Hope Agora 2023

Climate and Environment: Challenges for Hospitals and Healthcare Services

Agenda

Participants and location

Environment and climate in the healthcare system

Three Examples

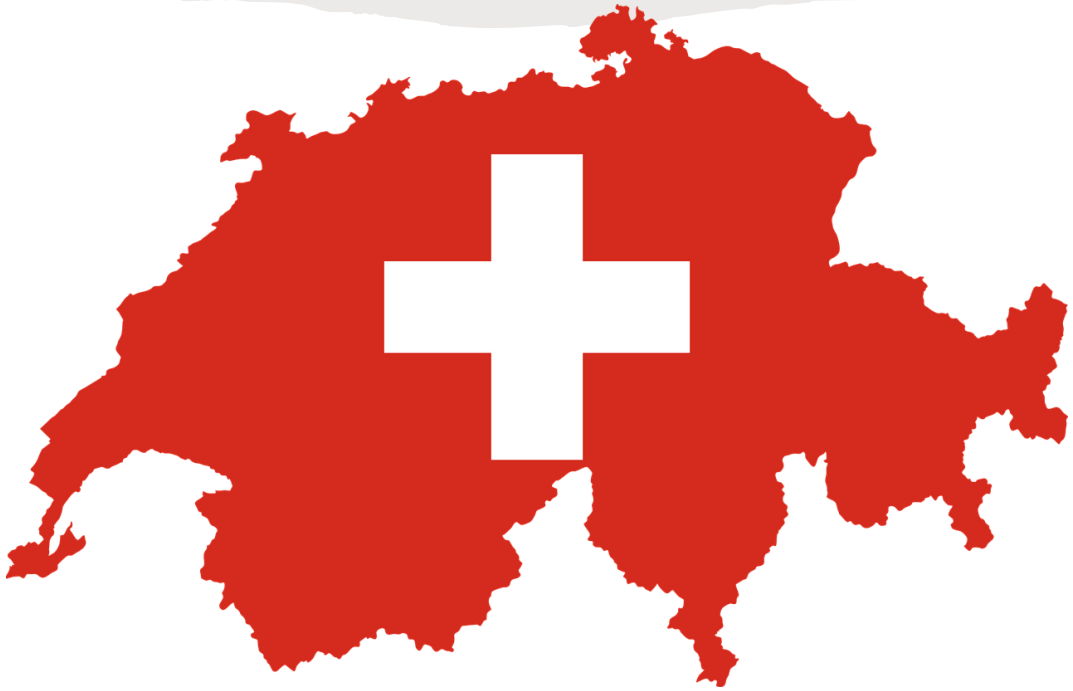
Participants

MAGDALENA WESTA

POLAND

Copernicus Medical Company
in Gdansk

OSH Specialist
Manager of Protection
of The Working Environment
Department
(Units: Health&Safety,
Environment, Radation Protect,
Fire Prevention)



NELE KAPPELLER, MD

AUSTRIA

Department of Neurology
Christian Doppler University
Hospital
Paracelsus Medical University
Centre for Cognitive Neuroscience
Salzburg

Specialist in Neurology
Vascular Neurologist
Stroke Unit Salzburg

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Reha Rheinfelden

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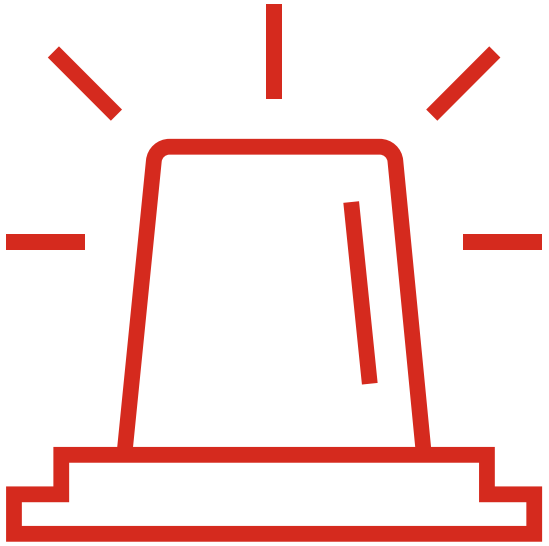
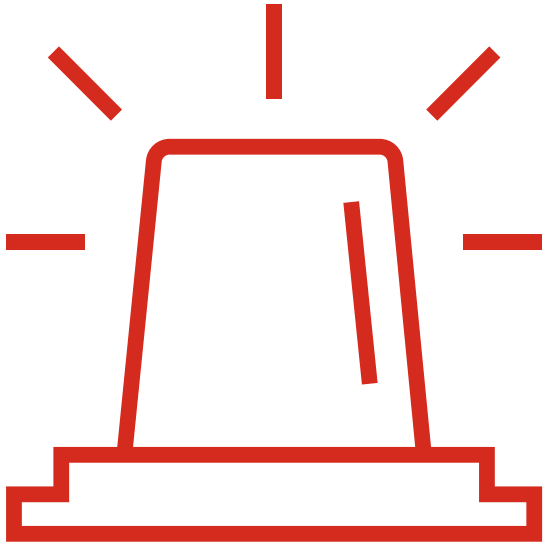
Locations



Medical Emergency

Situation in which a person is directly exposed to the risk of suffering harm.

