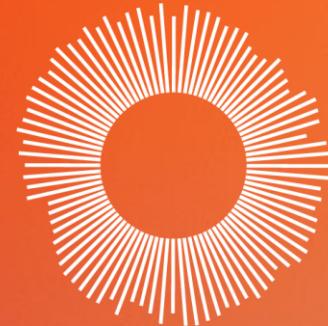




International
Hospital
Federation



*Accelerating action for sustainable
healthcare*

*Hospitals become leaders for
sustainability in their communities* ”

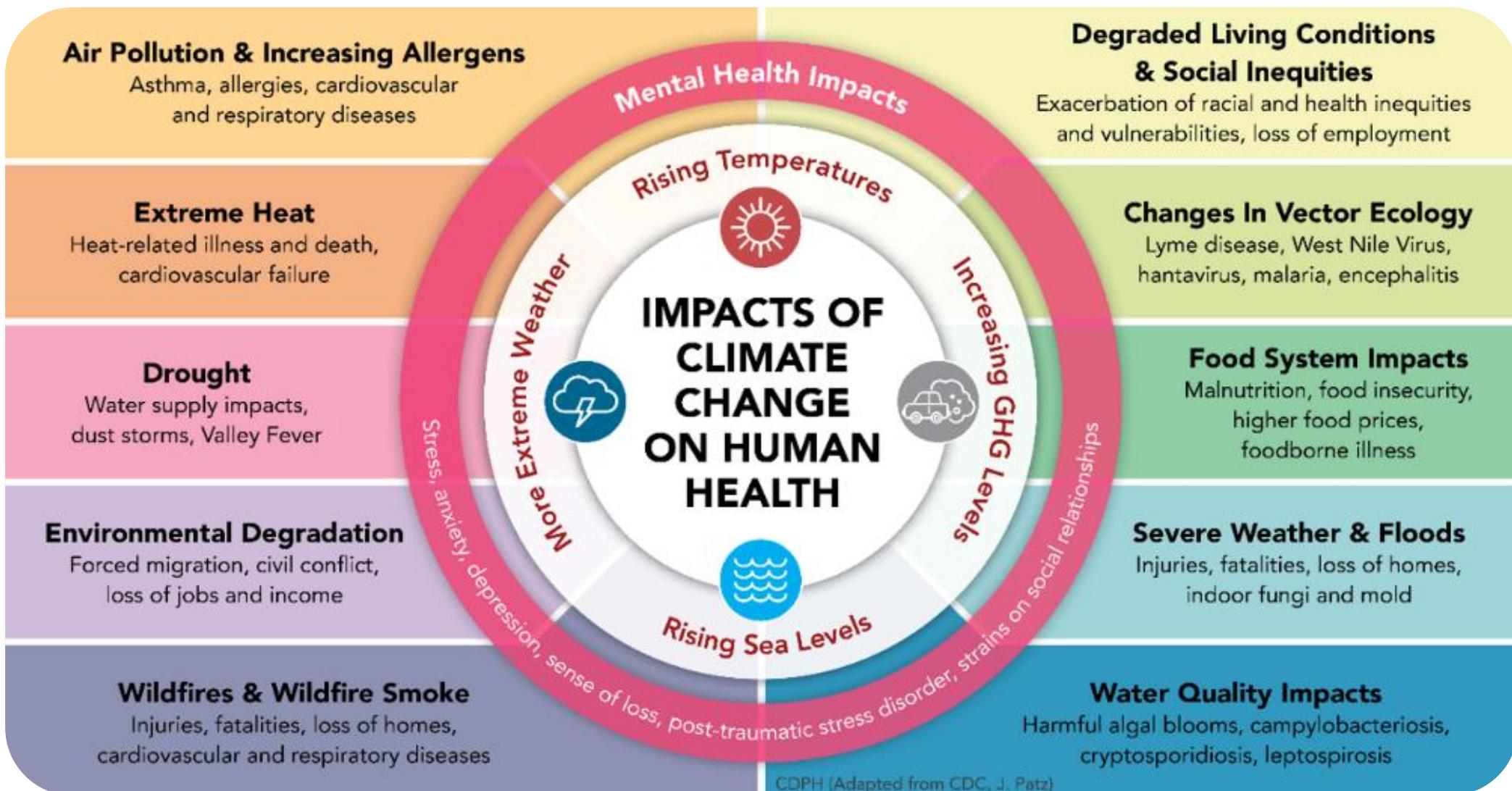


Addressing climate change as an integral part of healthcare delivery



International
Hospital
Federation

Impacts of climate change on health



CDPH, adapted from CDC

Healthcare's climate footprint represents 4 - 6% of global net emissions



LANCET COUNTDOWN:
TRACKING PROGRESS
ON HEALTH AND
CLIMATE CHANGE

