



PWYLLGOR DATBLYGU STRATEGOL A CHYFLENWI GWEITHREDOL
STRATEGIC DEVELOPMENT AND OPERATIONAL DELIVERY COMMITTEE

DYDDIAD Y CYFARFOD: DATE OF MEETING:	10 November 2022
TEITL YR ADRODDIAD: TITLE OF REPORT:	A Regional Collaboration for Health (ARCH) Portfolio Update Report
CYFARWYDDWR ARWEINIOL: LEAD DIRECTOR:	Lee Davies, Director of Strategic Development and Operational Planning
SWYDDOG ADRODD: REPORTING OFFICER:	Siôn Charles – Head of ARCH Strategy & Service Planning Sophie Marr – ARCH Senior Project/Business Manager

Pwrpas yr Adroddiad (dewiswch fel yn addas)

Purpose of the Report (select as appropriate)

Er Sicrwydd/For Assurance

ADRODDIAD SCAA
SBAR REPORT

Sefyllfa / Situation

This report provides an update on the achievements, next steps and benefits of the ARCH NHS Service Transformation Programme over the period October 2021 – October 2022.

Cefndir / Background

The achievements over the last 12 months and next steps as reported to the ARCH Regional Recovery Group (RRG) are summarised in this report.

Asesiad / Assessment

Cardiology Regional Services

Achievements

- Regional Acute Coronary Syndrome (ACS) pathway agreed in May 2022 and work in development to reinstate the treatment and repatriation of patients in HDdUHB.
- Regional Cardiac Computerised Tomography (CT) training delivered in September 2022 to increase cardiac CT reporting.

Next Steps

- ACS pilot to be implemented in October to support business case development for extended Cath Lab time.
- ACS data to be examined to improve pathway and demonstrate bottlenecks, now being prioritised.
- Echo/Cardiac Physiology proposal to be developed further to support IMTP inclusion and next steps to be agreed.

Regional Neurosciences Services

Achievements

- Final Functional Neurological Disorders (FND) business case regionally approved by Hywel Dda and Swansea Bay in March 2022. Work linked to Regional Stroke Services delivery.
- New two year Regional Neurosciences Programme agreed by ARCH Regional Recovery Group in September 2022.

Next Steps

- Reaffirm the funding commitment for the FND service in the IMTP for 2023/24.
- Neurology Patient and Primary Care website due to launch early October with the support of Comms Team.
- Neuromuscular Disorders (NMD) service critical and initiation meeting required to start work.
- Meeting to discuss a future regional neurosciences programme and service now to take place in November with Hywel Dda and Swansea Bay Medical Directors and Neurosciences Leads.

Regional Dermatology Services

Achievements

- Teledermoscopy pilot in Swansea Bay completed and funding awarded to expand service and make substantive following positive evaluation. Hywel Dda teledermoscopy pilot started September 2022.
- Developed opportunities for regional Secondary Care Doctor Certificate for Eligibility for Specialist Registration (CESR) Development Programme. One doctor currently progressing through CESR programme.

Next Steps

- Complete recruitment for substantive Swansea Bay Teledermoscopy Service December 2022.
- Complete development of regional network of joint audit days, joint clinical governance and joint difficult case meetings to progress the development of a regional Consultant Support Network.
- Complete rota for GP training and supervision sessions at Prince Philip and Withybush Hospitals November 2022 as part of Dermatology Speciality Training and Development Programme.

Regional Eye Care Services

Achievements

- Hywel Dda Diabetic Retinopathy Referral Refinement Scheme implemented March 2022.
- Additional theatre sessions started at Singleton Hospital in July 2022 and Amman Valley Hospital in October 2022 as part of the Cataracts Recovery Plan.

Next Steps

- Complete changes to the South West Wales Glaucoma Business Case November 2022.
- Evaluate Swansea Bay Diabetic Referral Refinement Scheme once waiting list removed November 2022.

Regional Pathology Services

Achievements

- Gateway PAR review completed March 2022.
- Internal fees secured to progress Outline Business Case (OBC) production and transformational activities April 2022.
- Programme Director recruited September 2022.
- Communications and Engagement Strategy approved by Board.
- Regional Pathology Governance Structure approved by Board.
- Regional Immunology Services options appraisal complete.

Next Steps

- Hywel Dda/Swansea Bay Public Board approval of Management Model Options Paper in November 2022.
- Life Sciences Hub Wales conducting the mapping of Innovators, Experts, Aspirational Laboratories and Leaders in Pathology across the globe.
- Complete Genomics Vision paper.
- Complete financial appraisal of two preferred Immunology options.

South West Wales Regional Cancer Services

Achievements

- South West Wales Cancer Centre Regional Year 1 – 3 priorities detailed in Health Board IMTPs completed March 2022.
- Ten year Radiotherapy (RT) Infrastructure Plan submitted to Welsh Government in July 2022 following Swansea Bay and Hywel Dda Board approval.
- Regional Stakeholder Engagement sessions held August-September 2022.

Next Steps

- Review fifth linac options appraisal.
- Confirm programme for Oncology Outpatients regional model design.
- Strategic Programme Case (SPC) formal approval through regional Health Board governance November-December 2022.

South West Wales Regional Stroke Programme

Achievements

- Regional group, workstreams, programme scope, governance and terms of reference agreed October 2022.
- Project Resource Funding awarded September 2022. Recruitment underway.
- Regional modelling workshop held September 2022.

Next Steps

- Sign off Demand and Capacity Model October 2022.
- Sign off Minimum Clinical Standards for Stroke Services October 2022.

Argymhelliad / Recommendation

The Strategic Development and Operational Delivery Committee is asked to NOTE the ARCH NHS Service Transformation Programme Summary achievements, next steps and benefits over the last 12 months.

Amcanion: (rhaid cwblhau) Objectives: (must be completed)	
Committee ToR Reference: Cyfeirnod Cylch Gorchwyl y Pwyllgor:	2.3 Provide assurance to the Board that, wherever possible, University Health Board plans are aligned with partnership plans developed with Local Authorities, Universities, Collaborative, Alliances and other key partners, such as the Transformation Group who form part of A Regional Collaboration for Health (ARCH).
Cyfeirnod Cofrestr Risg Datix a Sgôr Cyfredol: Datix Risk Register Reference and Score:	Not Applicable
Safon(au) Gofal ac Iechyd: Health and Care Standard(s):	2.1 Managing Risk and Promoting Health and Safety 3.3 Quality Improvement, Research and Innovation 7. Staff and Resources 7.1 Workforce
Amcanion Strategol y BIP: UHB Strategic Objectives:	4. Improve the productivity and quality of our services using the principles of prudent health care and the opportunities to innovate and work with partners. 5. Deliver, as a minimum requirement, outcome and delivery framework work targets and specifically eliminate the need for unnecessary travel & waiting times, as well as return the organisation to a sound financial footing over the lifetime of this plan
Amcanion Llesiant BIP: UHB Well-being Objectives: Hyperlink to HDdUHB Well-being Objectives Annual Report	8. Transform our communities through collaboration with people, communities and partners

Gwybodaeth Ychwanegol: Further Information:	
Ar sail tystiolaeth: Evidence Base:	Each element of ARCH is being developed against a series of evidence bases.
Rhestr Termiau: Glossary of Terms:	Included within the body of the report.
Partïon / Pwyllgorau â ymgynhorwyd ymlaen llaw y Pwyllgor Datblygu Strategol a Chyflenwi Gweithredol: Parties / Committees consulted prior to Strategic Development and Operational Delivery Committee:	All items have been discussed within the ARCH programme structure.

Effaith: (rhaid cwblhau) Impact: (must be completed)	
Ariannol / Gwerth am Arian: Financial / Service:	ARCH is funded by the three organisations which form the partnership.

Ansawdd / Gofal Claf: Quality / Patient Care:	The regional models of service will place the patient at its centre and work together with patients and citizens to co-produce healthier people and communities to deliver better outcomes that matter to people. ARCH partners will work with our population to develop local values, focused on the health of our communities. Working with the wider public and third sectors, the Health Boards will implement new regional service models based on the principle of care being provided closer to home. Expanding access through the development of new infrastructure and redeveloping and redefining the use of existing infrastructure will radically transform patient pathways across the region. ARCH will provide a significant contribution to: 1. Addressing the chronic staff shortages for certain specialities/services and in doing so improve quality of care through meeting the correct standards of staffing and providing more consistent staffing. 2. Improving the efficiency with which services are delivered. 3. Increasing non NHS income through expanding research, clinical trials and other collaborative partnerships with industry. Over time, reduce or stabilise the burden from chronic disease through prevention and public engagement with their health.
Gweithlu: Workforce:	ARCH will provide a significant contribution to addressing the chronic staff shortages identified across the Health Board; this will be achieved through: i. Improving training numbers and retention ii. Where appropriate moving to regional delivery of certain service models In doing so reducing the premium rate variable pay costs.
Risg: Risk:	The ARCH Board maintains a wide ranging risk register that is reviewed at every ARCH Board meeting and by the Delivery and Leadership Group of the ARCH Partnership (an Executive Level meeting at which all three partners are represented).
Cyfreithiol: Legal:	Not Applicable
Enw Da: Reputational:	Not Applicable
Gyfrinachedd: Privacy:	Not Applicable
Cydraddoldeb: Equality:	Equality Impact Assessments will be undertaken on each of the projects within the PDP as they are developed as an integral part of each business case

ADOLYGIAD ARCH

2021 - 2022

Rhagair



Croeso i adolygiad blynyddol cyntaf ARCH (Cydwethrediad Rhanbarthol dros lechyd). Rwy'n gyffrous i rannu gyda chi rai o uchafbwyntiau'r gwaith rydym wedi'i wneud yn ystod 2021/22 wrth i ni geisio cyflawni newid i wella iechyd a lles pobl ledled De-orllewin Cymru.

Mae wedi bod yn flwyddyn brysur ac fel llawer o sefydliadau eraill mae ARCH wedi cael ei ailosod ar ôl effaith y pandemig a effeithiodd ar rywfaint o'n gwaith ac a dynnodd y tîm at heriau cymorth gweithredol.

Roedd yr ailosod yn gyfle i ailffocysu ein blaenoriaethau strategol, ein strwythur ac i gytuno ar sut beth fyddai llwyddiant wrth i ni geisio ailfywiogi ein hymdrechion o amgylch rhai rhaglenni trawsnewid allweddol a gwaith arloesi. Roeddem hefyd am ganolbwyntio'n benodol ar sefydlogi, adfer a sefydlu gwasanaethau rhanbarthol cadarn a chynaliadwy.

Mae gennym bortffolio uchelgeisiol o waith rhanbarthol a chredwn mai dull cydgysylltiedig yw'r unig ffordd y gallwn gyflawni camau gweithredu sy'n helpu i leddfu'r pwysau ar wasanaethau iechyd a gofal, cryfhau gweithluoedd a llywio gwyddor bywyd bywiog economi.

Mae'r tri phartner, Bwrdd Iechyd Prifysgol Bae Abertawe, Bwrdd Iechyd Prifysgol Hywel Dda a Phrifysgol Abertawe yn cydweithio drwy ARCH ac yn cydweithio â sefydliadau eraill, gan ddwyn ynghyd arbenigedd a gwybodaeth am arloesi a thrawsnewid ym maes iechyd a gofal.

Mae ein blaenoriaethau allweddol wedi'u rhannu'n dri maes; Trawsnewid gwasanaethau'r GIG; gweithlu, addysg a sgiliau; ac ymchwil, menter ac arloesi. Fel y gwelwch wrth ichi ddarllen drwy ein hadroddiad, mae llawer o gynnydd wedi'i wneud gyda rhai llwyddiannau nodedig.

“
Mae ein blaenoriaethau allweddol
wedi'u rhannu'n dri maes;
Trawsnewid gwasanaethau'r GIG;
gweithlu, addysg a sgiliau; ac
ymchwil, menter ac arloesi.”