Rapid intervention is essential to avert the harm.



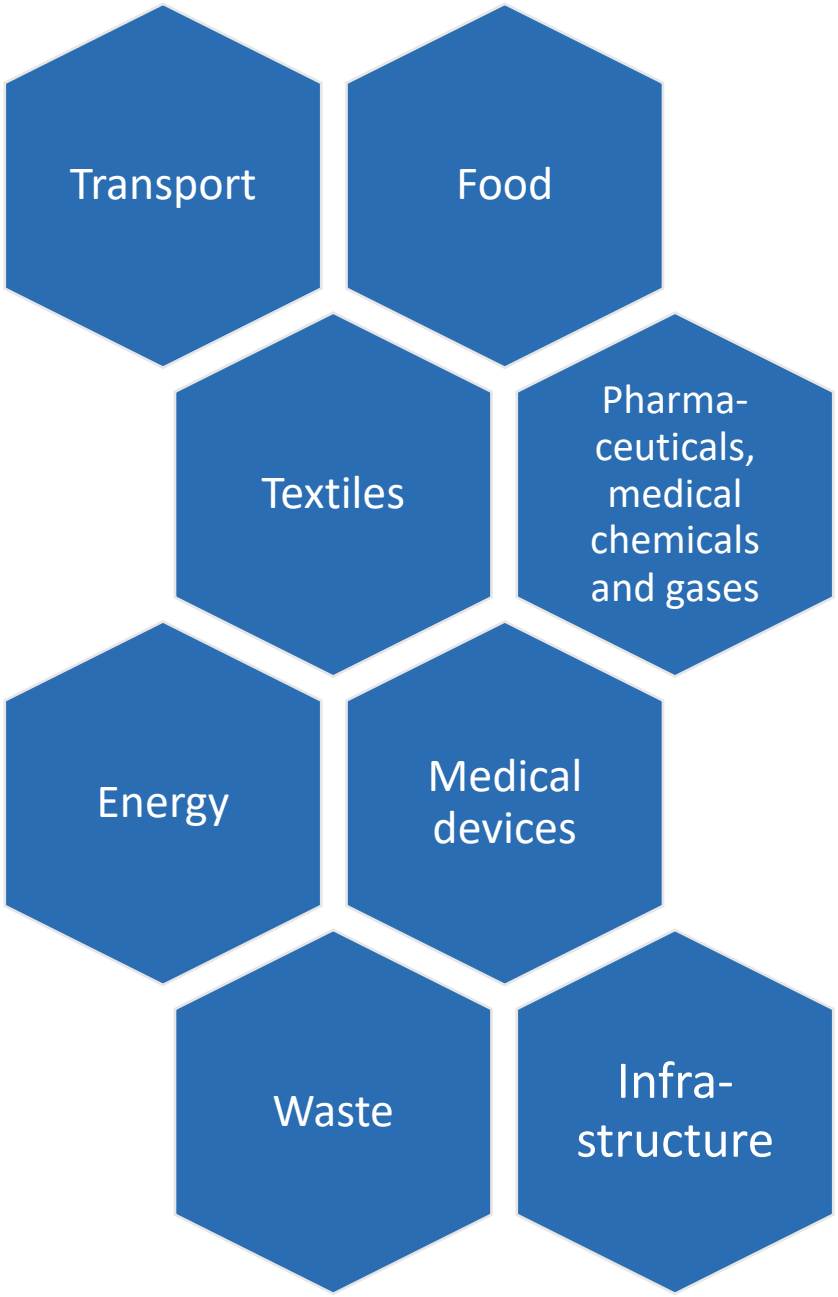
Climate Emergency
=
Medical Emergency

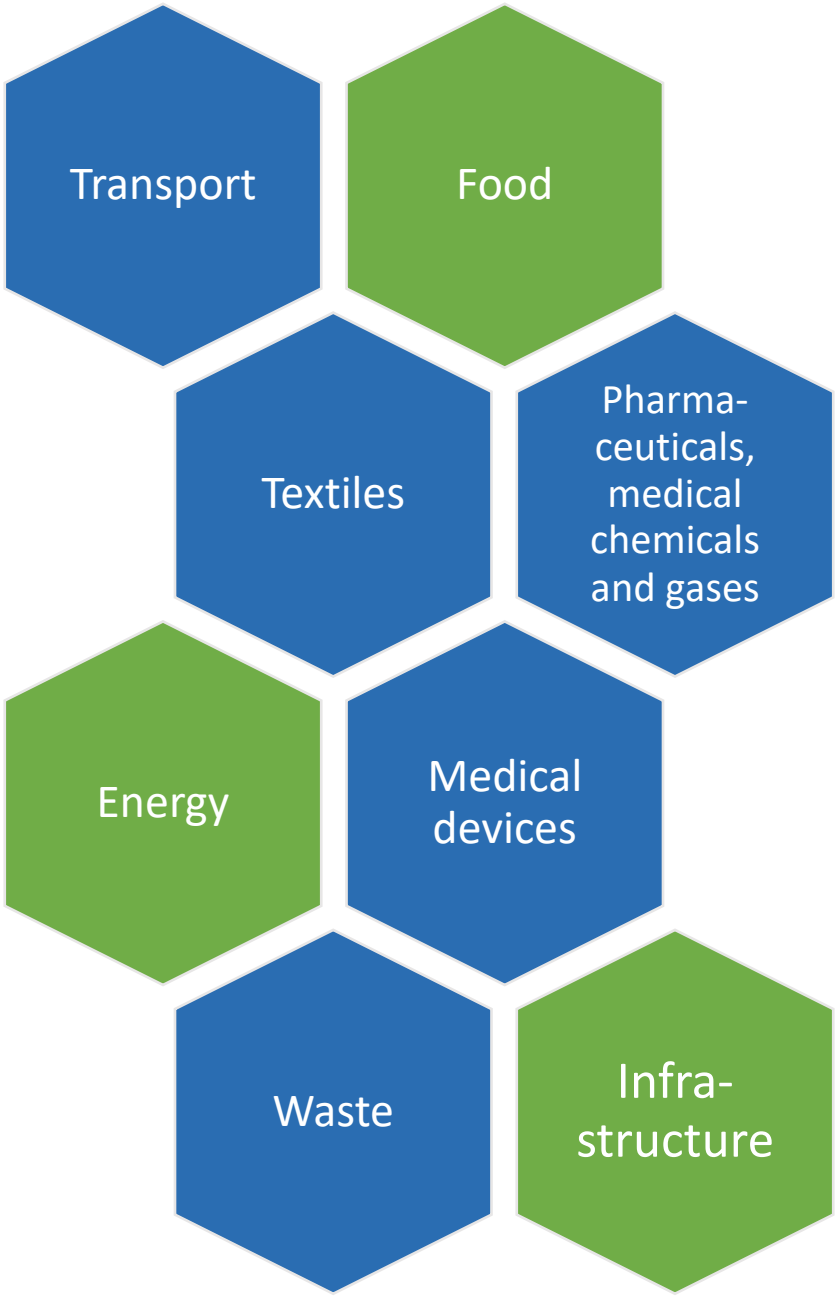
Successful treatment requires:

1. Time management
2. Situational awareness
3. Solidarity

The climate emergency is a race we are losing, but it is a race we can win.

António Guterres


Transport
Food
Textiles
Pharma-ceuticals, medical chemicals and gases
Energy
Medical devices
Waste
Infra-structure


Transport
Food
Textiles
Pharma-ceuticals, medical chemicals and gases
Energy
Medical devices
Waste
Infra-structure

Food

Climate on a plate

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Take all what you eat but eat all you can take!

Water YES, Plastic NO!

