

digitalhealth

**REWired**  
LONDON 14-15 MARCH 2023

Headline Sponsors:



# Rhidian HURLE

Chief Clinical Information Officer for Wales  
Medical Director Digital Health & Care Wales

*A Year of Digital Transformation Across the UK*  
**Wales**





**WHALES**

PROBABLY OUT HERE  
SOMEWHERE

**WALES**

DEFINITELY  
HERE

ENGLAND

# Health and Social Services

Total revenue funding – **£10.1 billion**

Total capital funding – **£375 million**



3.13 million people



90,000 Staff



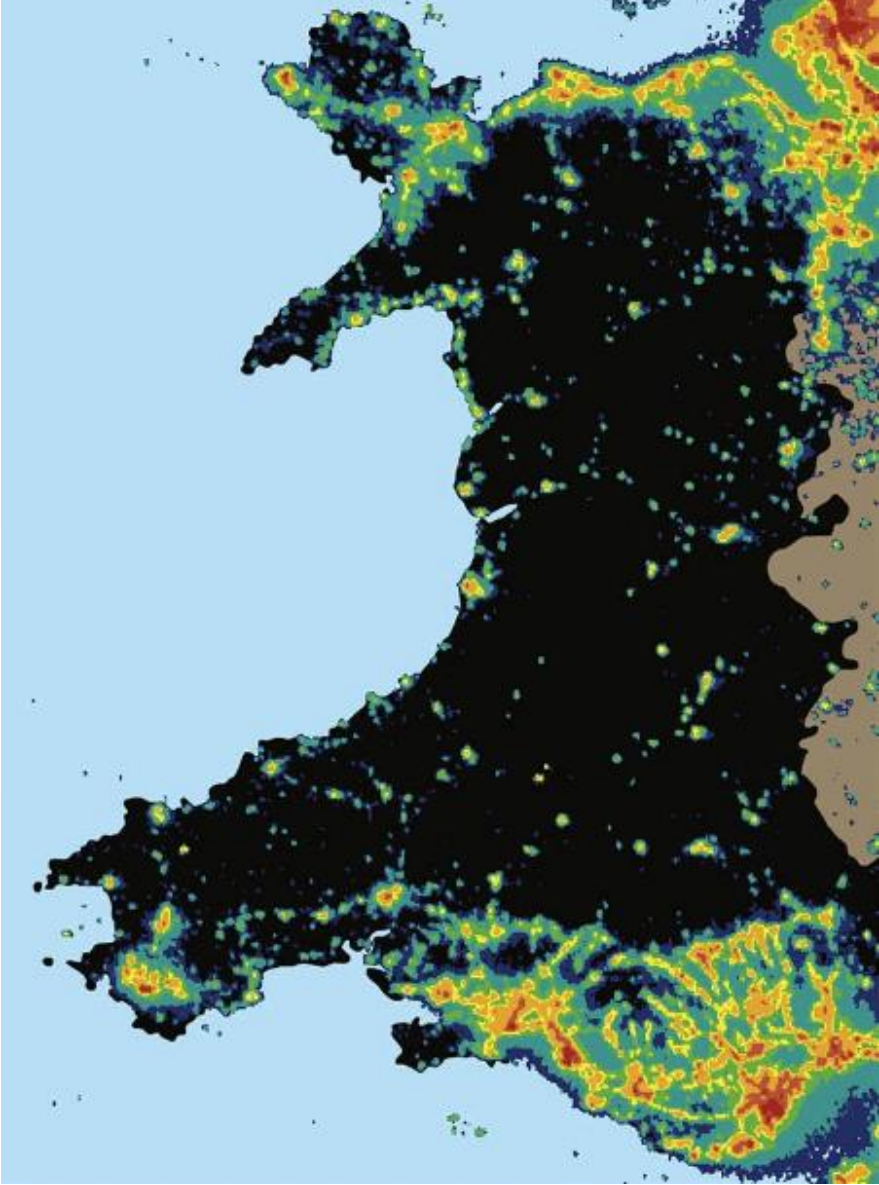
18 Major Hospitals



> 10k beds



> 1500 GPs





## Missions

### PROVIDE A PLATFORM for enabling digital transformation

- Data Platform and Reference Services
- Open Architecture and Interoperability
- Protecting Patient Data
- Sustainable and Secure Infrastructure