Roeddem yn arbennig o falch bod ein hachos busnes i ddatblygu a darparu'r gwasanaeth rhanbarthol cyntaf erioed yng Nghymru i helpu pobl ag Anhwylder Niwrolegol Gweithredol wedi'i gymeradwyo. Roedd cyflwyno Canolfannau Diagnostig a Thriniaeth Offthalmig rhanbarthol i gefnogi pobl â glawcoma hefyd yn gyflawniad mawr a bydd yn sicrhau bod cleifion yn cael gofal mwy amserol a gwell profiad.

Mae uchafbwyntiau eraill yn cynnwys cefnogi ein partneriaid ym mhrosiectau Bargaen Ddinesig Bae Abertawe, yn arbennig, y gwaith i ddatblygu'r prosiect Campysau Gwyddor Bywyd, Llesiant a Chwaraeon yn Nhreforys a Singleton, a datblygiad Pentre Awel yn Llanelli. Rydym yn falch o fod yn rhan o'r gwaith hwn a fydd yn gwneud gwahaniaeth gwirioneddol i iechyd, cyfoeth a lles y boblogaeth leol.

Roedd hefyd yn galonogol cael ein cynnwys yn adroddiad Cydffederasiwn y GIG a Rhwydwaith y Prifysgolion Dinesig '[Ail-ddychmygu'r](#)

[berthynas rhwng prifysgolion a'r GIG](#)' fel enghraifft o weithio mewn partneriaeth.

Yn olaf ond byth yn lleiaf yw'r gwaith ysbrydoledig rydym wedi bod yn ei wneud gyda'n partneriaid yn y gofod arloesi a dysgu. Syniadau gwych sy'n gwneud gwahaniaeth i ofal cleifion a gwasanaethau sy'n fy nghodi yn y bore! Mae ARCH wedi bod yn falch iawn o arwain sawl hac iechyd lle mae pobl sy'n gweithio yn y gwasanaeth yn dod o hyd i atebion posibl i heriau a throsi hyn yn gamau gweithredu.

Rydym hefyd wedi datblygu rhaglenni addysg i roi'r sgiliau sydd eu hangen ar staff i drawsnewid ein gwasanaeth iechyd a gofal fel ei fod yn addas ar gyfer y dyfodol.



Siôn Charles

Pennaeth Strategaeth a Chynllunio Gwasanaeth, ARCH

"Mae'n gwaith gyda BIP Hywel Dda a Phrifysgol Abertawe yn dwyn newid diriaethol i'n rhanbarth ar sail newid allweddol trawsnewidol i wasanaethau ac yn adeuladu ar ein potensial i feithrin cyfundrefnau mwy cymwys ar y cyd."



Mark Hackett,
Prif Weithredwr,
Bwrdd Iechyd
Prifysgol Bae
Abertawe

"Mae ARCH wedi parhau i esblygu a datblygu, yn enwedig dros y ddwy flynedd ddwetha gyda'r heriau digynsail yn sgil y pandemic. Fel cydweithrediad, mae wedi' brofi i fod yn fcanwaith effeithiol o weithio rhanbarthol y byddwn ei angen fwy fwy wrth i ni ddatrys, ailadeiladu a datblugu gwasanaethau yn Ne Orllewin Cymru."



Steve Moore,
Prif Weithredwr,
Bwrdd Iechyd
Prifysgol Hywel Dda

"Ym Mhrifysgol Abertawe, rydym yn gorffwys gwerth mawr ar ein partneriaeth gyda'r GIG. Rydym yn falch dros ben o'r gwahaniaeth diriaethol gallwn wneud i fywydau pobl trwy'n cydweithio ystyrlon, sy'n pontio addysg, datblygu gweithlu, arloesi ag ymchwil."



Yr Athro Paul Boyle,
Is-ganghellor,
Prifysgol Abertawe

Pwy ydym ni a beth rydym yn ei wneud

Mae ARCH yn bartneriaeth unigryw rhwng Bwrdd Iechyd Prifysgol Bae Abertawe, Bwrdd Iechyd Prifysgol Hywel Dda a Phrifysgol Abertawe sy'n anelu at wella iechyd, cyfoeth a lles rhanbarth De-orllewin Cymru.

Wedi'i ffurfio yn 2015, mae rhanbarth ARCH yn rhychwantu ardaloedd awdurdodau lleol Ceredigion, Sir Benfro, Sir Gaerfyrddin, Castell-nedd Port Talbot ac Abertawe. Mae gennym bortffolio uchelgeisiol o raglenni gwaith rhanbarthol a phrosiectau unigol a arweinir gan uchelgeisiau strategol y sefydliadau partner ac a ategir gan bolisi Llywodraeth Cymru, 'Cymru Iachach'.

Ein nod yw sicrhau newid ystyrllon i gefnogi'r boblogaeth leol. Elfen allweddol o Bartneriaeth ARCH yw gweithio ar y cyd ag awdurdodau lleol a diwydiant fel rhan o Fargen Ddinesig Bae Abertawe, buddsoddiad o £1.3bn a ddyfarnwyd gan lywodraeth y DU i gyflawni naw rhaglen waith a chreu mwy na 9,000 o swyddi.

Drwy gydweithio, mae partneriaid ARCH yn:

- Gwellu iechyd ein cymunedau, lleihau anghydraddoldebau a grymuso a meithrin hyder yn y boblogaeth i reoli eu hiechyd a'u lles eu hunain
- Cydnabod a goresgyn heriau gofal iechyd gwledig a threfol

- Darparu seilwaith a gwasanaethau sy'n cael eu cydnabod am eu rhagoriaeth
- Defnyddio technoleg i ddarparu gwasanaethau arloesol a gwybodaeth sy'n cefnogi Gofal Iechyd Darbodus
- Trawsnewid gwasanaethau fel eu bod yn integredig, yn hawdd eu cyrchu a'u llywio gydag iechyd, darparwyr gofal cymdeithasol, y sector cyhoeddus, y sector preifat a'r trydydd sector yn cydweithio dros ein cymunedau
- Annog gallu'r GIG i arloesi a throsi syniadau er budd economaidd y rhanbarth
- Creu a chefnogi amgylcheddau arloesi agored lle mae gwyddoniaeth, ymarfer a menter sy'n arwain y byd yn cael eu huno â'i gilydd
- Harneisio, meithrin a mabwysiadu mentrau gwyddor bywyd cartref tra hefyd yn denu arloeswyr byd-eang
- Creu amgylcheddau dysgu a hyfforddi aml-broffesiynol i gefnogi'r gweithlu a chynyddu cyfleoedd i bobl yn Ne-orllewin Cymru.

I gael rhagor o wybodaeth am ARCH ewch i'n gwefan: www.arch.wales

Uchafbwyntiau ARCH 2021/2022

Ym mis Mawrth 2021, cytunwyd y byddai ein partneriaeth ranbarthol yn canolbwyntio ar dri maes blaenoriaeth allweddol;



01

Trawsnewid
gwasanaethau'r GIG



02

Addysg,
gweithlu a sgiliau



03

Ymchwil,
menter ac arloesi

Mae'r rhain yn cyd-fynd â chynlluniau Bwrdd Iechyd Prifysgol Bae Abertawe (BIP) a Bwrdd Iechyd Prifysgol Hywel Dda (BIP) ac â gweledigaeth a blaenoriaethau strategol Prifysgol Abertawe.

Mae'n agenda gyffrous sy'n nodi prosiectau a fydd yn gwella gofal a chymorth i bobl yn Ne-orllewin Cymru, yn helpu'r GIG i

adsefydlu ac adfer yn dilyn y pandemig, ac yn helpu i sefydlu gwasanaethau rhanbarthol cadarn, cynaliadwy ac o safon.

Dyma rai o uchafbwyntiau ein cynnydd a'n llwyddiant dros y flwyddyn ddiwethaf.

Trawsnewid Gwasanaethau'r GIG

Un cam yn nes at ddatblygu'r gwasanaeth Anhwylderau Niwrolegol Gweithredol cyntaf erioed yng Nghymru Wales

Cymerodd ein gweledigaeth o greu gwasanaeth rhanbarthol newydd i helpu pobl ag Anhwylder Niwrolegol Gweithredol (FND) gam mawr ymlaen pan gafodd ein hachos busnes ei gymeradwyo ym mis Mawrth.

Mae FND yn gyflwr cyffredin sy'n achosi anabledd sy'n achosi amrywiaeth o symptomau anesboniadwy gan gynnwys llewyg, parlys a symudiadau annormal.

Ar hyn o bryd nid oes unrhyw lwybrau gofal ar waith i gefnogi cleifion ac mae diffyg gwybodaeth gan lawer o staff yn y maes arbenigol hwn sy'n arwain at oedi wrth wneud diagnosis, mynd i'r ysbyty a phractisau meddygon teulu yn aml, triniaeth, cymorth a chanlyniadau gwael.

Mae ein hachos busnes yn manylu ar bwysigrwydd sefydlu gwasanaeth rhanbarthol newydd a fyddai'n

darparu gofal diogel, effeithiol a theg. Bydd yn datblygu llwybrau gofal wedi'u teilwra i anghenion unigol ac yn gwella diagnosis, triniaeth a chymorth. Mae hefyd yn manylu ar yr angen i ddarparu hyfforddiant arbenigol i staff ac i weithio'n agos gyda gwasanaethau iechyd a gofal ar draws y rhanbarth.

Datblygwyd yr achos busnes mewn cydweithrediad â Bwrdd Iechyd Prifysgol Bae Abertawe, BIP Hywel Dda, Prifysgol Abertawe a mewnbwn gan weithwyr proffesiynol ar draws y niwrowyddorau, gofal sylfaenol, eilaidd a chymunedol, therapïau, y trydydd sector ac elusennau.

Cynhaliom hefyd weminar ymwybyddiaeth FND rithwir ym mis Mehefin a fynychwyd gan fwy na 120 o bobl a chafodd eu mewnbwn ei fwydo i'r achos busnes.

“

Mae cymeradwyo'r achos busnes yn teimlo fel cyflawniad gwirioneddol. Mae ein holl gydweithwyr yn credu bod hwn yn gyfle unwaith mewn cenhedlaeth i ddatblygu gwasanaeth FND rhanbarthol cynhwysfawr o safon fyd-eang ar gyfer De-orllewin Cymru. Hwn fyddai'r tro cyntaf i Gymru ac yn un o lond llaw yn unig ar draws y DU. Yna gellid defnyddio'r model fel templed ar gyfer dull Cymru gyfan.”



Dywedodd yr Athro Inder Sawhney, Niwrolegydd Ymgynghorol, Bwrdd Iechyd Prifysgol Bae Abertawe

Realiti a Gynorthwyr mewn Ecocardiograffeg

Mae ein cynnig i ddatblygu offeryn arloesol i gefnogi hyfforddiant a chynnig arbenigedd byw, anghysbell a chywir mewn ecocardiograffeg wedi cael £35,000 i'w symud ymlaen gan Lywodraeth Cymru.



Arloesi cardioleg

Mae gwasanaethau ecocardiograffeg (a ddefnyddir i wneud diagnosis o gyflyrau'r galon) ym Mwrdd Iechyd Prifysgol Bae Abertawe a Hywel Dda o dan bwysau sylweddol i ateb y galw, sydd wedi'i waethgu gan yr ôl-gronid pandemig. Mae heriau hefyd o ran darparu hyfforddiant i staff.

Bydd y cyllid a gawsom yn ein helpu i weithio gyda busnes lleol i ddatblygu meddalwedd pwrpasol a chlustffon realiti â chymorth (AR) di-ddwylo y gellir ei ddefnyddio gyda PPE a gwrthsefyll glanhau trwyadl.

Byddwn yn datblygu platfform newydd sy'n cael ei ysgogi gan lais sy'n galluogi ymarferwyr mewn adlais i gael mynediad at arbenigedd byw o bell gyda ffrydio delweddau o safbwynt yr ecocardiograffydd. Bydd yr un platfform yn galluogi'r ecocardiograffydd i ddefnyddio actifadu llais i gael mynediad at ddeunydd cyfarwyddiadol wrth berfformio'r prawf. Mae hyn yn cynnwys delweddau a mesuriadau enghreifftiol, llifoedd gwaith a chanllawiau, i gyd trwy feicro-dabled ar y clustffon.

