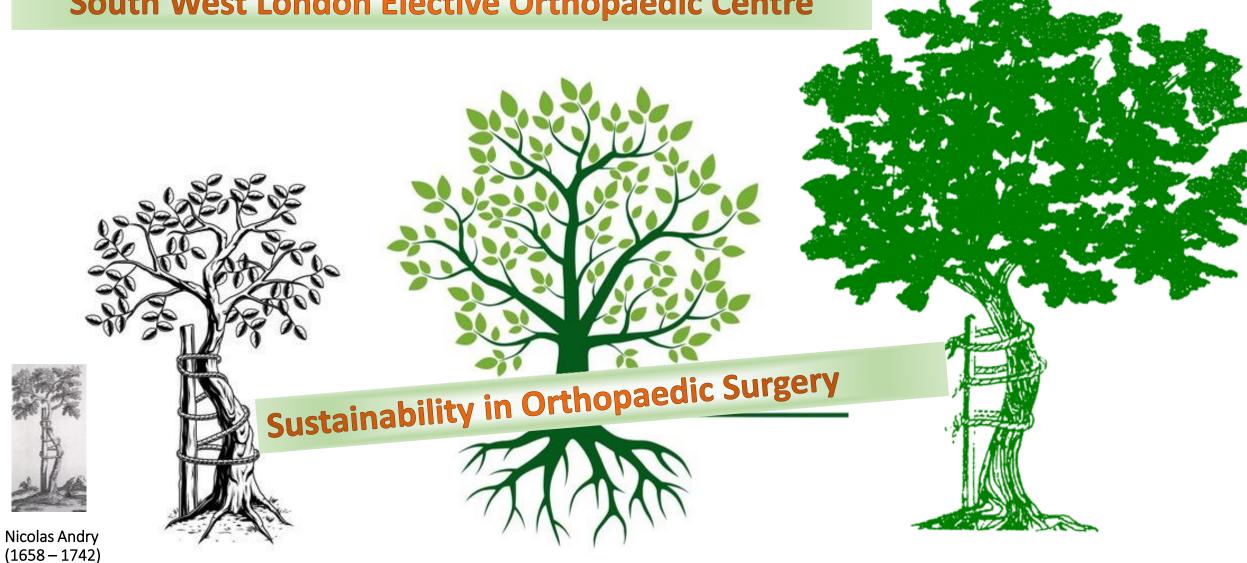
SWLEOC

South West London Elective Orthopaedic Centre



Climate Change

There is a problem

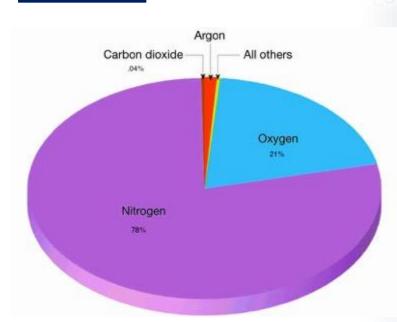
Probably exaugurated

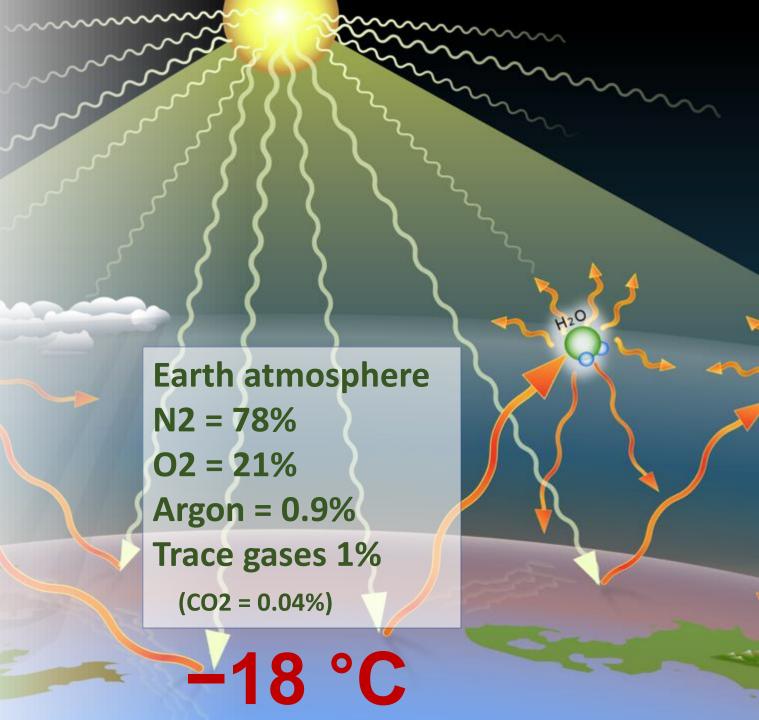
SWLEOC focused on SiOS which is not just being environmentalist

