THE NATIONAL ROBOTARIUM

PEOPLE CENTRED :: INTELLIGENCE DRIVEN

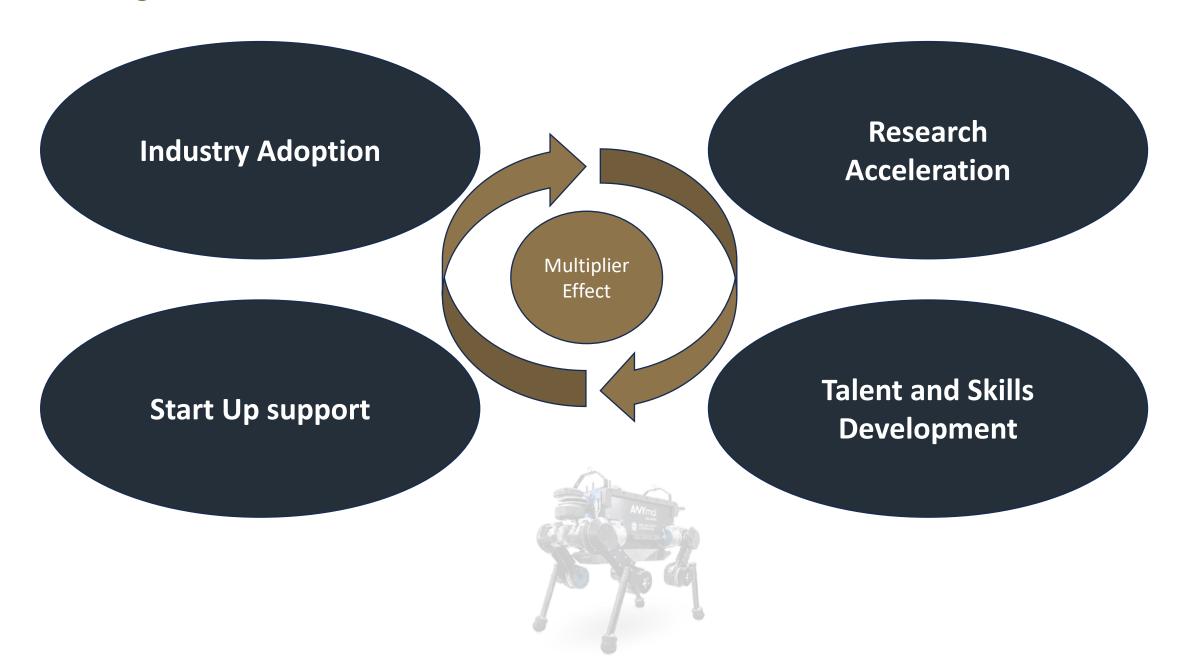
Robotics for Health

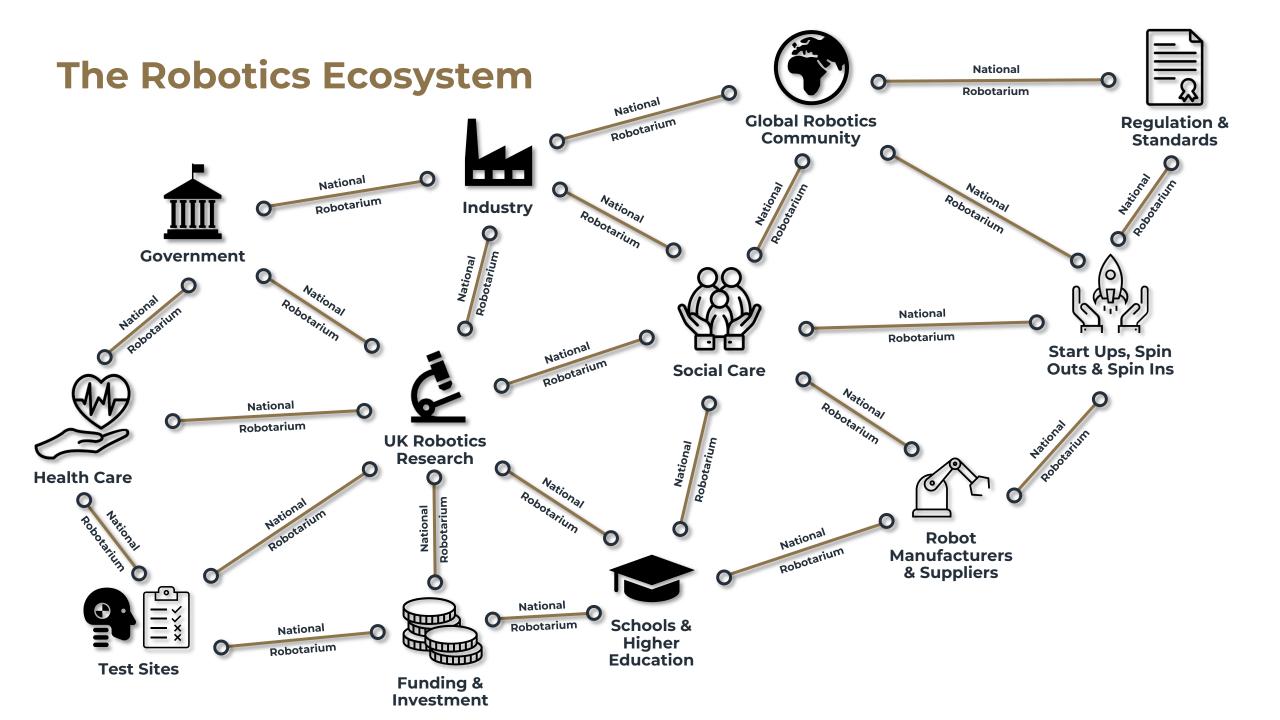






Primary Focus Areas





Roadmapping, an example

Based on impact, the top-eight opportunities were...

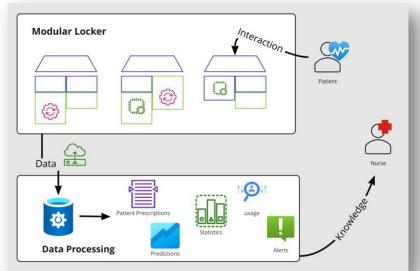
Rank	Орр.	Description	Safety	Quality	Cost	Time	Space	Total
1	43	Raw material dispensing	7	12	11	13	9	52
2	36	Pouring of slopes	12	11	10	13	4	50
3	21	Visual inspection of FGs	3	15	15	11	3	47
4	28	Goods in to warehouse	10	5	13	14	5	47
5	17	Weight checks on-line	4	14	13	12	3	46
6/7	32	Proactive trans. of goods	8	2	12	12	11	45
6/7	37	Packing automation	10	3	11	12	9	45
8	6	Labelling/weighing eBMR	1	15	14	13	1	44

Typical Scoring Matrix for a roadmapping collaboration





However...











Secondary; construction and housing, finance, training providers, manufacturers, policy, research.

companies.

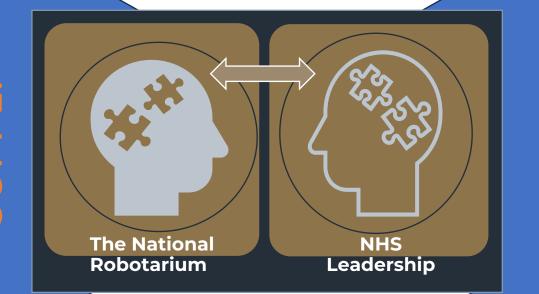
Suppliers to NHS challenged to innovate to win tenders

