

To Improve Outcomes

“Avedis Donabedian” Paradigm Structure, Process, and Outcome

- Donabedian was one of the first to view healthcare as a system composed of structure, process, and outcome.
- He believed that quality of care is not only related to each of these elements individually, but also to the relationships among them.

What to measure?



‘Outcomes remain the ultimate validators of the effectiveness and quality of medical care’ but they ‘must be used with discrimination’



Avedis Donabedian

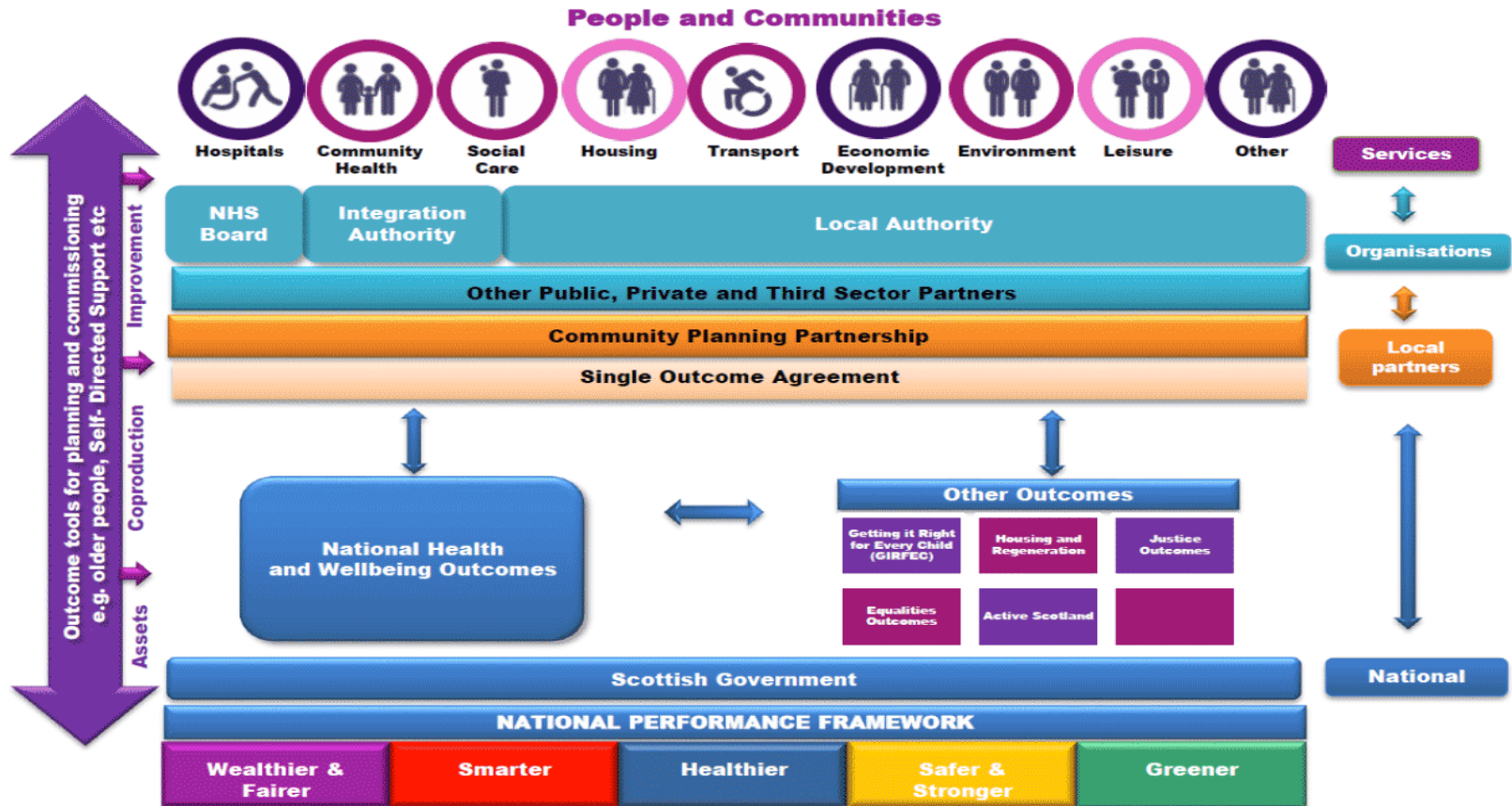
National Performance Framework

We aim to:

