

#### LOOKING BACK AND AHEAD

# Past and future challenges in infection prevention

**HSC Symposium 2023** 

#### Sustainability - Best-Practice Healthcare

Stefan Krojer



## SUSTAINABILITY - Best-Practice Healthcare



Expert and networker focused on sustainability in the healthcare sector |
Founder and managing director of ZUKE\* Green

(\*Zukunft Krankenhaus-Einkauf, Future of Hospital Purchasing)

# ZUKE GREEN, WHO IS THAT? AND WHAT DO WE STAND FOR?

The community for pioneers in sustainable hospital procurement & supplychains

"Sustainable is the new digital". That is the conviction of Stefan Krojer, the founder of the future hospital procurement community and ZUKE GREEN. Healthcare causes 5 percent of global CO2 emissions. Nevertheless, the topic of sustainability has so far only been a marginal issue in hospitals in the german region. ZUKE GREEN is aware of the great leverage of the procurement area and takes on the topic. Our goal is to combine the "sustainable" transformation of the procurement area with important digital topics and to shape it with the help of the community. We act NOW and not tomorrow.





# ZUKE community of sustainability ambassadors

www.zuke-green.de



**Strong** 

over 70 buyers and sustainability managers from the hospital

**Exchange** 

1x per month exchange on sustainable topics from hospital practice

Identification

High level of self-motivation to tackle the issues

practical

Sustainable projects in hospitals: best practice

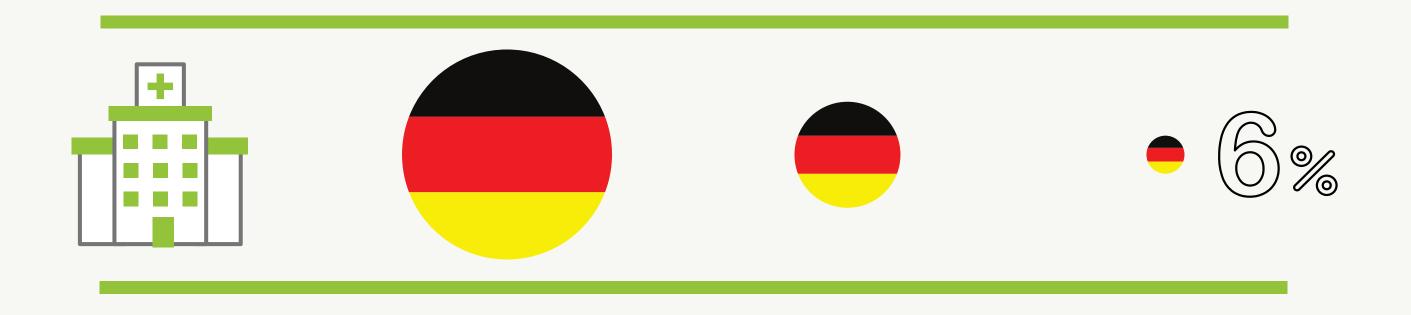


# \*According to a survey by the University of Bayreuth (2020)

#### STATUS QUO GERMANY HOSPITALS



Only 6 percent of German hospitals have a dedicated sustainability strategy\*





## Switch anesthetic gas

- Switch anesthetic gas to use the largest CO2 reduction lever in the hospital (approx. 4 percent)
- Changing from "desflurane" to "sevoflurane"
- Saves 80 percent CO2





## Recycling for medical products

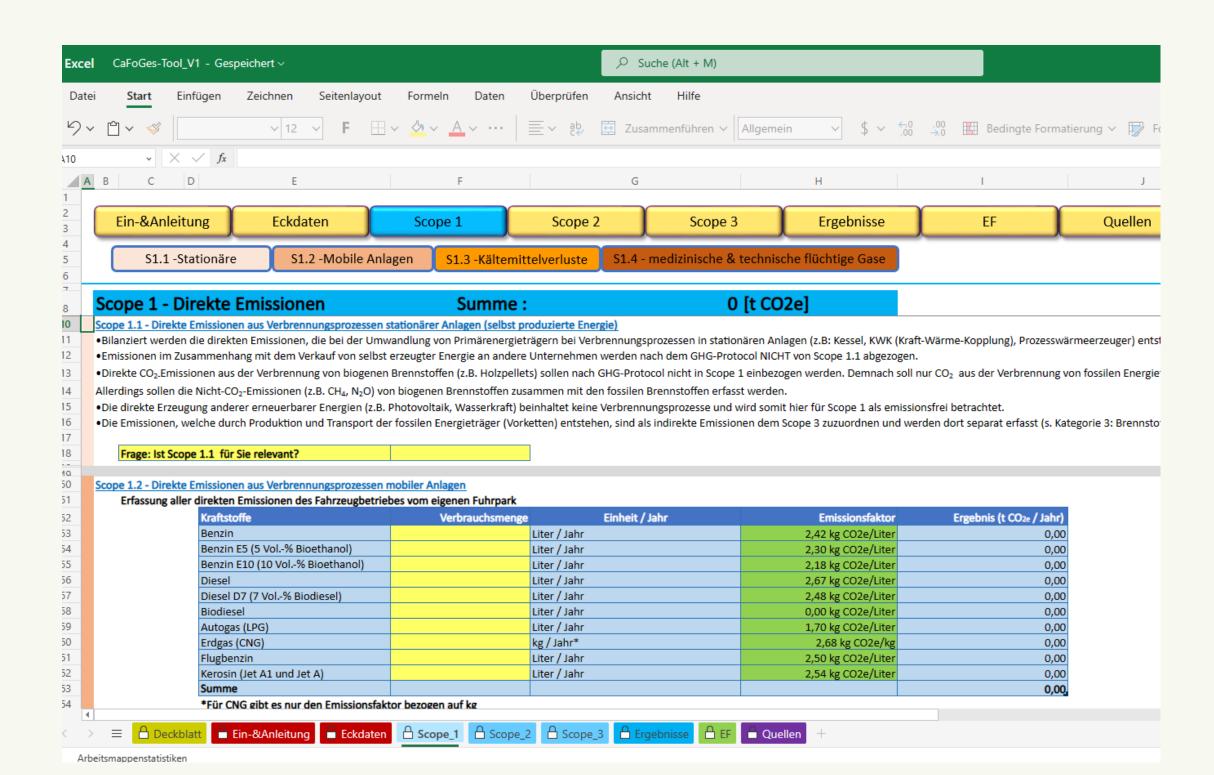
- University of Bonn with ressourcify
  - Recycling surgical stapler (Ethicon), catheter
     (Biosense Webster), tubes (Dräger),
     bronchoscope (Ambu)
- reprocessing, refurbish diagnostic medtech (<u>medigogreen</u>)
- medical remanufactoring (Vanguard)