The 2023 Report of the Lancet Countdown: **The imperative for a health-centred response in a world facing irreversible harms**

[The Lancet Countdown 2023 report](#)

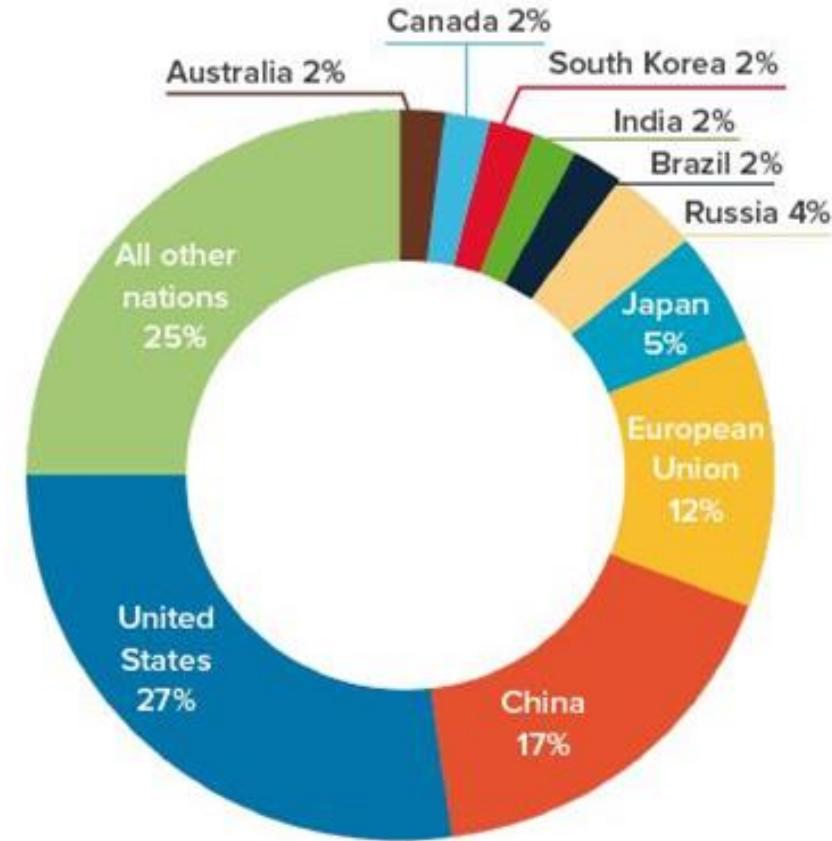


Figure 8: Top ten emitters as percentage of global health care footprint.

[Health Care Without Harm](#)



Singapore on the global stage

Per capita CO₂ emissions

Carbon dioxide (CO₂) emissions from fossil fuels and industry¹. Land-use change is not included.

2022

in tonnes per person

United States	14.9 t
South Korea	11.6 t
Singapore	8.9 t
China	8.0 t
United Kingdom	4.7 t
World	4.7 t