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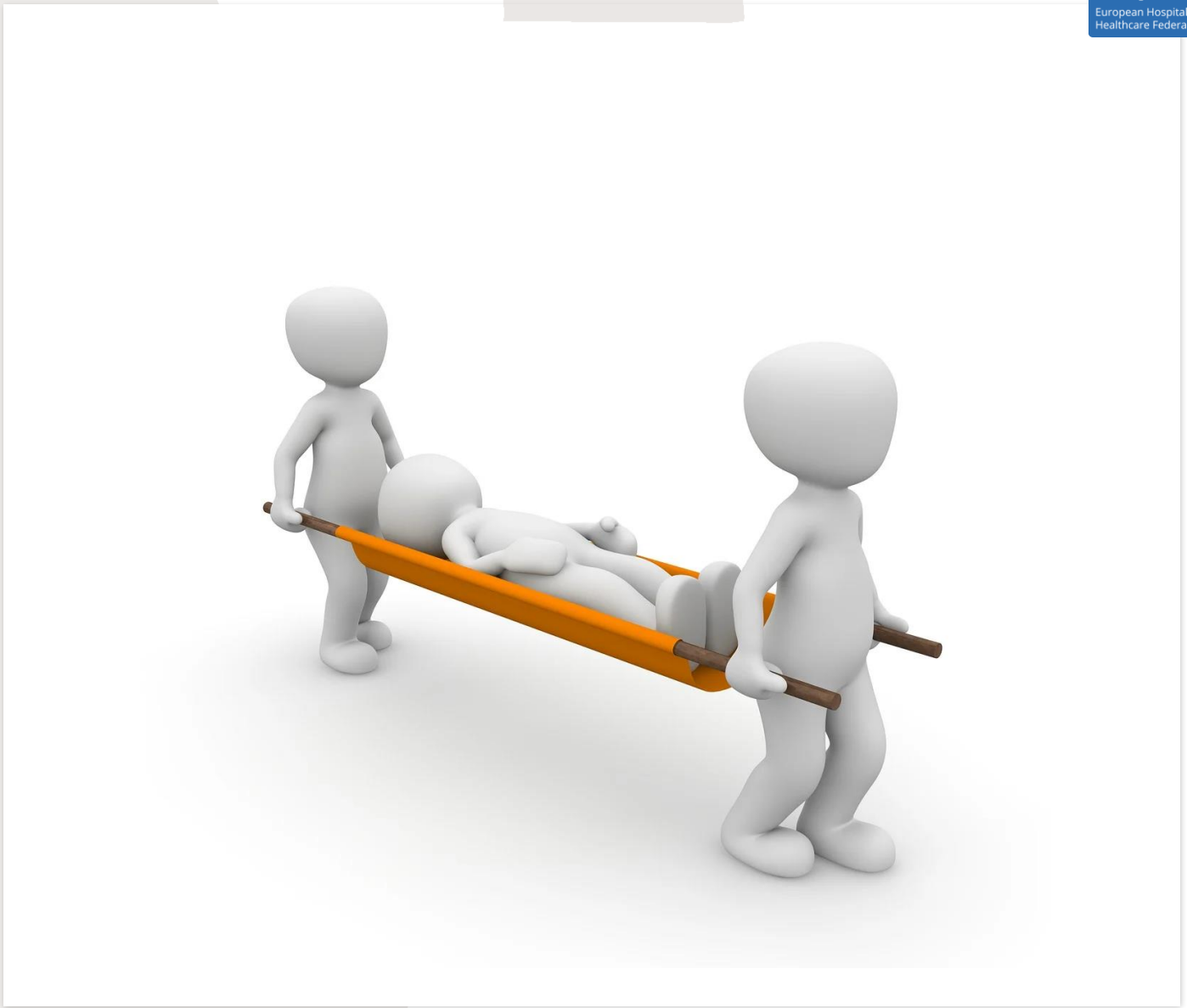
Infrastructure

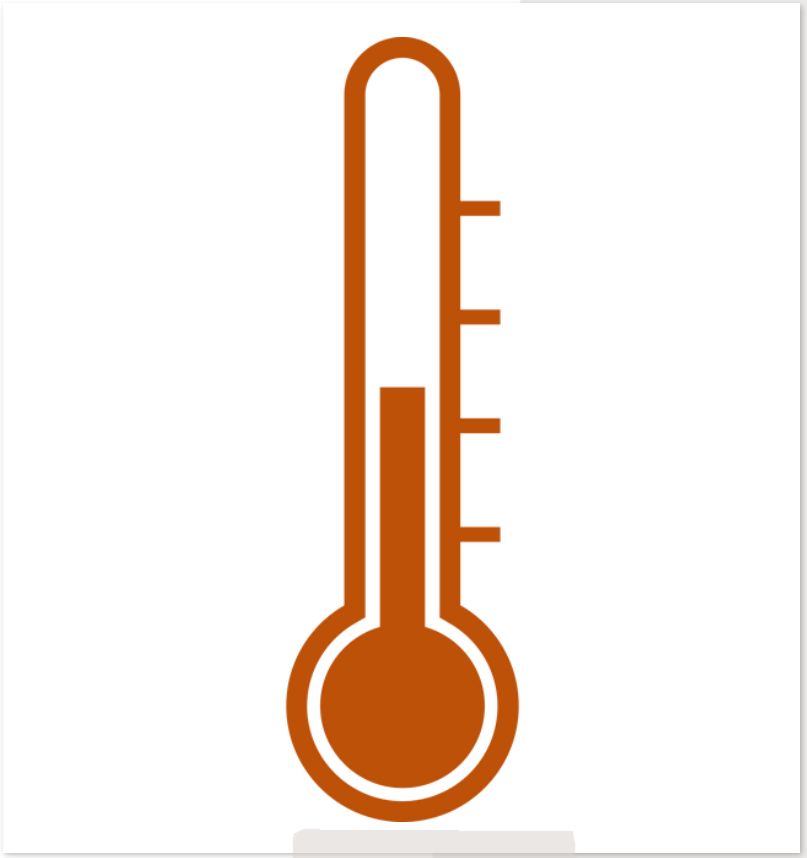
Temperature Management

Temperature management



Temperature management

- Hospitals often are located in urban areas.
- Older buildings are not air-conditioned
- Air-Conditioning is highly energy consuming
- Large devices such as MRIs need to be cooled.



