

Introduction to sustainable healthcare and SusQI

QIPPP October 2022



CENTRE *for*
SUSTAINABLE
HEALTHCARE
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@sushealthcare

#SusQI



Welcome

Introduce yourself in the chat box

- Your name
- Role
- Location
- “It is important for me to be here because...”

Session Content

- Climate emergency is a health emergency
- Principles of sustainable healthcare and sustainable improvement
- Breakout room discussion
- Support that exists and how to get involved
- Agenda for the week ahead

Mentimeter

How do you feel about sustainability in your workplace?

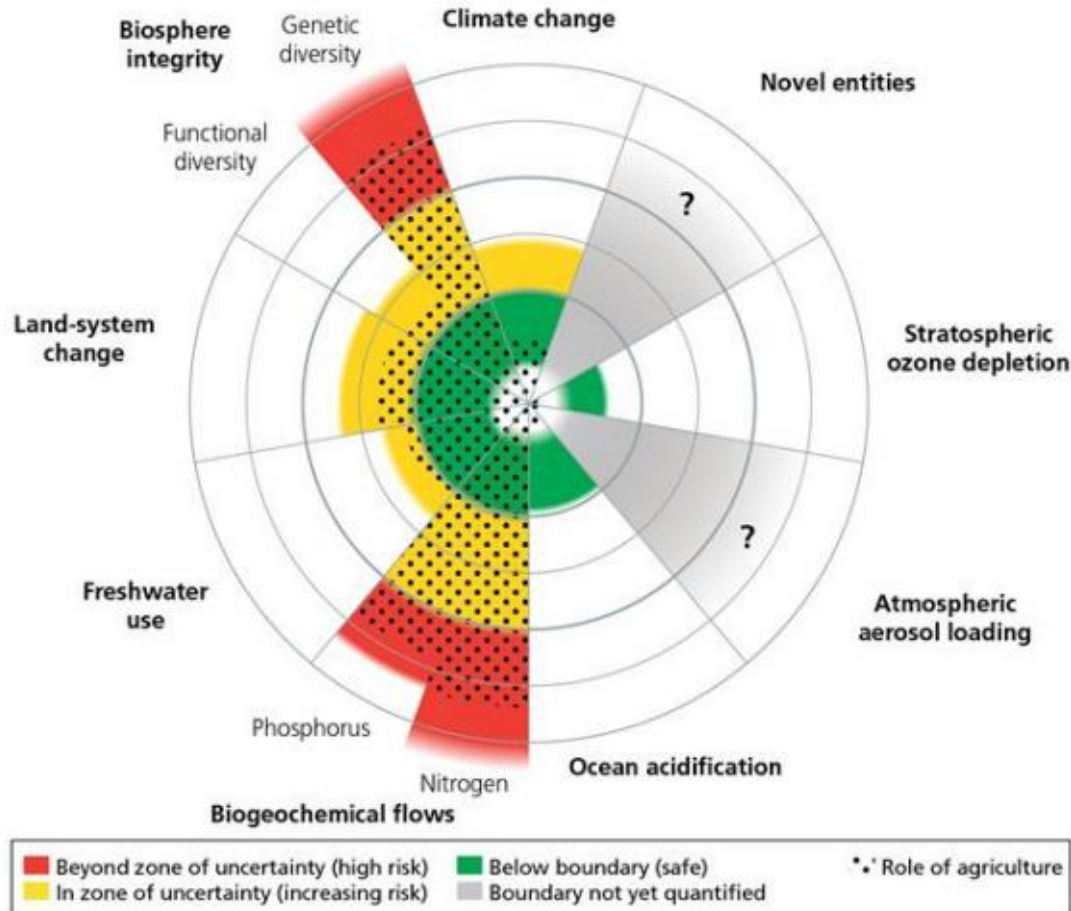
Do you know where to find resources and support for engaging in sustainable improvement?

<https://www.menti.com/almgaanck36m>



Planetary Boundaries

A safe operating space for humanity



Steffen et al. 2015. Science

- ▶ 4 boundaries crossed:
 - ▶ climate change
 - ▶ loss of biosphere integrity
 - ▶ land-system change
 - ▶ altered biogeochemical cycles (phosphorus and nitrogen)
- ▶ The Ninth Boundary



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Biodiversity Loss Is Endangering Food Security, UN Warns

Global loss of biodiversity is threatening the security of the world's food supplies and the livelihoods of millions of people, according to a [new report](#) by the United Nations' Food and Agriculture Organization (FAO). Land-use changes, pollution, overexploitation of resources, and climate change were listed as the biggest drivers of this biodiversity loss.



