

The **Innovative Healthcare Delivery Programme (IHDP)** seeks to fundamentally change the way that data and analytics are used to drive improvement in health outcomes, by fostering new relationships between the NHS, industry, academia, and the third sector.



In order to achieve this vision, the programme brings together expertise in clinical practice, data science, research and education, unleashing innovation across multiple fronts and with a wide range of stakeholders to deliver change.

Cancer and the development of a **Scottish Cancer Intelligence Framework (SCIF)**, has been identified as the IHDP's first priority, supported by an additional £2M announced in the **Cancer Strategy, Beating Cancer: Ambition and Actions** published in March 2016.

Scottish Cancer Registry Review

The Scottish Cancer Registry will be a crucial component of the **Scottish Cancer Intelligence Framework (SCIF)**. The registry was last formally reviewed in 1990 and in view of the critical need to correctly align the Registry with the SCIF, IHDP commissioned an independent external review of the registry by Dr Dyfed Wyn Huws, Director of the Welsh Cancer Intelligence and Surveillance unit.

The objectives of the review were to:

- Document existing activities of the Scottish Cancer Registry
- Provide a commentary, based on international best practice, on how the cancer registry and the associated functions might be modernised as an integral part of the wider aim of developing the SCIF
- Undertake an option appraisal to make recommendations on the future development in Scotland of cancer registration and associated functions

The review was carried out over the summer and completed in late September 2016. Recommendations arising from the review are now being jointly considered by National Services Scotland (NSS) and IHDP. A short life working group has been set up to develop an action plan.

Progress to date

Working with Public Health England

IHDP has been working closely with Public Health England to learn from the experience of the National Cancer Registration and Analysis Service (NCRAS) and identify aspects of the English approach that could bring benefit if adopted in the Scottish context.

Local Systems Review

At the end of 2015, a joint IHDP/NSS team visited the five Scottish cancer centres. Feedback from the centres was consistent. In terms of local infrastructure needs, it is clear that most cancer MDTs currently rely on locally developed, people driven solutions for data management. Work is therefore in hand to review local systems, determine how well these meet the needs of the service, and consider what steps might be taken to improve the situation.

Business Intelligence Modernisation

IHDP is working closely with NSS, exploring how modern technologies could be used to increase the timeliness of data access and reduce the current complexity of cancer analytics.

National Chemotherapy Data Virtualisation Project

A fundamental gap in NHS Scotland's ability to analyse, report and benchmark nationally is in the area of chemotherapy, a key requirement identified in the Cancer Strategy '[Beating Cancer: Ambition and Action](#)'.

IHDP has established a National SACT Data Group to provide direction and expert input to this requirement. The Group has sponsored development of a Data Virtualisation proof of concept project to test whether it is possible to link all five Scottish instances of Chemocare together in a 'virtual' environment to allow national reporting without the need for a single central data store. Early results of this experimental work show promise.

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Cognitive Computing

Scottish Enterprise has supported experimental work with IBM Watson to demonstrate how cognitive computing technologies might contribute to the Scottish Cancer Intelligence Framework.

Cancer Challenge Fund

IHDP has partnered with the Scottish Funding Council to drive innovation through its £1M Cancer Challenge Fund '**Cancer Data Dive**'.

A collaborative partnership between three Scottish Innovation Centres (The Data Lab, Digital Health and Care Institute and Stratified Medicine Scotland), NHS Scotland, academia and industry to drive the development of innovative approaches to the use of cancer data in Scotland. This will include a series of NHS Scotland Realistic Medicine Data Science Days, under the sponsorship of the Chief Medical Officer.

The Cancer Challenge will also identify and develop tools that support the capture and use of patient-generated data from cancer patients across Scotland using open innovation methods.

IHDP Hosts Information Governance Summit

On 11th October 2016, the IHDP hosted a full day event at The Farr Institute in Edinburgh.

In recognition of the important role Information Governance will play in the development of the SCIF, the IHDP hosted the first in what is expected to be a series of iterative events to explore key issues in information governance. In the context of Caldicott 3, this first Information Governance Summit aimed to begin a process of consensus building around the future direction for Information Governance of health and social care data utilisation and sharing in Scotland.

The [Report of Key Messages](#) is available on the IHDP website. The report summarises the key issues identified by participants in response to questions posed, and brings together common themes arising in discussions.

The IHDP is a collaborative programme between NHS Scotland and academic partners with the aim of harnessing the power of informatics to deliver value to patients, healthcare professionals and the wider NHS through collaboration.

Our mailing address is:

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If you would like to find out more about the IHDP you can visit us at:

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Events

Scottish Cancer Conference

This year's Scottish Cancer Conference, held on 21st November at the Surgeon's Hall, RCSE, focussed on the key themes of the Scottish Government's cancer strategy – **Beating Cancer: Ambition and Action**, published in March 2016. IHDP Director Professor Aileen Keel shared the Research and Data slot with Professor David Cameron, highlighting IHDP's activities in pursuit of the development of the Scottish Cancer Intelligence Framework to improve Scotland's cancer outcomes.

Scottish Digital and Care Conference

IHDP Director Professor Aileen Keel also spoke at the Scottish Digital and Care Conference held at the EICC on 30th November. At a workshop entitled '**Making better decisions together – making Learning Care Systems a reality in Scotland**', she outlined IHDP's approach to demonstrating the benefits of a Nationwide Learning Health System through its work on cancer data. This is IHDP's demonstrator workstream and will inform the application of its approach to other conditions in due course.

Working with CRUK and Scottish Government

On 10th January 2017 colleagues from IHDP, Cancer Research UK and the Scottish Government came together at The Farr Institute for a collaborative event.

The event allowed us to share experiences and best practices, co-ordinate activities and identify opportunities for further partnership working to accelerate the delivery of the Scottish Cancer Strategy and the Scottish Cancer Intelligence Framework.

IHDP People

Director	Professor Aileen Keel CBE
Chief Operating Officer	Teresa Ironside
Chief Information Officer	Julie Falconer
Programme Manager	Karen Seditas
Programme Administrator	Fiona Clark
Programme Assistant / PA to Director	Amanda Sammarco
Business Analyst	Lesley Watson
Technical Adviser	Josh Pencheon

Spotlight on future IHDP team members

Deputy Director, Dr Hilary Dobson

It is expected that Dr Hilary Dobson will join IHDP, working as the Deputy Director two days per week beginning mid-February 2017. Seconded from the NHS Greater Glasgow and Clyde Diagnostics Directorate, Dr Dobson will play a vital role in leveraging support for IHDP projects across the NHS Scotland boards.