10 t

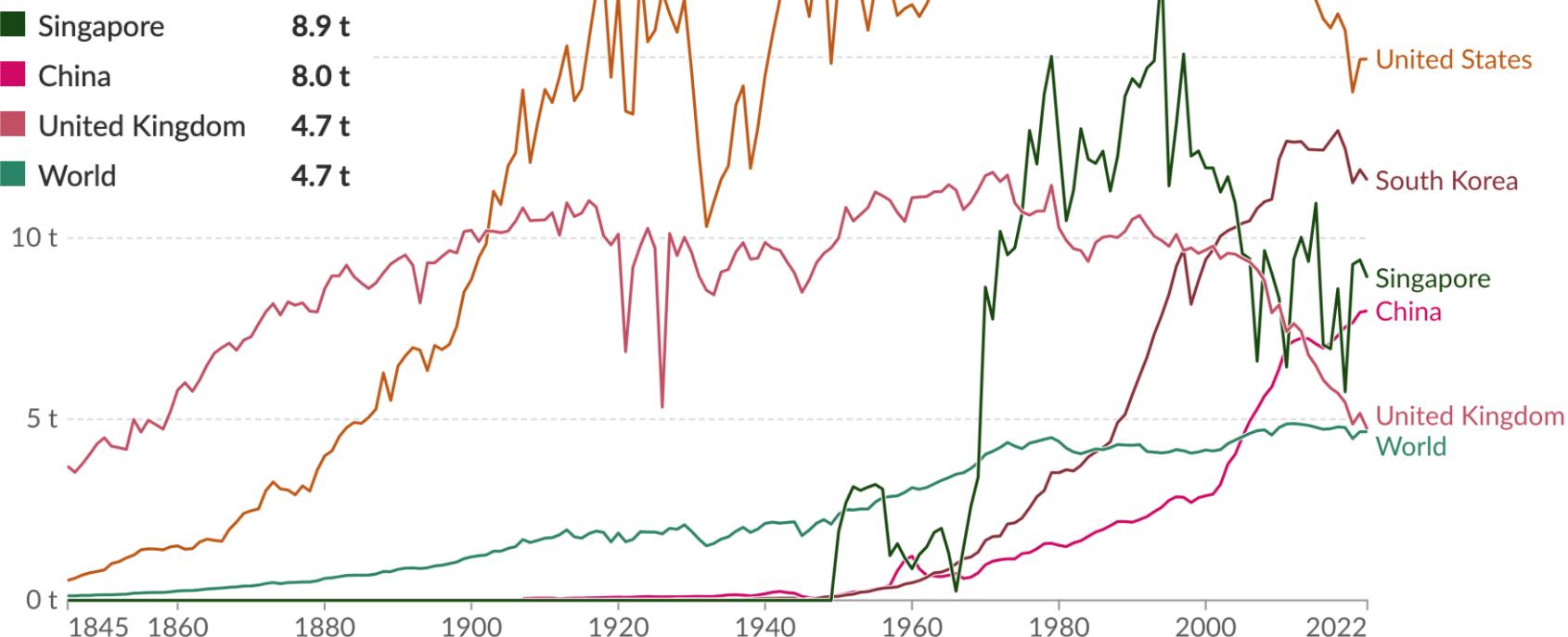
5 t

0 t

1845 1860 1880 1900 1920 1940 1960 1980 2000 2022

Data source: Global Carbon Budget (2023); Population based on various sources (2023)
OurWorldInData.org/co2-and-greenhouse-gas-emissions | CC BY

1. **Fossil emissions:** Fossil emissions measure the quantity of carbon dioxide (CO₂) emitted from the burning of fossil fuels, and directly from industrial processes such as cement and steel production. Fossil CO₂ includes emissions from coal, oil, gas, flaring, cement, steel, and other industrial processes. Fossil emissions do not include land use change, deforestation, soils, or vegetation.





Singapore's healthcare



Urban hotspot of human exposure to high temperatures – potentially see 5°C increase by 2100

[Singapore Medical Journal](#)



Healthcare spending as a percentage of GDP = 8.8%

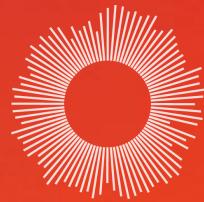
[Singapore – Health sector emissions](#)



Singapore - second globally in healthcare per capita emissions

[Singapore Medical Journal](#)

Why does it matter to healthcare leaders in Singapore?



