Cardiff Metropolitan University | Prifysgol Metropolitan Caerdydd

Case study

Working with *Agile Kinetic*

SMART Partnership between Agile Kinetic and Cardiff Metropolitan University was fundamental in developing an idea to innovation

UK Research and Innovation

Ariennir yn Rhannol gan Lywodraeth Cymru
Part Funded by Welsh Government

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The *Sponsors*

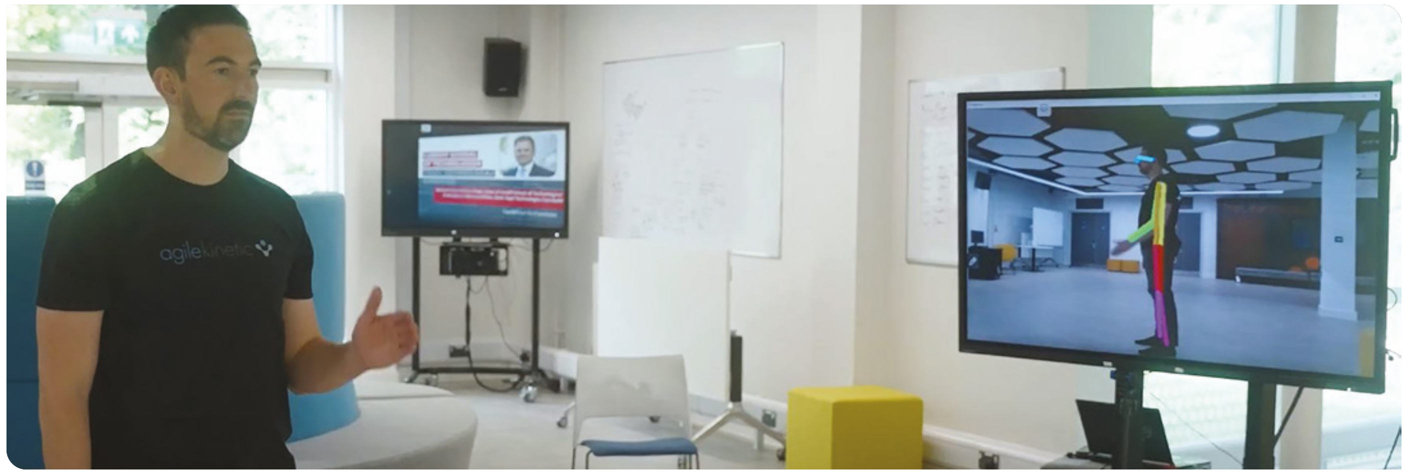
The Welsh Government invests in a diverse range of programmes to encourage and support industry-university collaboration. One scheme is SMART Partnerships which is a three way collaboration involving a company, a university and an associate (a graduate). The focus of this funding is to offer financial support to innovative collaboration projects that require a range of expertise to help Welsh businesses grow, improve productivity and increase their competitiveness.

About the *Agile Kinetic* industry-university collaboration

The industry-university collaboration between Cardiff Metropolitan University and Agile Kinetic was backed by the Welsh Government funded SMART Partnership programme. This partnership enabled the founder of Agile Kinetic, Peter Bishop and his team, to move from what was a business idea to “having a product for sale”.

As a result of collaboratively working with Cardiff Metropolitan University, the team at Agile Kinetic has notably impacted on transforming the quality of post NHS procedure care, through the use artificial intelligence to allow anyone anywhere to gain insight from movement on devices they already own. This technology can be applied in many different settings. However, the business is focussing initially on the medical and healthcare sector because the backlog of surgeries is too high and there is a real demand for innovation.

Through this project, the team at Agile Kinetic delivered many impactful outcomes which align to the Welsh Government’s Well-Being of Future Generations Act 2015 including A More Resilient Wales, coping with an ageing population through using cutting edge technologies to enable a significant reduction in the need for physical appointments. Also, A Healthier Wales, supporting a society in which people’s physical well-being is maximised, as this technology will enable mass screening and early identification of conditions such as frailty.