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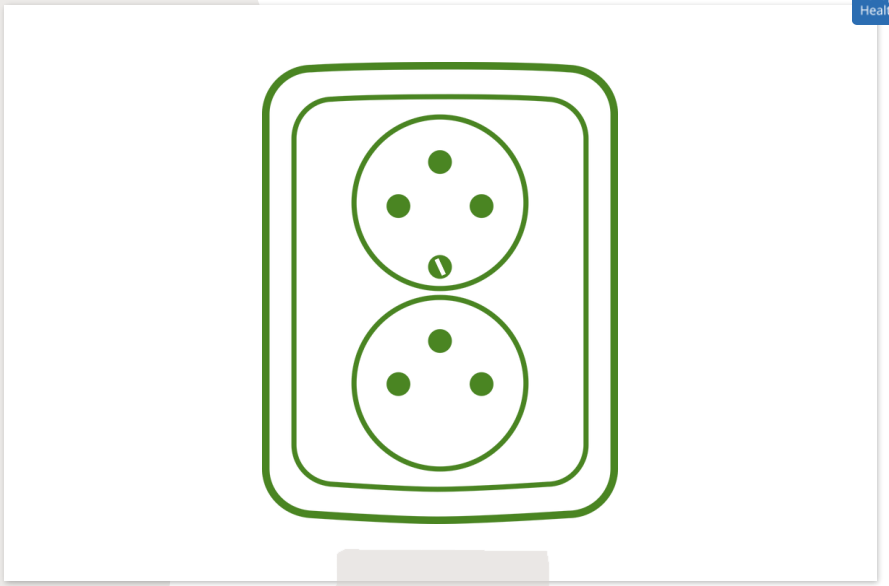
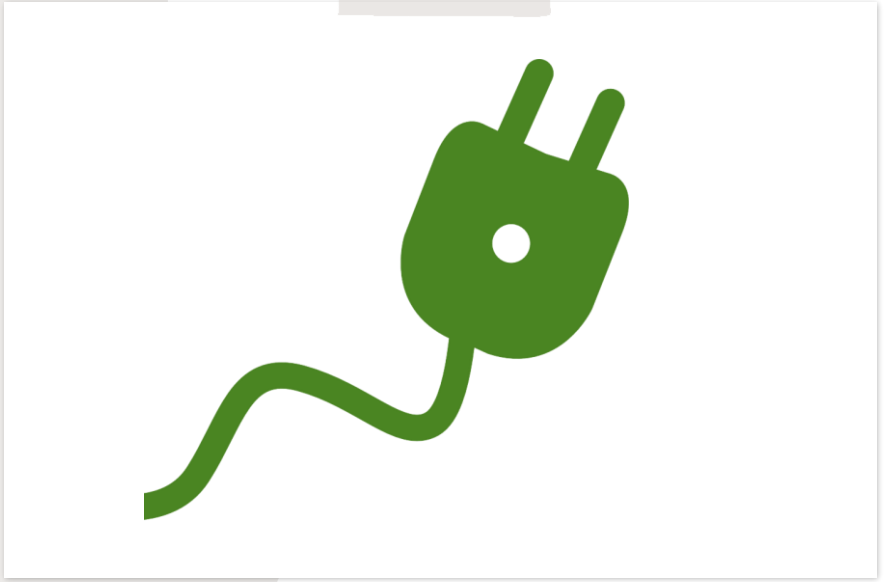
Temperature management

