Scotland - Health and Social Care Innovation

CAN DO Scotland

SCOTLAND
CAN DO
IT'S TIME TO MAKE HISTORY

Innovation

1. Sparking new ideas

Themes: Blue skies research, role of universities, scientific excellence, benefits for people across society

2. Turning new ideas into businesses

Themes: Culture of start-ups, knowledge and tech transfer, pull of business ideas,

3. Creating a scale-up culture

Themes: Supporting early stage firms, institutional investors, Venture Capital

Examples: ISCF & Smart UK grants, Innovation Loans, Scottish National Investment Bank, Enterprise Companies

4. Driving up demand

Themes: Established firms ("pull"), public & private investment

Examples: SBRI, R&D taxation, Catalyst for Innovation

5. Innovation across the Scotland

Themes: Local/regional strengths, positive impacts everywhere,

Examples: City and Regional Deals

6. Focus on the Grand Challenges and NHS and Social Care Priorities

Themes: UK Missions and Grand Challenges and NHS and Social Care Catalyst

7. Putting Innovation at the heart of global Scotland

Global Digital Economy and Market Growth

Scottish Health and Life science Growth running at - 10 % pa-£9b by 2023

Health is world's fastest growing market- 7.9% compound annual growth rate (CAGR) £3t and growing

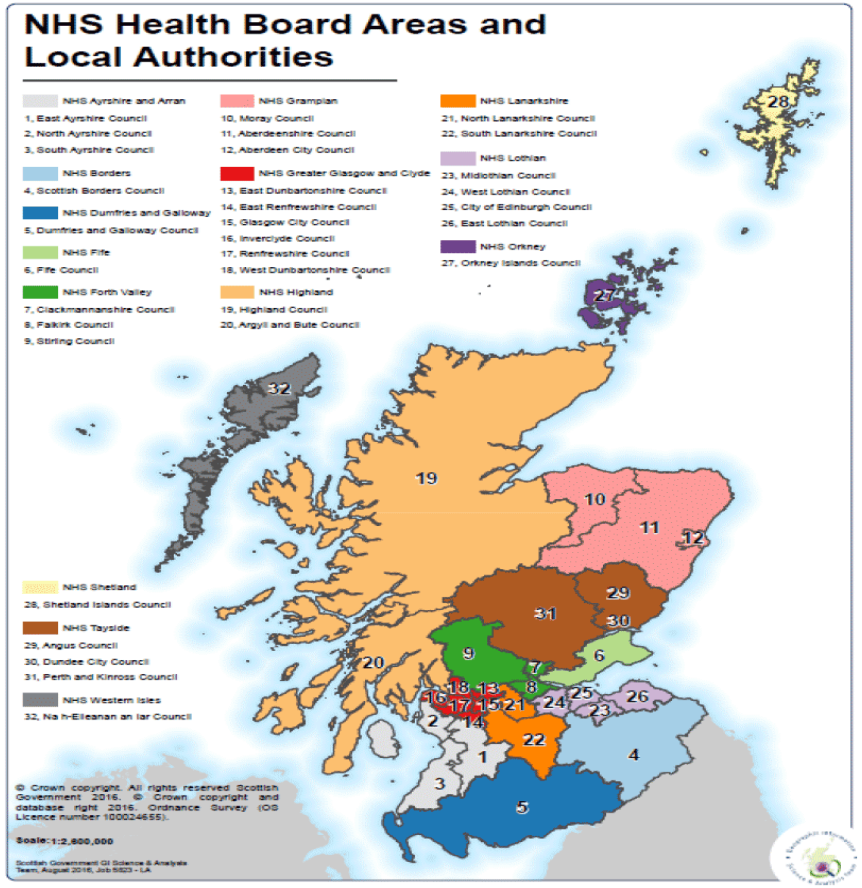
Innovation

The translation of industrial and academic research into actionable solutions in health and care- can support Scotland's Economic Recovery Plan and the NHS Re-mobilise, Recover, Re-design Framework

NHS in Scotland 2019

AUDITOR GENERAL

Prepared by Audit Scotland
October 2019



One Test Bed Scotland

Innovation, Commercialisation, Translation, Adoption

Investment, Acceleration, Growth, Sustainability

https://www.hiap-scotland.org/

TEST BEDS

NHS and Social Care Delivery settings in Scotland

Real-word explorations, trials and testing of ‘combinatorial’ innovation (new combinations of products and processes)

Solving real problems and commercialising services and products

Test Bed Examples and Impacts

Transformation in NHS/Social Care	Benefit to NHS/Social Care
Virtual Asynchronous (not real time) Consultations	20% time saving in Dermatology 90% plus patient satisfaction Reduced outpatient and cancer waits
Mammography and Machine Learning	Save 50% Radiology time and reduce breast cancer waiting time
Trauma App to Covid 19 Triage	Safer Clinical Decision- 8 week deployment of Covid 19 triage app
COPD-Prediction and Early Intervention	Avert one hospital admission per year-7 hospital days per patient-£9k
Neurology-Virtual Asynchronous Diagnosis	12% reduction in Hospital Admission Remote accurate home based diagnosis
Covid Assay-Test Development	New antibody and PCR assays and innovations to support Scotland's Covid 19 response