Stop biodiversity loss or we could face our own extinction, warns UN

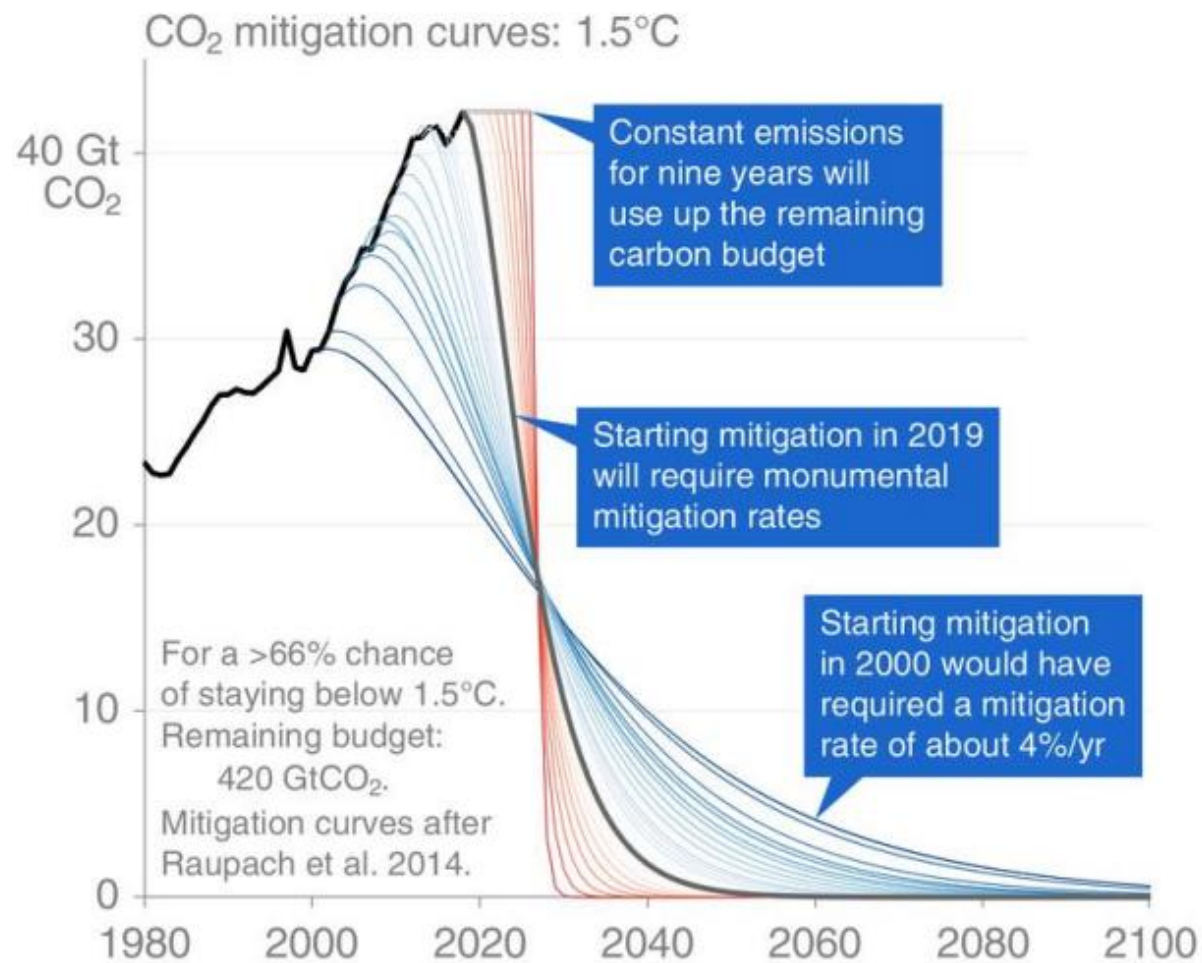
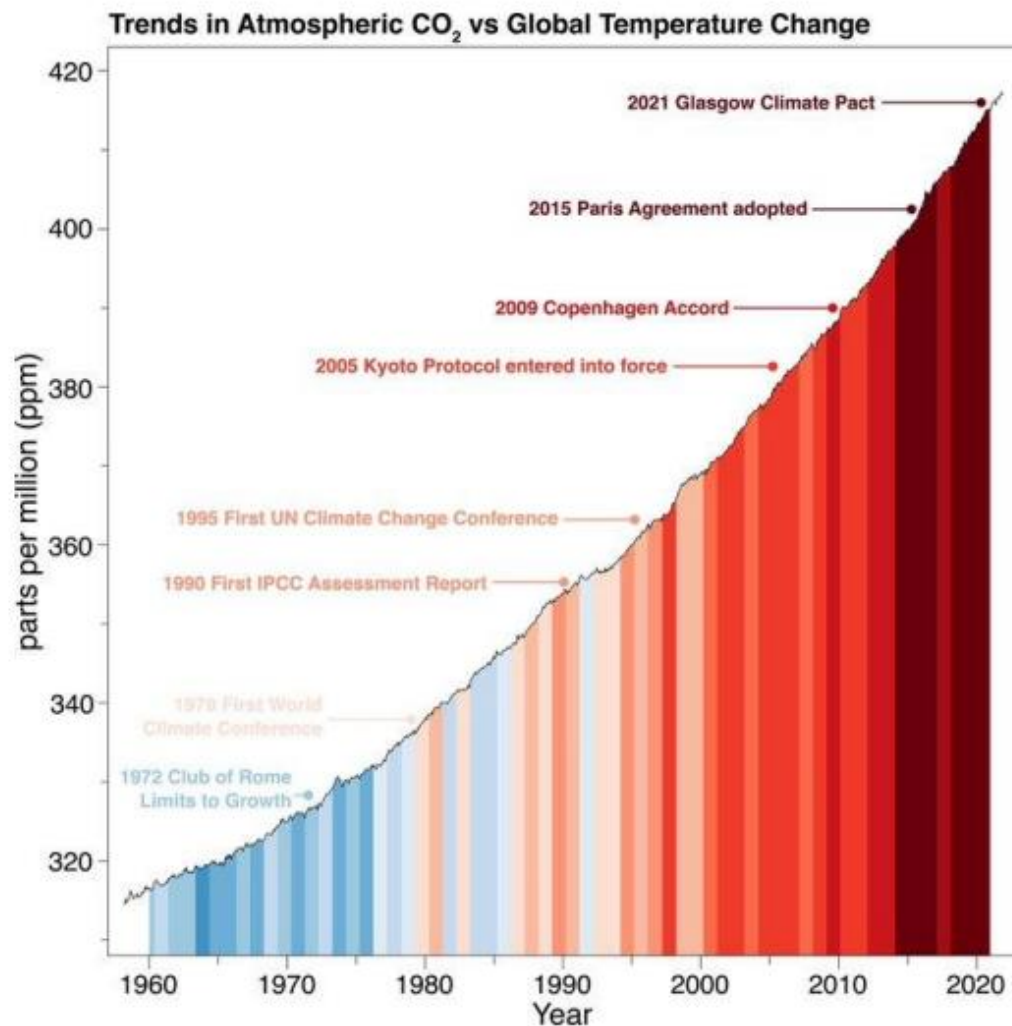


The Guardian
6.11.2019

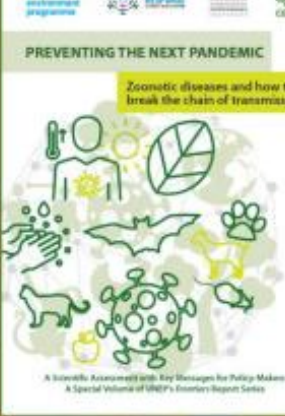
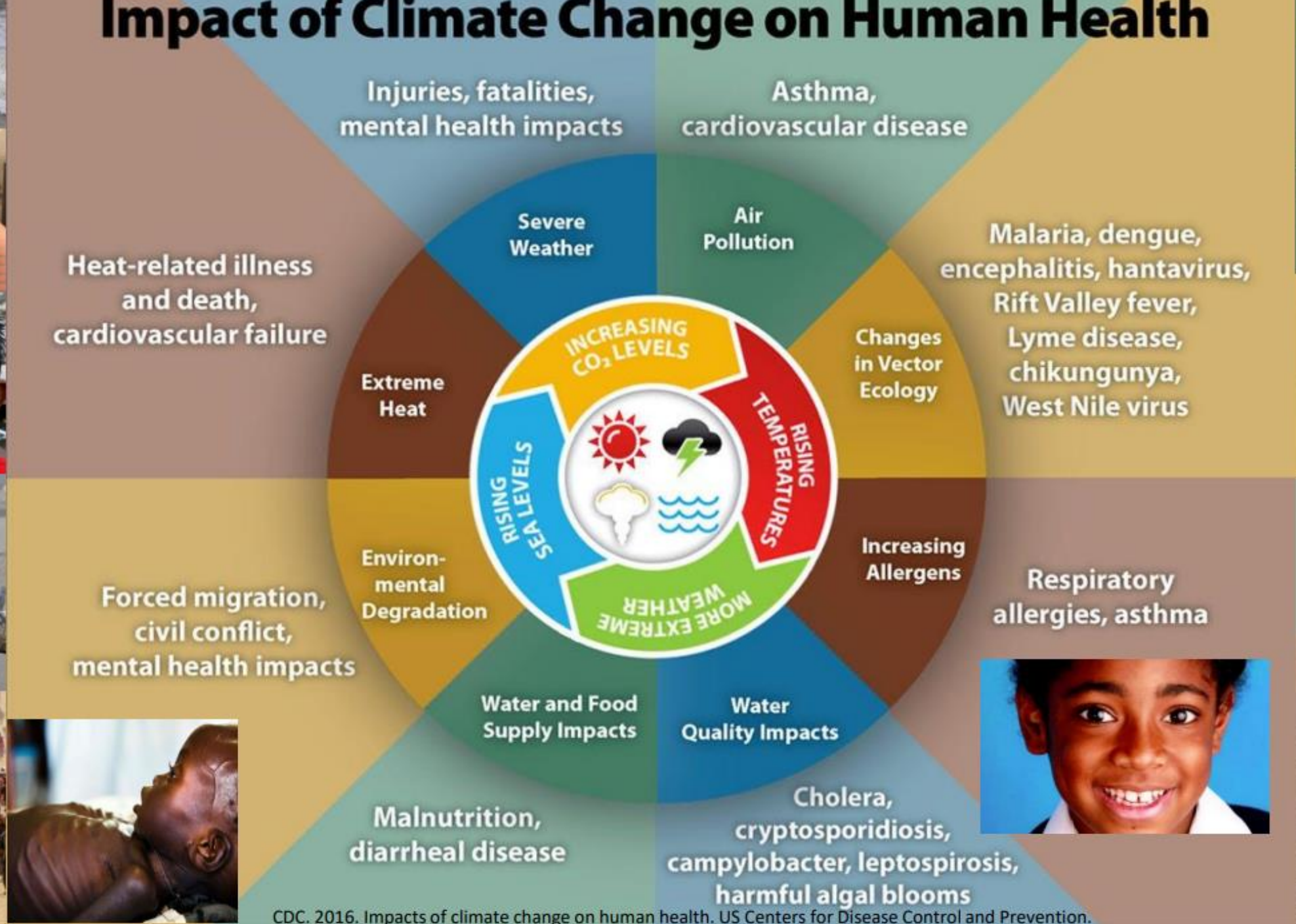
▲ Deforestation in Indonesian to make way for a palm oil concession. Photograph: Ulet Ifansasti/Greenpeace