Energy consumption

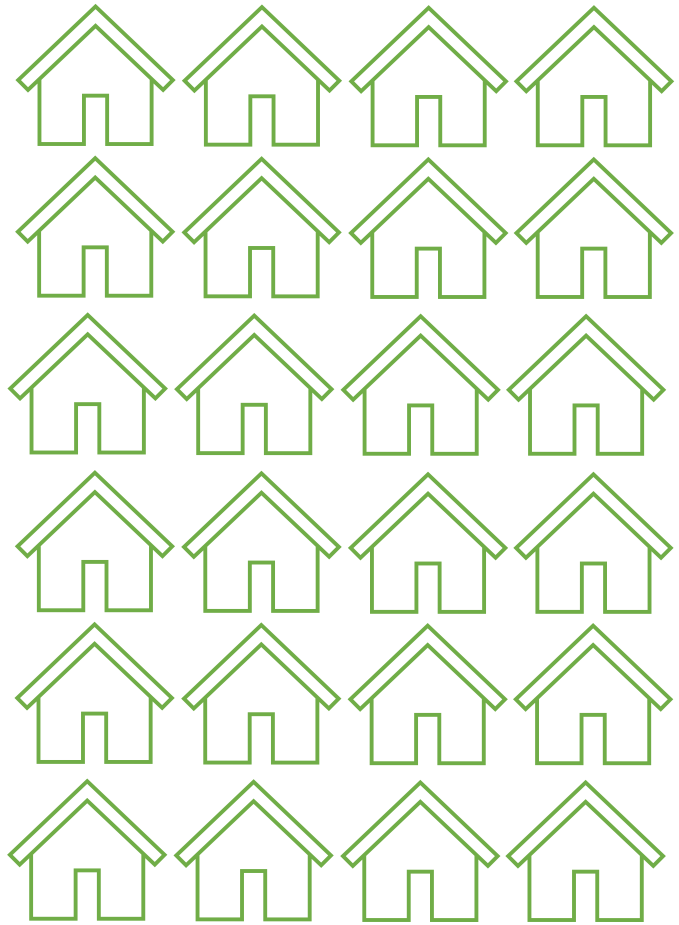




Energy consumption

Source: Key-Visuals Stromsparkampagne Universitätsspital Winter 2022/23

Energy consumption



Energy consumption

Radiology

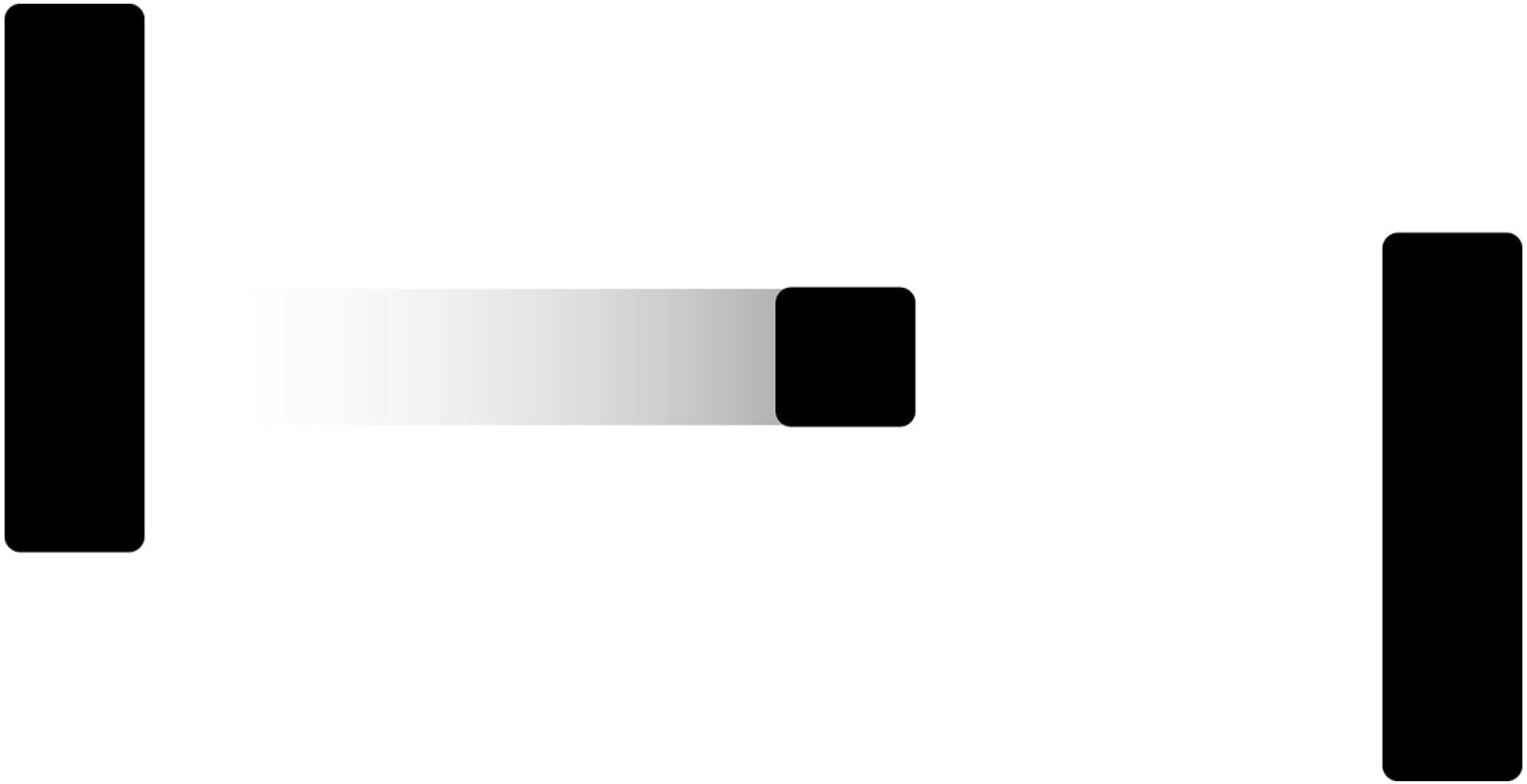
ORIGINAL RESEARCH • HEALTH POLICY AND PRACTICE

Turn It Off! A Simple Method to Save Energy and CO_2 Emissions in a Hospital Setting with Focus on Radiology by Monitoring Nonproductive Energy-consuming Devices

Tobias Heye, MD • Manfred T. Meyer, MD • Elmar M. Merkle, MD • Jan Vosshenrich, MD

From the Department of Radiology, University Hospital Basel, Petersgraben 4, 4031 Basel, Switzerland. Received January 26, 2023; revision requested February 17; revision received March 14; accepted March 21. **Address correspondence to** T.H. (email: *tobias.heye@usb.ch*).