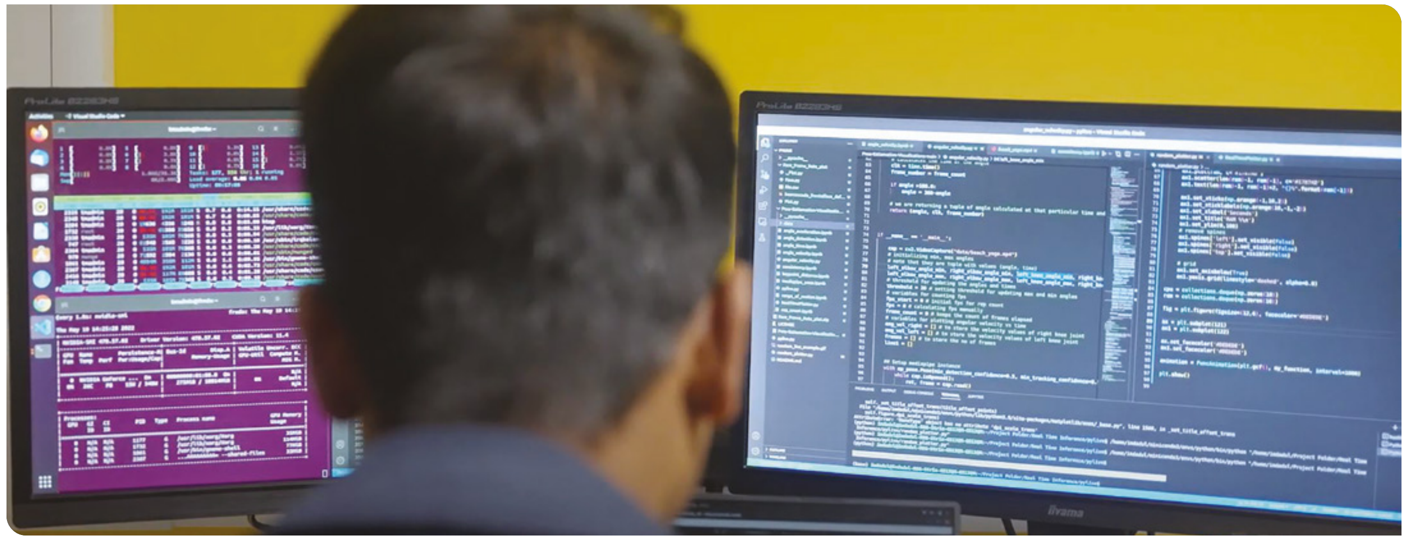


The *Company*

Established in 2016, Agile Kinetic have a vision in health to make effective, personalised care accessible and sustainable. They achieve this by making it as simple and engaging as possible for their users to share information with multidisciplinary clinical teams, via their MoveLab® MobilityHub© platforms. The company was also a Wales Start UP Award finalist in 2021.

Peter Bishop, Founder and Director commented: -

“The SMART Partnership has been a fundamental part of our development from idea to innovation. The project strengthened our existing relationship with Cardiff School of Technologies at Cardiff Metropolitan University to really feel like a long-term partnership. It would have been very difficult for us to find and secure the required talent in such a technical and emerging field without the link to the university. Equally, it would have been incredibly difficult to manage such a technical role, without the support of our academic lead. The project and relationship with the University provided a talent pipeline as we have since recruited the associate and several other students for long- and short-term roles.”



The *Associate*

Imdadul Milon, Associate on the project and who has been recruited by Agile Kinetic as a Machine Learning Researcher said: -

"SMART Partnerships can provide a big career boost for graduates and early career researchers with hands-on experience, training materials, supervision from experienced researchers in the relevant field, and insights from industry experts."