### DELIVER high quality digital products and services

- Public Health
- Primary, Community and Mental Health
- Planned Care
- Urgent and Emergency Care
- Diagnostics
- Medicines

### EXPAND the use of the health and care record and digital to improve health and care

- Engaging with Users: Health and Care Professions
- Engaging with Users: Patients and the Public

### DRIVE better value and outcomes through innovation

- Research and Innovation
- Value from data

### BE the trusted strategic partner and a high quality, inclusive, and ambitious organisation

- People and Culture
- Finance
- Sustainability
- Stakeholder Engagement
- Quality and Safety
- Governance, Performance and Assurance

## Digital Deliverables

Care Data Repository	Integration Hub
Open Architecture	Information Governance Framework
Cyber Plan	Cloud Transition
Analytics Platform	Data Standards
Vaccines	Screening systems
Primary and Community	Maternity system
Welsh Patient Administration	Eye Care
Welsh Emergency system	Intensive Care
Laboratory Mngt	Radiology Mngt
E-prescribing	Prescription Transfer
Medicines Record	
Electronic requesting	Cancer Informatics
NHS Wales App	
Academic partnerships	Industry Partnerships
Analytics Strategy	Strategic programmes analytics
Wellbeing	Welsh Language
Digital Workforce Review	Business Change Network
Financial Sustainability	Cloud finance
Decarbonisation	Foundational Economy
Digital Inclusion	Digital Maturity
Benefits Framework	Quality

## Outcomes

**OUR VISION** is to provide world leading digital services, empowering people to live healthier lives.

The collaborative use of high-quality information, systems, and technologies supports patient care and delivers benefits throughout the NHS system.

**Health system transformation** and efficiency is increased as sustainable digital services support service re-design, and save time.



**Patient Safety** is increased as manual processes and paper are removed and more data is available for clinicians to make informed decisions and errors are reduced.



**Positive health outcomes** are seen as a result of increased availability of data and analysis and more time with the patient.



**Health system costs** decrease where digital supports automation, care closer to home and patient empowerment.



**Patient experience** improves as convenience of care increases when patients can interact with health professionals digitally and have more quality time spend with staff.