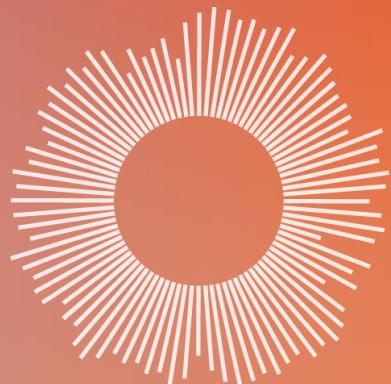
- Singapore is expected to experience an economic loss of around \$2.22 billion per annum due to the impact of climate related events
- This is an opportunity for healthcare leadership in Singapore to build capacity and resilience within their organizations
- Healthcare leaders uniquely positioned, as they have a voice that matters and is trusted within the community. What you say and do matters

[Impact of heat stress -
NUS study - Singapore](#)

Low-carbon, resilient, and equitable healthcare



Value of Care



Value =

Patient experience, clinical effectiveness,
patient safety

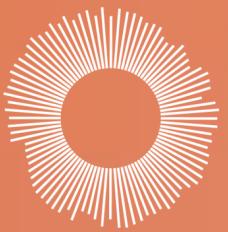


Outcomes for patients and populations

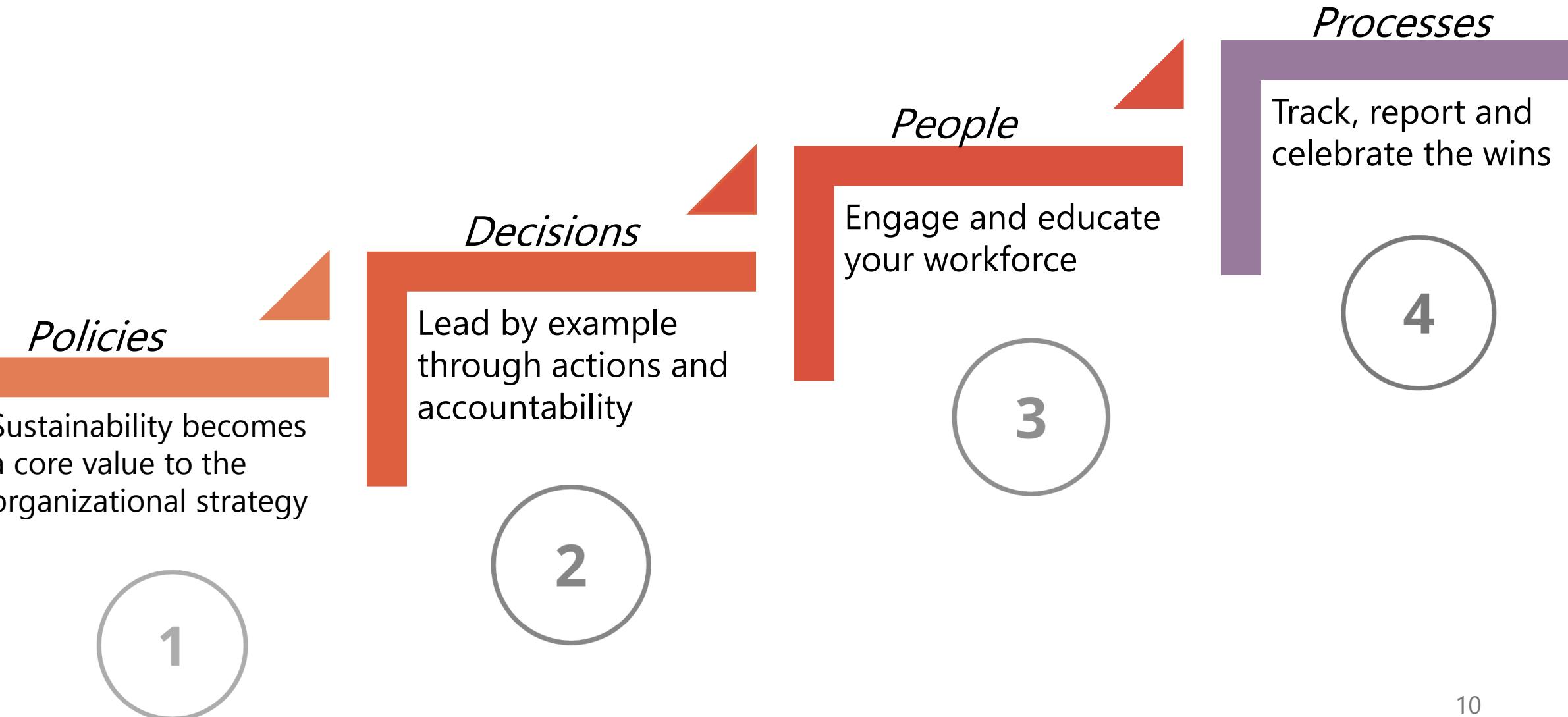
Environmental + social + financial impacts
(the 'triple bottom line')