Os yw'n effeithiol, gellid cynyddu'r ymyriad hwn i'w gyflwyno ledled Cymru a thu hwnt. Mae cyfle hefyd i gynhyrchu eiddo deallusol newydd gyda gwerth masnachol, a fydd yn cael ei ymchwilio fel rhan o'r cynnig.

Gwella llwybr Syndrom Coronaidd Acíwt i gleifion

Mae gwaith yn parhau i ddatblygu gwasanaeth mwy cynaliadwy ac effeithiol i gefnogi cleifion â syndrom coronaidd aciwt. Mae hyn yn cynnwys gwella mynediad at ddiagnosteg a thriniaeth cardiaidd o fewn y targed 72 awr a osodwyd gan y Sefydliad Cenedlaethol dros Ragoriaeth mewn Iechyd a Gofal (NICE).

Mae hyn yn golygu y bydd cleifion sy'n cael eu derbyn i ysbyty unrhyw le yn Ne-orllewin Cymru ac sydd angen triniaeth arbenigol yn cael eu trosglwyddo i'r ganolfan gardiaidd yn Ysbyty Treforys ac yna'n cael eu dychwelyd i'w hysbyty lleol. Mae'r gwaith wedi ei gwneud yn ofynnol i dimau Cardioleg ar draws y rhanbarth gydweithio'n agos i wella prosesau a chyfathrebu gyda chefnogaeth Rhwydwaith Cardiaidd Cymru a'r Uned Cyflawni Ariannol. Mae gwella'r llwybr hwn yn cynnig cyfleoedd i wneud arbedion effeithlonrwydd yn ogystal â gwella'r gwasanaeth y mae pob claf yn ei dderbyn.

Datblygu Canolfan Ganser De-orllewin Cymru (SWWCC) a thrawsnewid gwasanaethau cancer rhanbarthol

Mae gwaith yn parhau ar ddatblygu Achos Busnes Rhaglen Drawsnewidiol i gefnogi'r gwaith o ddarparu gwasanaethau cancer rhanbarthol yn Ne-orllewin Cymru.

Mae Canolfan Ganser De-orllewin Cymru, sydd wedi'i lleoli yn Ysbyty Singleton yn Abertawe, yn un o dair canolfan arbenigol yng Nghymru, ochr yn ochr â Felindre yng Nghaerdydd sy'n gwasanaethu De-ddwyrain Cymru a Chanolfan Ganser Gogledd Cymru. Mae SWWCC yn darparu'r holl wasanaethau cancer ar gyfer De-orllewin Cymru (Bwrdd Iechyd Prifysgol Bae Abertawe, Bwrdd Iechyd Prifysgol Hywel Dda, Bwrdd Iechyd Addysgu Powys ac ardal Pen-y-bont ar Ogwr o Fwrdd Iechyd Prifysgol Cwm Taf Morgannwg), gan wasanaethu poblogaeth o 907,000, ar wahân i gyfran fach o wasanaethau arbenigol iawn sy'n cyrchwyd mewn man arall. Y nod cyffredinol yw datblygu'r SWWCC ymhellach fel y gall ddarparu mynediad gwell i driniaethau cancer arloesol newydd i gleifion ledled De-orllewin Cymru.

Mae'r gwaith hwn yn adeiladu ar yr uchelgais rhanbarthol a osodwyd gan Strategaeth Oncoleg An-lawfeddygol ARCH yn 2018 i 'ddarparu'r gofal cancer gorau posibl i bobl De-orllewin Cymru'.

Yn ystod y 12 mis diwethaf mae Grŵp Rhaglen Strategol Rhanbarthol wedi'i sefydlu ar y cyd gan Fwrdd Iechyd Prifysgol Bae Abertawe a Bwrdd Iechyd Prifysgol Hywel Dda i oruchwyllo datblygiad yr achos busnes. Dywedodd Karen Stapleton, Cyfarwyddwr Cynorthwyol Strategaeth ym Mwrdd

Iechyd Prifysgol Bae Abertawe sy'n cyd-gadeirio'r grŵp, "Mae sefydlu'r grŵp hwn wedi bod yn gam pwysig tuag at gyflawni'r gwelliannau mawr eu hangen i driniaethau cancer, ac yn bwysicaf oll, canlyniadau a phrofiadau gwell i gleifion â chanser yn rhanbarth De-orllewin Cymru".

Mae gwaith wedi'i wneud i edrych ar y galw sylfaenol am wasanaethau cancer a'r capasiti y byddai ei angen i fodloni'r galw hwnnw. Bu ffocws hefyd ar ddechrau datblygu model rhanbarthol ar gyfer gwasanaethau radiotherapi a gwasanaethau oncoleg i gleifion allanol. O bwys arbennig, yw'r newyddion y bydd y SWWCC yn darparu Gwasanaeth yr Ysgyfaint Radiotherapi Abladol Stereotactig (SABR), o fis Ebrill 2022. Mae hon yn driniaeth ymbelydredd allanol â ffocws uchel sy'n darparu dos dwys sy'n canolbwyntio ar diwmor tra'n cyfyngu'r dos i organau cyfagos (gan leihau'r risg i gelloedd normal). Mae'r datblygiad hwn yn golygu na fydd yn rhaid i gleifion bellach deithio i Ganolfan Ganser Felindre yng Nghaerdydd i dderbyn SABR. Sicrhawyd cyllid hefyd i amnewid y peiriant trin radiotherapi hynaf gyda'r model mwyaf diweddar a fydd yn gwneud y mwyaf o gapasiti'r ganolfan i drin cleifion radiotherapi. Disgwylir i'r gwaith adeiladu gael ei gwblhau yn ystod yr ychydig fisoedd nesaf gyda'r peiriant newydd yn dod yn weithredol o Awst 2022.



Lansio gwasanaeth Teledermatoleg peilot i wella gofal i gleifion

Fel rhan o'n nod i ddatblygu gwasanaeth dermatoleg rhanbarthol ar gyfer De-orllewin Cymru, lansiodd partneriaid ARCH gynllun peilot Teledermatoleg ym Mwrdd Iechyd Prifysgol Bae Abertawe ym mis Medi.

Mae'r peilot yn canolbwyntio ar dynnu lluniau clinigol o newidiadau croen a'u hanfon at arbenigwr i'w hasesu o bell ar gyfer diagnosis a rheolaeth. Nod y model gwaith newydd yw atal cleifion rhag mynychu apwyntiadau corfforol cleifion allanol yn ogystal â darparu gofal yn nes at eu cartrefi.

Mae dau glinig yn cael eu cynnal bob wythnos yn Ysbyty Singleton yn Abertawe ac mae canfyddiadau hyd yn hyn yn dangos bod y gwasanaeth yn effeithiol o ran atal cyfran uchel o apwyntiadau cleifion allanol y gellir eu hosgoi. Bu gostyngiad hefyd mewn rhestrau aros ac mae 56% o gleifion wedi'u rhyddhau'n uniongyrchol o'r clinig yn ôl i ofal sylfaenol.

Sefydlogi gweithlu'r Gwasanaethau Dermatoleg Rhanbarthol

Bu cynnydd yn y gwaith o sefydlogi a chynyddu hyfforddiant ar gyfer gweithlu'r Gwasanaeth Dermatoleg yn ystod y 12 mis diwethaf gyda chynllun hyfforddi meddygon teulu rhanbarthol ar waith ym mis Tachwedd 2021.

Cyflwynwyd achos busnes i gefnogi datblygiad gwasanaeth rhanbarthol cynaliadwy yn gynnwys eleni ynghyd â chreu swydd rhanbarthol

newydd ar y cyd ar gyfer llawfeddyg plastig ymgynghorol. Nod yr holl waith hwn yw cadw a denu staff, lleihau amseroedd aros a gwella profiadau a chanlyniadau cleifion.

“

Mae gweld prosiectau ar draws portffolio ARCH yn dwyn ffrwyth dros y flwyddyn ddwetha wedi bod yn bleser mawr. Fel partneriaeth unigrhyw yng Nghymru gallwn nawr gychwyn go iawn i wella iechyd, cyfoeth a lles poblogaeth De Orllewin Cymru. Bydd rhaglen y dyfodol yn ein galluogi' adeiladu ar hyn a chefnogi ein gwaith trawsnewidol ar draws ein tri maes blaenoriaeth.”



Siân Harrop-Griffiths,
Cyfarwyddwraig Strategaeth,
Bwrdd Iechyd Prifysgol
Bae Abertawe



Trawsnewid Gwasanaethau Patholeg Rhanbarthol

Mae ein prosiect trawsnewid Patholeg Ranbarthol ARCH newydd ar y gweill ac yn cynyddu stêm. Cymeradwywyd yr achos amlinellol strategol gan Lywodraeth Cymru ac mae gwaith yn parhau ar ein hachos busnes amlinellol a gyflwynir ym mis Gorffennaf 2023. Bydd y rhaglen yn creu un gwasanaeth rhanbarthol gan gynnwys datblygu Canolfan Ragoriaeth Patholeg newydd ar safle Ysbyty Treforys, integreiddio'r datblygiadau technolegol a digidol diweddaraf, gan gynnwys deallusrwydd artifisial. Mae nifer o weithgorau wedi eu sefydlu i symud y gwaith yn ei flaen gan gynnwys; Patholeg Gellog, Meddygaeth Labordy, Genomeg, Microbioleg, Grŵp Gorchwyl a Gorffen Rheoli, ac Ymchwil ac Arloesi.

"Rydym yn edrych ymlaen at ddarparu cyfleusterau o'r radd flaenaf a newid gwasanaethau a fydd yn darparu gwasanaethau o ansawdd a chanlyniadau iechyd gwell i'n poblogaeth. Byddwn hefyd yn cyflwyno galluedd arloesi ac ymchwil i ddatblygu ac arwain datblygiadau gwasanaeth yn y dyfodol ochr yn ochr â rhaglenni addysg a hyfforddiant newydd."



Christine Morrell, Cyfarwyddwr Therapiau a Gwyddorau Bywyd ym Mwrdd Iechyd Prifysgol Bae Abertawe, ac Arweinydd Gweithredol y prosiect Patholeg

Datblygu Gwasanaeth Gofal Llygaid Rhanbarthol

Mae ein nod o ddatblygu gwasanaeth gofal llygaid rhanbarthol cynhwysfawr ar gyfer De-orllewin Cymru yn parhau i wneud cynnydd. Mae ARCH wedi cefnogi cyflwyno Canolfannau Diagnosis a Thriniaeth Offthalmig (ODTC) mewn practisau optometreg gofal

syllaenol ar draws y rhanbarth, gan adlewyrchu gwaith y ODTCau hirsefydlog yn ardal Bwrdd Iechyd Prifysgol Bae Abertawe. Mae'r canolfannau hyn yn darparu gofal hynod effeithiol i gleifion â glawcoma a chyflyrau'r retina. Bydd y gwaith hwn yn cefnogi'r ddau fwrdd iechyd i sefydlogi a datblygu modelau gofal cynaliadwy ar gyfer y dyfodol.

"Mae hwn yn gyfnod cyffrous gan ein bod yn gwybod y bydd datblygu gwasanaeth glawcoma rhanbarthol darbodus yn helpu i ddiwallu'r angen am wasanaethau gofal llygaid. Gwyddom fod gennym lwybrau clinigol da ar gyfer glawcoma ond mae angen mwy o gapasiti arnom i ddarparu'r gofal sydd ei angen. Bydd hyn yn helpu i leihau amseroedd aros a theithio i gleifion yn ogystal â darparu gofal mwy effeithiol a phrofiad gwell."