The Offer

- Co-design
- Co-develop
- Co-deliver

In NHS Scotland and Social Care

Health Care System Performance Rankings

	AUS	CAN	FRA	GER	NETH	NZ	NOR	SWE	SWIZ	UK	US
OVERALL RANKING	**2**	**9**	**10**	**8**	**3**	**4**	**4**	**6**	**6**	**1**	**11**
Care Process	2	6	9	8	4	3	10	11	7	1	5
Access	4	10	9	2	1	7	5	6	8	3	11
Administrative Efficiency	1	6	11	6	9	2	4	5	8	3	10
Equity	7	9	10	6	2	8	5	3	4	1	11
Health Care Outcomes	1	9	5	8	6	7	3	2	4	10	11

NHS SCOTLAND

HEALTH AND SOCIAL CARE SCOTLAND

Integration | Collaboration | Transformation

Source: Commonwealth Fund analysis.

The Commonwealth Fund

E. C. Schneider, D. O. Sarnak, D. Squires, A. Shah, and M. M. Doty, *Mirror, Mirror: How the U.S. Health Care System Compares Internationally at a Time of Radical Change*, The Commonwealth Fund, July 2017.

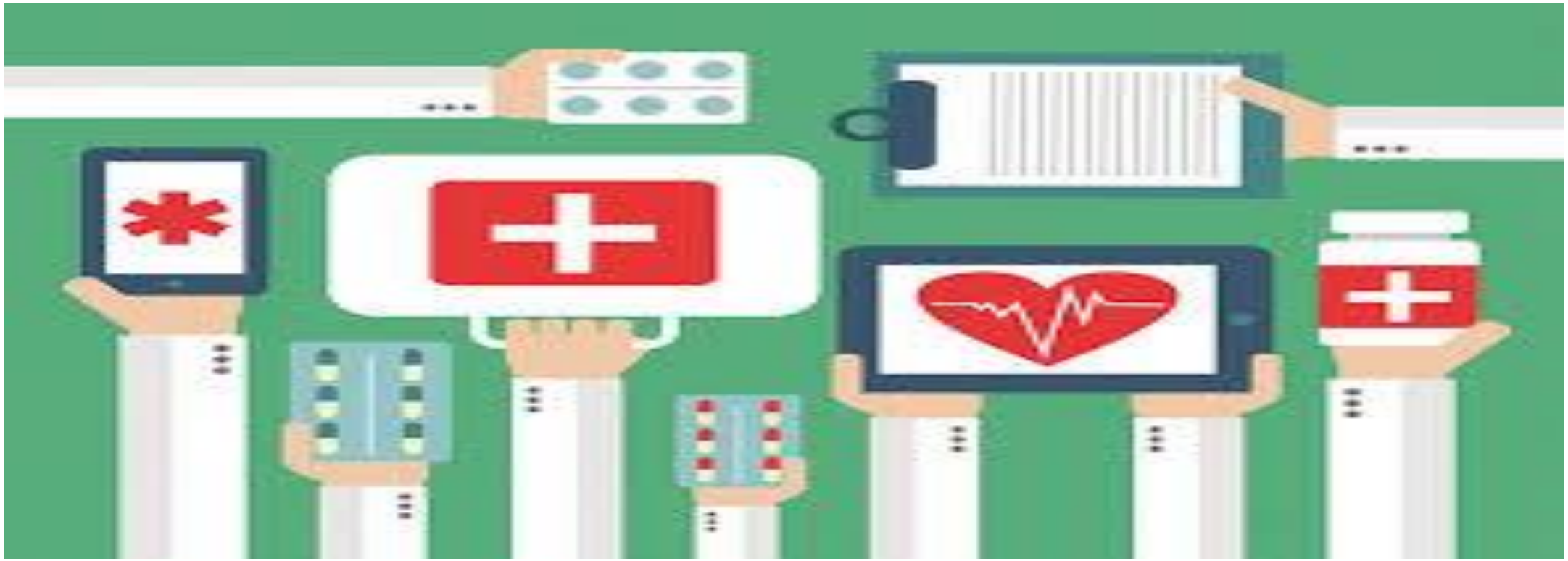
THEMES

- WORKFORCE
- DEMAND
- COVID 19 IMPACT
- SUSTAINABLE MODELS OF CARE
- COMMUNITY RESILIENCE
- AFFORDABILITY

SCOTLAND-NHS and Social Care Needs

- Prevention and Early Detection
- Early Diagnosis and Data Enabled Solutions
- Reducing Waste
- Productivity Gains
- Adoption of novel solutions