Use of resources, emissions, equity &
fairness, finances

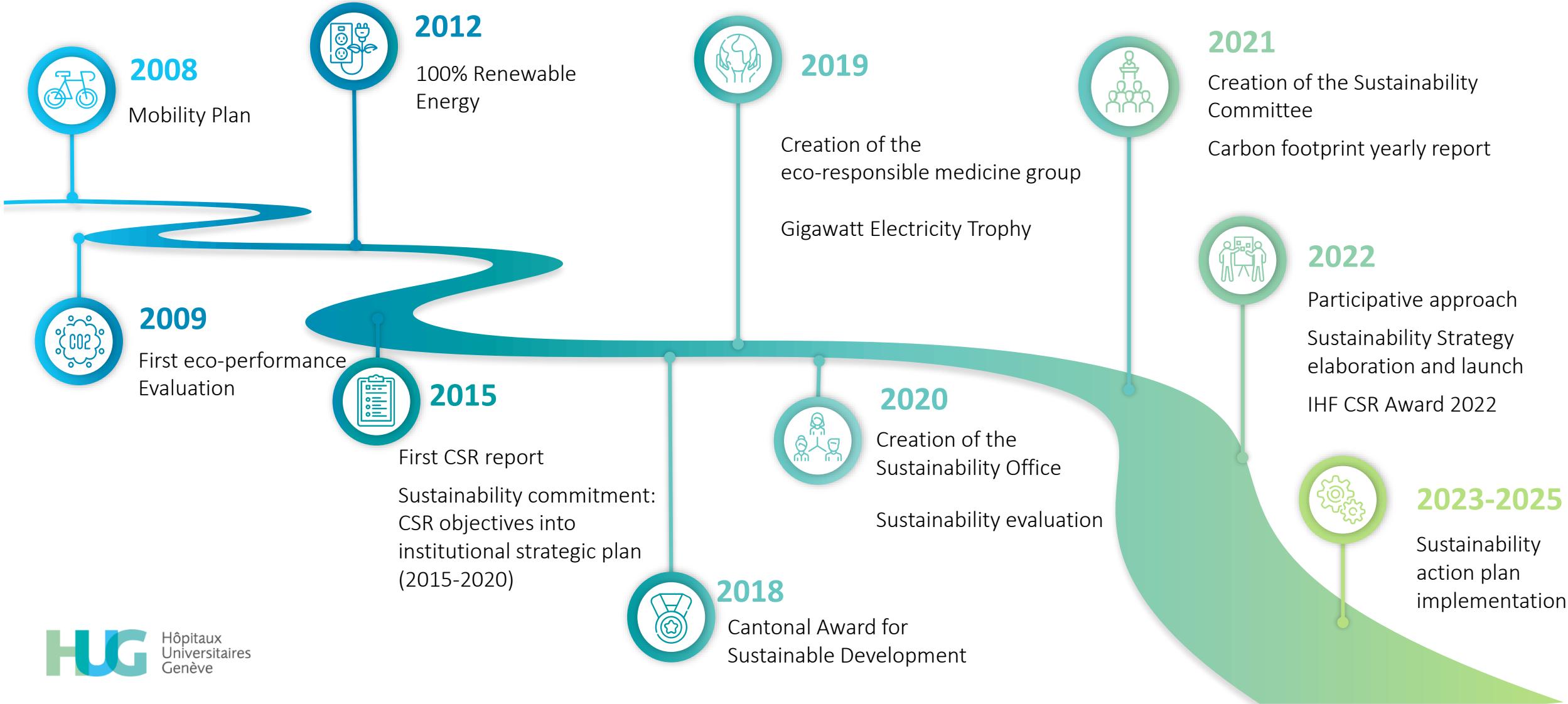


Getting the culture right



Institutional commitment

Since the 2000s environmental responsibility is integrated into institutional programs