Advertisement

Effectiveness of Current Approaches



Impact of Climate Change on Human Health



4 out of 10 (39%)

are hesitant
to have children
because of
climate change

Over half (55%)

think that the
things they
most value
will be destroyed

Over half (56%)

think that
humanity is
doomed

Nearly half

report negative impact on
daily functioning
(eating, concentrating,
work, school, sleeping,
spending time in
nature, playing, having
fun, relationships)



Young People's Voices on Climate Anxiety, Government Betrayal and Moral Injury: A Global Phenomenon

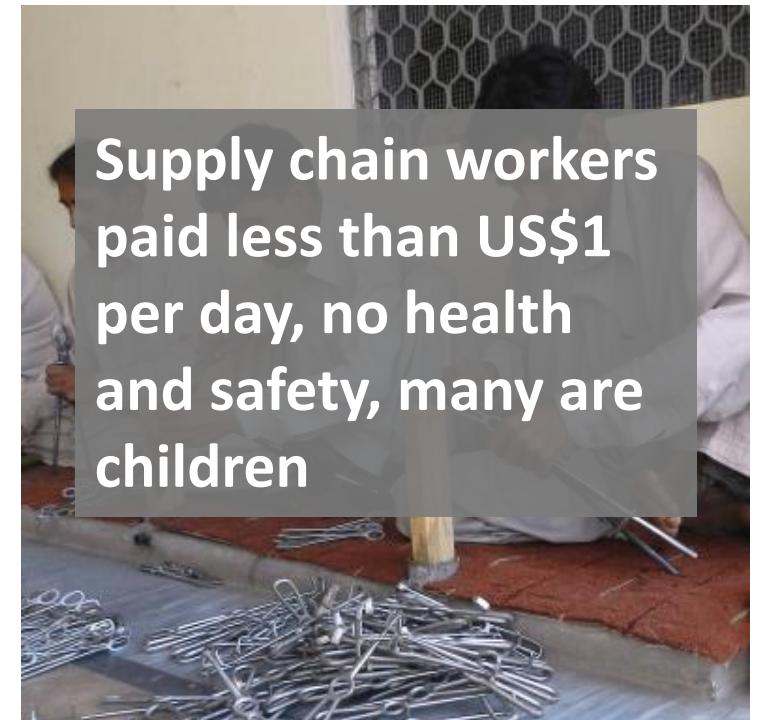
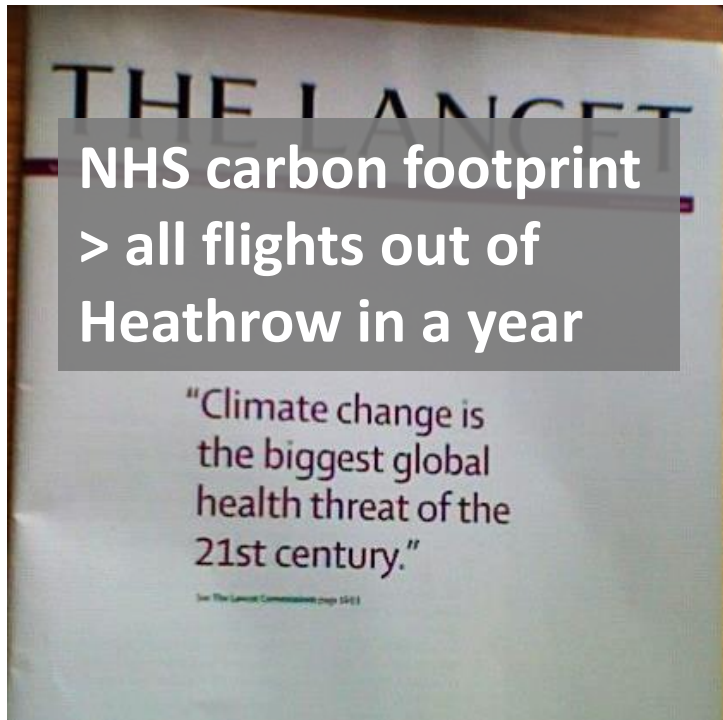


**75% of the Young People Around the World are
Frightened of the Future Because of Climate Change**

**60% think their
governments are**

- failing
- lying about the effectiveness of their actions
- betraying future generations

Do no harm



The Health Sector is Vulnerable

Storm Eunice: Major incident declared in Cornwall

🕒 17 February



Storm Eunice



Devon and Cornwall



A tiny symbol of resilience dies in hospital destroyed by Philippines typhoon after clinging to life for three days

Her parents had used a hand pump to squeeze oxygen into her newborn lungs, but Althea eventually died in a hospital lacking the electricity that might have saved her

The Telegraph

Nov 17, 2013 • January 25, 2013 • 2 minute read • [Join the conversation](#)



London floods: Whipps Cross Hospital evacuated with all planned surgery axed

An entire block at Whipps Cross Hospital in east London has been forced to close after flooding caused a major power outage, with 100 patients evacuated to sister sites

By **Ryan Merrifield**, Reporter

11:09, 26 Jul 2021 | **UPDATED 11:38, 26 Jul 2021**

2022



#LANCETCLIMATE22

“

The report makes it clearer than ever that we are at a critical point. If we continue as we are, including subsidising fossil fuels, we will be locked into a devastating future for the children of today.