Energy consumption



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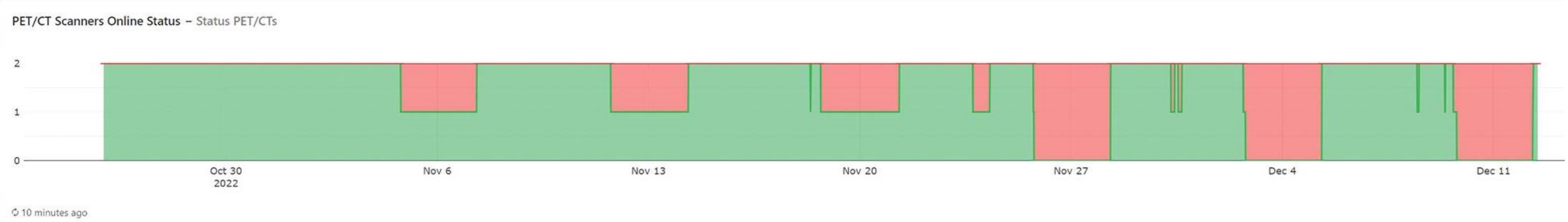
Energy consumption



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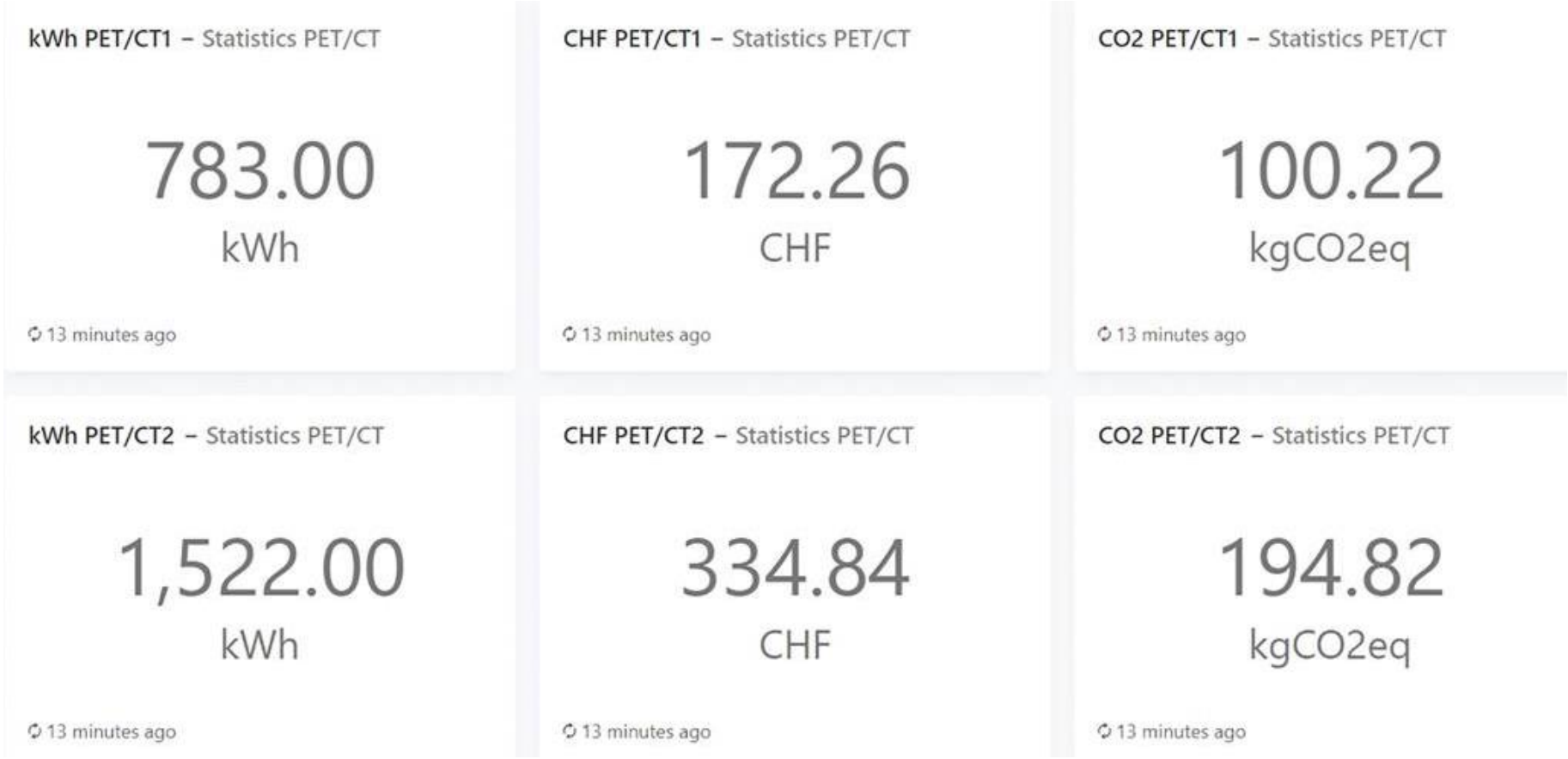