Greener Care Initiative



Climate
and health



Equality,
diversity and inclusion



Sustainable
consumption and production

- ▶ Quantify the environmental impact of care units and medical & nursing practices
- ▶ Integrate the environmental dimension into medical and nursing practices
- ▶ Adopt more sustainable management of medication
- ▶ Reduce the use of single-use medical equipment

CLIMATE AND HEALTH

THE 2030 TARGETS

- ▶ Establish and implement a climate action plan
- ▶ Reduce energy consumption
- ▶ Produce and increase the use of renewable energy
- ▶ Promote sustainable building construction and renovation
- ▶ Reduce the effects of heatwaves and promote biodiversity
- ▶ Increase the use of sustainable mobility for commuting

- ▶ Reduce the environmental impact of business travel
- ▶ Quantify the environmental impact of care units and medical and nursing practices
- ▶ Integrate the environmental dimension into medical and nursing practices
- ▶ Adopt more sustainable management of medication
- ▶ Reduce the use of single-use medical equipment

NHS Sustainability journey



Saving Carbon,
Improving Health



NHS CARBON REDUCTION STRATEGY FOR ENGLAND
January 2009

2008 – Climate Change Act – UK
2009 – First carbon footprint
and carbon reduction strategy
2009 - Marginal Abatement Cost
Curve
2015 – Sustainable Development
Strategy
2019 - Greener NHS
2020 - Net Zero plan
2022 – Net Zero embedded in
Legislation
2024 – NIHR and MRC grants

Classification: Official



Delivering a 'Net Zero'
National Health Service





Wide-spread culture shift across the entire system: *Kaiser Permanente, United States*

Savings by integrating sustainability as a core value:

- Partnership with the state of California to pilot green microgrids – saved 263 tons of CO₂ annually and \$394K/year
- Energy efficiency investments saved \$20 million/year
- \$3 million/year from water saving investments
- Delivers over *\$63 million* in purchasing and operational cost savings



Return on Investment



- Reprocessing medical devices at Advocate Health (US) is saving **\$3.5 million yearly**
- Providence (US) over \$11 million annually through their sustainability efforts and hope to be saving **\$100 million annually** through its **sustainability programme**.
- In France, opting for day-case surgery saves **€3,921 per laparoscopic intervention**
- Switching from single-use to **reusable anaesthetic equipment** saved **£19,220/year** in a hospital in Australia