Mike Austin, Offthalmolegydd Ymgynghorol, BIP Bae Abertawe ac Uwch Ddarlithydd Clinigol Anrhydeddus yn Ysgol Feddygol Prifysgol Abertawe

Mae gwaith hefyd yn parhau ar gynlluniau i ddatblygu a chyflawni strategaeth i gryfhau'r gweithlu offthalmoleg gan fod heriau wedi bod yn y gorffennol i gadw a recriwtio staff. Mae nifer o offthalmolegwyr ymgynghorol, ymarferwyr glawcoma anfeddygol a thechnegwyr offthalmig wedi'u penodi i ddarparu gwasanaethau ar gyfer y ddau fwrdd iechyd. Bydd yr aelodau tîm newydd hyn yn darparu ystod lawn o driniaethau yn ogystal â gweithdrefnau laser a llawfeddygol ar gyfer cleifion glawcoma. Mae gwaith adeiladu ar gyfer y Theatr Offthalmoleg Fodiwlaid newydd yn Singleton ar y trywydd iawn a disgwylir iddo agor ym mis Gorffennaf 2022. Bydd y theatr ychwanegol yn cyflwyno 200 o achosion ychwanegol y mis. Mae buddsoddiad hefyd wedi'i wneud ar safle Ysbyty Dyffryn Aman er mwyn galluogi'r ganolfan ddydd i gael ei defnyddio ar gyfer llawdriniaethau cataract.

Datblygu addysg, gweithlu a sgiliau



Rhaglen Datblygu Arweinwyr Uwch ARCH

Rydym yn falch o fod wedi datblygu Rhaglen Datblygu Arweinwyr Uwch ARCH gyntaf erioed wedi'i hanelu at arweinwyr clinigol, arweinwyr unedau busnes ac uwch reolwyr.

Datblygwyd y rhaglen gydag Academi Dysgu Dwys Cymru Gyfan ar gyfer Arloesedd mewn Iechyd a Gofal Cymdeithasol, AgorIP, Academi Sgiliau STEM Prifysgol Abertawe Cymru a Chyfadrannau y Gwyddorau Meddygol, Iechyd a Bywyd ym Mhrifysgol Abertawe.

Mae'r rhaglen 18 mis yn ymdrin â meysydd allweddol gan gynnwys cynllunio gwasanaethau, rheoli adnoddau, arloesi a rheoli newid, achosion busnes a chaffael. Rydym yn edrych ymlaen at recriwtio ein carfan gyntaf ym mis Mai 2022.



Dosbarth Ymchwil Feddygol

Academi Dysgu Dwys ar gyfer Arloesedd mewn Iechyd a Gofal Cymdeithasol

Mae ARCH wedi bod yn gweithio'n agos gyda phartneriaid i gefnogi a chyflawni nifer o feysydd allweddol o fewn **Academi Dysgu Dwys Cymru Gyfan (ILA) ar gyfer Arloesedd mewn Iechyd a Gofal Cymdeithasol** dros y flwyddyn ddiwethaf.

Mae'r CDU wedi'i ddatblygu i ddarparu sylfaen ddysgu, ymchwil ac addysgu o'r radd flaenaf a fydd yn rhoi'r hyder, y sgiliau a'r gallu i arweinyddwyr arloesi ym maes iechyd a gofal a lles.

Wedi'i gefnogi gan Lywodraeth Cymru, a'i ddarparu gydag Ysgol Reolaeth Prifysgol Abertawe, mae'n cynnig fframwaith unigryw o gyfleoedd dysgu a ddarperir mewn partneriaeth â Bwrdd Iechyd Prifysgol Caerdydd a'r Fro, a Chomisiwn Bevan gan gynnwys;

- Cyrsiau rhagarweiniol - gan gynnwys llwyfan dysgu ar-lein sydd ar ddod
- Addysg Weithredol a Dosbarthiadau Meistr - gyda rhaglenni cychwynnol wedi'u datblygu mewn partneriaeth ag ARCH
- Profiadau dysgu dwys - yn amrywio o CLIMB (dan arweiniad BIPCaF) a
- Rhaglenni Academiaidd Uwch (MSc a PhD) - gyda chyfranogiad uwch arweinwyr a rheolwyr ar draws ARCH

Mae gwaith yr ILA wedi bod yn mynd rhagddo'n gyflym gan gynnwys lansio MSc newydd mewn Rheoli Iechyd a Gofal Uwch (Arloesi a Thrawsnewid) sydd â chynrychiolaeth o ARCH, ac sydd bellach yn recriwtio ei ail garfan. Yn ogystal, mae'r garfan PhD yn elwa ar fewnwelediad ymchwil a dynnwyd o fentrau arloesi a arweinir gan ARCH.

Roedd gweithgareddau eraill yn cynnwys Comisiwn Bevan yn arwain y gwaith o ddarparu **Wythnos Dysgu Dwys** ddiwedd mis Tachwedd. Cymerodd mwy nag 85 o weithwyr iechyd a gofal proffesiynol o bob rhan o Gymru ran yn y rhaglen bum niwrnod ar-lein gyntaf gan ddod â'u heriau gweithle unigryw eu hunain fel astudiaethau achos i weithio arnynt.

Rhannodd tua 30 o siaradwyr ddysgu am ymarferoldeb datblygu, cyflwyno ac arwain rhaglenni trawsnewid ar gyfer gwell iechyd a gofal, a llwyddodd y cyfranogwyr i gymhwyso'r hyn a ddysgwyd i ddatblygu syniadau ac atebion newydd.



Academi Dysgu Dwys ar gyfer Iechyd a Gofal Seiliedig ar Werth (VBHC)

Mae'r Academi Iechyd a Gofal Seiliedig ar Werth, sy'n rhan o Raglen Academi Dysgu Dwys Llywodraeth Cymru, hefyd yn cael ei chynnal gan yr Ysgol Reolaeth ym Mhrifysgol Abertawe.

Mae Academi VBHC wedi'i hadeiladu ar dri philer: Addysg, Ymchwil ac Ymgynghoriaeth, i gyd wedi'u hanelu at gynyddu dealltwriaeth o Ofal Iechyd Seiliedig ar Werth a throsi'r ddamcaniaeth yn ymarfer.

Mae gan yr Academi ragolygon rhyngwladol, gan weithio gyda rhai o'r cwmnïau gwyddor bywyd mwyaf fel Pfizer a BD yn ogystal ag arweinwyr systemau iechyd yn GIG Lloegr a'r Alban, ac mae'n denu myfyrwyr o bob rhan o'r DU ac yn rhyngwladol.

Yn ystod y flwyddyn ddiwethaf mae wedi datblygu a chyflawni;

- Cyrsiau Addysg Gweithredol Dwys
- MSc mewn Rheoli Iechyd a Gofal Uwch (Seiliedig ar Werth)
- Doethuriaeth mewn Gweinyddu Busnes (DBA)
- Rhaglen e-ddysgu hunangyfeiriedig
- Gweminarau dosbarth meistr

Mae Academi VBHC yn gweithio'n agos gyda **Canolfan Gwerth mewn Iechyd** GIG Cymru ac yn cefnogi holl Sefydliadau Iechyd Cymru. Mae Academi VBHC hefyd yn cynnal ymchwil gyda Chwmnïau Gwyddor Bywyd a chyda Phartneriaeth Cydwasanaethau'r GIG, yr Uned Cyflenwi Cyllid ac Iechyd a Gofal Digidol Cymru. Mae hefyd yn gweithio gyda Byrddau Iechyd Prifysgol Hywel Dda a Bae Abertawe i ddatblygu cynigion ar gyfer partneriaethau â chwmnïau gwyddorau bywyd.



Mae wedi bod yn gyffrous gweld pa mor gyflym y mae Academi VBHC wedi sefydlu ei hun gyda dros 250 o ddysgwyr wedi cymryd rhan mewn cyrsiau. Rydym wedi dysgu llawer o gydweithwyr Bae Abertawe a Hywel Dda ac rwyf wrth fy modd sut mae ein partneriaid yn ARCH yn dechrau arwain y ffordd yng Nghymru ar VBHC, oherwydd mae'n hanfodol i wneud ein system iechyd yn gynaliadwy.



Hamish Laing,
Cyfarwyddwr Academi VBHC

Cefnogi ymchwil, menter ac arloesi



Prosiect Bargen Ddinesig Campws Gwyddor Bywyd, Llesiant a Chwaraeon Project

Mae ARCH yn falch o fod yn bartner allweddol ym mhrosiect Campysau Bargen Ddinesig Bae Abertawe gwerth £132 miliwn a gymeradwywyd gan Lywodraeth y DU a Llywodraeth Cymru ym mis Rhagfyr 2021.

Gyda £15m wedi'i sicrhau i ddatblygu safleoedd yn Ysbyty Treforys a champws Singleton Prifysgol Abertawe, bydd y prosiect yn darparu arloesedd a thwf yn y sectorau technoleg meddygol a chwaraeon. Bydd hyn yn cynnwys cefnogi ymyriadau mewn gofal iechyd i helpu i atal afiechyd, datblygu triniaethau gwell a gwella gofal, tra hefyd yn hybu

chwaraeon trwy wyddor chwaraeon o safon fyd-eang a chyfleusterau newydd. Y bwriad yw creu dros 1,000 o swyddi yn ardal Abertawe a bydd yn werth dros £150 miliwn i'r economi ranbarthol erbyn 2033.

Bydd yn cael ei gyflwyno mewn dau gam; bydd y cyntaf yn darparu 2000m² o ofod ymchwil ac arloesi pwrpasol o fewn Parc Chwaraeon Lôn Sgeti ar Gampws Singleton Prifysgol Abertawe. Bydd hyn yn sefydlu amgylchedd sy'n cefnogi datblygu, profi a gwerthuso technolegau meddygol, iechyd, lles a chwaraeon, yn ogystal â phartneriaethau masnachol.

Bydd hefyd yn cynnwys adnewyddu adeilad presennol yn Ysbyty Treforys sydd i fod i ddechrau yn ddiweddarach yn 2022. Bydd y wefan hon yn creu gofod Sefydliad Gwyddorau Bywyd 700m² ar gyfer cydweithredu masnachol ac academiaidd ochr yn ochr ag ymchwil a datblygu clinigol.

Unwaith y bydd y cam hwn wedi'i gwblhau, mae ehangu pellach ar y gweill a disgwylir iddo gynnwys Parc Arloesi 55 erw gyda lle i fusnesau bach a chanolig a chwmnïau mawr a fydd yn gweithio gyda'i gilydd mewn ecosystem gwyddorau bywyd, llesiant ac arloesi chwaraeon.

Bydd yr ail gam ar Gampws Singleton yn canolbwyntio ar greu canolfan rhagoriaeth chwaraeon gyda chyfleusterau o'r radd flaenaf ynghyd â thechnoleg chwaraeon ac ymchwil.



Rydym eisiau i Gymru fod yn wlad sydd ar flaen y gad o ran arloesi gyda thechnolegau newydd a fydd o fudd i bobl yn eu bywydau o ddydd i ddydd. Bydd Bargaen Ddinesig Bae Abertawe yn gwella rôl arweiniol Cymru ymhellach mewn technolegau meddygol uwch a gwyddoniaeth. Bydd yn cefnogi busnesau i fanteisio ar gysylltiadau â'r byd academiaidd, gan ddod ag ymchwil o'r radd flaenaf allan o'r labordai a diwydiant ac i'r gymdeithas, er budd ein pobl a'n heconomi.



Vaughan Gething,
Gweinidog Economi
Llywodraeth Cymru

Gallwch ddarllen mwy am brosiect Bargaen Ddinesig Bae Abertawe [yma](#)

Datblygiad Pentre Awel

Mae ARCH yn falch o fod yn cefnogi prosiect Pentre Awel gwerth miliynau o bunnoedd sy'n anelu at ddod â gwyddorau bywyd, arloesi busnes, gofal iechyd cymunedol, byw â chymorth a chyfleusterau hamdden ar safle ger arfordir Llanelli. Mae'r prosiect hwn yn brosiect adfywio gwerth miliynau o bunnoedd a arweinir gan Gyngor Sir Caerfyrddin gyda chyllid rhannol wedi'i sicrhau drwy Fargaen Ddinesig Bae Abertawe.

