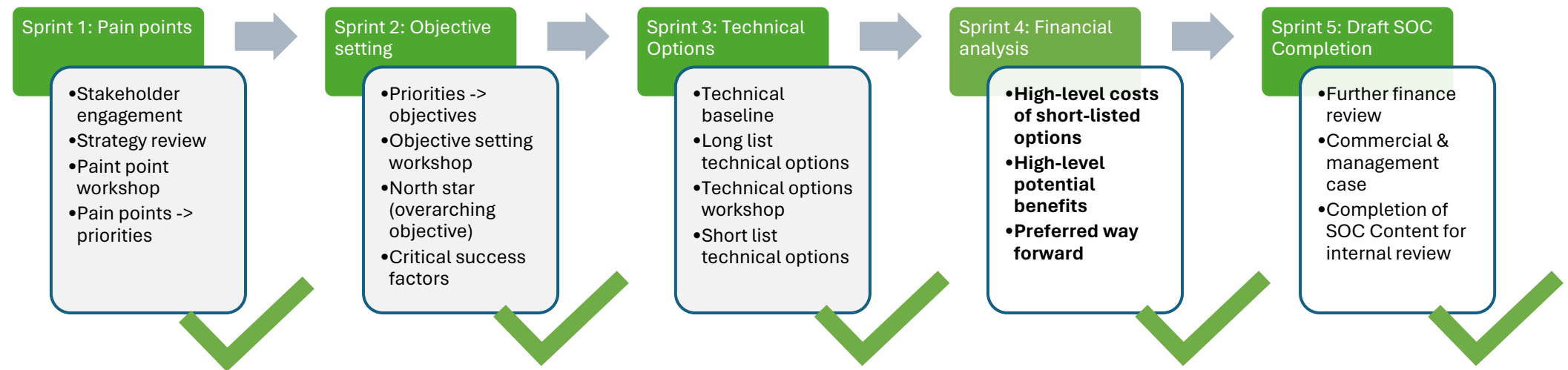


Step 2

BCUHB AS A MICROCOSM OF WALES
STRATEGIC OUTLINE CASE

EHR SOC+ Development

- **Strategic Outline Case developed to HMRC Green Book standards**
- **Delivered over 10 weeks (5 sprints)**



BCUHB North Star

The 'North Star' for the BCUHB investment is based on the ambitions set out in *A Healthier Wales*, local strategies including digital and data strategy and the priorities identified through stakeholder engagement during the SOC development. It was created collaboratively and serves as the overarching objective.

Safety



- A single view of a person across their health, mental health, and care journey
- Easily accessible and comprehensive records for timely clinical decision-making
- Accurate data recording and interpretation
- Data for mandatory reporting, clinical audit, clinical effectiveness
- Systematic waiting list management
- Improved staff safety

Efficiency



- Less time writing, transcribing and locating clinical notes
- Reduction in system log-ins and 'double data entry'
- Reduction in duplication of tests and procedures
- Seamless referrals and care transfer
- Smoother appointment booking and other administration
- Targeted interventions and preventative care

Patient Experience



- Better patient understanding of where they are in their health and care journey
- No need for patients to repeat themselves at each step
- Increased possibility for patient engagement in their health and care
- More options for care closer to home
- More time for clinicians to spend with patients
- Greater patient and carer satisfaction

To achieve the quadruple aim of healthcare by delivering clinically-led, digitally-enabled health and care for the people of North Wales

Recruitment & Retention



- Reduced staff frustration and 'burn out'
- Better working environment
- Easier to attract new staff
- Easier to onboard and train new staff
- Better equipped to train future workforce
- Improved staff morale