Sustainability as a Leadership Competency

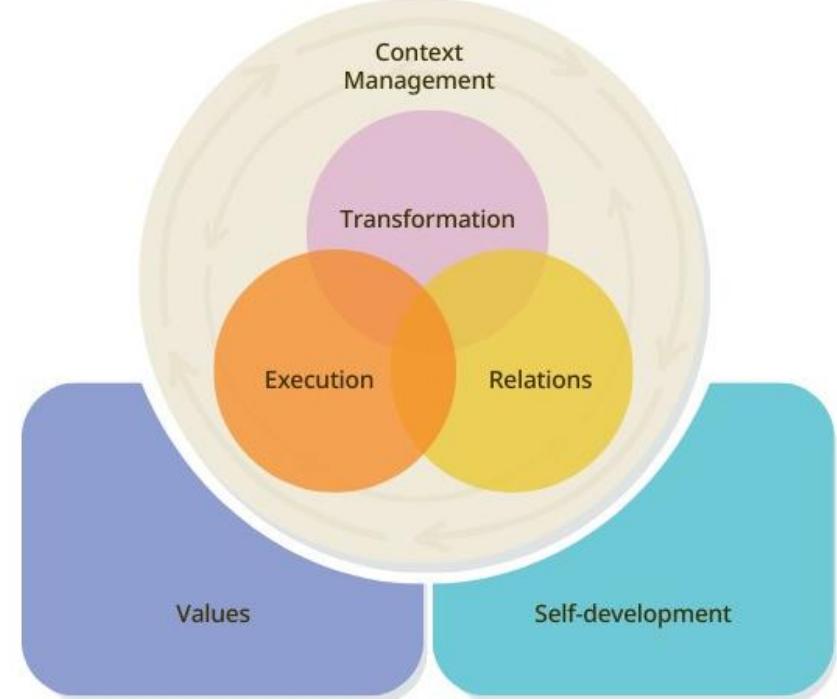


Sustainability is a leadership competency. All hospital executives should have the leadership and the agency to generate positive change.

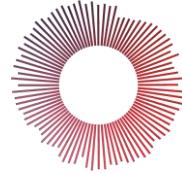
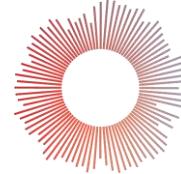
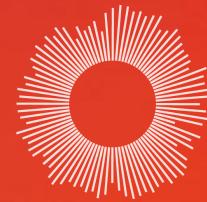
Leadership commitment towards sustainability leads to:

1. Organizational success
2. Broader societal well-being

To implement net zero healthcare, hospital leaders must work across all domains of the IHF's Leadership Framework.



Supporting leaders *to accelerate action in their hospitals and to become leaders for sustainability in their communities*



Information and capacity building

- Executive learning programme
- Carbon Emissions Learning Lab (CELL)
- Sustainability guides and case studies

Raising the standard and accelerating action globally

- Accreditation standards co-published with JCI
- Licensing option for other accrediting organizations
- Certification programme in development

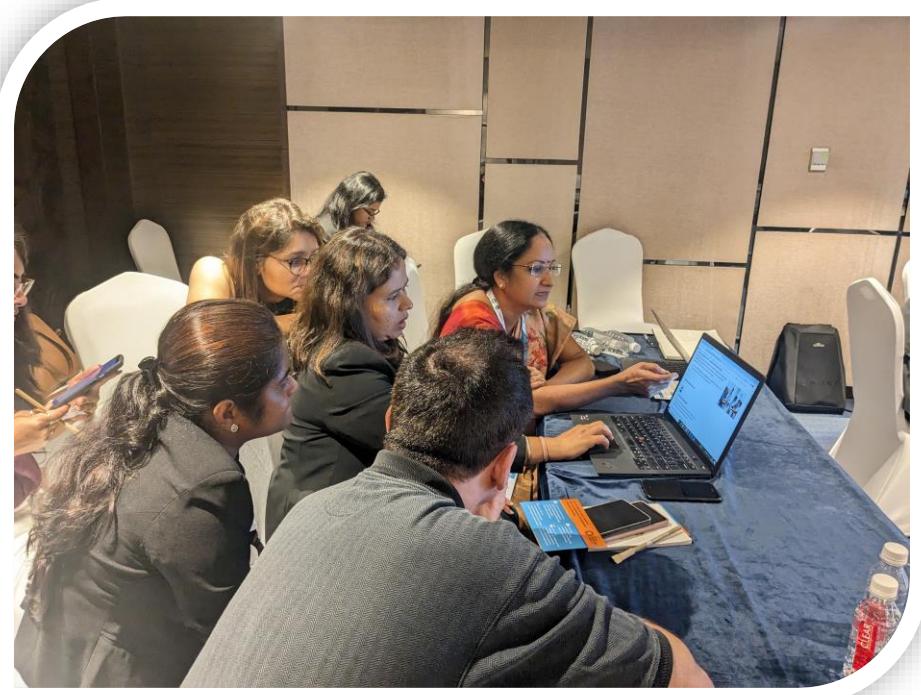
Strategic planning and progress

- Sustainability Accelerator Tool (SAT)
- Aligned with ESG reporting and hospital accreditation
- Consultancy support

Carbon Emissions Learning Lab (CELL)