Greenhouse Gas

Trace Gases

- Co2 76%
- Methane 16% (agriculture)
- N2O 6% (industry and agriculture)
- H2O water vapor 0- 4%
- O3 ozone





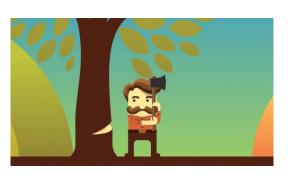
CO₂

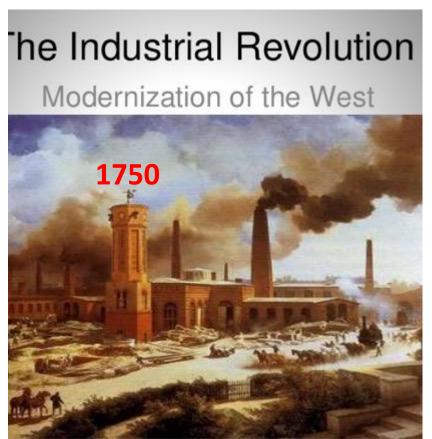
0.04% of the atmosphere

Since the industrial revolution

- 45% increase in the atmospheric concentration of carbon dioxide.
- Last time CO2 was as high over 3 million years ago
- Largely due to Burning fossil fuels and deforestation

- Increase from 280 ppm to 415 ppm
- CO₂ traps heat
- Ocean acidification, 30-40% dissolves into the oceans





A fossil fuel is a fuel formed by anaerobic decomposition of buried dead organisms.