A health-centred response to the current crises can still deliver a low-carbon, resilient, healthy future. Decision makers can choose to fund systems and solutions that will save at least 1.2 million lives from cleaner air, 11.5 million lives from healthier diets, reduce energy poverty, and deliver healthier, more liveable cities

RACHEL STANCLIFFE

Director, The Centre for Sustainable Healthcare



SUSTAINABLEHEALTHCARE.ORG.UK



@SUSHEALTHCARE

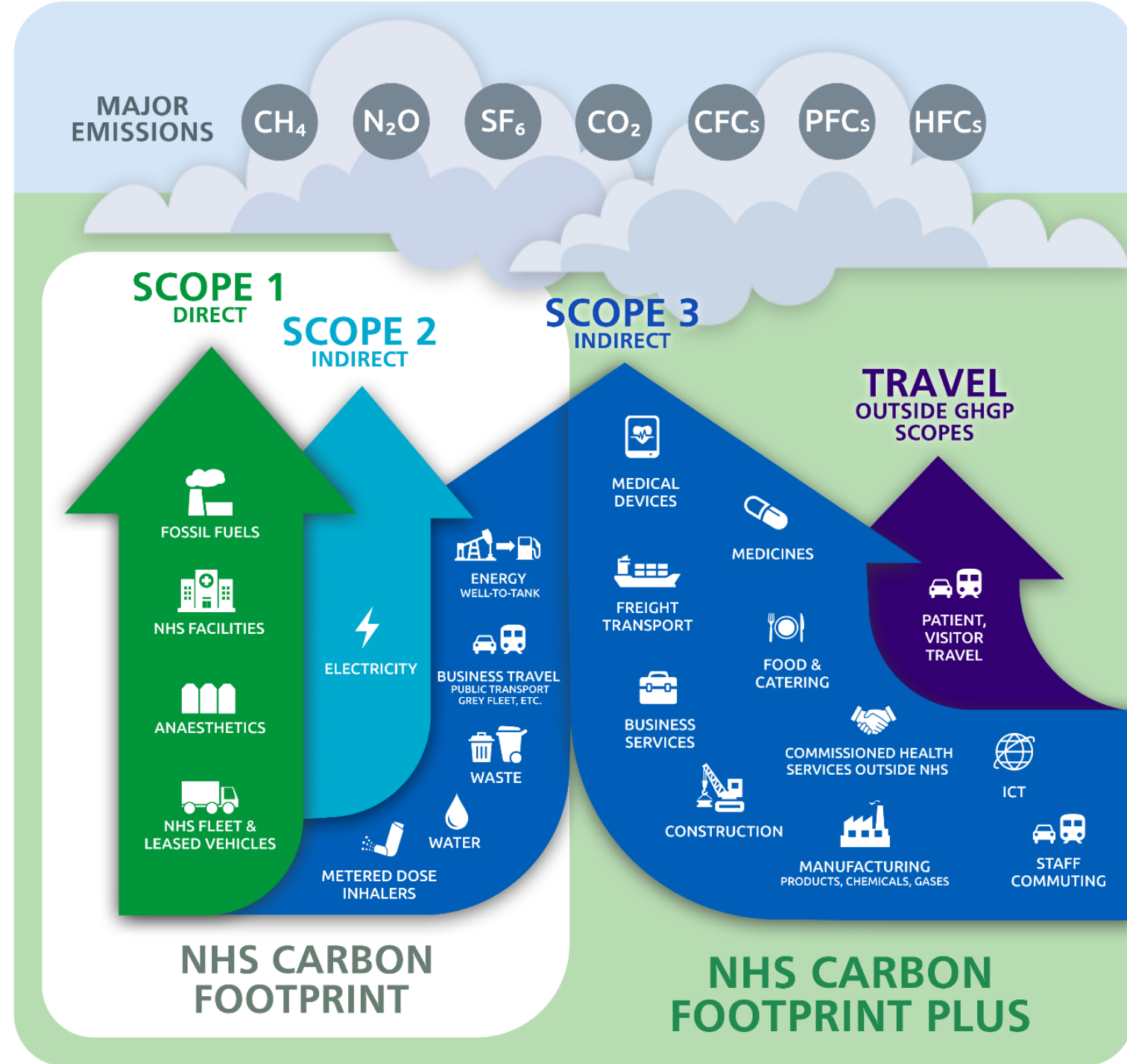


Health sector leadership

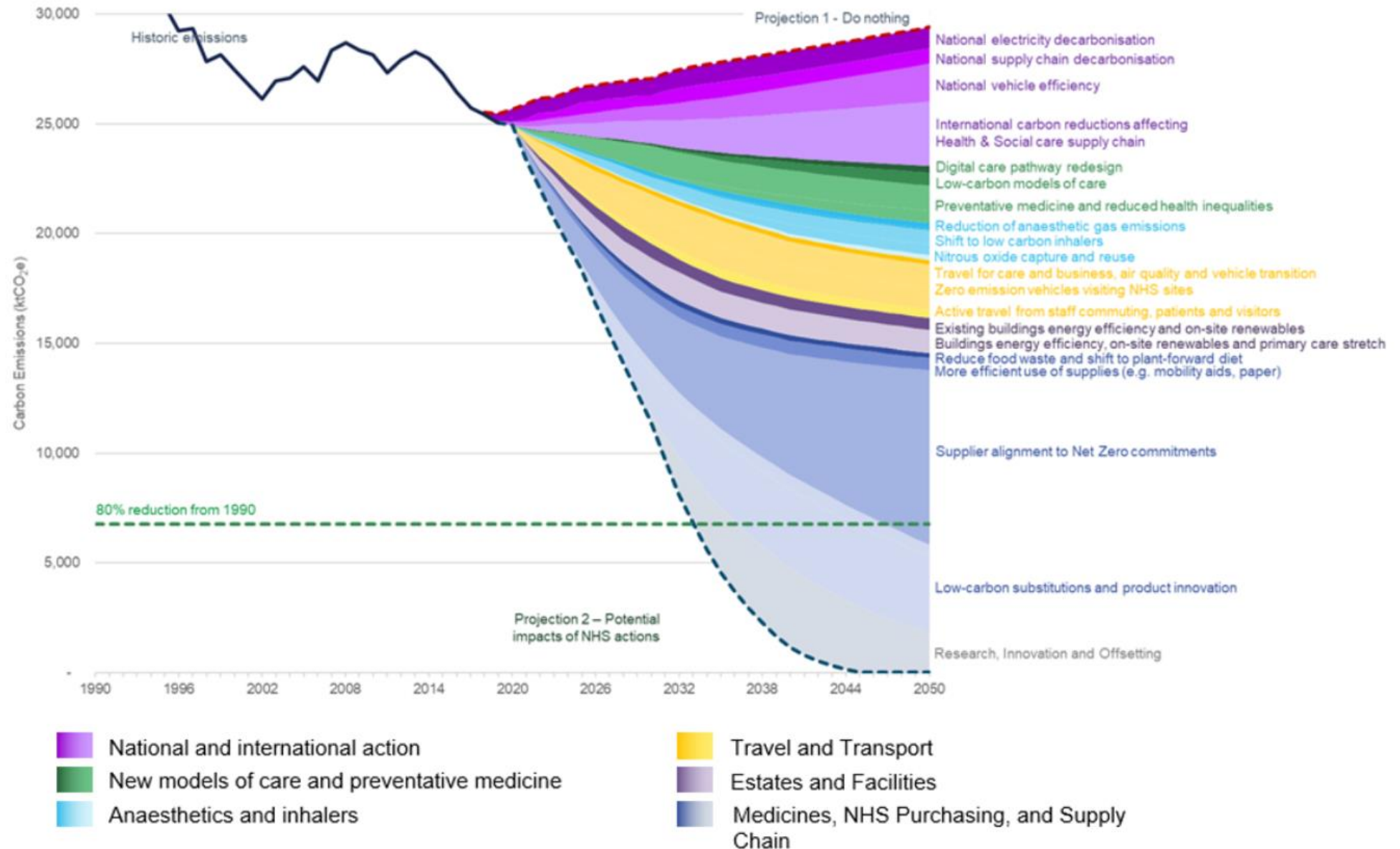
NHS England

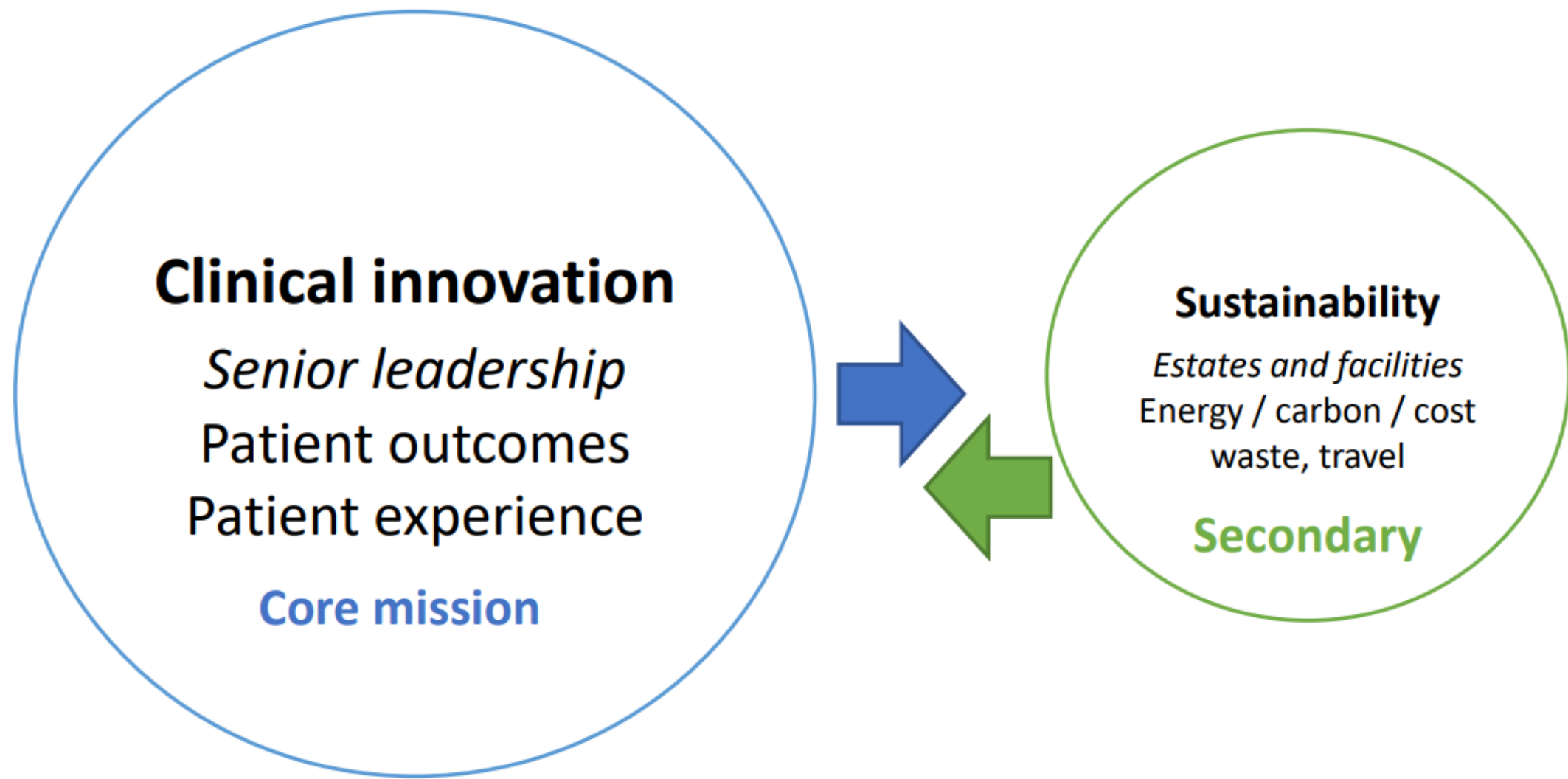
- NHS Carbon Footprint
➡ net zero by 2040
- NHS Carbon Footprint Plus
➡ net zero by 2045

*Delivering a 'Net Zero' National Health Service.
NHS England & Improvement (Oct 2020)*



Where is the gap? NHS carbon footprint projections





What if... sustainability became a mainstream part of
quality improvement?

1. PREVENTION

Promoting health and preventing disease by tackling the causes of illnesses and inequalities

3. LEAN SERVICE DELIVERY

Streamlining care systems to minimise wasteful activities

2. PATIENT SELF-CARE

Empowering patients to take a greater role in managing their own health and healthcare

4. LOW CARBON ALTERNATIVES