Bydd y datblygiad yn darparu cyfleusterau busnes ac ymchwil o'r radd flaenaf ynghyd

â darparu gofal iechyd ac ymchwil glinigol i gefnogi ac annog pobl i fyw bywydau egniol ac iach. Bydd yn cael ei gyflwyno fesul cam ar draws pedwar parth, gyda pharth un eisoes wedi'i dendro ac yn y cyfnod cyn-adeiladu a disgwylir ei gwblhau erbyn canol 2024. Bydd y parth hwn yn cynnwys busnesau, gofod ymchwil yn canolbwyntio ar dechnoleg gofal iechyd arloesol, canolfan ymchwil a darparu clinigol a fydd yn canolbwyntio ar ddarparu gofal yn nes at y cartref a chanolfan addysg a hyfforddiant gofal iechyd. Bydd y parth hefyd yn cynnwys canolfan hamdden a dyfrol gwerth £27m.

Bydd parthau eraill yn cynnwys amrywiaeth o lety byw â chymorth a llety gofal, 10,000 metr sgwâr arall o ofod busnes, mannau awyr agored cyhoeddus wedi'u tirlunio, gwesty a thai cymdeithasol a fforddiadwy.



Pentre Awel

Bydd Pentre Awel yn creu tua 2,000 o swyddi a chyfleoedd hyfforddi, ac amcangyfrif o effaith ar yr economi leol o tua £467m.

Darganfyddwch fwy am Pentre Awel [yma](#)

Defnyddio Deallusrwydd Artiffisial i helpu i wneud diagnosis o ganser y croen yn gynt

Er mai dim ond yn y camau datblygu cynnar, mae ARCH yn gyffrous i fod yn rhan o'r prosiect arloesol hwn sy'n edrych i ddatblygu ap Deallusrwydd Artiffisial i helpu i ganfod canser y croen yn gynharach, a ddylai yn ei dro arwain at fynediad cyflymach at driniaeth a gwell canlyniadau ar gyfer y claf.

Mae'r ap yn cael ei gyhoeddi gyda thimau meddygol a dermatoleg BIP Bae Abertawe gyda'n partner diwydiant Meridian IT UK. Dechreuodd y gwaith ym mis Rhagfyr 2019 yn dilyn cyflwyniad llwyddiannus gan ARCH a Meridian IT UK yn Her Arloesi Rhwydwaith Canser Cymru a dyfarnu grant.

"Rydym yn gobeithio datblygu offeryn i gleifion gefnogi eu hunanreolaeth a chanfod yr hyn yw'r pumed canser mwyaf cyffredin yn gynharach. Bydd gwaith mireinio a datblygu pellach yn cael ei archwilio i sicrhau mwy o gywirdeb a hyder cyn profi gyda'r cyhoedd gobeithio."



Steve Evans, Rheolwr
Cynllunio Gwasanaeth ARCH

Mae'r model AI yn defnyddio meddalwedd adnabod gwrthrychau sydd wedi'i 'hyfforddi' gan ddefnyddio set ddata o dros 5000 o ddelweddau o ystod o wahanol friwiau croen i adnabod a dosbarthu delweddau. Mae model perfformiad yr AI wedi cael ei wirio gan Dermatolegwyr Ymgynghorol Bae Abertawe i sicrhau cywirdeb a hyder.

Yn ymarferol, byddai'r defnyddiwr yn cyrchu'r cymhwysiad trwy dynnu llun o'u briw croen

ar eu ffôn symudol, bydd y rhaglen yn asesu'r ddelwedd ac yna'n hysbysu'r defnyddiwr a ddylid ceisio cyngor meddygol ai peidio.

Cwblhawyd y prawf cysyniad ar gyfer yr offeryn AI ym mis Medi 2021 a'r camau nesaf fydd datblygiad pellach i sicrhau mwy o gywirdeb cyn profi gyda'r cyhoedd.



AI Tool

Cefnogi arloesedd yn Hac Iechyd Cymru

Roeddem wrth ein bodd unwaith eto i gefnogi Hac Iechyd Cymru ym mis Chwefror 2022 a ddaeth ag arloeswyr a chlinigwyr ynghyd i ddatblygu atebion i helpu'r GIG yng Nghymru i adsefydlu ac adfer ar ôl y pandemig Covid-19. Roedd y digwyddiad, a gynhaliwyd dros ddau ddiwrnod, yn gwahodd gweithwyr iechyd a gofal cymdeithasol i rannu'r heriau y maent yn eu hwynebu yn eu gwaith.

Yna cafodd yr herwyr eu paru ag arloeswyr o'r sector preifat a phrifysgolion i gydweithio a datblygu datrysiad y maent yn ei gyflwyno i banel i weld a allant sicrhau cyllid cychwynnol o'r gronfa o £320,000 a ddarparwyd gan Lywodraeth Cymru. Dewiswyd 15 o brosiectau fel enillwyr am eu syniadau arloesol i gyflwyno buddion i gleifion a chlinigwyr gan gwmpasu ystod eang o feysydd gan gynnwys diabetes,

iechyd pelfig, arenol a gofal cymdeithasol. Darperir yr Hac Iechyd mewn partneriaeth ag M-Sparc, Hwb Gwyddorau Bywyd Cymru, Llywodraeth Cymru, Accelerate, Comisiwn Bevan, AgorIP, Gofal Cymdeithasol Cymru, Simply Do, a MediWales, gyda chymorth gan bob sefydliad GIG Cymru.

"Yn rhan allweddol o dirwedd arloesi Iechyd a Gofal Cymru, mae Hac Iechyd Cymru yn parhau i fod yn blatfform sy'n ysgogi ac yn cefnogi arloesedd drwy ddod â staff ymroddedig GIG Cymru ynghyd â phrifysgolion a diwydiant partneriaid i ddatblygu atebion technolegol newydd. "Bydd yr atebion a ddatblygwyd gan Hac Iechyd Cymru 2022 yn ein helpu ymhellach ar ein llwybr at adferiad Covid-19 trwy ddatrys heriau iechyd y byd go iawn a gynigir gan ein clinigwyr ac ymarferwyr iechyd yng Nghymru."



Eluned Morgan,
Gweinidog dros Iechyd a
Gwasanaethau Cymdeithasol

Adroddiad Arloesi a Thrawsnewid Covid-19

Cyflwynodd ARCH a phartneriaid, dan arweiniad Prifysgol Abertawe, adroddiad newydd a gomisiynwyd gan GIG Cymru a Llywodraeth Cymru. Roedd yr adroddiad yn cynnwys dysgu ac arfer arloesol sy'n dod i'r amlwg o bob rhan o GIG Cymru mewn ymateb i bandemig Covid-19.

Tynnodd Adroddiad Astudiaeth Arloesedd a Thrawsnewid COVID-19 GIG Cymru o dros 1000 o ymatebion i bum astudiaeth ac arolwg a oedd yn casglu ystod eang o dystiolaeth gan drawstoriad eang o staff, yn ogystal â phum adroddiad cyhoeddedig pellach gan ar draws y sector iechyd a gofal yng Nghymru.

Ffurfiodd yr ymatebion a'r dadansoddiad sylfaen dystiolaeth eang ar gyfer arfer newydd ac arloesol sydd wedi dod i'r amlwg ac sy'n amlinellu rhai o'r camau nesaf. Mae'r themâu a'r dysgu a amlygwyd yn yr adroddiad yn cynnwys gwell mynediad digidol, prosesau gwneud penderfyniadau cyflymach, cynnal cyflymder arloesi a newid a llesiant staff. Cyhoeddwyd set o astudiaethau achos ochr yn ochr â'r adroddiad. Roedd y gwaith hwn yn nodedig am y ffordd y daeth ag ystod eang o randdeiliaid ynghyd, pob un yn cyfrannu cyllid, adnoddau ac arbenigedd at y cynnyrch terfynol. Y gobaith yw y bydd yr adroddiad yn gweithredu fel sail ar gyfer newid yn y modd y darperir gwasanaethau mewn byd ôl-Covid.

"Roedd yr adroddiad, a gyflwynwyd ar gyfer GIG Cymru a Llywodraeth Cymru gan dîm ARCH, yn dod â threfniant o dystiolaeth a dysgu o'r pandemig COVID-19 ynghyd i gefnogi datblygiad y system. Yn ogystal, mae'r model prosiect o gyd-gynhyrchu a gweithredu ar y cyd gan ystod eang o bartneriaid Cymreig wedi gosod cysail ar gyfer prosiectau arloesi cenedlaethol, yn seiliedig ar angen cyffredin."



Tom James,
Pennaeth Technoleg Arloesedd
yn Llywodraeth Cymru

Fforwm Arloesi ARCH – Trawsnewid syniadau i weithrediadau

Gwnaethpwyd mwy na 30 o geisiadau i Fforwm Arloesi ARCH a gynhaliwyd ar draws pedair sesiwn yn 2021/2022. Mae'r Fforwm yn gydweithrediad rhanbarthol rhwng Bwrdd Iechyd Prifysgol Hywel Dda, Bwrdd Iechyd Prifysgol Bae Abertawe, Prifysgol Abertawe, AgorIP, TriTech a Chanolfan

Cyflymu Technoleg Gofal Iechyd. Mae'n cysylltu arloeswyr ag arbenigwyr meddygol, academiaidd a diwydiant, a'i nod yw cyflymu arloesedd ar draws y sector iechyd a gofal yn Ne-orllewin Cymru. Eleni gwahoddwyd 18 o gyflwyniadau llwyddiannus i sesiwn banel 20 munud i gyflwyno eu syniadau i banel amlddisgyblaethol o arbenigwyr, a ddilynwyd gan drafodaeth a Holi ac Ateb.

Derbyniodd pob cyflwynydd adborth ysgrifenedig pwrpasol a oedd yn cynnwys cyngor ac arweiniad ar sut i wella neu ddatblygu'r arloesedd, gan amlygu unrhyw ystyriaethau posibl o ran gweithredu, llwybr i'r farchnad a chyfeirio at gyllid neu gydweithwyr.

O'r 18 o ddatblygiadau arloesol a gyflwynwyd mae naw wedi'u trosi'n brosiectau sydd ar y gweill gyda sefydliadau gan gynnwys AgorIP, TriTech a Chyflymu yn darparu cefnogaeth barhaus.

"Mae'r Fforwm yn lle gwyhych i feithrin meddyfryd arloesol ac ymestyn ffiniau lle mae'r holl adborth yn adeiladol ac yn cael ei ddarparu yng ngwir ysbryd cydweithio rhanbarthol. Mae rhyddhau angerdd Cymru dros arloesi a chreadigrwydd bob amser yn wych ac roedd yn ffrainc ymuno â'r Fforwm gyda'n partneriaid."

Siôn Charles, ARCH, Pennaeth Strategaeth a Chynllunio

Gweithio gyda TriTech Sefydliad i ddatblygu atebion gofal iechyd arloesol

Mae ein gwaith gyda'r Sefydliad TriTech ym Mwrdd Iechyd Prifysgol Hywel Dda yn un o'n mentrau strategol allweddol ac roeddem yn falch o gefnogi eu cynnydd dros y flwyddyn ddiwethaf, gan gynnwys ei Her Technoleg

Iechyd a Gofal Cymdeithasol. Mae Sefydliad TriTech yn cefnogi datblygiad datrysiadau gofal iechyd arloesol gan weithio gyda phartneriaid gan gynnwys Prifysgol Abertawe, Prifysgol Cymru y Drindod Dewi Sant, Accelerate a phartneriaid masnachol.

Derbyniodd ei her gyntaf tua 50 o geisiadau gan arloeswyr gydag atebion i nifer o faterion hirsefydlog y mae'r system gofal iechyd yn eu hwynebu. Cynlluniwyd pob her yn benodol i ysgogi ystod o syniadau i wella canlyniadau a phrofiadau cleifion yn ogystal â chynhyrchu arbedion effeithlonrwydd i sefydliadau iechyd a gofal cymdeithasol. Derbyniodd pedwar cais llwyddiannus £20,000 yr un i ddatblygu eu syniadau.

“

Roedd yn wych cefnogi her arloesi iechyd a gofal gyntaf TriTech ac rydym yn edrych ymlaen at weld y prosiectau hyn yn cael eu datblygu ymhellach. gwella iechyd a lles cleifion Hywel Dda a ledled Cymru.”