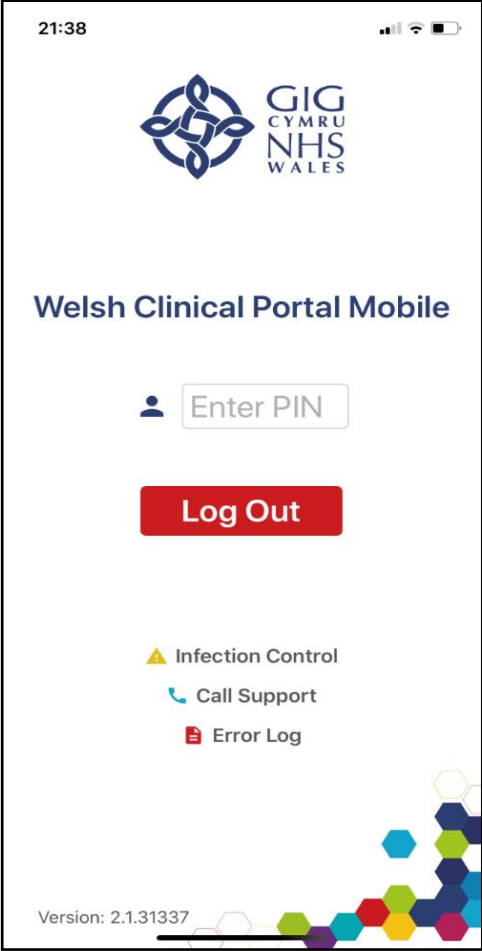
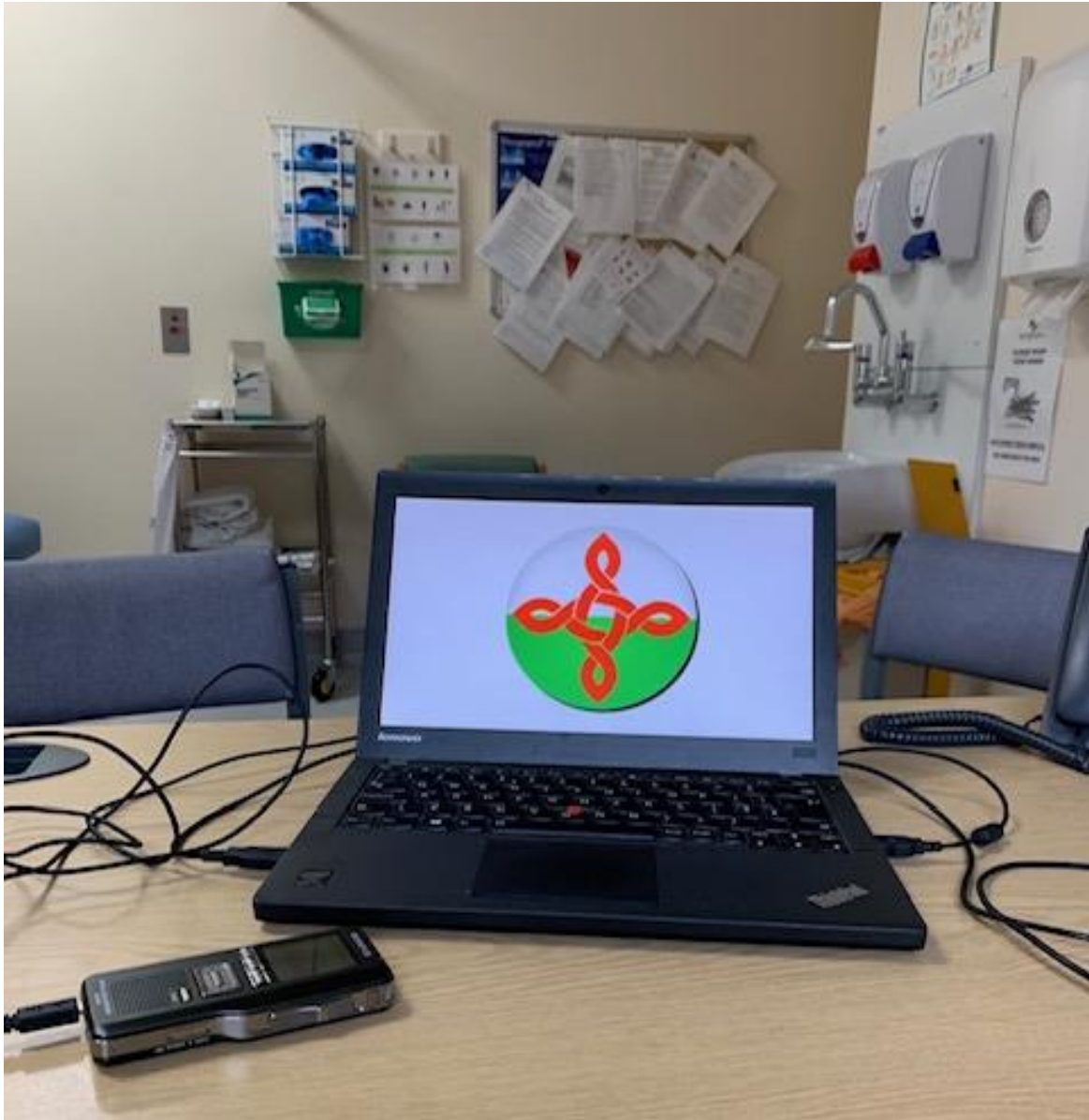
Nursing staff praying the WiFi will be working for Mr Hurle's ward round

*St Elsewhere Hospital 2022*

# Workforce



- Master staff index
- Office 365





April '21 – January '23



WNCR is live in **all 8** health board/trust sites in Wales.