Prioritising treatments and technologies with a lower environmental impact



Sustainability in Quality Improvement (SusQI)



$$\begin{array}{c} \uparrow \\ \text{Value} \end{array} = \frac{\begin{array}{c} \uparrow \\ \text{Outcomes for patients and populations} \end{array}}{\begin{array}{c} \text{Environmental + social + financial impacts} \\ \text{(the 'triple bottom line')} \end{array} \downarrow}$$



GREEN WARD
COMPETITION
CENTRE FOR SUSTAINABLE HEALTHCARE

NHS
University Hospital
Southampton
NHS Foundation Trust



**PIONEERING EARLY MOBILISATION IN
SOUTHAMPTON CARDIAC INTENSIVE CARE UNIT**



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[➤Read the Report](#)

Potential savings



Savings of 48.5 tonnes CO₂e
over 2 years



Savings of £1,266,327 over
2 years



- More rapid recovery
- Earlier discharge
- Patients having more autonomy in hospital
- Increased staff satisfaction



- Reduced ventilation days by 4 days
- Reduced overall CICU stay by 6 days



**GREEN WARD
COMPETITION**
CENTRE FOR SUSTAINABLE HEALTHCARE

Royal Devon and Exeter **NHS**
NHS Foundation Trust



REDUCING UNNECESSARY CANNULATION IN THE EMERGENCY DEPARTMENT

Winners of the Royal Devon and Exeter
2018 Green Ward Competition.