- create a more successful country
- give opportunities to all people living in Scotland
- increase the wellbeing of people living in Scotland
- create sustainable and inclusive growth
- reduce inequalities and give equal importance to economic, environmental and social progress



Health and Care Outcomes Framework



Commonwealth Fund Research

EXHIBIT ES-1. OVERALL RANKING

COUNTRY RANKINGS

Top 2*
Middle
Bottom 2*



	AUS	CAN	FRA	GER	NETH	NZ	NOR	SWE	SWIZ	UK	US
OVERALL RANKING (2013)	4	10	9	5	5	7	7	3	2	1	11
Quality Care	2	9	8	7	5	4	11	10	3	1	5
Effective Care	4	7	9	6	5	2	11	10	8	1	3
Safe Care	3	10	2	6	7	9	11	5	4	1	7
Coordinated Care	4	8	9	10	5	2	7	11	3	1	6
Patient-Centered Care	5	8	10	7	3	6	11	9	2	1	4
Access	8	9	11	2	4	7	6	4	2	1	9
Cost-Related Problem	9	5	10	4	8	6	3	1	7	1	11
Timeliness of Care	6	11	10	4	2	7	8	9	1	3	5
Efficiency	4	10	8	9	7	3	4	2	6	1	11
Equity	5	9	7	4	8	10	6	1	2	2	11
Healthy Lives	4	8	1	7	5	9	6	2	3	10	11
Health Expenditures/Capita, 2011**	\$3,800	\$4,522	\$4,118	\$4,495	\$5,099	\$3,182	\$5,669	\$3,925	\$5,643	\$3,405	\$8,508

Notes: * Includes ties. ** Expenditures shown in \$US PPP (purchasing power parity); Australian \$ data are from 2010.

Source: Calculated by The Commonwealth Fund based on 2011 International Health Policy Survey of Sicker Adults; 2012 International Health Policy Survey of Primary Care Physicians; 2013 International Health Policy Survey; Commonwealth Fund National Scorecard 2011; World Health Organization; and Organization for Economic Cooperation and Development, *OECD Health Data, 2013* (Paris: OECD, Nov. 2013).

Why The US Has Better Cancer Survival Rates Than The Rest Of The World

<https://www.forbes.com/sites/quora/2017/06/13/why-the-us-has-better-cancer-survival-rates-than-the-rest-of-the-world/#4c0656a94b67>

- A missed cancer diagnosis is a common lawsuit in America
- Article argues that American cancer patients are over treated compared to those in other countries
- abundance of high technology equipment and drugs, more extensive screening, and more aggressive treatment



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- A missed cancer diagnosis is a lawsuit
- Articles in America are often compared to other countries
- abundant technology and extended more treatment

REALISTIC MEDICINE

CAN WE:

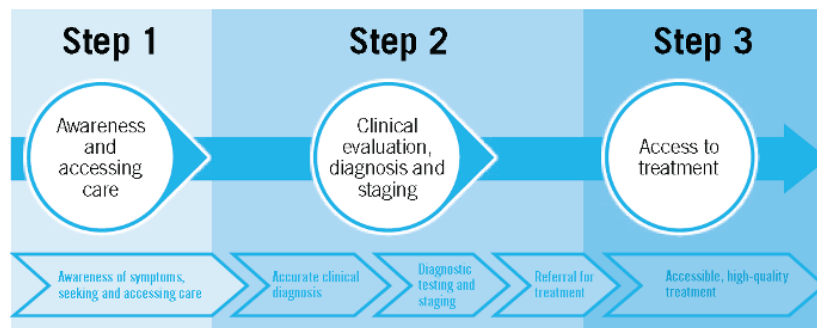
 <p>CHANGE OUR STYLE TO SHARED DECISION-MAKING?</p>	 <p>BUILD A PERSONALISED APPROACH TO CARE?</p>
 <p>REDUCE HARM AND WASTE?</p>	 <p>REDUCE UNNECESSARY VARIATION IN PRACTICE AND OUTCOMES?</p>
 <p>MANAGE RISK BETTER?</p>	 <p>BECOME IMPROVERS AND INNOVATORS?</p>



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Take the Cancer pathway as an Example?