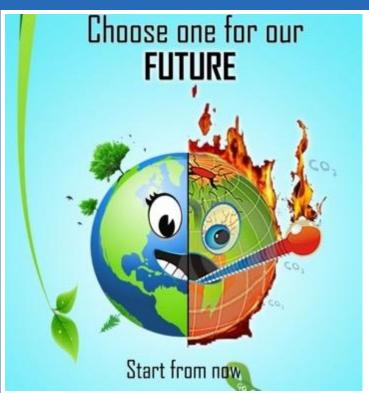
Fossil Fuel Energy

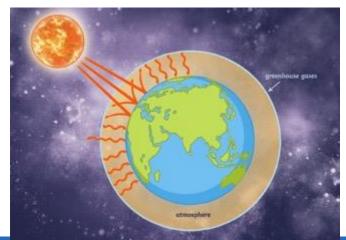
Coal Oil Natural Gas Gasoline















Professor Dejary Kader

NHS Carbon footprint

4-6 % of the nation's greenhouse gas emissions from the NHS

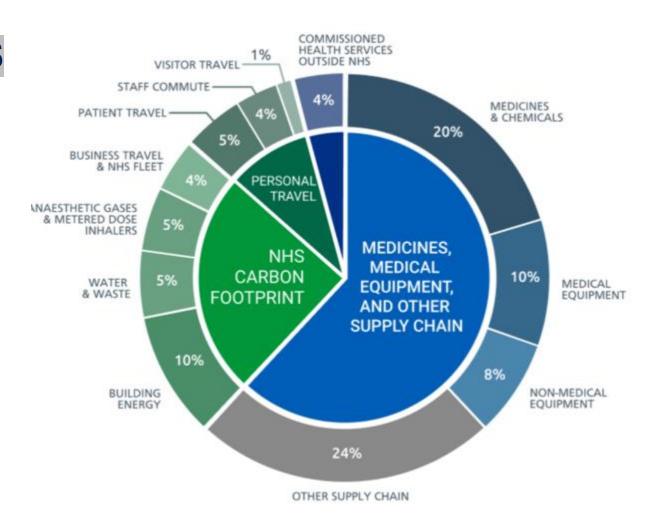
Major carbon hotspots in the NHS

62% Medicines, Equipment, Supply chain

5% Anaesthetic gases

15% Energy, water and waste

14% Travel (staff and patients)





Theatre is resource intensive area

1/3 of hospital waste

Single operation waste = Family of 4 for a week

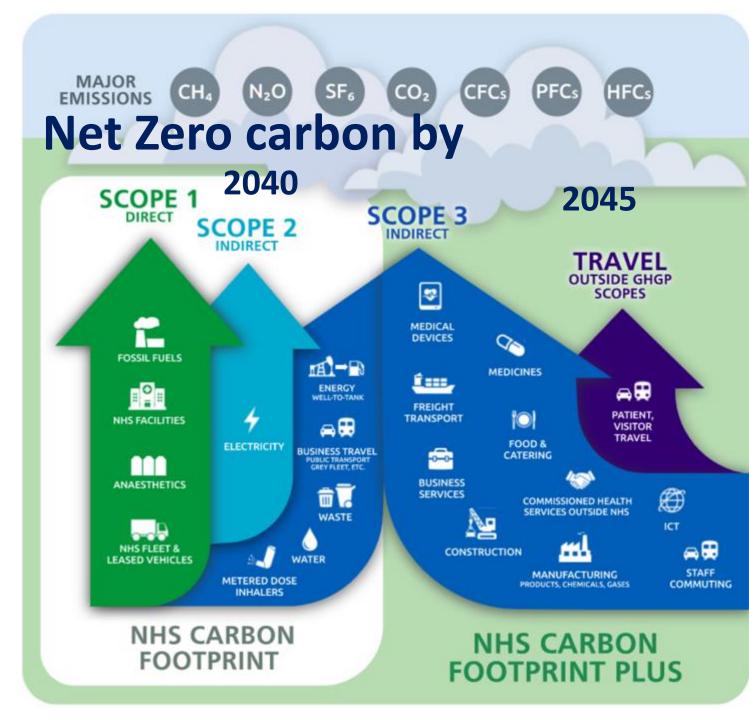
Single operation =250kg CO2e

Driving from London to Newcastle and back

Why do we need SiOS?

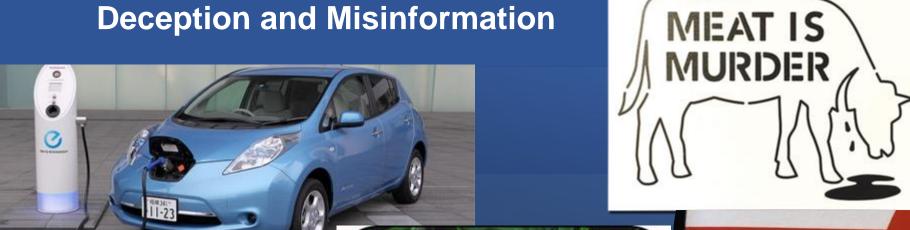
- NHS England has an annual carbon footprint of 25 million tonnes CO2e
- Net Zero CO2e Target
 - Direct control
 - Influence

Chris Skidmore signs legislation to commit the UK to a legally binding target of net zero emissions by 2050

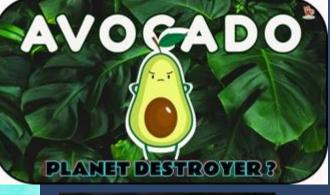




Deception and Misinformation











Avocado is not guilty.