Collaborative Working



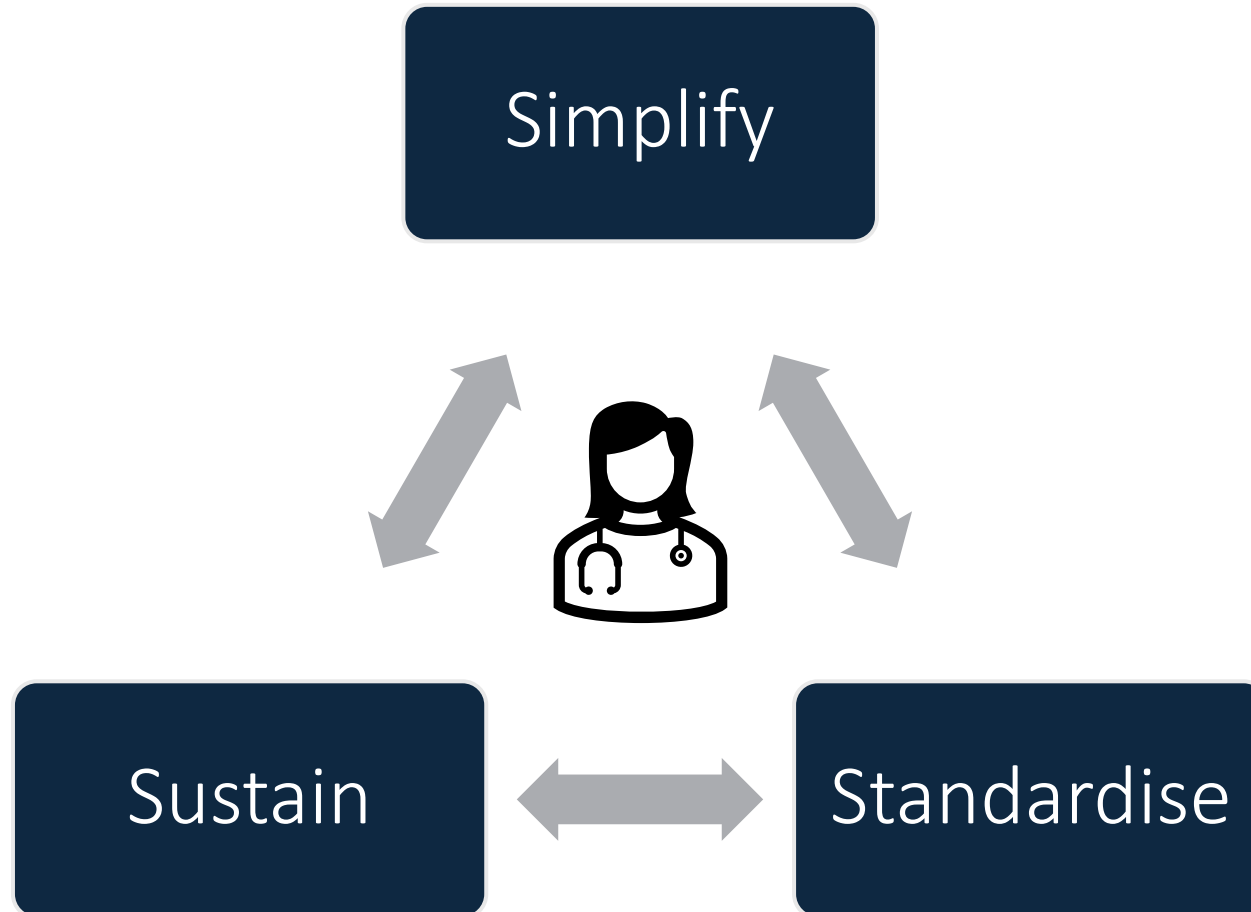
- Consistent processes and decision making across and within services
- Consistent and comprehensive data collection processes, analysis, and review
- Enable effective multi-disciplinary team working
- Easy access consistent guidance, policies, processes
- Tools for service improvement, research, and innovation



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Large complex clinical and business transformation



Short list of technical options to meet the business need

~~Option A – Continue current roadmap: 'Do nothing'~~

~~Option B – Digital Data Entry + Document Store + fully utilise national systems: 'Do minimum'~~

~~Option C – Evolve national systems~~

~~Option D – Commercial (general) clinical management system + National System APIs~~

Option E – Open clinical platform + National System APIs

Option F – Modular EPR + National System APIs

Option G – Full commercial EPR + National System APIs

~~Option H – Build bespoke EPR + National System APIs~~



Step 3

VALIDATE BCUHB SOC WORK ACROSS ALL HEALTH BOARDS

Overview of approach



- **Strategic and technical readiness assessment** of each Health Board to provide an initial assessment of their individual and collective readiness to take forward an Outline Business Case for an EHR implementation.
- Four workstreams - **strategic priorities, business needs, digital maturity, current digital experience.**
- The four workstreams will be used to develop a **Readiness Dashboard for each of the 7 Health Boards and one for Wales as a whole.**
- The Readiness Dashboards will inform a **Strategic Workshop** with the DMSG.
- A **Final Report** with recommendations will be produced in the form of a PowerPoint.

Step 4

PRESENTATION TO MINISTER WITH A PREFERRED WAY, BASED ON EVIDENCE OF WHAT IS OPTIMAL TO DELIVER BEST OUTCOMES FOR WALES AND ITS HEALTH BOARDS

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