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[>Read the Report](#)

Potential annual savings*



8,403 kg CO₂e



£27,831



Social sustainability:

- Patients ↑ mobility/independence, ↓ pain
- Staff ↑ time, improved work flow



Clinical outcomes:

- Reduced infection risk
- Less inappropriate IV fluid use

*These are the potential annual savings available to the Trust when projects are fully implemented and embedded. These carbon and cost savings will increase if the projects are scaled up across clinical areas.

A Novel Care Pathway for Stable HIV Patients

Problem identified:

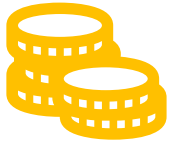
Most adherent patients now physically stable and living normal lives. Yet across the UK, most stable HIV patients attend services with the same frequency and undergo similar pathology investigations as those HIV patients who are relatively newly diagnosed or considered unstable.



Outcomes



25,957.8 kgCO₂e per year, ~74,763 miles driven in a car



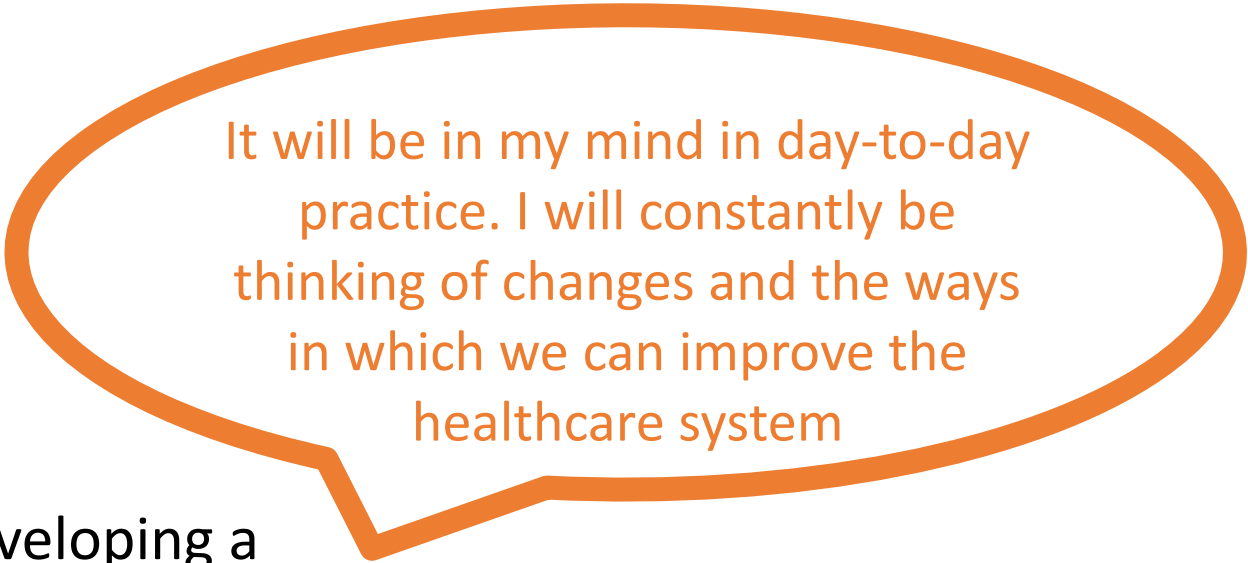
£44,904.60



- 350 hours of B6 nurse time and 200 hours of Doctor time saved per year.
 - higher value work, cover existing pressure points, dedicate more time to patients with difficulty with adherence.
- Positive patient feedback
- Patient saving of £9.20 in travel + reduced loss of income




- Incentive to improve patient adherence.
- U=U (undetectable is untransmissible) is a powerful public health aim, with wider public benefits by reducing frequency of new HIV infections.



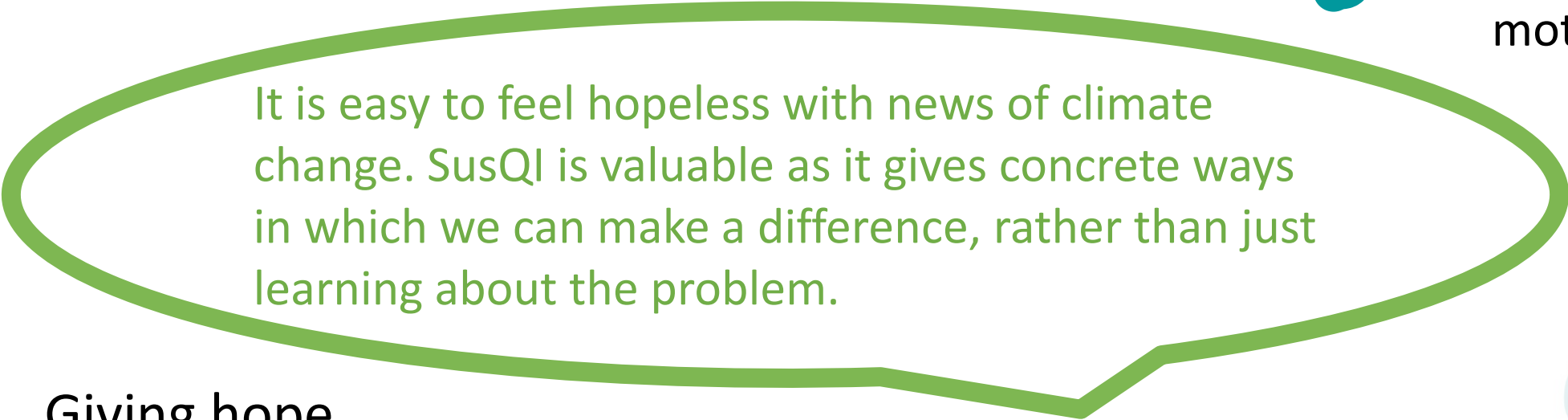
It will be in my mind in day-to-day practice. I will constantly be thinking of changes and the ways in which we can improve the healthcare system

Developing a
'SusQI lens'



I have more respect for the difference that can be made through quality improvement

Increased
motivation for QI



It is easy to feel hopeless with news of climate change. SusQI is valuable as it gives concrete ways in which we can make a difference, rather than just learning about the problem.

Giving hope



Breakout rooms

- Using principles of sustainable healthcare, identify work you're already doing in one or more area
- Discuss any new or emerging sustainability projects in your areas, or anything you're inspired to work on
- How are you aligning your QI and sustainability team? What are the enablers and what are the challenges?

