Al and Healthcare: Making it happen in Scotland.

Canon CANON MEDICAL SYSTEMS





















Global illumination Rendering







https://www.vitalimages.com/product-information/global-illumination/

Canon Medical Developing an AI - assisted future

Announcing the **'Canon Medical AI Center of Excellence'** Canon Medical Research Europe, Edinburgh.

"..founded to provide expertise to internal Canon R&D teams as well as to collaborate on healthcare projects with top-tier academic and government organizations, advancing medical research and delivery of next-generation healthcare technologies."



Press release

Artificial Intelligence to help save lives at five new technology centres

The UK's Artificial Intelligence revolution gets new backing, as the Business Secretary announces five new centres of excellence for digital pathology and imaging, including radiology, using AI medical advances.

Published 6 November 2018 From: <u>Department for Business, Energy & Industrial Strategy</u>, <u>UK Research and</u> <u>Innovation</u>, <u>Innovate UK</u>, <u>The Rt Hon Greg Clark</u>, and <u>The Rt Hon Matt Hancock</u>

• Based in Leeds, Oxford, Coventry, Glasgow and London – but each with partners across many parts of the UK – the centres will develop more intelligent analysis of medical imaging, leading to better clinical decisions for patients, and freeing more staff time for direct patient care in the NHS

iCAIRD

£15M NEW ARTIFICIAL INTELLIGENCE CENTRE FOR SCOTLAND TO INNOVATE AND TRANSFORM HEALTHCARE

Issued: Tue, 06 Nov 2018 06:00:00 GMT

Scotland is to have its own £15.8m artificial intelligence health research centre, which promises to enable better patient diagnosis, treatment and outcomes.

The Industrial Centre for Artificial Intelligence Research in Digital Diagnostics, to be known as iCAIRD, brings together a pan-Scotland collaboration of 15 partners from across academia, the NHS, and industry.

Today (Tuesday 6 November), Greg Clark, UK Secretary of State for Business, Energy and Industrial Strategy (BEIS), will announce that UK Research and Innovation will invest £10million in iCAIRD as part of the Industrial Strategy Challenge Fund.









Radiology – start of programme









Pathology – start of programme







Pathology – actual



Core Achievements

Platforms	 SHAIP – TRE, imaging integration, rapid deidentification and federated learning Pathology Lab – automated data extraction, dedicated research scanners, AI (or other endpoint) integration EMRs – real-time integration with incumbent systems for key datasets
010101 101010 010101 Data access	 Imaging – direct access to national PACS – a first Pathology – bulk data extraction and deidentification of 1.5m whole slide images
People	 Core team – know how to do this, have overcome the obstacles, work with the existing teams, experts in artificial intelligence, links into government National PACS – exceptional relationship with the national PACS team Partnerships – including ongoing Philips partnership agreement







The Industrial Centre for Artificial Intelligence Research in Digital Diagnostics

50
Projects40
Partners450%
Growth2233PlatformsAwardsProductsScale-ups

£25m 250+ 75 million

Investment

Staff

Medical images

+ '

+

News story Using AI in NHS diagnosis: apply for funding

Up to £240,000 is available for organisations exploring the use of AI and machine learning in fracture diagnosis.

Published 13 May 2019 From: Innovate UK and UK Research and Innovation



<u>Five organisations announced for share of £240,000 in Al</u> <u>Fracture Diagnosis Programme</u>

Posted On 23rd October 2019 By <u>oneadmin</u> In Life Sciences, News / _

Opportunity North East (ONE) and the Scottish Government have announced the five organisations selected for the first stage of a landmark project to develop artificial intelligence (AI) solutions to support fracture diagnosis in hospitals. The project will see up to £240,000 invested in innovative data technology.

Bering Limited, Red Star AI Limited, <u>SeeAI</u>, Jiva.ai Ltd and the Department of Computing Sciences University of Aberdeen, were shortlisted from a field of 40 organisations having applied through a two-phase Small Business Research Initiative (SBRI) competition, supported by Innovate UK, in July of this year.



Investing in the future of health research: secure, accessible and life saving

🛗 9 December 2022 & Dr Claire Bloomfield

Digital Innovation

This blog by Dr Claire Bloomfield looks at the recent progress towards delivering the <u>Data</u> saves lives strategy.

Secure data environments (SDEs) are data storage and access platforms, which uphold the highest standards of privacy and security of NHS health and social care data when used for research and analysis. They allow approved users to access and analyse data without the data leaving the environment. Today we are really excited to announce over £13.5 million investment for teams across England to develop a country-wide network of NHS owned SDEs.

Secure data environments (SDEs) will deliver more rapid and efficient healthtech innovation for England. In line with recommendations included within <u>Ben Goldacre's 'Better, broader</u>, <u>safer' review</u>, our <u>data strategy</u> commits to transparent procurement, acquisition and use of SDEs. Early returns suggest the concept is catching on.

In March we <u>announced up to £200 million of joint funding</u> across NHS England, the Department of Health and Social Care (DHSC) and the Department for Business, Energy and Industrial Strategy (BEIS) to make health data more accessible and linkable. The funding enabled us to begin investing in data-driven clinical trials and secure data environments (SDEs) for research. I'm pleased to provide this update about how we are working towards our vision of a world-leading, NHS-wide, health data research infrastructure that enhances patient care, sustains the NHS, supports innovation, and is understood and well-supported by the public.

Scottish Government



Scotland has a thriving life sciences sector which played an innovative role in our response to the pandemic. In order to support future growth the Scottish Health and Industry Partnership is working to achieve the dual ambitions of meeting health and wellbeing priorities and boosting economic prosperity. This will focus on the development of a roadmap to investment for Life Sciences, the creation of economic opportunities through the Supply Chain development programme, and future opportunities in the use of artificial intelligence in health and social care. To support the new opportunities in artificial intelligence we will provide £20 million to develop an AI Hub for Life Science, NHS and Social Care to create AI Innovation and commercialisation capability in Scotland linked to the national AI Strategy and Tech Scalars Programme.

Made For life

For over 100 years, the Canon Medical Systems `Made for Life' philosophy prevails as our ongoing commitment to humanity - generations of inherited passion creates a legacy of medical innovation and service that continues to evolve as we do. By engaging the brilliant minds of many, we continue to set the benchmark, because we believe quality of life should be a given, not the exception.