WNCR being used in **223** wards across **39** hospital sites.  
This accounts for **61%** of eligible wards in Wales.



**11,238** monthly users

Over **11 k** distinct users since go-live

Over **39 k** temporary accounts since go-live



**86,971** inpatients have been digitally assessed



Over **2.8 million** digital risk assessments completed



WNCR has captured over **3.5million** inpatient nursing notes

## Risk Assessments



- Over **1.8 million** pain assessments

- Over **394 k** pressure ulcer risk assessments

- Over **230 k** continence risk assessments

- Over **223 k** falls risk assessments

- Over **218 k** patient handling risk assessment

- Over **217 k** nutritional risk assessments

- Over **12 k** mouth care assessments



**105,901** assessments have been **shared** with our **National Repository**, making them available across all of Wales.

Over **86k** of these assessments have been viewed by another **Health Board team** ~ 1/5



**NHS 111** *Wales*

**IS HERE**

[111.wales.nhs.uk](https://111.wales.nhs.uk)



Call 111



Health Information | Advice | Access to Urgent Care

## Choose Pharmacy

### Do you need to see a doctor today?

If you think it's...

indigestion, constipation, diarrhoea, piles, hay fever, head lice, teething, nappy rash, colic, chicken pox, threadworms, sore throat, athlete's foot, eye infections, conjunctivitis, mouth ulcers, cold sores, acne, dry eyes, dermatitis, verruca, back pain, ingrowing toenails, vaginal thrush, oral thrush, scabies.

Your **Community Pharmacist** can provide free confidential NHS advice and treatment without you having to make an appointment to see your GP.

# CASINO HACKED THROUGH A FISH TANK



Written by JBi Digital  
20.07.17  
Happening in the World

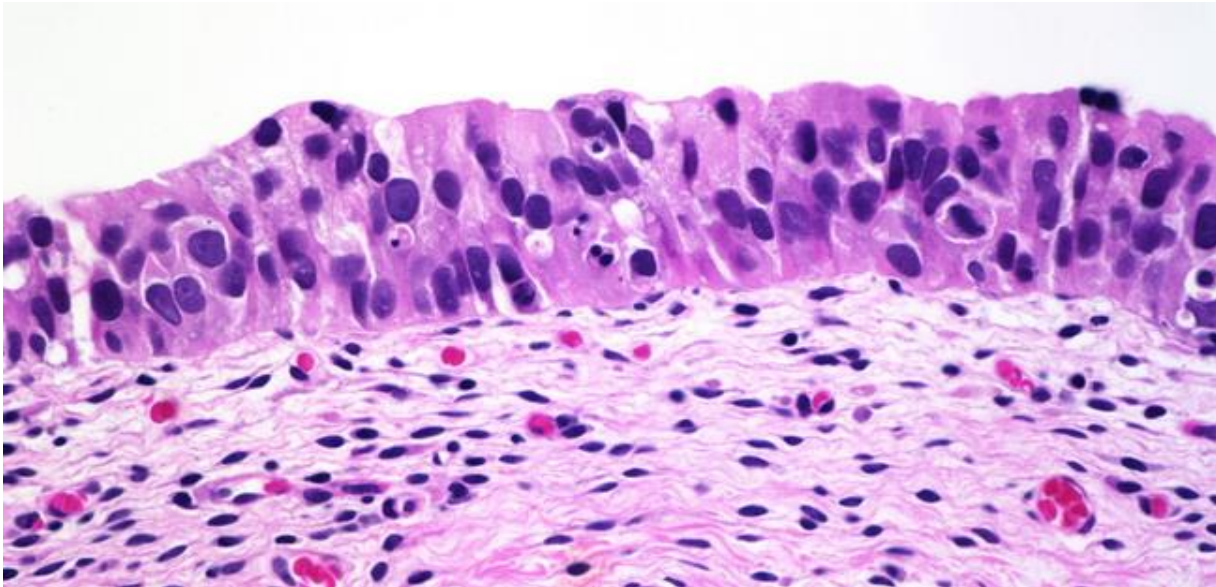






Gwasanaethau Digidol  
ar gyfer Cleifion a'r Cyhoedd  
Digital Services  
for Patients and Public





