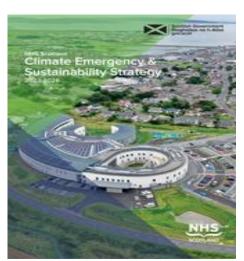






Embedding sustainability into every clinical and managerial decision





Current expansion





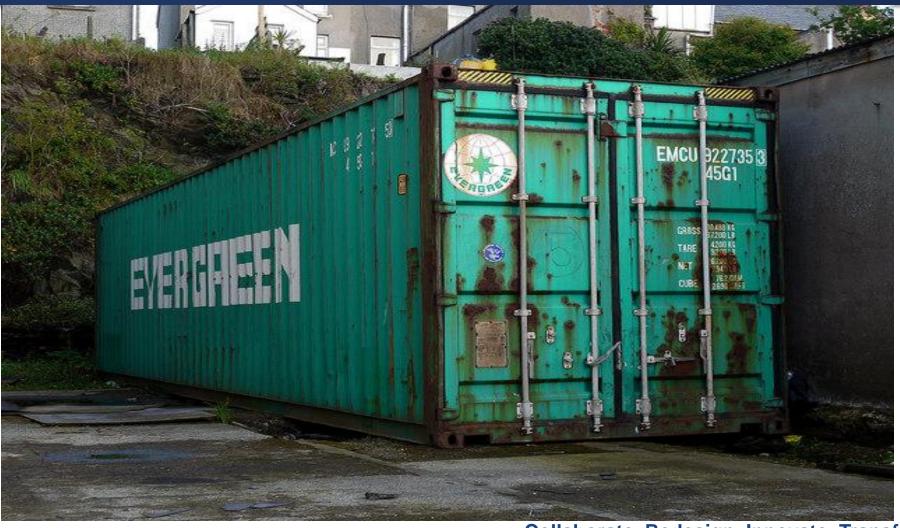






Ideal Green Theatre





Collaborate. Redesign. Innovate. Transform.







Finance



Green dividend by switching off HVAC (between 8pm and 6am and over weekend)

5000 - 6000 Tonnes CO2 / yr

£3.3 - 4M / yr



Lean Trays



Pilot work

Successful pilot conducted at the Golden Jubilee within the Orthopaedic Department.

- RA-TKA surgery reduction of over 30% in instruments and reduced number of trays from 5 to 4.
- Across the 5 month pilot a carbon reduction of 220kg Co2e was achieved.

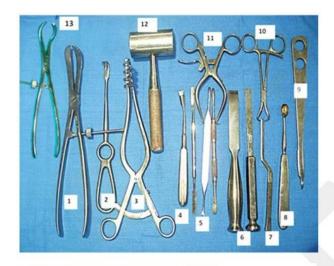


Figure 1: Example of numbered surgical set

Instrument utilisation	Surgeon 1 response
1	Always used
2	Never used
3	Always used
4	Never used
5	Never used
6	Rarely used
7	Rarely used
8	Often used
9	Often used
10	Always used
11	Always used
12	Always used
13	Always used

Figure 2: Example poll/survey for colleagues

Plastics





Environment

Microscopic plastics could raise risk of stroke and heart attack, study says

Scientists link tiny particles in blood vessels with substantially higher risk of death

Microplastics found in every human testicle in study

Scientists say discovery may be linked to decades-long decline in sperm counts in men around the world