The *Academic Partner*

Jon Platts, Dean of Cardiff School of Technologies commented: -

"This SMART Partnership contributed to developing pose estimation technologies beyond state-of-the-art and applying the technologies to medical applications. The project enabled the development of R&D skills of the staff involved, gain experience in industrial practices, and build solid relationships with all stakeholders to continue the work beyond the scope of the project."

If you are interested in working with Cardiff Metropolitan University to help you boost your business, please contact Karl Couch (Business Liaison Officer) on kcouch@cardiffmet.ac.uk

To find out more about funding and support from the Welsh Government:

businesssupport@wales.gsi.gov.uk
business.wales.gov.uk
03000 6 03000

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Astudiaeth achos

Gweithio gyda *Agile Kinetic*

Roedd partneriaeth SMART rhwng Agile Kinetic a Phrifysgol Metropolitan Caerdydd yn hanfodol wrth droi syniad yn arloesedd.

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Y *Noddwyr*

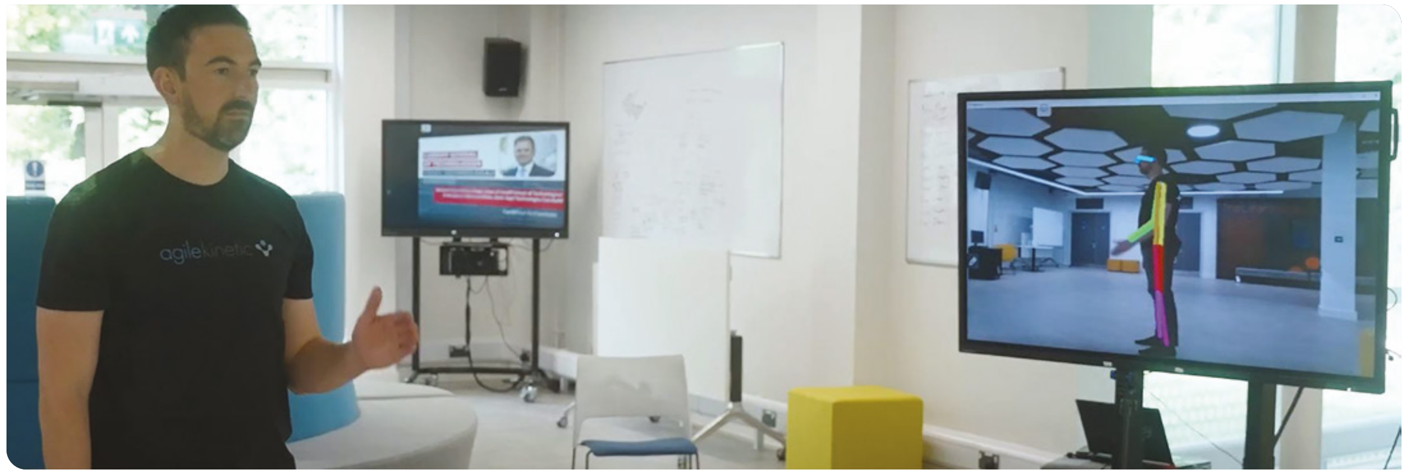
Mae Llywodraeth Cymru yn buddsoddi mewn ystod amrywiol o raglenni i annog a chefnogi cydweithredu rhwng diwydiant a phrifysgolion. Un cynllun o'r fath yw Partneriaethau SMART sy'n gydweithrediad tair ffordd rhwng cwmni, prifysgol a chydymaith. Ffocws y cyllid hwn yw cynnig cymorth ariannol i brosiectau cydweithredu arloesol sydd angen ystod o arbenigedd i helpu busnesau Cymru i dyfu, gwella cynhyrchiant a chynyddu eu gallu i gystadlu.