1. Early diagnosis is key in beating cancer; diagnosing more cancers earlier would be good for patients and the UK
 2. The UK/England continues to lag behind the best in the world
 3. There is unacceptable variation across the country
 4. Awareness and public behaviour
 5. Optimising clinical practice and systems
- The principles underlying earlier cancer diagnosis would also benefit outcomes in other diseases



CANCER
RESEARCH
UK

Weighting up the balance?

It's your choice...



- Breast cancer screening saves the lives of two women for every one patient who receives unnecessary treatment, according to a major European review.

• <https://www.bbc.co.uk/news/health-19571173>

Breast cancer screening does 'more good than harm'

By Emily Selvadurai Health reporter, BBC
News

•13 September 2012

Risk factors for breast cancer:

- Lifestyle factors including post-menopausal obesity, alcohol consumption, inactivity and a high-fat diet increase the risk of breast cancer.
- Each of these factors is socially patterned, with people living in deprived areas more at risk.
- Women from lower socioeconomic groups are less likely to go for breast cancer screening.
- Breast cancer survival rates are worse in women from more deprived areas, in part due to the lower uptake of breast cancer screening



So what about the Science?



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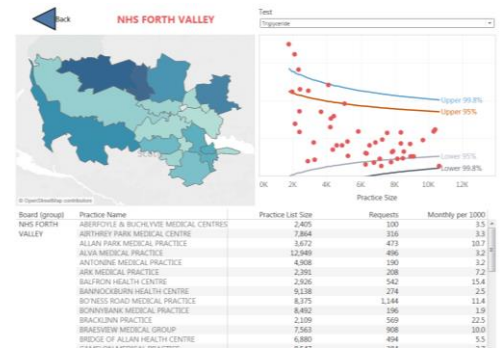
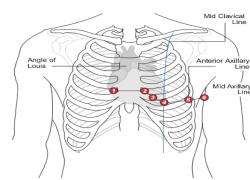
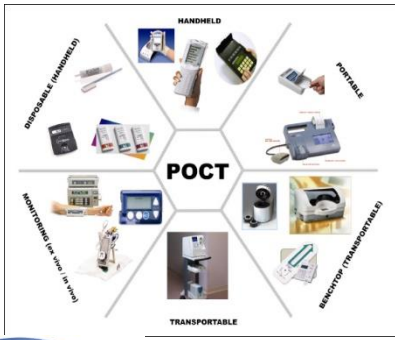