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Microplastics and AMR



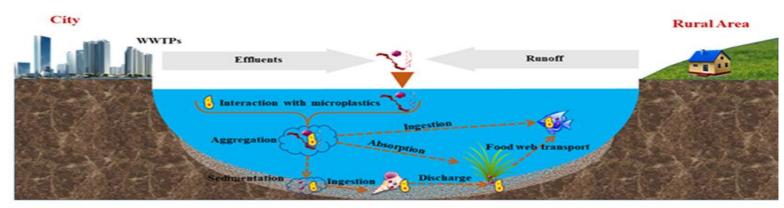






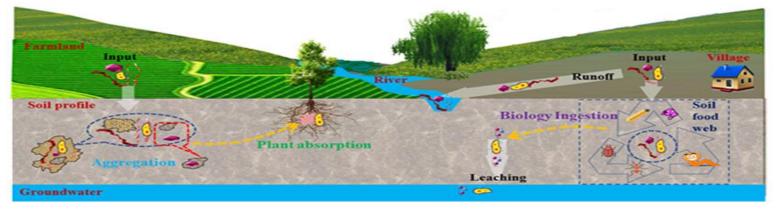


ARGs and their host



Terrestrial environment





Circularity -Back to the Future



- Refuse "Gloves are Off"
- Re-manufacturing of instruments
- Reusable textiles
- Alternatives to single use plastics





Risk & Innovation Sustainable Delivery



Purewater Intl

IF Water

Tiny Air

Only Novus MVCDTM
purifiers work differently

These are the reasons why:
Efficient evaporative purification technology
High temperatures capture & destroy
No consumables for complete consistency

Efficient evaporative
purification technology
Novus purifiers compress
evaporated water vapour
through a vacuum pump.
The added pressure and heat generated, then
removing the need for a
heating element. The
system generates distilled
water 22% more energy
efficiently than traditional
methods. 1



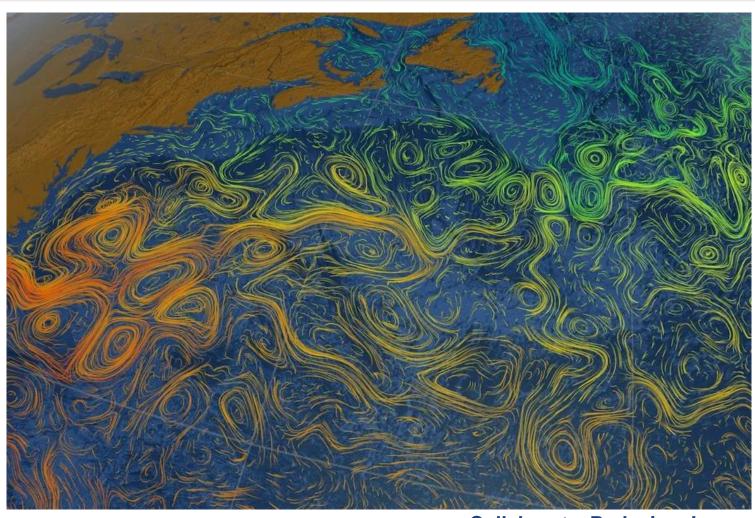




Medical Device Manufacturing Centre Collaborate. Redesign. Innovate. Transform.

AMOC – a tipping point





Collaborate. Redesign. Innovate. Transform.

AMOC with Global temp +2C





Barriers and opportunities



- Clinical Autonomy
- Silo working
- Who is in charge?
- Finance
- Risk and Innovation

"Many jobs contribute a greater portion of a person's carbon footprint than their home life or travel, so employees should carry constructive climate

activism to work"





First 2 years



12 ACTIONS FOR IMPLEMENTATION PUBLISHED



£600,000 SPEND AVOIDED 12,200 TCO2E SAVINGS DELIVERED

15 HEALTH BOARDS ACTIVELY ENGAGED IN THE MEASUREMENT FORUM

25

ACTIONS CURRENTLY IN DEVELOPMENT



ACTIONS FOR ADOPTION PUBLISHED



VISIT HOSTED WITH COLLEAGUES IN GALICIA, NORTHERN SPAIN





Projected savings of current actions –

20,000T CO2e

£6M spend avoided

Mòran taing Thank you







Clachan beaga, càrn mòr Little stones, big cairn

Intercollegiate Green Theatre Checklist | RCSEd

<u>Green Surgery – UK Health Alliance on Climate Change</u>

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