Natural Gas

Gasoline

Our Aims

- ✓ To embed sustainability in the governance of SWLEOC
- ✓ To promote Greening initiatives of Reducing, Recycling, Reusing, Reprocessing, Repairing, Replacing, Refusing, Refurbishing, Rethinking and Researching
- ✓ To educate and empower healthcare staff
- To advocate for research into sustainability
- To be a leading the way for 'green theatre' practice





Establishing SiOS committee

12th May 2021 CG to make it the 8th pillar of Gov ToR written by 19th Weekly meeting since

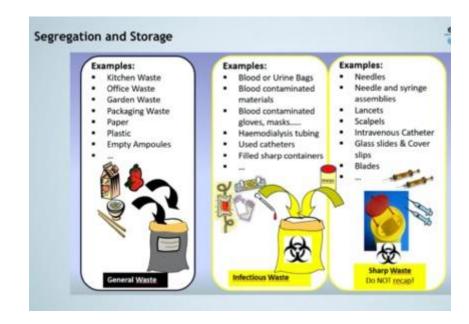
The directors, senior managers, surgeons, anaesthetist, intensivist, microbiology/ infection control team, procurement lead, sterilisation lead, IT lead, estate/energy lead, theatre lead, theatre staff, ward staff, PACU staff, Porters/Dom, physiotherapy, pharmacy, radiology, education leads, research

Collaboration with likeminded professionals regionally and nationally

Dr Emma Evens Sus Lead for South West London
Dr Andrew Broadbent Trust Sus Lead
Dominique Baptiste | Facilities Waste Manager
Ankit Desai UL fellow

Project plans & Score cards

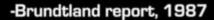
- 1 Project Plan Theatres Kate/Felix/Joanna
- 2 Project Plan Wards Sarah/Ruth
- 3 Project Plan PACU Maria
- 4 Project Plan Physiotherapy Boudine
- 5 Project Plan Outpatients Tracy Ann
- 6 Project Plan Radiology Alok
- 7 Project Plan –Waste management Dominique
- 8 Project Plan ESTH Andrew Broadbent



Sustainability The UN Bruntdland Commission 1987

Economic development at the cost of ecological health and social equity does not lead to long-lasting prosperity

"Meeting the needs of the present without compromising the ability of future generations to meet their own needs."







Sustainability Global concept



Sustainability is a holistic approach that considers ecological, social and economic dimensions, all must be considered together to find lasting prosperity

Environmental Sustainability

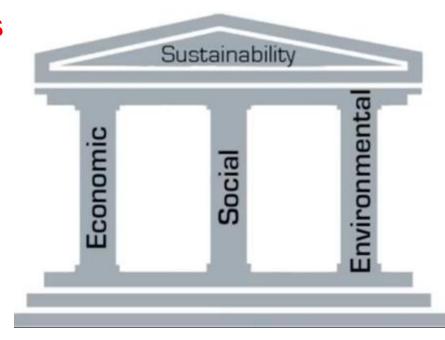
Maintaining ecological integrity by balancing the consumption and replenishment of natural resources