PAS - NHS No: 972 152 2562 | Hospital No: N4088267 | MCTESTFACE, Testy (M) | Born: 25-Dec-1986 (31y)

**Pathology Request - Please Select Required Tests**

**Date Required:** \* 31/10/2018  Tomorrow  Time Series Request  Urgent  Fasting

**Patient Location:** \* Morriston Acute Medical Assessment Unit East

**Requesting Clinician:** \* Dr J A Chess

**Contact Number:** \* 21234  Contact number confirmed  Mark the request as sensitive **Patient Type:**  NHS  Private

**Request Sets:**    There are no items in the personal top 10

**All available tests:** Urea and electrolytes (Urine)

**\* The following tests will be requested:**

- Full blood count (Blood)
- Liver function test (Serum)
- Urea and electrolytes (Urine)

[Open Handbook](#)

**Time period:**

**Clinical Details:** test  **Relevant clinical details:** Patient unwell



Portffolio Trawsnewid Gweinyddu  
**Meddyginiaethau'n** Ddigidol  
Digital **Medicines** Transformation  
Portfolio



# OPEN DATA ARCHITECTURE

**DATA CENTRE INTEGRATION HUB**

SOURCE SYSTEMS

HEALTH BOARD / TRUST

LOCAL CDIC

DATA WAREHOUSE

OTHER ORGANISATIONS

GP DATA

EMIS, VISION, tpp

SOCIAL CARE DATA

OTHER SOURCES

RESEARCH NETWORKS







# NDR

Adnodd Data Cenedlaethol  
National Data Resource

## Open Architecture & Enablers

- Enterprise API Management Solution
- Care Data Repositories
- Terminology Server
- Data Governance Framework

## All Wales Data Platform

- Google Cloud Platform (GCP) Procurement
- NHS Wales GCP Environment
- Data & Analytics Platform Design
- Service Management & Governance

## Data & Analytics

- Data Acquisition Roadmaps / Priority Data Sets
- Analytics Learning Programme
- GitHub
- Secure E-Research Platform

## Federated Workstreams

- New and upgrades to Local Data Architectures
- Data acquisition
- Integration with National Platform

# Welcome to the Welsh Value in Health Centre



Canolfan Gwerth  
mewn Iechyd Cymru  
Welsh Value  
in Health Centre

Enabling a whole system  
approach to **value-based**  
healthcare for Wales.

Navigation arrows: < >

Background image: Medical professionals in a clinical setting with a stethoscope and a person's hand.

# Investing in the digital professional

*Our people are our greatest asset*

Welsh Clinical  
Informatics Council



CCIO  
Network  Cymru

CCIO  
Network 

digitalhealth  
networks 

**NHS**  
Digital Academy



FEDERATION  
for INFORMATICS  
PROFESSIONALS



Wales Institute of Digital Information  
Athrofa Wybodaeth Ddigidol Cymru



FACULTY OF  
**CLINICAL  
INFORMATICS**

**bcS** Professional  
Member



Mmm... must have  
shiny things...



@DHCWales



Digital NHS CEO  
of the Year 2021

UK IT  
INDUSTRY  
AWARDS

**WINNER**

Best place to work in IT 2020



'Finance Leader of the Year'  
Digital Finance Awards 2022

Nursing  
Times  
Awards 2020  
30 YEAR ANNIVERSARY

Winners of the Nursing Times Award 2020  
for Technology and Data in Nursing



bcS  
The Chartered  
Institute  
for IT  
UK IT  
INDUSTRY  
AWARDS

Winners of the BCS UK Industry Awards 2021  
for Best Healthcare Project