**DRIVING IMPROVEMENT,
DELIVERING RESULTS**

THE SCOTTISH HEALTHCARE SCIENCE
NATIONAL DELIVERY PLAN 2015-2020



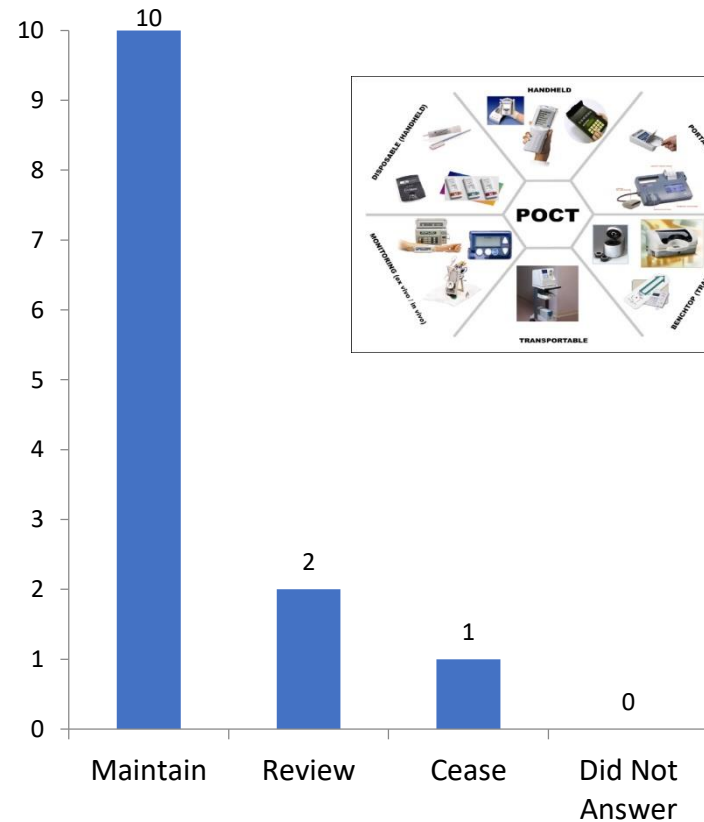
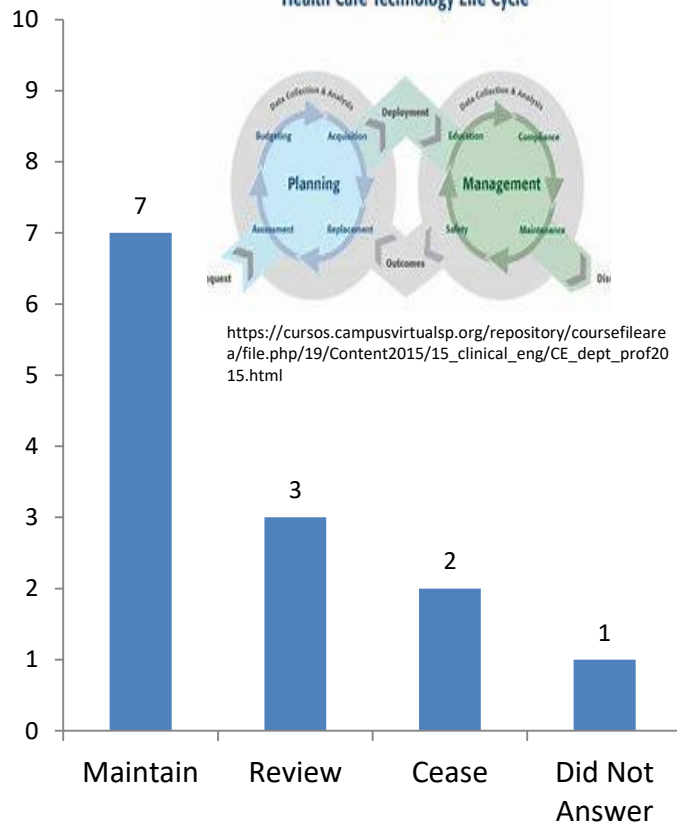