Siôn Charles,
ARCH, Pennaeth Strategaeth
a Chynllunio

“

Roedd yn fuddiol iawn sicrhau cefnogaeth ARCH ar gyfer ein Her Dechnoleg Iechyd a Gofal Cymdeithasol gyntaf. Fe wnaeth mewnbwn rhanbarthol a mewnwleidiad y tîm helpu i sicrhau bod amrywiaeth dda o arloeswyr lleol, gan gynnwys staff y GIG a chwmnïau bywyd, wedi camu ymlaen gydag atebion i helpu i wella iechyd a chyfoeth ein cymunedau.”



Leighton Phillips,
Cyfarwyddwr Ymchwil ac Arloesi,
Bwrdd Iechyd Prifysgol Hywel Dda

Edrych ymlaen at 2022/23



Rydym yn edrych ymlaen at weithio'n agos gyda'n partneriaid yn 2022/23 a pharhau i adeiladu ar a datblygu nifer o brosiectau cyffrous a fydd yn gwneud gwahaniaeth mawr i iechyd a gofal pobl ar draws De-orllewin Cymru.



Trawsnewid Gwasanaethau'r GIG yn canolbwyntio ar;

- Cyflwyno achos busnes amlinellol ein Gwasanaethau Patholeg Rhanbarthol i Lywodraeth Cymru ym mis Gorffennaf 2023 ynghyd â chynllun i sefydlu gwasanaeth cynaliadwy
- Datblygu Canolfan Ragoriaeth Gofal Llygaid Rhanbarthol trwy ddod â rhwydwaith clinigol o weithwyr gofal llygaid proffesiynol ynghyd dan arweiniad offthalmolegwyr ymgynghorol arbenigol
- Cwblhau achos busnes rhaglen drawsnewid y Gwasanaethau Canser Rhanbarthol
- Gosod achos busnes ar gyfer Gwasanaeth Epilepsi Rhanbarthol a fydd yn sicrhau bod cleifion yn gallu cael gafael ar gyngor arbenigol ar draws pob safle ysbyty
- Cyflawni'r achos busnes y cytunwyd arno ar gyfer ein gwasanaeth Anhwylder Niwrolegol Gweithredol newydd
- Gwellu Gwasanaethau Diagnostig Cardiaidd a darparu Gwasanaeth Mesur y Galon mor agos i'w cartrefi â phosibl i gleifion
- Ymestyn cynllun peilot y gwasanaeth Teledermosgopi drwy ei gyflwyno i glinig cymunedol yng Nghanolfan Gofal Integredig Aberteifi
- Datblygu cynlluniau ar gyfer Uned Strôc Hyper Acíwt a fydd yn monitro ac yn sefydlu cyflwr meddygol person sydd newydd gael diagnosis o strôc
- Archwilio rhaglenni rhanbarthol newydd a chyfleoedd ar gyfer Orthopaedeg, Llawfeddygaeth y Genau a'r Wyneb, Endosgopi a Radioleg



Byddwn yn parhau i ddatblygu a chefnogi rhaglenni sy'n ymwneud ag **Addysg**, y **Gweithlu** a **Sgiliau** drwy;

- Cyflwyno rhaglen Datblygu Uwch Arweinwyr ARCH
- Cynyddu'r rhaglen hyfforddi Dermatoleg ar gyfer meddygon teulu a chyflwyno gwasanaethau Teledermosgopi
- Gweithio gyda Phrifysgol Abertawe i greu a chyflwyno rhaglenni datblygu wedi'u teilwra ar gyfer staff i gynyddu sgiliau rheoli, arwain a chynhyrchu
- Cefnogi'r Academi Dysgu Dwys Arloesedd a'r Academi Dysgu Dwys Gofal Iechyd Seiliedig ar Werth i ddatblygu rhaglenni MSc a PhD



Bydd ein hangerdd dros **Ymchwil**, **Menter** ac **Arloesi** yn cael ei ysgogi yn ystod y flwyddyn i ddod gan;

- Gefnogi ein partneriaid i gyflawni cam nesaf prosiect Campws Bae Abertawe gyda gwaith i ddechrau ar safle Treforys eleni ac archwilio cyfleoedd buddsoddi pellach
- Gweithio gyda phartneriaid rhanbarthol a chenedlaethol i gyflwyno'r Hac Gofal Cymdeithasol cyntaf erioed ym mis Mehefin gyda chronfa o £350,000 ar gael i gefnogi arloesiadau buddugol
- Ysgogi, datblygu a masnacheiddio arloesedd rhanbarthol gyda'n Rheolwr Trosglwyddo Technoleg ARCH newydd
- Gwneud y mwyaf o gyfleoedd ymchwil ac arloesi o'n Labordy Patholeg Rhanbarthol newydd
- Cefnogi prosiectau arloesi trwy ddarparu arweiniad ac adnoddau trwy Fforwm Arloesi ARCH
- Datblygu Polisi Deallusol ar gyfer Arloesedd mewn Gofal Iechyd y gellid ei gyflwyno fesul cam i holl sefydliadau GIG Cymru
- Gweithio gyda'n partneriaid i drafod, ystyried a datblygu opsiynau ar gyfer Parc Arloesi. Byddai'r Parc yn dod â gwasanaethau iechyd, prifysgol a busnes ynghyd i ddatblygu cyfleoedd arloesi ac ymchwil newydd i wella canlyniadau iechyd i'r boblogaeth leol
- Cefnogi ein partneriaid wrth i'r gwaith o adeiladu Parth Un o ddatblygiad Pentre Awel ddechrau ynghyd â dylunio cynlluniau ar gyfer Parth Dau sy'n cynnwys byw â chymorth ac ehangu busnes
- Datblygu achos busnes i archwilio'r manteision a'r mecanweithiau ar gyfer ymestyn y Sefydliad TriTech i gynnwys Bwrdd Iechyd Prifysgol Bae Abertawe
- Cynhyrchu achos busnes i archwilio cyfleoedd i sefydlu'r Cyfleuster Ymchwil Clinigol ar y Cyd ar sail ranbarthol

"Mae arloesi yn ganolog i Bartneriaeth ARCH ac i wella iechyd a lles ein poblogaeth"



Yr Athro Keith Lloyd,
Deon Gweithredol a Dirprwy Is-Ganghellor
y Gyfadran Meddygaeth, Iechyd a Gwyddor



ARCH REVIEW

2021 - 2022

Foreword



Welcome to the first annual review from ARCH (A Regional Collaboration for Health). I'm excited to share with you some of the highlights of the work we have carried out during 2021/22 as we look to deliver change to improve the health and wellbeing of people across Southwest Wales.

It's been a busy year and like many other organisations ARCH has had a reset after the impact of the pandemic which affected some of our work and drew the team into operational support challenges.

The reset presented an opportunity to refocus our strategic priorities, our structure and to agree what success would look like as we looked to reinvigorate our efforts around some key transformation programmes and innovation work.

We also wanted to have a particular focus on stabilisation, recovery and establishing robust, sustainable regional services.

We have an ambitious portfolio of regional work and believe a joined up approach is the only way we will be able to deliver actions that help relieve pressure on health and care services, strengthen workforces and drive a vibrant life science economy.

The three partners Swansea Bay University Health Board (UHB), Hywel Dda University Health Board (UHB) and Swansea University work together through ARCH and collaborate with other organisations, bringing together expertise and knowledge of innovation and transformation in health and care.

“

Our key priorities are split into three areas; NHS service transformation; workforce, education and skills; and research, enterprise and innovation.

”



As you will see as you read through our report, there has been lots of progress made with some notable successes.

We were particularly pleased that our business case to develop and deliver the first ever regional service in Wales to help people with Functional Neurological Disorder has been endorsed.

Rolling out regional Ophthalmic Diagnostic and Treatment Centres to support people with glaucoma was also a major achievement and will ensure patients have more timely care and a better experience.

Other highlights include supporting our partners in the Swansea Bay City Deal projects, in particular, the work to progress the Life Science, Wellbeing and Sport Campuses project in Morriston and Singleton, and the Pentre Awel development in Llanelli.

We are proud to be involved in this work which will make a real difference to the health, wealth and wellbeing of the local population.

It was also heartening to be included in the NHS Confederation and Civic University Network report '[Reimagining the relationship between universities and the NHS](#)' as an exemplar of partnership working.

Last but not least is the inspiring work we have been doing with our partners in the innovation and learning space. Great ideas that make a difference to patient care and services are what gets me up in the morning!

ARCH has been delighted to lead in several health hacks where people working in the service come up with potential solutions to challenges and translate this into action.

We have also developed education programmes to provide staff with the skills they need to transform our health and care service so it is fit for the future.



Siôn Charles

Head of Strategy and Service Planning, ARCH

"The work with Hywel Dda UHB and Swansea University is bringing tangible change to our region based on key transformation service change and building our academic potential together to foster collectively more capable organisations."



Mark Hackett,
Chief Executive,
Swansea Bay UHB

"ARCH has continued to evolve and develop, particularly over the last two years and the unprecedented challenges brought by the pandemic. As a collaboration it has proved to be an effective mechanism of regional working which we will need more than ever as we seek to resolve, rebuild and develop services in South West Wales."



Steve Moore,
Chief Executive,
Hywel Dda UHB

"At Swansea University, we place great value upon our partnership with the NHS. We are extremely proud of the tangible difference that we can make to peoples' lives through our meaningful collaboration, which spans education, workforce development, research and innovation."



Professor Paul Boyle,
Vice-Chancellor,
Swansea University

Who we are and what we do

ARCH is a unique partnership between Swansea Bay UHB, Hywel Dda UHB and Swansea University that aims to improve the health, wealth and wellbeing of the Southwest Wales region. Formed in 2015, the ARCH region spans the local authority areas of Ceredigion, Pembrokeshire, Carmarthenshire, Neath Port Talbot and Swansea.

We have an ambitious portfolio of regional programmes of work and individual projects that are led by the strategic ambitions of the partner organisations and underpinned by the Welsh Government policy '[A Healthier Wales](#)'. We aim to deliver meaningful change to support the local population.

A key strand of the ARCH Partnership is working in collaboration with local authorities and industry as part of the Swansea Bay City Deal, a £1.3bn investment awarded by the UK government to deliver nine programmes of work and create more than 9,000 jobs.

By working together, the ARCH partners are:

- Improving the health of our communities, reducing inequalities and empowering and building confidence in the population to manage their own health and wellbeing
- Recognising and overcoming the challenges of both rural and urban healthcare

- Delivering infrastructure and services recognised for their excellence
- Using technology to deliver innovative services and knowledge that support Prudent Healthcare
- Transforming services so they are integrated, easy to access and navigate with health, social care providers, public, private and third sector working together for our communities
- Encouraging the NHS's capacity to innovate and translate ideas for the economic benefit of the region
- Creating and supporting open innovation environments where world-leading science, practice and enterprise are joined together
- Harnessing, nurturing and adopting home-grown life science enterprises while also attracting global innovators
- Creating multi-professional learning and training environments to support the workforce and increase opportunities for people in Southwest Wales.

For further information about ARCH please visit our website: www.arch.wales

ARCH Highlights of 2021/2022

In March 2021, we agreed that our regional partnership would focus on three key priority areas;

**01**

NHS service
transformation

**02**

Education,
workforce
and skills

**03**

Research,
enterprise
and innovation

These align with Swansea Bay UHB and Hywel Dda UHB plans and with Swansea University's strategic vision and priorities.

It's an exciting agenda that sets out projects which will improve care and support for people in Southwest Wales, help the NHS to

reset and recover following the pandemic, and help to establish robust, sustainable and quality regional services.

Here are some highlights of our progress and success over the past year.

NHS Service Transformation



One step closer to developing the first ever Functional Neurological Disorder service in Wales

Our vision of creating a new regional service to help people with Functional Neurological Disorder (FND) took a big step forward when our business case was endorsed in March. FND is a common and disabling condition which causes an array of unexplained symptoms including blackouts, paralysis and abnormal movements.

Currently there are no care pathways in place to support patients and many staff lack knowledge in this specialist area which leads to delays in diagnosis, frequent attendances to hospital and GP practices, poor treatment, support and outcomes.