HEALTH AND SOCIAL CARE CATALYST AND ACCELERATOR



Consortiums-Areas Open for Innovation with 24 SBRI's

- Cardiology
- Dermatology
- Social Care
- Consumer Health
- Cancer
- Eye Health
- Logistics and workflow
- Mental Health
- Diabetes & Endocrine
- Emergency and Trauma Care
- Early Diagnostics and AI-iCaird
- Respiratory Care-
- Medicines
- Stroke
- NHS Labs and NHS
- Covid 19 Tests- Assays and related innovations

Supporting Industry

access

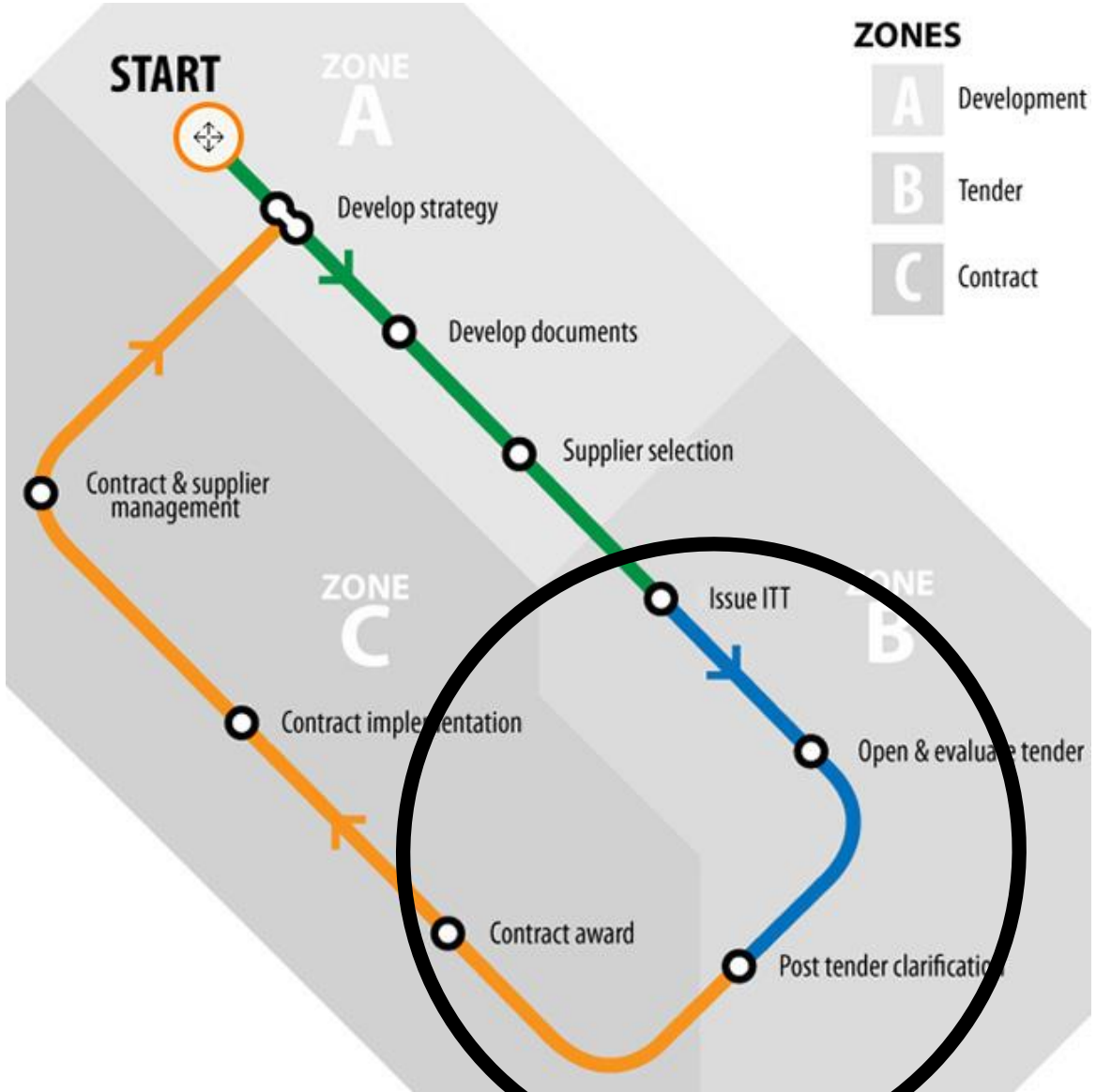
MHRA
Regulating Medicines and Medical Devices

Procurement Journey

Health Innovation Assessment Portal

https://www.procurementjourney.scot/

Greatest resource requirement



Regulated