Economic Sustainability

Securing basic human needs Securing source of livelihood to all human

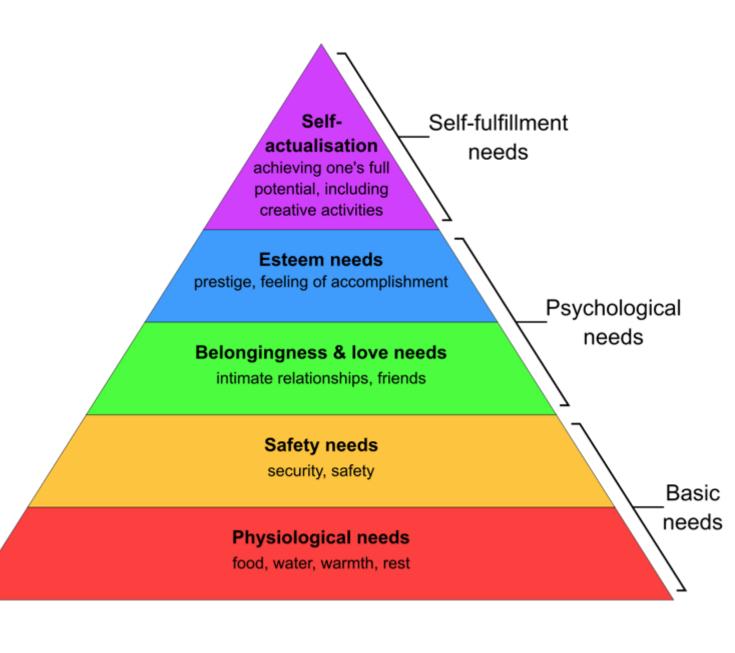
Social Sustainability

Respect Diversity and universal human rights Basic necessities are attainable by all people. Respect personal, labour and cultural rights



Maslow's Hierarchy of Needs





Sustainability Healthcare Concept

Sustainability is not just environmental-ism.

Environmental

Reduce environmental impact Reduce NHS carbon footprint Net-Zero emission by 2040

Financial

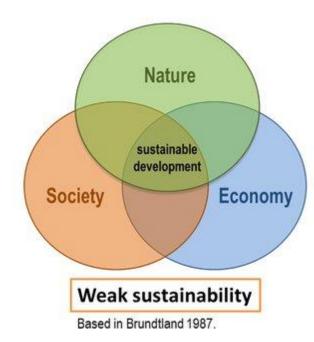
Reducing variability of care
Cost-effective use of healthcare resources
Ethical purchasing, production and sourcing
of healthcare products
Promoting efficiency

Social

Community involvement
Health is basic human right
Staff retention
Building resilience in the workforce

Natural capital or system can be substituted

The capitals are substitutable





Must maintain Natural capital Economy only exists in the context of a society

Professor Deiary Kader

SWLEOC Workforce Resilience



ENERGY

Sustaining and renewing physical energy to have the capacity to keep going through challenging times.



FUTURE FOCUS

Having a clear sense of purpose and direction to help to move forward without getting stuck or feeling held back.



INNER DRIVE

Sustaining selfbelief when times get tough, displaying confidence, motivation and perseverance.



FLEXIBLE THINKING

Having an open and optimistic mindset, enabling a positive and adaptive response to change and challenges.



STRONG RELATIONSHIPS

Building open and trusting relationships and being willing to call on these for help and support if facing a challenge.



SUSTAINABLE GALS

2030





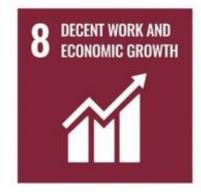








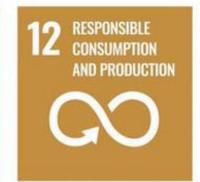








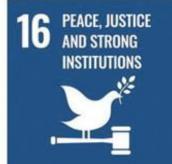


















Environmental sustainability cannot be achieved without meeting human needs and getting people from around the world on board



Environmental sustainability cannot be achieved without meeting human needs and getting people from around the world on board

The end-game is finding a way that we can all have a "good life" within the limits of nature

Future we are leaving for the next generation

Half the world lives on less than \$2.50 a day

1 Billion people cannot read or write

1 Billion currently without basic drinking water services.

2 Billion people still do not have basic sanitation facilities



46% of children from black and minority ethnic groups are in poverty in the UK, 26% of children in white British families (End Child Poverty, 2020).

Child poverty is defined by the Child Poverty Action Group as existing when parents can't afford to pay for basics such as food, housing and clothes - it affects 1/4 children in the UK