Disruptive start ups fast tracked into NHS

Robotic and AI companies access test bed

NHS intrapreneurs pushing innovations

University research with NHS



Health care challeng addressed

Ageing population and comorbidities

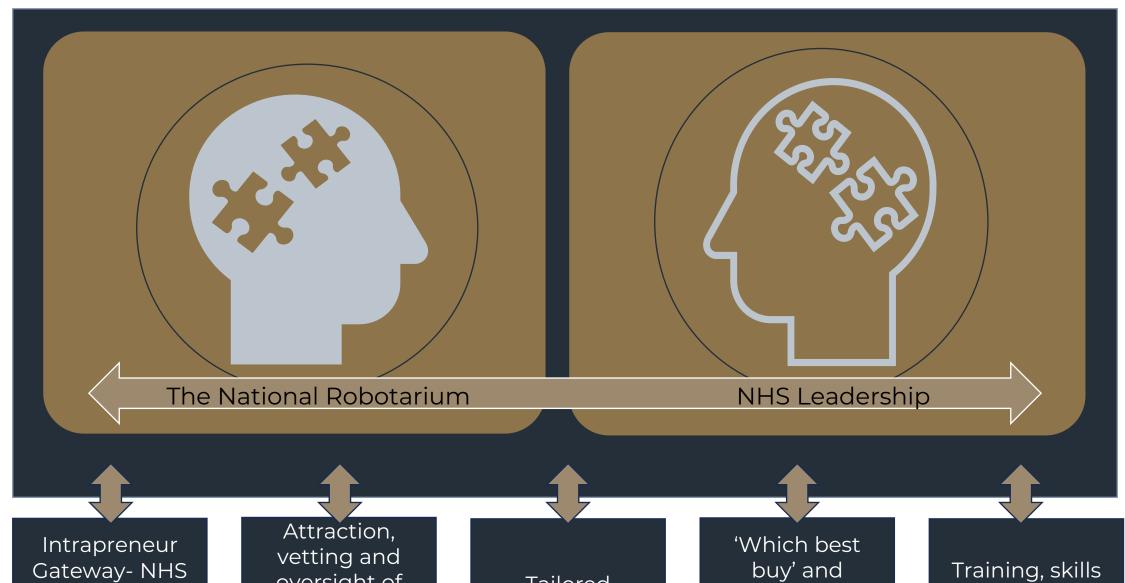
Workforce retention and recruitment,

Preparedness for potential pandemics

addressed

shortages plugged

Intrapreneurs engaged



Intrapreneur Gateway- NHS employees with ideas; triaged, piloted, administered Attraction, vetting and oversight of industry sponsored pilots and purchases

Tailored
Test and
certification

buy' and horizon scanning, links to research base

Training, skills development and recruitment

Intrapreneur Gateway

NHS and robotics expert panel assess innovations

Establish pot of funding for pilots, through to implementation.

NHS employees wanting to implement trials from industrial partners would have a trusted, independent 'critical friend' to assess veracity of outcomes and business cases.

Industry gateway:

Current suppliers and innovative companies of all sizes would have a facilitated pathway to test and develop solutions specific to NHS needs.

Innovative start-ups would have a viable future within the UK, with domestic talent answering domestic needs.

The NHS would act as an economic enabler of a robust robotics sector.

Horizon Scanning

The most innovative and impactful technology-regardless of geography or current application-could be transferred into the health care service efficiently.

Impartial advice on best technology and support systems for the task.

Access to early stage, blueskies research.





People

Training, re-training and recruiting personnel to adopt and work alongside robotics.

Stakeholders across clinical and non-clinical teams, as well as the future workforce.

Outreach programme and embeddedness in higher education

Tailored test and certification

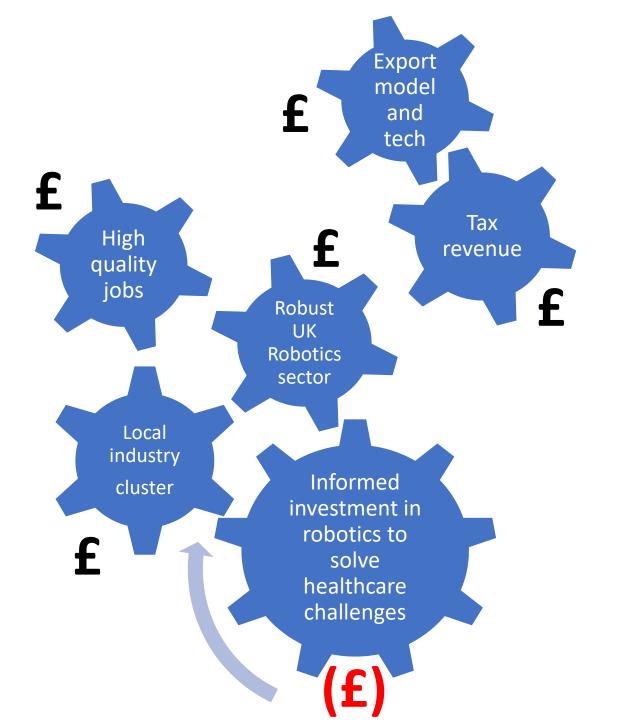
Dedicated resource for necessary test and checks for new technologies and services

Stakeholder engagement and acceptability testing

Economics and business case support for efficient deployment









Potential for Tax revenue reinvested in robotics for healthcare

NHS goes from cost centre to economic driver

Robotics for Health: Objectives

- Enhance Patient Care
 - 2 Increase Efficiency
 - 3 Promote Innovation
 - Support Workforce
 - Care for an Ageing Population
 - 6 Drive Economic Development
 - 7 Informed Procurement



Robotics for Health: Our Vision

We envision a National Health Service at the forefront of the healthcare revolution globally, where staff teams are seamlessly supported by robotics and artificial intelligence. The NHS would be in a strong, informed position to procure services & supplies and staff teams would be empowered to implement technology that would make a real difference to the health, and wealth, of the nation.





People Centred: Intelligence Driven





