ABHI
HealthTech for Life

LEVERAGING HEALTHTECH TO DRIVE COST-EFFECTIVE REDUCTION OF EMISSIONS

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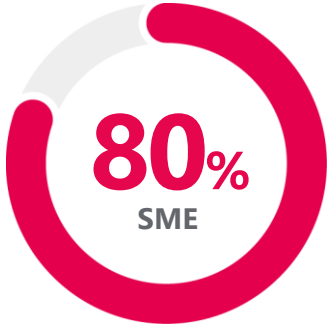
Association of British HealthTech Industries (ABHI)

ABHI & OUR OFFER

- Engagement to Shape Policy
- Expertise in Regulation
- Deep NHS Relationships
- Networking Opportunities
- Insight, Intelligence & Resources
- Support Trade & Export

400
Members



OUR TEAM

- Deep HealthTech industry experience
- 12 strong leadership team

INTERNATIONAL

- Help >250 companies annually
- US Accelerator programme
- UK Pavilions

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ABHI'S 2025 PRIORITIES

Key work areas

Strategic leadership provided by the ABHI Board, delivered through our network of member groups

- Single use
- Capital
- Surgical
- Digital
- Diagnostics (IVD, Imaging, genomics)
- Robot-assisted surgery

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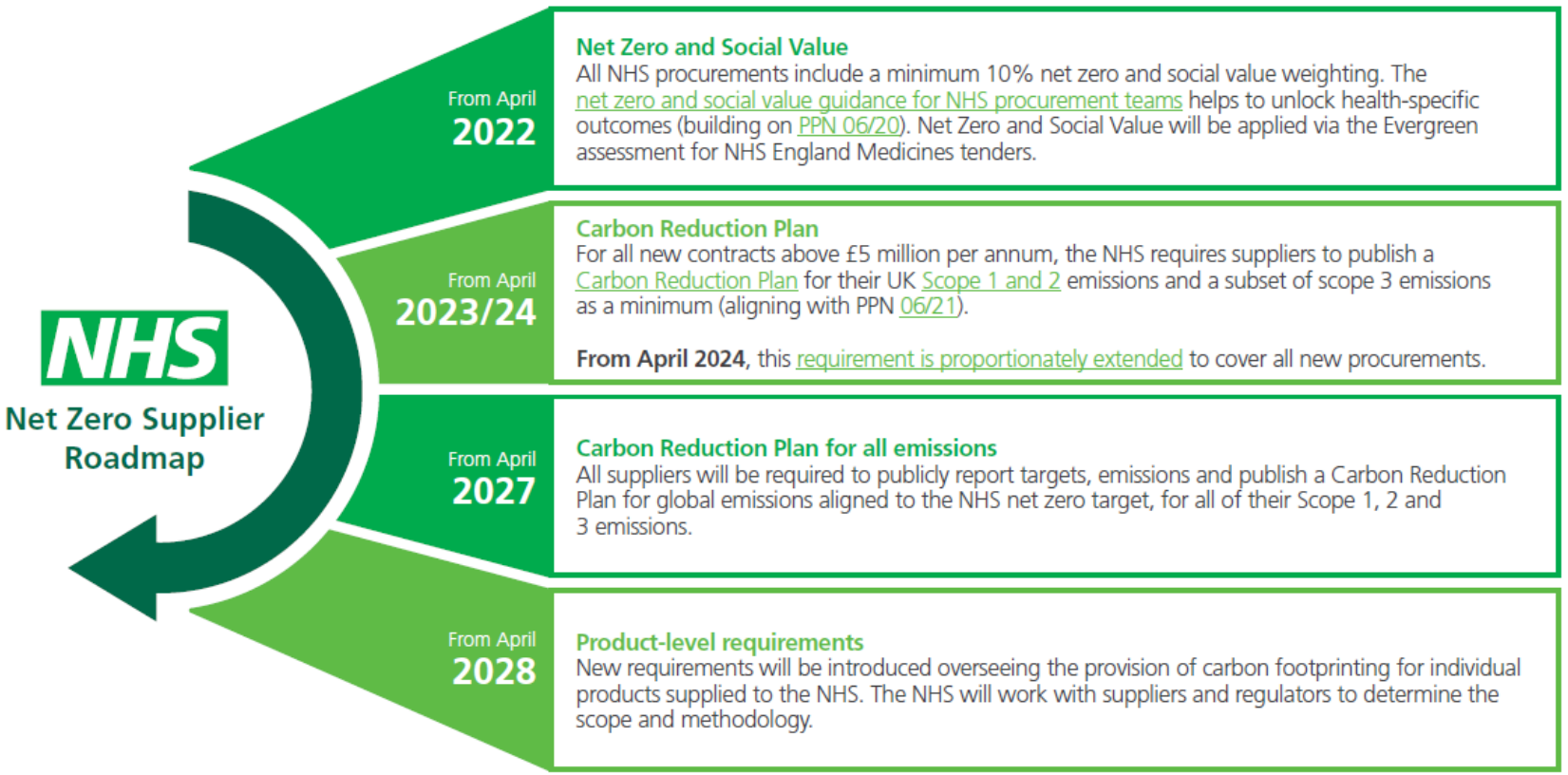
NHS Net Zero Supplier Roadmap