Ynglŷn â phrosiect cydweithio diwydiant-prifysgol *Agile Kinetic*

Cefnogwyd y cydweithrediad diwydiant-prifysgol rhwng Prifysgol Metropolitan Caerdydd ac Agile Kinetic gan raglen Partneriaeth SMART a ariennir gan Lywodraeth Cymru. Galluogodd y bartneriaeth hon sylfaenydd Agile Kinetic, Peter Bishop a'i dîm, i droi syniad busnes yn "gynnyrch i'w werthu".

O ganlyniad i gydweithio â Phrifysgol Metropolitan Caerdydd, mae tîm Agile Kinetic wedi cael effaith sylweddol ar drawsnewid ansawdd gofal ôl-driniaeth y GIG, trwy ddefnyddio deallusrwydd artiffisial i ganiatáu i unrhyw un yn unrhyw le gael mewnwelediad o symud ar ddyfeisiau y maent yn berchen arnynt. Gellir defnyddio'r dechnoleg hon mewn llawer o wahanol leoliadau, fodd bynnag, mae'r busnes yn canolbwyntio ar y sector meddygol a gofal iechyd oherwydd bod yr ôl-groniad o feddygfeydd yn rhy uchel a bod galw gwirioneddol am arloesi.

Drwy'r prosiect hwn, cyflawnodd tîm Agile Kinetic lawer o ganlyniadau effeithiol sy'n cyd-fynd â Deddf Llesiant Cenedlaethau'r Dyfodol 2015 Llywodraeth Cymru, gan gynnwys Cymru Fwy Cydnerth, ymdopi â phoblogaeth sy'n heneiddio drwy ddefnyddio technolegau blaengar i alluogi gostyngiad sylweddol yn yr angen am apwyntiadau corfforol. Hefyd, Cymru Iachach, drwy gefnogi cymdeithas lle mae llesiant corfforol pobl yn cael ei hyrwyddo i'r eithaf, gan y bydd y dechnoleg hon yn galluogi sgrinio torfol ac adnabod cyflyrau fel eiddilwch yn gynnar.