Our business case details the importance of establishing a new regional service that would provide safe,

effective and equitable care. It will develop care pathways tailored to individual needs and improve diagnosis, treatment and support.

It also details the need to provide specialist training for staff and to work closely with health and care services across the region.

The business case was developed in collaboration with Swansea Bay UHB, Hywel Dda UHB, Swansea University and input from professionals across neurosciences, primary, secondary and community care, therapies, third sector and charities. We also held a virtual FND awareness webinar in June which was attended by more than 120 people and their input was fed into the business case.

“

The endorsement of the business case feels like a real achievement. All our colleagues believe this is a once in a generation opportunity to develop a comprehensive, world class regional FND service for Southwest Wales. This would be a first for Wales and one of only a handful across the UK. The model could then be used as a template for an all-Wales approach.”



Professor Inder Sawhney, Consultant Neurologist, Swansea Bay UHB

Assisted Reality in Echocardiography

Our proposal to develop an innovative tool to support training and offer live, remote, accurate expertise in echocardiography has been awarded £35,000 to take it forward from Welsh Government.



Cardiology innovation

Echocardiography services (which are used to diagnose heart conditions) in both Swansea Bay and Hywel Dda UHBs are under considerable pressure to meet demand, which has been exacerbated by the pandemic backlog.

There are also challenges in providing training for staff. The funding we have received will help us to work with a local business to develop bespoke software and a hands-free assisted reality (AR) headset that can be used with PPE and withstand rigorous cleaning.

We will develop a new voice-activated platform enabling practitioners in echo to access live remote expertise with streaming of images from the viewpoint of the echocardiographer. The same platform will enable the echocardiographer to use voice-activation to access instructional material while performing the test.

This includes example images and measurements, workflows and guidelines, all via a micro-tablet on the headset. If effective, this intervention could be scaled-up for delivery across Wales and beyond. There is also an opportunity for generating new intellectual property with commercial value, which will be investigated as part of the proposal.

Improving the Acute Coronary Syndrome pathway for patients

Work is continuing to develop a more sustainable and effective service to support patients with Acute Coronary Syndrome. This includes improving access to cardiac diagnostics and treatment within the 72-hour target set by the National Institute for Health and Care Excellence (NICE). This means patients admitted to hospital anywhere in Southwest Wales in need of specialist treatment will be transferred to the cardiac centre in Morriston Hospital and then returned to their local hospital.

The work has required Cardiology teams across the region to work closely together to improve processes and communication with the support of the Wales Cardiac Network and the Financial Delivery Unit. Improving this pathway offers opportunities to make efficiencies and savings as well as improving the service all patients receive.

Developing the South West Wales Cancer Centre (SWWCC) and transforming regional cancer services

Work is continuing on the development of a Transformational Programme Business Case to support the delivery of regional cancer services in Southwest Wales.

The South West Wales Cancer Centre, based at Singleton Hospital in Swansea, is one of three specialist centres in Wales, alongside Velindre in Cardiff which serves Southeast Wales and the North Wales Cancer Centre. The SWWCC delivers all cancer services for Southwest Wales (Swansea Bay UHB, Hywel Dda UHB, Powys Teaching Health Board and the Bridgend area of Cwm Taf Morgannwg UHB), serving a population of 907,000, apart from a small proportion of very specialist services which are accessed elsewhere. The overall aim is to further develop the SWWCC so it can provide improved access to new ground-breaking cancer treatments for patients across Southwest Wales. This work builds on the regional ambition set out by the ARCH Non-Surgical Oncology Strategy in 2018 to 'provide the best possible cancer care for the people of Southwest Wales'.

During the past 12 months a Regional Strategic Programme Group has been established jointly by Swansea Bay UHB and Hywel Dda UHB to oversee the development of the business case.

Karen Stapleton, Assistant Director of Strategy in Swansea Bay UHB who co-chairs the group, said, "Establishing this group has been an important step towards delivering the

much needed improvements to cancer treatments, and most importantly, improved outcomes and experiences for patients with cancer in the Southwest Wales region".

Work has been undertaken to look at the baseline demand for cancer services and the capacity that would be needed to meet that demand. There has also been a focus on beginning to develop a regional model for radiotherapy services and oncology outpatient services. Of particular note, is the news that the SWWCC will provide a Stereotatic Ablation Radiotherapy (SABR) Lung Service, from April 2022.

This is a highly focused external radiation treatment that provides an intense dose concentrated on a tumour while limiting the dose to surrounding organs (so lowering the risk to normal cells). This development means patients will no longer have to travel to Velindre Cancer Centre in Cardiff to receive SABR. Funding was also secured to replace the oldest radiotherapy treatment machine with the most up-to-date model which will maximise the centre's capacity to treat radiotherapy patients.

Construction work is due to be completed in the next few months with the new machine becoming operational from August 2022.



Launch of pilot Teledermoscopy service to improve care for patients

As part of our aim to develop a regional dermatology service for Southwest Wales, ARCH partners launched a Teledermoscopy pilot in Swansea Bay UHB in September.

The pilot focuses on taking clinical photographs of skin changes and sending them to a specialist for remote assessment for diagnosis and management. The new model of working aims to avoid patients attending physical outpatient appointments as well as providing care closer to home.

Two clinics are being held each week. In Singleton Hospital in Swansea and findings so far show that the service is effective in preventing a high proportion of avoidable outpatient appointments. There has also been a reduction in waiting lists and 56% of patients have been directly discharged from the clinic back to primary care.

Stabilising the Regional Dermatology Services workforce

Work to stabilise and increase training for the Dermatology Service workforce picked up pace during the past 12 months with a regional GP training scheme implemented in November 2021. A business case to support the development of a sustainable regional service was delivered early this year along with the creation of a new joint regional post for a consultant plastic surgeon.

All this work aims to retain and attract staff, reduce waiting times and improve patient experiences and outcomes.

“

It's been fantastic to see projects across the breadth of the ARCH portfolio come to fruition over the last year, so as a unique partnership in Wales we can really start to improve the health, wealth and wellbeing of the population of South West Wales. The programme for future years will enable us to build on this and support our transformation across the three priority areas. ”



Siân Harrop-Griffiths, Director of Strategy, Swansea Bay University Health Board



Transforming Regional Pathology Services

Our new ARCH Regional Pathology transformation project is underway and building up steam. The strategic outline case was approved by Welsh Government and work is continuing on our outline business case which will be submitted in July 2023.

The programme will create a single regional service including the development of a new Pathology Centre of Excellence on the Morriston Hospital site, integrating the latest technological and digital advancements, including artificial intelligence. A number of working groups have been established to take forward the work including; Cellular Pathology, Laboratory Medicine, Genomics, Microbiology, Management Task and Finish Group, and Research and Innovation.

"We are looking forward to delivering state of the art facilities and service change that will provide quality services and improved health outcomes for our population. We will also be introducing innovation and research capabilities to develop and lead future service developments alongside new education and training programmes."



Christine Morrell, Director of Therapies and Life Sciences at Swansea Bay UHB, and Executive Lead for the Pathology project

Developing a Regional Eye Care Service

Our aim of developing a comprehensive regional eye care service for Southwest Wales is continuing to make progress.

ARCH has supported the roll out of Ophthalmic Diagnosis and Treatment Centres (ODTC) in primary care optometric practices across the region, mirroring the work of the longstanding ODTCs in Swansea Bay UHB area. These centres provide highly effective care for patients with glaucoma and retinal conditions. This work will support both health boards to stabilise and develop sustainable models of care for the future.

"This is an exciting time as we know that developing a prudent regional glaucoma service will help to meet the need for demand for eye care services. We know we have good clinical pathways for glaucoma but need more capacity to deliver the care needed. This will help to reduce waiting times and travel for patients as well as provide more effective care and a better experience."



Mike Austin, Consultant Ophthalmologist, Swansea Bay UHB and Honorary Senior Clinical Lecturer at Swansea University Medical School

Work is also continuing on plans to develop and deliver a strategy to strengthen the ophthalmology workforce as there have been challenges in the past to retain and recruit staff. A number of consultant ophthalmologists, non-medical glaucoma practitioners and ophthalmic technicians have been appointed to deliver services for both health boards. These new team members will provide a full range of treatments as well as laser and surgical procedures for glaucoma patients. Building work for the new Modular Ophthalmology Theatre in Singleton is on track and scheduled to open in July 2022. The additional theatre will deliver 200 extra cases a month. An investment has also been made in the Amman Valley Hospital site to enable the day centre to be used for cataract operations.

Developing education, workforce and skills



ARCH Senior Leaders Development Programme

We are pleased to have developed the first ever ARCH Senior Leaders Development Programme aimed at clinical leaders, business unit leaders and senior managers.

The programme was developed with the All Wales Intensive Learning Academy for Innovation in Health and Social Care, AgorIP, Swansea University STEM Skills Academy Wales and the Faculty of Medical, Health and Life Sciences at Swansea University.

The 18-month programme covers key areas including service planning, resource management, innovation and change management, business cases and procurement. We are looking forward to recruiting our first cohort in May 2022.



Medical Research Class

Intensive Learning Academy for Innovation in Health and Social Care

ARCH has been working closely with partners to support and deliver a number of key areas within the **All Wales Intensive Learning Academy (ILA) for Innovation in Health and Social Care** over the past year.

The ILA has been developed to deliver a world class learning, research and teaching base that will equip leaders with the confidence, skills and capability to realise innovation in health and care and wellbeing.

Supported by Welsh Government, and delivered with Swansea University School of Management, it offers a unique framework of learning opportunities delivered in partnership with Cardiff and Vale University Health Board, and the Bevan Commission including;

- Introductory courses - including a forthcoming online learning platform
- Executive Education and Masterclasses - with initial programmes developed in partnership with ARCH
- Intensive learning experiences - ranging from CLIMB (led by C&VUHB) and
- Advanced Academic programmes (MSc and PhD) - with participation from senior leaders and managers across ARCH

The ILA's work has been progressing at speed including the launch of a new MSc in Advanced Health and Care Management (Innovation and Transformation) which has ARCH representation, and is now recruiting its second cohort. In addition, the PhD cohort is benefitting from research insight drawn from ARCH-led innovation initiatives.

Other activities included the Bevan Commission leading delivery of an **Intensive Learning Week** at the end of November. More than 85 health and care professionals from across Wales took part in the inaugural online five day programme and brought their own unique workplace challenges as case studies to work on.

Around 30 speakers shared learning around the practicalities of developing, delivering and leading transformation programmes for better health and care, and the participants were able to apply the learning to the development of new ideas and solutions.



Intensive Learning Academy for Value-Based Health and Care (VBHC)

The Value-Based Health and Care Academy, part of the Welsh Government Intensive Learning Academy Programme, is also hosted by the School of Management in Swansea University.

The VBHC Academy is built on three pillars: Education, Research and Consultancy, all aimed at increasing understanding of Value-Based Healthcare and translating the theory into practice.

The Academy has an international outlook, working with some of the biggest life science companies such as Pfizer and BD as well as health system leaders in NHS England and Scotland, and attracts students from across the UK and internationally.

During the past year it has developed and delivered;

- Intensive Executive Education courses
- An MSc in Advanced Health and Care Management (Value-Based)
- A Doctorate in Business Administration (DBA)
- A self-directed e-learning programme
- Masterclass webinars

The VBHC Academy works closely with the NHS Wales **Value-in-Health Centre** and supports all health organisations in Wales. The VBHC Academy is also conducting research with Life Science Companies and with NHS Shared Services Partnership, Finance Delivery Unit and Digital Health and Care Wales. It is also working with Hywel Dda and Swansea Bay UHBs to develop proposals for partnerships with life science companies.

“

It has been exciting to see how quickly the VBHC Academy has established itself with over 250 learners having taken part in courses. We have taught many Swansea Bay and Hywel Dda colleagues and I am delighted how our partners in ARCH are starting to lead the way in Wales on VBHC, because it is vital to making our health system sustainable. ”



Hamish Laing,
Director of the VBHC Academy

Supporting research, enterprise and innovation



Life Science, Wellbeing and Sport Campus City Deal Project

ARCH is proud to be a key partner in the £132 million Swansea Bay City Deal Campuses project which was approved by the UK Government and Welsh Government in December 2021.