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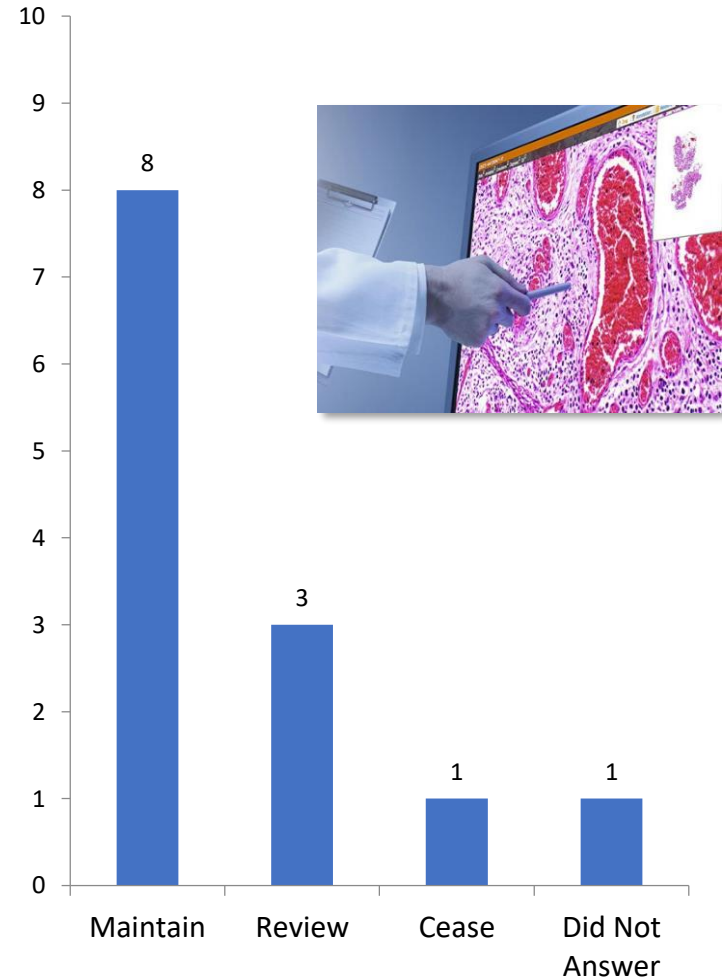
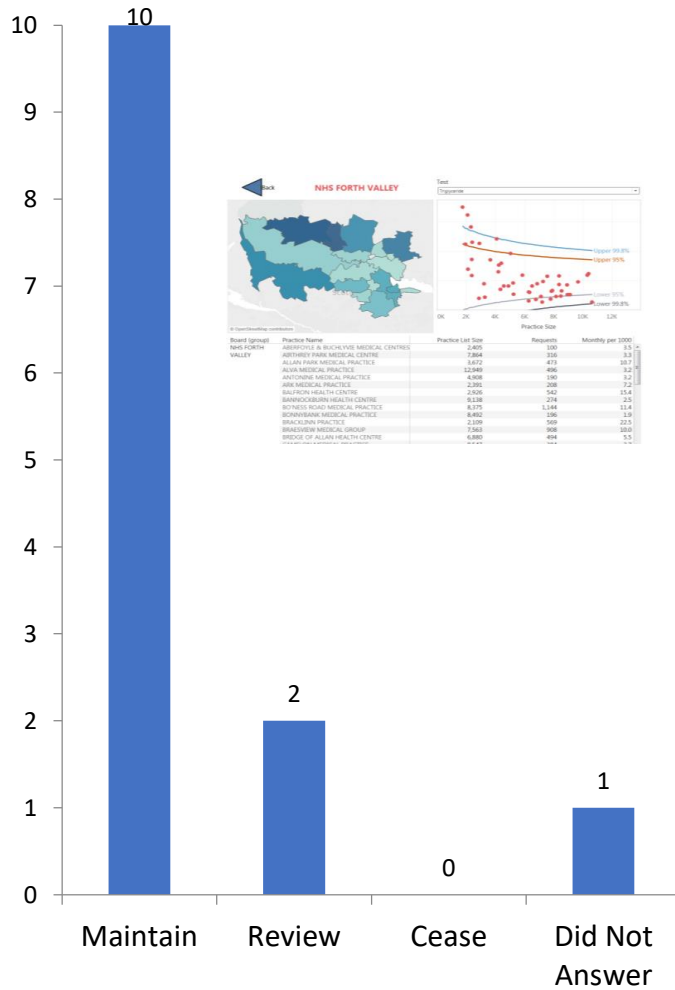
Which of the HCS NDP Programmes should continue to be explored/developed/supported after 2020?