## **CO2 Accounting**

- 13 CLIMATE ACTION
- RESPONSIBLE CONSUMPTION AND PRODUCTION

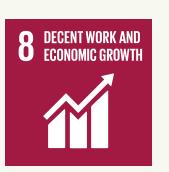
- University of Freiburg and Heidelberg
  - CO2 calculator
- Charite Berlin
  - CO2 project scope 3



## Supplychain Act (LkSG / CS3D)

- German "Lieferkettensorgfaltspflichtengesetz"
- EU Corporate Sustainability Due Diligence Directive (CS3D)
- Policy statement and reporting system on the hospital's website
- Code of conduct for suppliers
- Installing a Human Rights Officer











**MUSTER** 

#### **BEST PRACTICE**





Wir Bildung Gesundheit Q

← ZURÜCK

# Unsere Verantwortung: Das Lieferkettensorgfaltspflichtengesetz

Ab dem 01.01.2023 müssen in Deutschland im Rahmen des
Lieferkettensorgfaltspflichtengesetzes (LkSG) Unternehmen mit 3.000 oder
mehr Mitarbeiter:innen menschenrechtliche und umweltbezogene
Sorgfaltspflichten entlang ihrer Lieferketten beachten sowie ein
entsprechendes Beschwerdeverfahren einrichten. Wir bei der SRH bekennen uns
klar zur Beachtung dieser Sorgfaltspflichten und unterstützen diese.

https://www.srh.de/de/lksg/

#### TOP HOSPITAL WEBSITES

ZUKE GREEN

- www.natuerlichfuermorgen.de (Dr. Becker Kliniken)
- www.nachhaltigkeit.ume.de (University Hospital of Essen)
- www.uke.de/allgemein/ueber-uns/dasuke/nachhaltigkeit (University Hospital of Hamburg)
- www.uniklinik freiburg.de/allgemeinmedizin/cafoges.html
   (University Hospital of Freiburg)



#### **VISION**



# CIRCULAR ECONOMY BUSINESS MODELS HELP COMPANIES TO DECOUPLE VALUE CREATION AND RESOURCE CONSUMPTION

Circular Inputs: Using renewable sources, bio-based materials and man-made materials, that are recycled or highly recyclable, to enable partial or total elimination of waste.

Resource Recovery:

Using the embedded materials or energy at the end-of-use of a product and recovering through collection, aggregation and processing.

Resource

Recovery

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Product as a Service: Retaining ownership of products and selling benefits through a service model.

Circular Inputs

Sourcing

Logistics

Sharing

**Platforms** 

Manufacturing

Product

of use

Product

as a

Service

Design

Reverse

Logistics

End

of Use

Recycling

Product Use Extension: Product's use extended through design considerations, repairs, reconditioning, upgrades and resale for second use.

Product Use Extension

Optimizes utilization rates of products and assets through shared ownership, access and usage.

**Sharing Platforms:** 

Communication along value chains between actors is the basis for successful implementation

source: Accenture 2020

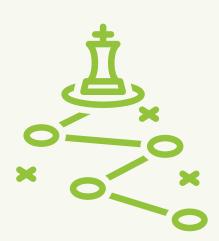
#### WHAT WE STILL NEED



- 1. Governance: St. Gallen Management Model
- 2. Establish standards e.g. CSRD, CS3D, eClass, Cert, GS1
- 3. Use networks as accelerators like HCWH, SPP, ZUKE Green
- 4. Politics creates incentives e.g. german new public tender act (in progress)



# Strategic Milestones recommentations



- 1. Create organizational structure (sustainability team & information flow)
- 2. Staus Quo analysis
- 3. CO2 balance and energy balance
- 4. Materiality Analysis
- 5. Define goals and incentive systems for employees
- 6. Measures financing and planning
- 7. Measures implementation (construction, investment, consumables)
- 8. Controlling, compliance, supply chain law
- 9. Communication of lighthouse projects
- 10. certification

# ZUKEGREEN HEALTH KONGRESS



28. + 29. November 2023 kongress. zuke-green. de

Online Congress for a sustainable healthcare economy

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