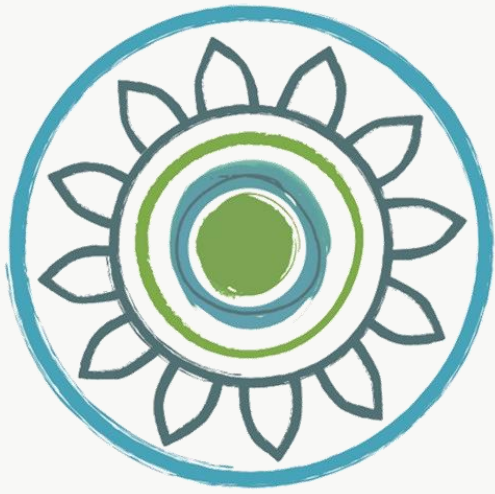
Centre for Sustainable Healthcare support for healthcare organisations

- Green Ward Competition
- SusQI Academy
- Beacon site accreditation
- Course block-booking
- Sustainability Fellowship & Scholarship Programmes



[New Environmentally Sustainable Healthcare elearning is available - elearning for healthcare \(e-lfh.org.uk\)](http://e-lfh.org.uk)



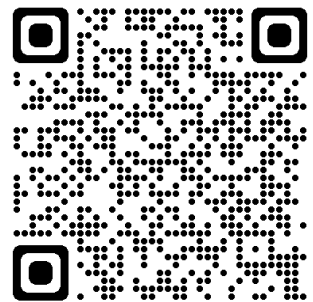


GREEN WARD COMPETITION

CENTRE FOR SUSTAINABLE HEALTHCARE



Engaging people • Stimulating great ideas • Catalysing real changes



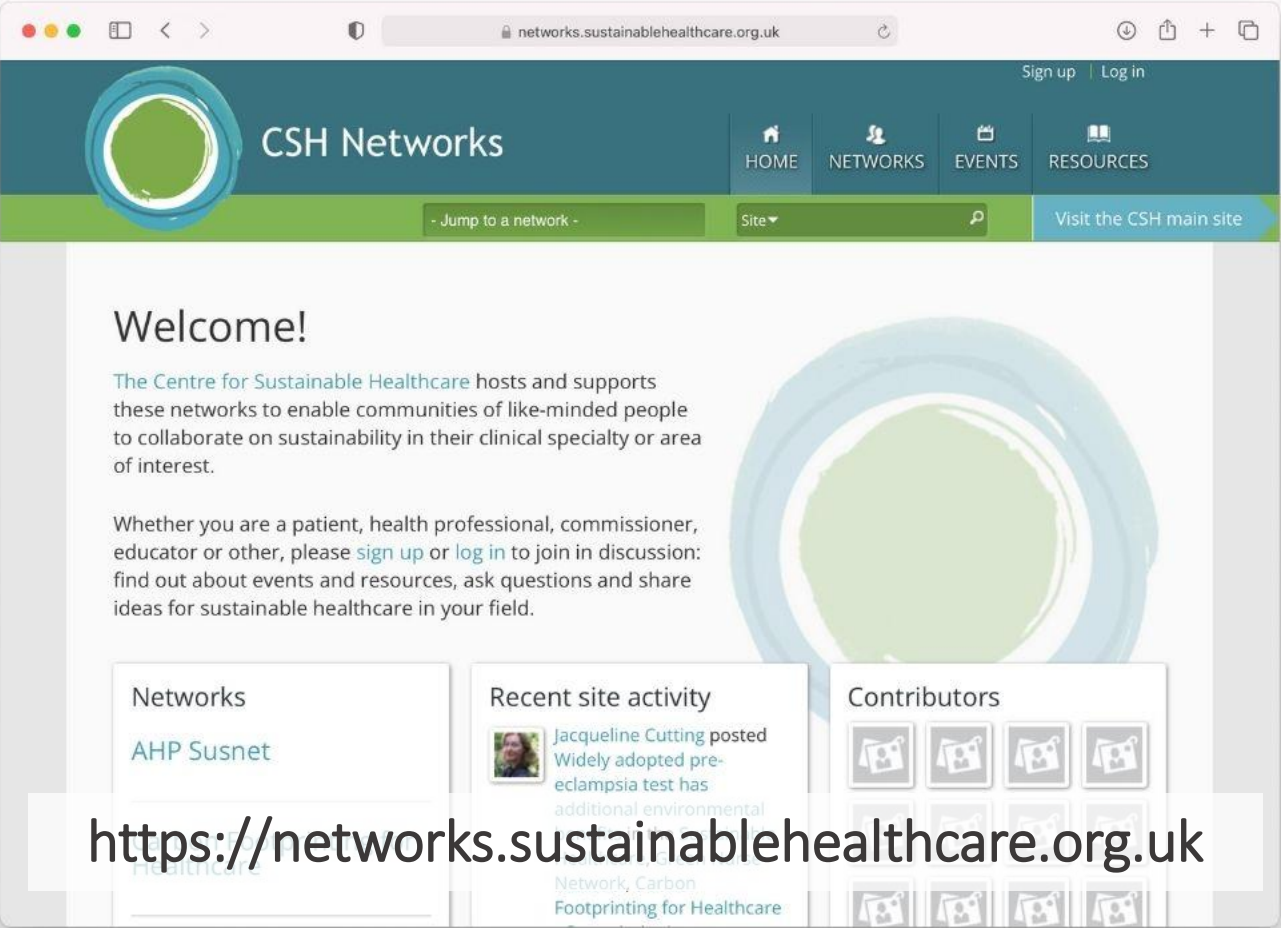
Scan to
learn more



- Programme of support designed to support organisations to embed sustainability into qi teaching and practice
- Tailored to the needs of the organisation or an individual, aims to help achieve the following
 - Integrate SusQI into teaching programmes and QI methodology
 - Develop SusQI aligned learning objectives, teaching resources and QI projects
 - Develop the confidence of your staff to teach and use the SusQI framework
 - Apply SusQI principles to strategy and policy development
 - Achieve criteria for CSH Beacon Site Accreditation



Sustainable Networks



The screenshot shows the homepage of the CSH Networks website. The header includes the CSH Networks logo, navigation links for HOME, NETWORKS, EVENTS, and RESOURCES, and a search bar. The main content area features a 'Welcome!' message, a description of the Centre for Sustainable Healthcare's mission, and a list of recent site activity. A sidebar on the right lists various networks, including AHP Susnet, Carbon Footprinting for Healthcare, and Sustainable Primary Care.



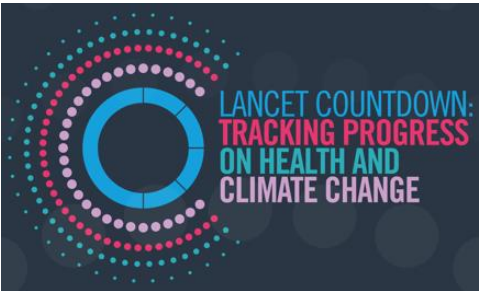
A grid of logos for various sustainable healthcare networks. The logos include: carbon footprinting for healthcare, EyeHealth susnet, Green ED Network, AHP susnet, sustainable healthcare education, SUSTAINABLE PAEDIATRICS NETWORK, sustainable Kidney Care, occupational therapy susnet, Physio Susnet, dental susnet, Sustainable Primary Care, sustainable Respiratory Care, Critical Care Susnet, Sustainable Commissioning, sustainable Operating Theatres, MUSIC THERAPY SUSNET, SLT Susnet, Green Nurse Networks, and GREEN STROKE CARE NETWORK.