- Simulation-based learning tool
- Sustainability-orientated decision-making

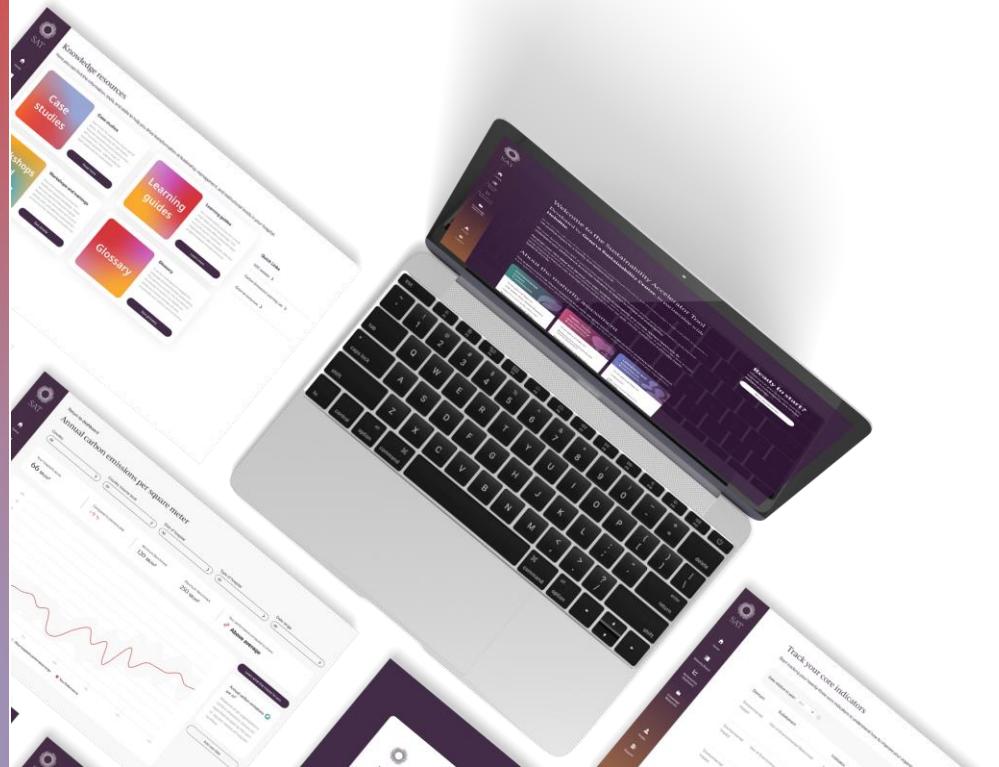


- Using real-world data
- Empowering healthcare leaders of today and tomorrow

The GSC Sustainability Accelerator Tool

in collaboration with
Deloitte.

How can SAT benefit your hospital?



- Effective and strategic decision-making supported by in-depth, comprehensive sustainability maturity insights.
- Report and benchmark across hospital performance worldwide, providing sector intelligence.
- Build sustainability capacity for executives and staff through learning resources - turning action into impact.

Live webinars and free trial demos [available](#)

Accreditation Standards for Environmental Sustainability

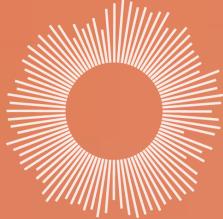
in collaboration with



Accreditation standards for environmental sustainability co-developed with the [Joint Commission International \(JCI\)](#) in 2023.

- The standards to be published in July 2024 form a new “Global Health Impact” chapter in JCI’s 8th edition of Accreditation Standards for Hospitals.
- These standards will be made available to other accrediting organization globally through a licensing process.
- A certification programme for hospitals willing to demonstrate additional efforts towards net zero healthcare is in development and available early 2025.

Role of government and regulatory bodies



Set the Framework:

- To encourage a culture of sustainability
- To accelerate action and innovation
- To agree standards and monitoring processes
- To incentivise progress

To consider regulatory and legislative mechanisms to support a rapid and smooth transition

Being a part of the solution

"To the health community, I urge you to take on the responsibility as climate champions"

Dr Tedros Adhanom Ghebreyesus, Director General - WHO, Dec 2023.



Call to Action!



Lead by example



Foster a culture of sustainability



Secure a sustainable Singapore

Be the change maker



Thank you!