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HEALTHTECH AND SUSTAINABILITY: THE OPPORTUNITIES AND CHALLENGES FOR THE SECTOR

- ABHI position paper detailing the challenges and opportunities for the sector in reducing its environmental and social impact.
- Makes a number of recommendations for the NHS, Government and MHRA.
- Download: https://www.abhi.org.uk/resource-hub/file/17549

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CHALLENGES TO OVERCOME

NHS:

- Lack of consistency in approach
- Social Value questions
- Carbon Footprinting and 2028
- Adoption of sustainable innovations into the NHS
- Price
- The delivery of care
- Behaviour change
- Unintended consequences

Government:

- Government policy and legislation
- Understanding complexity of our sector
- Funding
- Long term planning and collaboration

Regulation:

- Electronic Instructions for Use
- QR Codes to improve information sharing
- Updated guidance on remanufacturing and refurbishment

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FIT FOR THE FUTURE: 10 YEAR HEALTH PLAN FOR ENGLAND

Hospital to Community

Analogue to Digital

Sickness to Prevention

'Virtual Wards' use 4 times less carbon than inpatient beds

Digital communications via NHS app reduce CO2e by 97.8% per appointment letter

Well managed Type 2 Diabetes has lower GHG impact despite longer life span

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TRANSFORMATION AND GROWTH

THE HEALTHTECH EFFECT

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AI-ENABLED STETHOSCOPES

What is an AI-Enabled Stethoscope?

An AI-Enabled Stethoscope is the integration of a traditional stethoscope with Artificial Intelligence (AI) to improve its diagnostic abilities. These devices incorporate sensors, software, and AI algorithms to analyse sounds in real time. The use of this technology can make abnormalities easier to detect, identify patterns, such as heart murmurs that might otherwise be missed, and, with the right supporting technology, the technology can be monitored remotely by a specialist.

How does it contribute to the 'Three Shifts'?

Hospital to Community

The use of AI-enabled stethoscopes in community pharmacies specifically reduces pressure on hospitals and GP surgeries. This is partly because they demonstrate higher referral rates for non-trivial HVD cases (70% more compared to GPs), which itself is the result of diagnostic capability being brought closer, and therefore made more accessible, to the patient. Some devices with this technology require little training to use, and so can more easily be translated into a community setting where highly qualified healthcare professionals may be scarce.

Analogue to Digital

AI-enabled stethoscopes contribute to the digitisation of the NHS by replacing traditional stethoscopes and allowing integration with electronic health records. They can also be remotely monitored by specialists.

Treatment to Prevention

AI-enabled stethoscopes in community settings allow early identification of HVD, including aortic stenosis, which often remains undiagnosed until it progresses to severe stages. Early detection prevents complications such as heart failure, reducing costly and invasive interventions downstream.

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DIGITAL LEAKAGE NOTIFICATION SYSTEM FOR STOMA

What is a Digital Leakage Notification System for Stoma?

A digital leakage notification system for stoma is a sensor layer that detects leaks under a stoma baseplate and notifies the user via a smartphone app. For the over 200,000 individuals living with a stoma in the UK, this innovation offers reduced leakage onto clothing, decreased anxiety about leaks, improved quality of life, and minimised unnecessary baseplate changes.

How does it contribute to the 'Three Shifts'?

Hospital to Community

The system empowers patients to manage their care at home. The app records and tracks leakage events, and in doing so provides data that can be shared with healthcare professionals for remote consultations, meaning patients no longer need to visit hospitals as much and can receive care in their communities and homes.

Analogue to Digital

There is no analogue equivalent to the use of these systems. Previously, patients have relied on manual checks, which can disrupt their daily life or sleep. Digital leakage notification systems offer a seamless digital solution, leveraging sensors and app-based reporting to simplify leakage management.

Sickness to Prevention

In giving patients a digital and automated system which notifies them of leakages, this technology addresses the root causes of patient anxiety and social isolation stemming from stoma leakage. This prevents the escalation of these mental health problems and therefore lessens the burden on later-stage psychological care. Additionally, by alerting users to leakage issues early, it reduces skin irritation and unnecessary product changes, preventing chronic problems which may otherwise require a hospital visit or an escalation of care.

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THANK YOU