Scan to
learn more



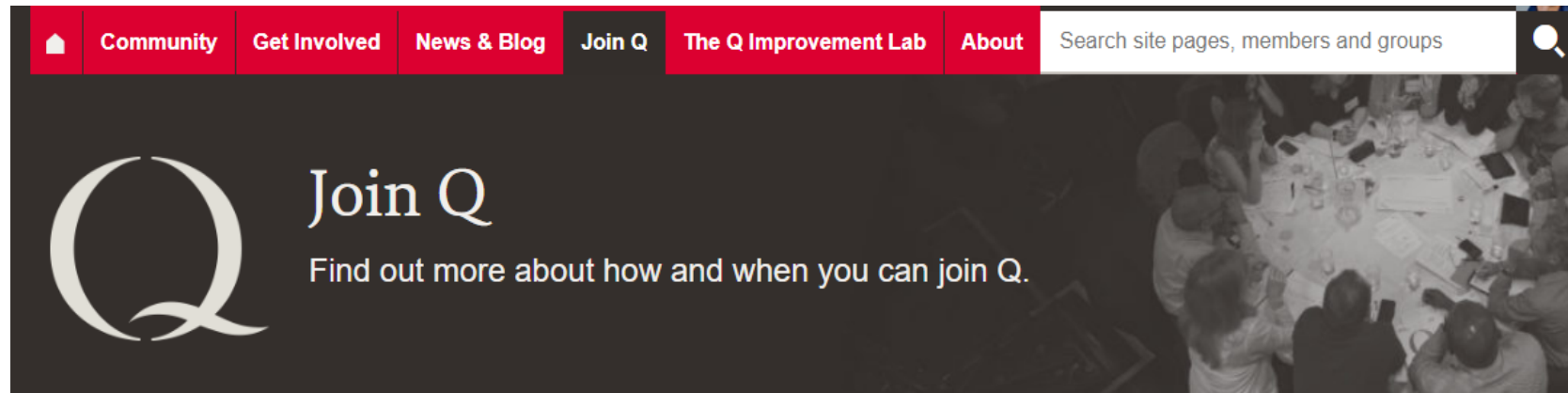
Groups working on climate & health and sustainable healthcare

Greener



Get involved in the broader QI community!

- Join the Q community
 - ...and the Sustainable Healthcare special interest group



What is Q?

Q is an initiative connecting people who have improvement expertise across the UK and Ireland. There are over 3600 members and the community continues to grow.

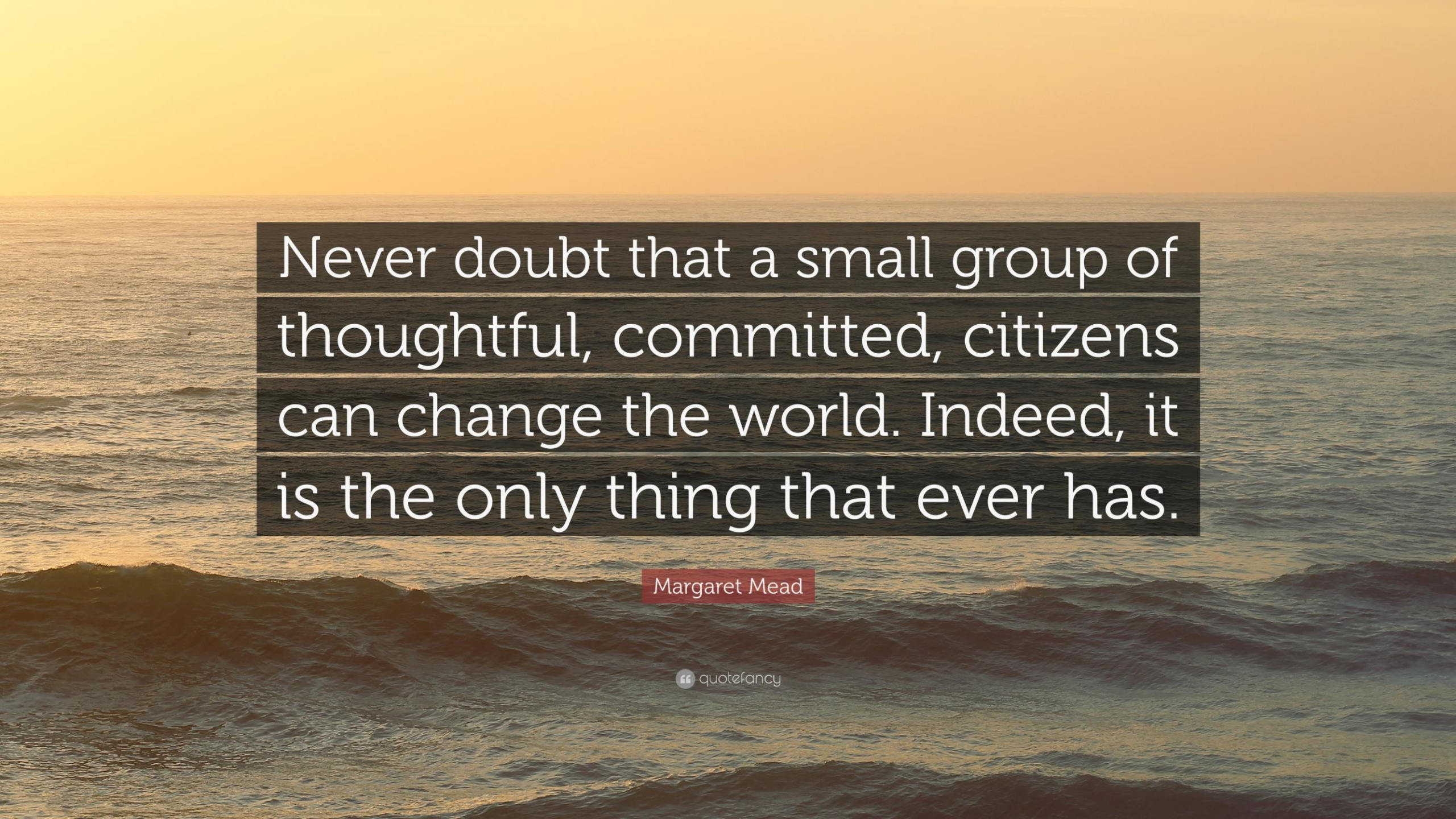
Q's mission is to foster continuous and sustainable improvement in health and care, creating opportunities for people to come together as an

Join Q

Related links

[How to apply to Q](#)



A serene sunset scene over the ocean. The sky is a warm, golden-orange color, transitioning into a darker blue as it meets the horizon. The ocean is filled with gentle waves, their crests catching the low light of the setting sun, creating a shimmering effect. The overall mood is peaceful and contemplative.

Never doubt that a small group of
thoughtful, committed, citizens
can change the world. Indeed, it
is the only thing that ever has.

Margaret Mead

Thank you!

Contact us

<http://sustainablehealthcare.org.uk>

@SusHealthcare
#SusQi



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