8R Greening Initiatives sreen

Rethink

Research

Reduce

Recycle

Refuse plastics **SWLEOC** SiOS

Reuse **Reclaim**

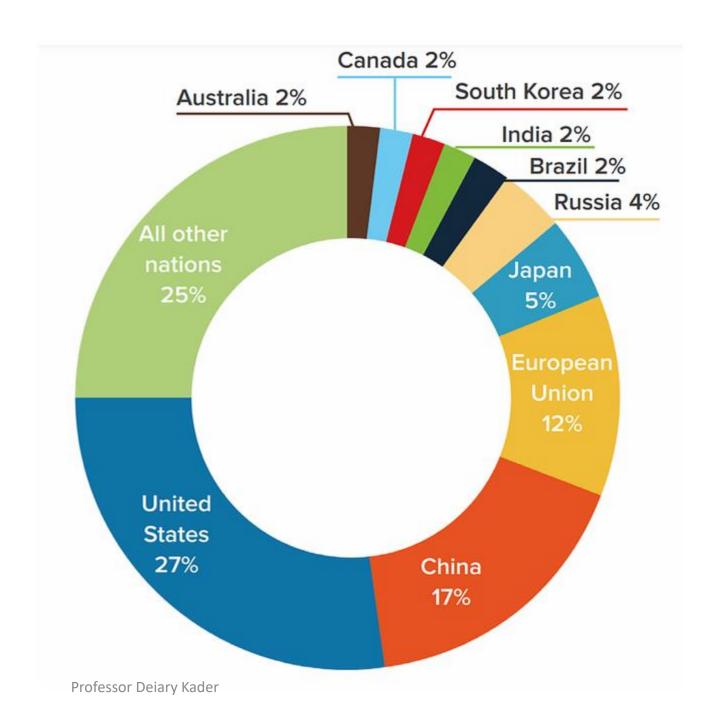
Repair Revamp

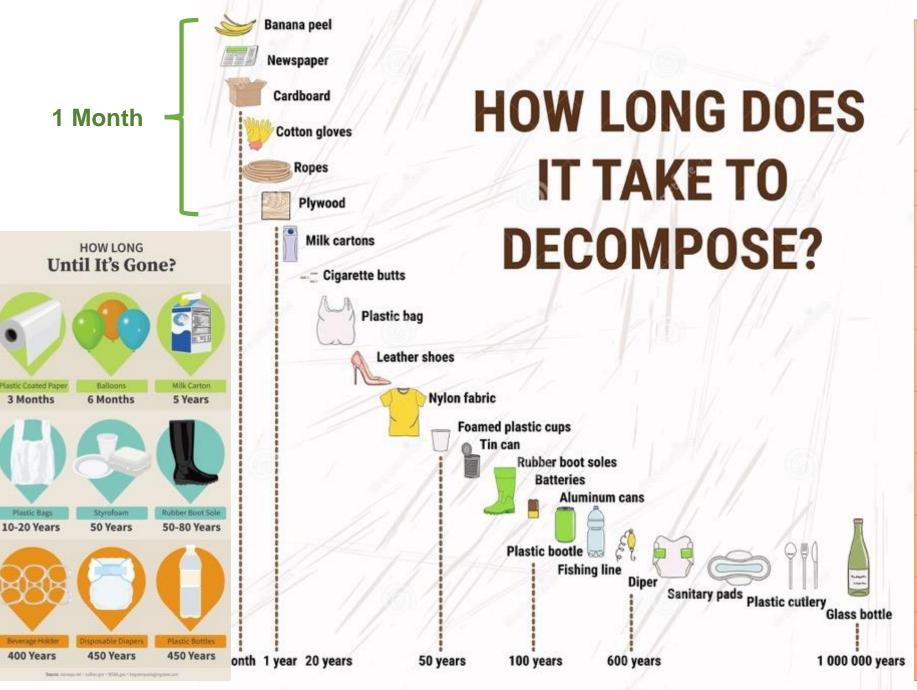
Eco-Friendly Healthcare

Responsibility

Replace non-eco-friendly Top ten emitters as % of global health care footprint







Material	Estimated Decomposition
Cigarette butts	5 years
Plastic bags	20 years
Plastic-lined coffee cups	30 years
Plastic straws	200 years
Soda can rings	400 years
Plastic bottles	450 years
Toothbrushes	500 years
Disposable diapers	500 years
Styrofoam	500 years
Fishing line	600 years
Glass	Unknown

Throwaway culture





disposal of millions of items each year because of a theoretical risk of transmitting infection.

- Instrument sets
- Syringes
- Saw blades
- Wires
- Tourniquet
- Diathermy hooks etc)
- single-use items