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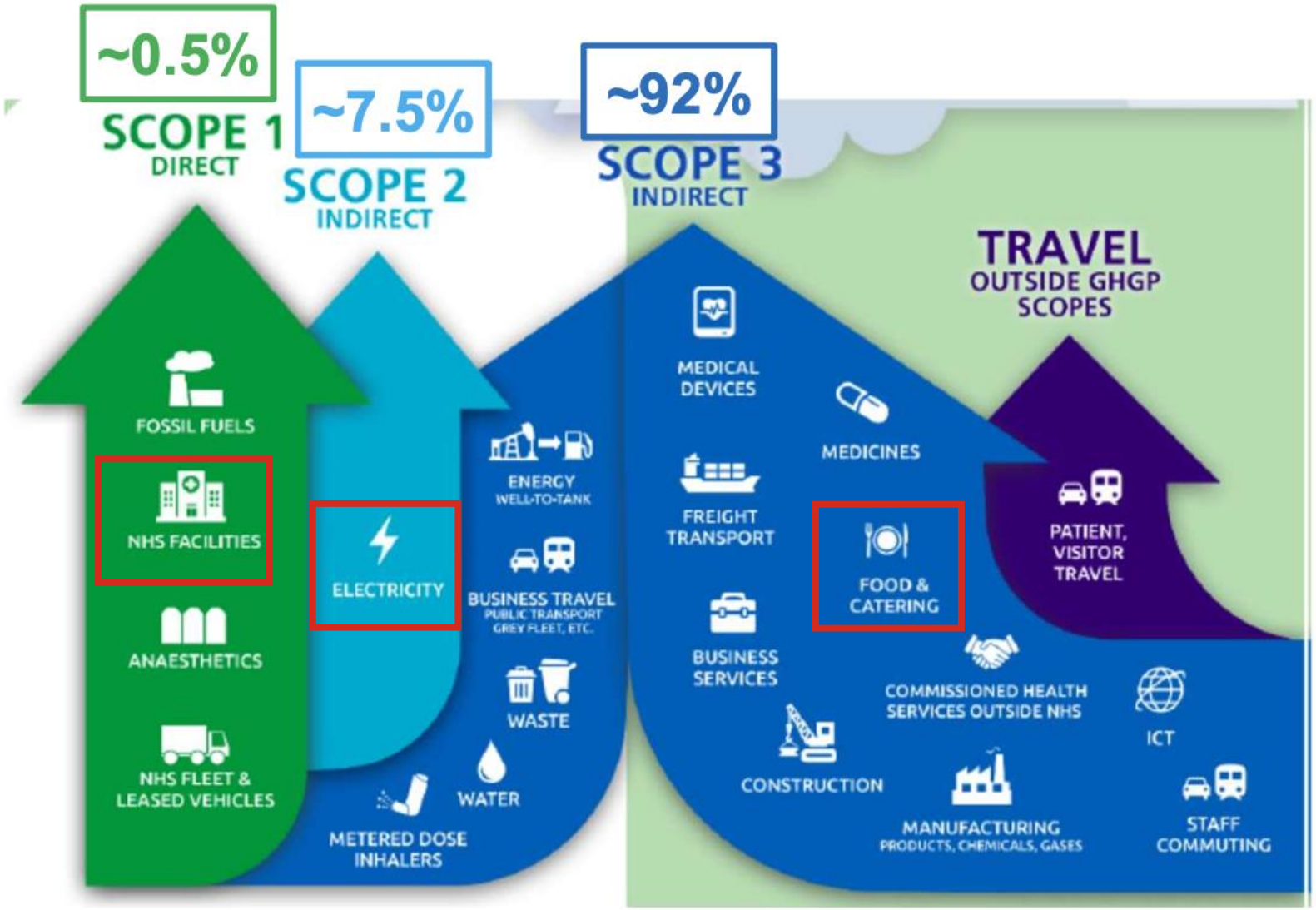
Conclusion



Universitätsspital Basel, Green gas emssions 2021 (Figure after "Delivering a 'Net Zero' National Health Service" modified by Christian Absagen)

The Healthcare System *must* deal with the climate emergency!

Special thanks to…

Ines Trede
Katja Wyss
Miriam Preiser

and the staff of the hosting institutions!

Reha Rheinfelden

Universitätsspital Basel

H+
DIE SPITÄLER DER SCHWEIZ
LES HÔPITAUX DE SUISSE
GLI OSPEDALI SVIZZERI

Thank you for your attention!

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