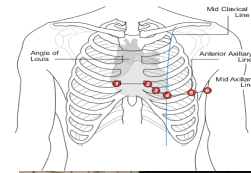
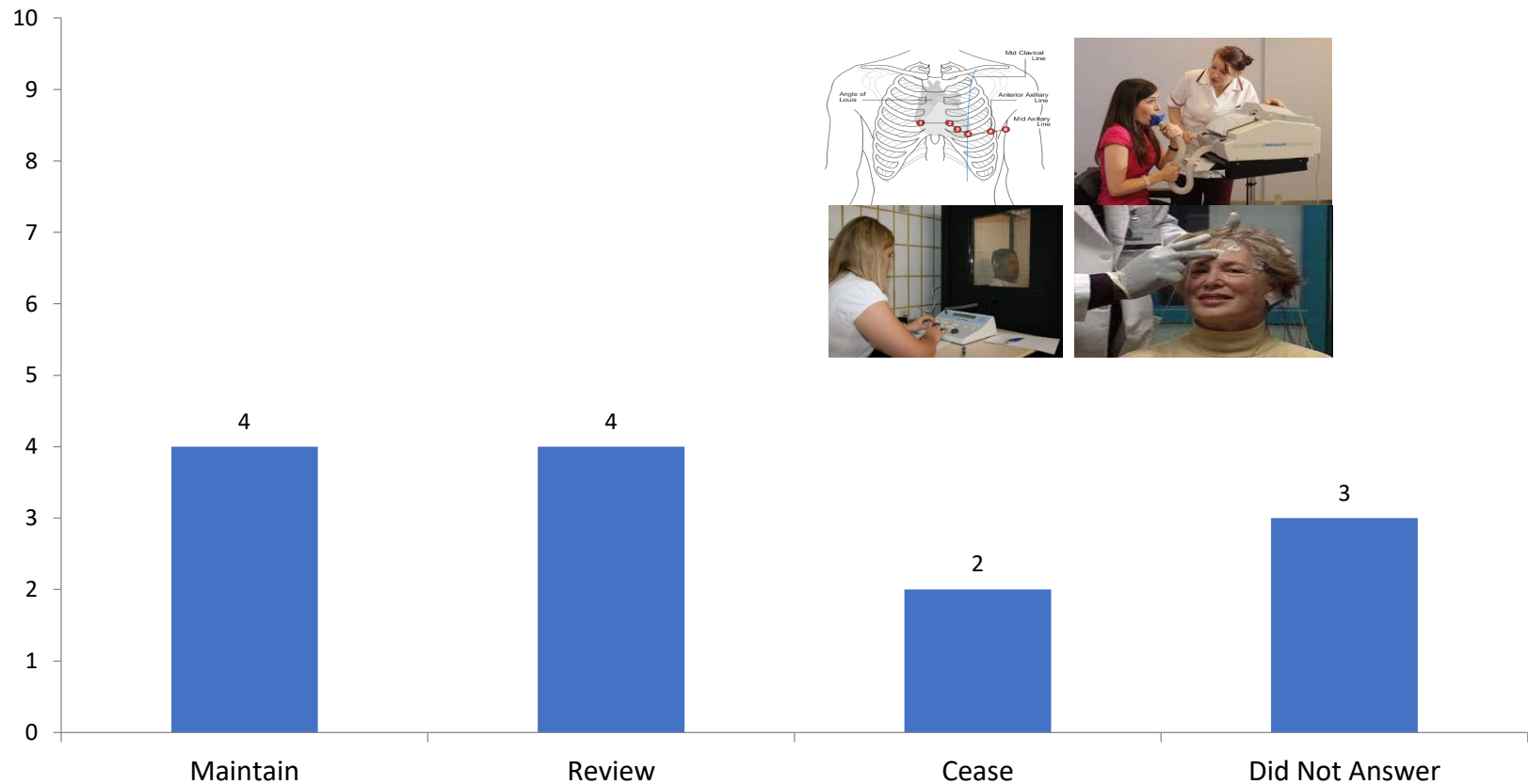
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Connections within the wider health and social care system?

- Public
- Patients/Clients/Users
- Executive Team/Board Directors
- Other professions
- Professional bodies
- Within Healthcare Science
- Your networks
- Your peers



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Digital Strategy



1. Clinical data at the point of care
2. Common architecture to allow for innovation
3. Data at scale for research and quality

SCOTLAND'S DIGITAL
HEALTH & CARE STRATEGY

ENABLING, CONNECTING & EMPOWERING



What next after the HCS Delivery Plan?

Physiological Science National Plan
Point of Care Testing

Pharmacogenetics

Health technology assessment

Artificial intelligence

HCS Visibility and Profile

HCS Innovation

Workforce Planning

National Alignment government strategic documents

Big data science

Demand Optimisation

Internet of all things

Thank You



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