With £15m secured to develop sites in Morriston Hospital and Swansea University Singleton campus, the project will provide innovation and growth in the medical and sports technology sectors. This will include supporting interventions in healthcare to help prevent ill health, develop better treatments and improve care, while also boosting sport

through world class sports science and new facilities. It's planned to generate over 1,000 jobs in the Swansea area and will be worth over £150 million to the regional economy by 2033.

It will be delivered in two phases; the first will deliver 2000m² of dedicated research and innovation space within the Sketty Lane Sports Park at the Swansea University Singleton Campus. This will establish an environment that supports the development, testing and evaluation of medical, health, wellbeing and sports technologies, as well as commercial

partnerships. It will also include the refurbishment of an existing building at Morriston Hospital which is due to start later in 2022. This site will create a 700m² Institute of Life Sciences space for commercial and academic collaboration alongside clinical research and development.

Once this phase is complete, further expansion is planned which is expected to include a 55-acre Innovation Park with space for SME's and large companies who will work together in a life sciences, wellbeing and sports innovation ecosystem.

The second phase at the Singleton Campus will focus on creating a centre of sporting excellence with world class facilities along with sports technology and research.



We want Wales to be a country that's at the forefront of innovating new technologies that will benefit people in their day-to-day lives. The Swansea Bay City Deal will further enhance Wales' leading role in advanced medical technologies and science. It will support businesses to exploit links with academia, bringing world-leading research out of the labs and industry and into society, for the benefit of our people and economy.



Vaughan Gething, Welsh Government Economy Minister

You can read more about the Swansea Bay City Deal project [here](#)

Pentre Awel Development

ARCH is proud to be supporting the multi-million pound Pentre Awel project that aims to bring life sciences, business innovation, community healthcare, assisted living and leisure facilities on a site near the Llanelli coast. This project is a multi-million pound regeneration project led by Carmarthenshire County Council with partial funding secured through the Swansea Bay City Deal.

The development will provide world class business and research facilities combined with healthcare delivery and clinical research to support and encourage people to lead active and healthy lives.

It will be delivered in phases across four zones, with zone one already tendered and in pre-construction with completion scheduled for mid-2024. This zone will comprise businesses, research space focussing on innovative healthcare technology, a clinical research and delivery centre that will focus on delivering care closer to home and a healthcare training and education centre. The zone will also include a £27m leisure and aquatics centre.

Other zones will include a range of assisted living and care accommodation, a further 10,000m² of business space, landscaped public outdoor spaces, a hotel and social and affordable housing.



Pentre Awel

Pentre Awel will create around 2,000 jobs and training opportunities, and an estimated impact on the local economy of around £467m.

Find out more about Pentre Awel [here](#)

Using Artificial Intelligence to help diagnose skin cancer earlier

Although only in the early stages of development, ARCH is excited to be involved in this innovative project which is looking to develop an Artificial Intelligence app to help earlier detection of skin cancer, which in turn should lead to quicker access to treatment and improved outcomes for the patient.

The app is being developed with Swansea Bay UHB medical photography and dermatology teams along with our industry partner Meridian IT UK. The work began in December 2019 following a successful pitch by ARCH and Meridian IT UK at the Wales Cancer Network Innovation Challenge and the award of a grant.

"We are hoping to develop a tool for patients to support their self-management and earlier detection of what is the fifth most common cancer. Further refinement and development will be explored to ensure greater accuracy and confidence before hopefully testing with the public."



Steve Evans, ARCH Service Planning Manager

The AI model uses object recognition software that has been 'trained' using a data set of over 5000 images of a range of different skin lesions to identify and classify images.

The AI's performance model has been checked by Swansea Bay Consultant Dermatologists to ensure accuracy and confidence. In practice, the user would access the application by taking a photo of their skin lesion on their mobile phone, the application will assess the image

and then notify the user whether to seek medical advice or not. The proof of concept for the AI tool was completed in September 2021 and the next steps will be further development to ensure greater accuracy before testing with the public.



AI Tool

Supporting innovation at the Welsh Health Hack

We were delighted to once again support the Welsh Health Hack in February 2022 which brought together innovators and clinicians to develop solutions to help the NHS in Wales to reset and recover from the Covid-19 pandemic. The event, which took place over two days, invited health and social care workers to share the challenges they face in their work.

The challengers were then matched up with private sector and university innovators to collaborate and develop a solution which they pitch to a panel to see if they can secure start-up funding from the £320,000 pot made available by Welsh Government. 15 projects were chosen as winners for their innovative ideas to deliver benefits to patients and clinicians covering a wide range of areas including diabetes, pelvic health, renal and social care.

The Health Hack is delivered in partnership with M-Sparc, Life Sciences Hub Wales, Welsh Government, Accelerate, Bevan Commission, AgorIP, Social Care Wales, Simply Do, and MediWales, with support from every NHS Wales organisation.

"A key component of the Welsh Health and Care innovation landscape, the Welsh Health Hack continues to be a platform that stimulates and supports innovation by bringing dedicated NHS Wales staff together with universities and industry partners to develop new technological solutions. The solutions developed by the Welsh Health Hack 2022 will further help us in our path to Covid-19 recovery by solving real world health challenges proposed by our clinicians and health practitioners in Wales."



Eluned Morgan, Minister for Health and Social Services

Covid-19 Innovation and Transformation Report

ARCH and partners, led by Swansea University, delivered a new report commissioned by NHS Wales and Welsh Government. The report captured learning and innovative practice emerging from across NHS Wales in response to the Covid-19 pandemic.

The NHS Wales Covid-19 Innovation and Transformation Study Report drew from over 1000 responses to five studies and surveys capturing a breadth of evidence from a broad cross-section of staff, in addition to a further five published reports from across the health and care sector in Wales. The responses and analysis formed a broad evidence base for new and innovative practice that has emerged and outlines some next steps.

Themes and learning highlighted within the report include improved digital access, accelerated decision-making, sustaining the pace of innovation and change and staff wellbeing. A set of supporting **case studies** were published alongside the report. This work was notable for the way it drew together a broad range of stakeholders, each contributing funding, resources and expertise to the final product. It is hoped that the report will act as a basis for change in service delivery in a post-Covid world.

"The report, delivered for NHS Wales and Welsh Government by the ARCH team, brought together a range of evidence and learning from the Covid-19 pandemic to support system development. In addition, the project model of co-production and co-implementation by a wide range of Welsh partners has set a precedent for national innovation projects, based on common need."



Tom James, Head of Innovation Technology at Welsh Government

ARCH Innovation Forum – Transforming ideas into action

More than 30 applications were made to the ARCH Innovation Forum which took place across four sessions in 2021/2022. The Forum is a regional collaboration between Hywel Dda UHB, Swansea Bay UHB, Swansea University, AgorIP, TriTech and the Accelerate Healthcare Technology Centre. It connects innovators to medical, academic, and industry experts, and aims to accelerate innovation across the health and care sector in Southwest Wales.

This year 18 successful submissions were each invited to a 20-minute panel session to pitch their ideas to a multi-disciplinary panel of experts, followed by a discussion and Q&A.

Each presenter received bespoke, written feedback that included advice and guidance on how to improve or develop the innovation, highlighting any potential considerations of implementation, route to market and signposting to funding or collaborators. Of the 18 innovations presented nine have translated into projects in the pipeline with organisations including AgorIP, TriTech and Accelerate provided ongoing support.

"The Forum is a great place to foster innovative thinking and stretch boundaries where all feedback is constructive and provided in the true spirit of regional collaboration. Releasing Wales' passion for innovation and creativity is always fantastic and it was a privilege to join the Forum with our partners."

ARCH Head of Strategy and Planning
Siôn Charles

Working with TriTech Institute to develop innovative healthcare solutions

Our work with the **TriTech Institute** at Hywel Dda University Health Board is one of our key strategic initiatives and we were pleased to support their progress over the past year, including its **Health and Social Care Technology Challenge**.

The TriTech Institute supports the development of innovative healthcare solutions working with partners including

Swansea University, University of Wales Trinity St David, Accelerate and commercial partners. Its first challenge received around 50 applications from innovators with solutions to several long standing issues faced by the healthcare system.

Each challenge was specifically designed to stimulate a range of ideas to improve patient outcomes and experiences as well as generate efficiencies for health and social care organisations. Four successful submissions were each given £20,000 of funding to develop their ideas.

“

It was fantastic to support TriTech's first health and care innovation challenge and we're looking forward to seeing further development of these projects which will improve the health and wellbeing of patients in Hywel Dda and across Wales.”



ARCH Head of Strategy and Planning Siôn Charles

“

It was very beneficial to secure ARCH's support for our first Health and Social Care Technology Challenge. The regional input and insight of the team helped ensure a good array of local innovators, including NHS staff and life companies, stepped forward with solutions to help improve the health and wealth of our communities.”



Director of Research and Innovation at Hywel Dda University Health Board, Leighton Phillips

Looking forward to 2022/23



We are looking forward to working closely with our partners in 2022/23 and continuing to build on and progress a number of exciting projects which will make a big difference to health and care for people across Southwest Wales.



NHS Service Transformation will be focusing on;

- Delivering our Regional Pathology Services outline business case to Welsh Government in July 2023 along with a plan to establish a sustainable service
- Developing a Regional Eye Care Centre of Excellence by bringing together a clinical network of eye care professionals led by specialist consultant ophthalmologists
- Completing the Regional Cancer Services transformational programme business case
- Setting out a business case for a Regional Epilepsy Service that will ensure patients have access to expert advice across all hospital sites
- Delivering the agreed business case for our new Functional Neurological Disorder service
- Improving Cardiac Diagnostic Services and providing a Cardiac Pacing Service as close to home for patients as possible
- Extending the Teledermoscopy service pilot by introducing it into a community clinic in Cardigan Integrated Care Centre
- Developing plans for a Hyper Acute Stroke Unit that will closely monitor and stabilise the medical condition of a person newly diagnosed with a stroke
- Exploring new regional programmes and opportunities for Orthopaedics, Oral Maxillofacial Surgery, Endoscopy, and Radiology



We will be continuing to develop and support programmes around **Education, Workforce** and **Skills** by;

- Delivering the ARCH Senior Leaders Development programme
- Increasing the Dermatology training programme for GPs and rolling out Teledermoscopy services
- Working with Swansea University to create and deliver tailored development programmes for staff to increase management, leadership and production skills
- Supporting the Innovation Intensive Learning Academy and Value Based Healthcare Intensive Learning Academy to develop MSc and PhD programmes



Our passion for **Research, Enterprise** and **Innovation** will be driven during the coming year by;

- Supporting our partners to deliver the next stage of the Swansea Bay Campus project with work due to start on the Morriston site this year and exploring further investment opportunities
- Working with regional and national partners to deliver the first ever Social Care Hack in June with a £350,000 fund available to support winning innovations.
- Stimulating, developing and commercialising regional innovation with our new ARCH Technology Transfer Manager
- Maximising research and innovation opportunities from our new Regional Pathology Laboratory
- Supporting innovation projects by providing guidance and resources via the ARCH Innovation Forum
- Developing an Intellectual Policy for Innovation in Healthcare that could be rolled out to all NHS Wales organisations
- Working with our partners to discuss, consider and develop options for an Innovation Park. The Park would bring together health services, university and business expertise to develop new innovation and research opportunities to improve health outcomes for the local population
- Supporting our partners as the construction of Zone One of the Pentre Awel development begins along with designing plans for Zone Two which includes assisted living and business expansion
- Developing a business case to explore the benefits and mechanisms for extending the TriTech Institute to include Swansea Bay UHB
- Producing a business case to examine opportunities for establishing the Joint Clinical Research Facility on a regional basis

"Innovation is central to the ARCH Partnership and to improving the health and wellbeing of our population."



Professor Keith Lloyd,
Executive Dean and Pro-Vice-Chancellor
for the Faculty of Medicine, Health &
Life Science Swansea University