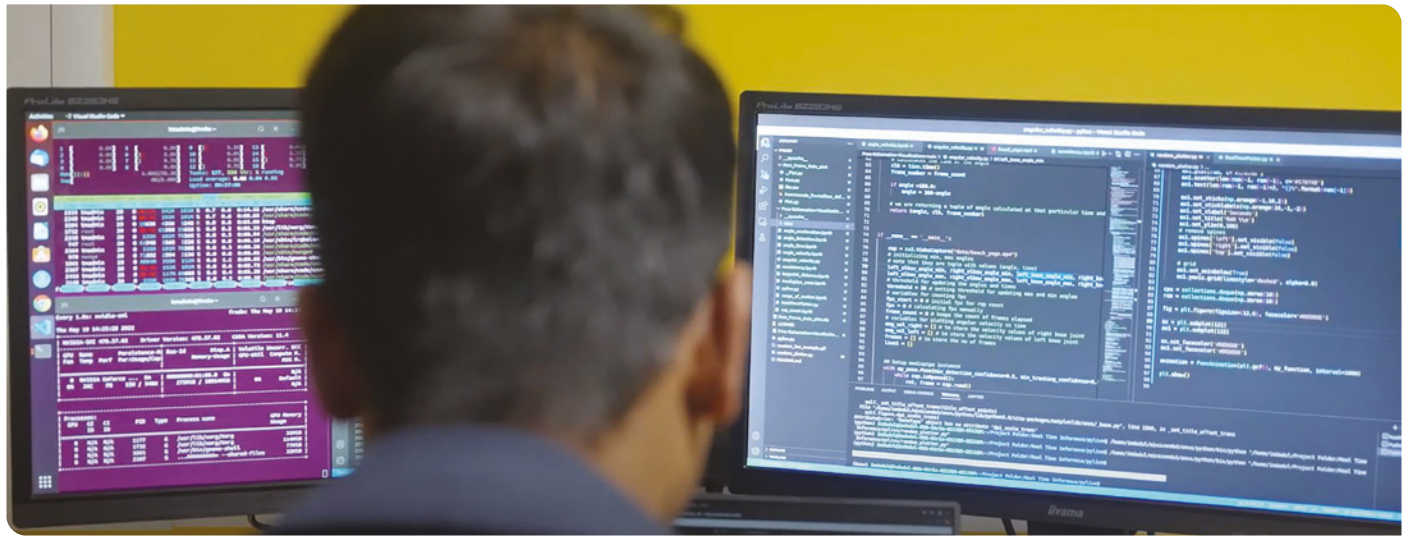


Y *Cwmni*

Wedi'i sefydlu yn 2016, mae gan Agile Kinetic weledigaeth i wneud gofal effeithiol, wedi'i bersonoli yn hygyrch ac yn gynaliadw ym maes iechyd. Maent yn cyflawni hyn trwy ei gwneud mor syml a rhwydd â phosibl i'w defnyddwyr rannu gwybodaeth â thimau clinigol amlddisgyblaethol, trwy eu llwyfannau MoveLab® MobilityHub©. Fe wnaeth y cwmni hefyd gyrraedd rownd derfynol Gwobr Cychwyn Busnes Cymru yn 2021.

Dywedodd Peter Bishop, Sylfaenydd a Chyfarwyddwr: -

"Mae Partneriaeth SMART wedi bod yn rhan sylfaenol o'n datblygiad o'r syniad i'r arloesi. Cryfhaodd y prosiect ein perthynas bresennol ag Ysgol Dechnolegau Caerdydd ym Mhrifysgol Metropolitan Caerdydd fel ei fod yn teimlo fel partneriaeth hirdymor. Byddai wedi bod yn anodd iawn i ni ganfod a sicrhau'r dalent angenrheidiol mewn maes mor dechnegol ac sy'n dod i'r amlwg heb gysylltiad â'r brifysgol. Yn yr un modd, byddai wedi bod yn hynod o anodd rheoli rôl dechnegol o'r fath, heb gefnogaeth ein harweinydd academaidd. Darparodd y prosiect a'r berthynas gyda'r Brifysgol gyflenwad o dalent gan ein bod wedi recriwtio'r cydymaith a nifer o fyfyrwyr eraill ar gyfer rolau tymor hir a thymor byr ers hynny.



Y *Cydymaith*

Dywedodd Imdadul Milon, Cydymaith ar y prosiect ac sydd wedi cael ei recriwtio gan Agile Kinetic fel Ymchwilydd Dysgu Peiriannau: -

"Gall Partneriaethau SMART roi hwb gyrfaol mawr i raddedigion ac ymchwilwyr gyrfa cynnar gyda phrofiad ymarferol, deunyddiau hyfforddi, goruchwyliaeth gan ymchwilwyr profiadol yn y maes perthnasol, a mewnwelediadau gan arbenigwyr yn y diwydiant."

Y *Partner* Academaidd

Meddai Jon Platts, Deon Ysgol Dechnolegau Caerdydd: -

"Cyfrannodd y Bartneriaeth SMART hon at ddatblygu technolegau amcangyfrif ystumiau y tu hwnt i flaengar a chymhwyso'r technolegau i gymwysiadau meddygol. Galluogodd y prosiect i ddatblygu sgiliau Ymchwil a Datblygu y staff dan sylw, ennill profiad mewn arferion diwydiannol, a meithrin perthnasoedd cadarn gyda'r holl randdeiliaid i barhau â'r gwaith y tu hwnt i gwmpas y prosiect."

Os oes gennych ddiddordeb mewn gweithio gyda Phrifysgol Metropolitan Caerdydd i'ch helpu i roi hwb i'ch busnes, cysylltwch â Karl Couch (Swyddog Cyswllt Busnes) ar kcouch@cardiffmet.ac.uk

I gael gwybod mwy am gyllid a chymorth gan Lywodraeth Cymru:

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