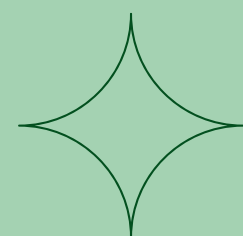


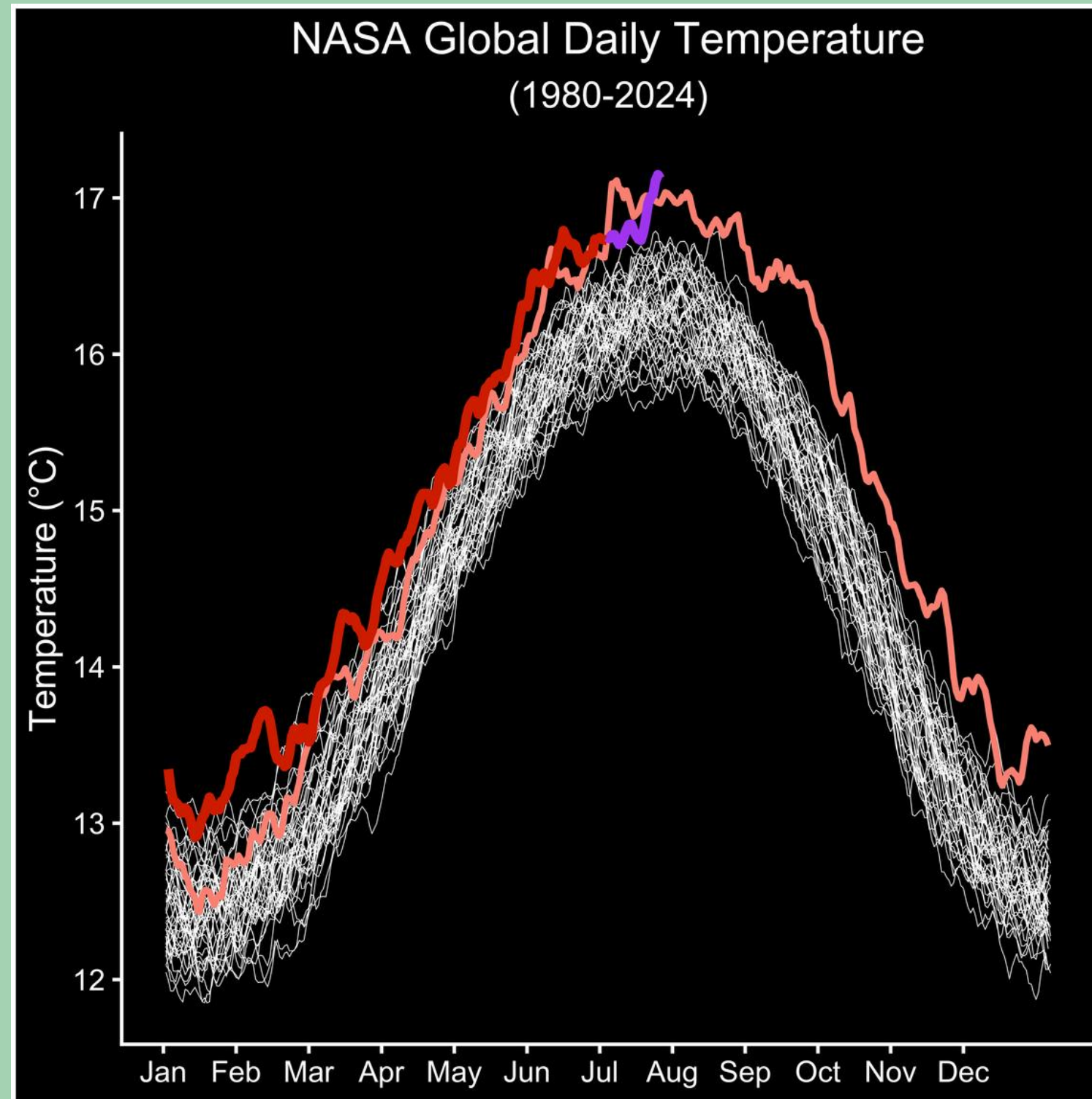
JAK CHRÁNIT PLANETU A NEOHROZIT PACIENTA



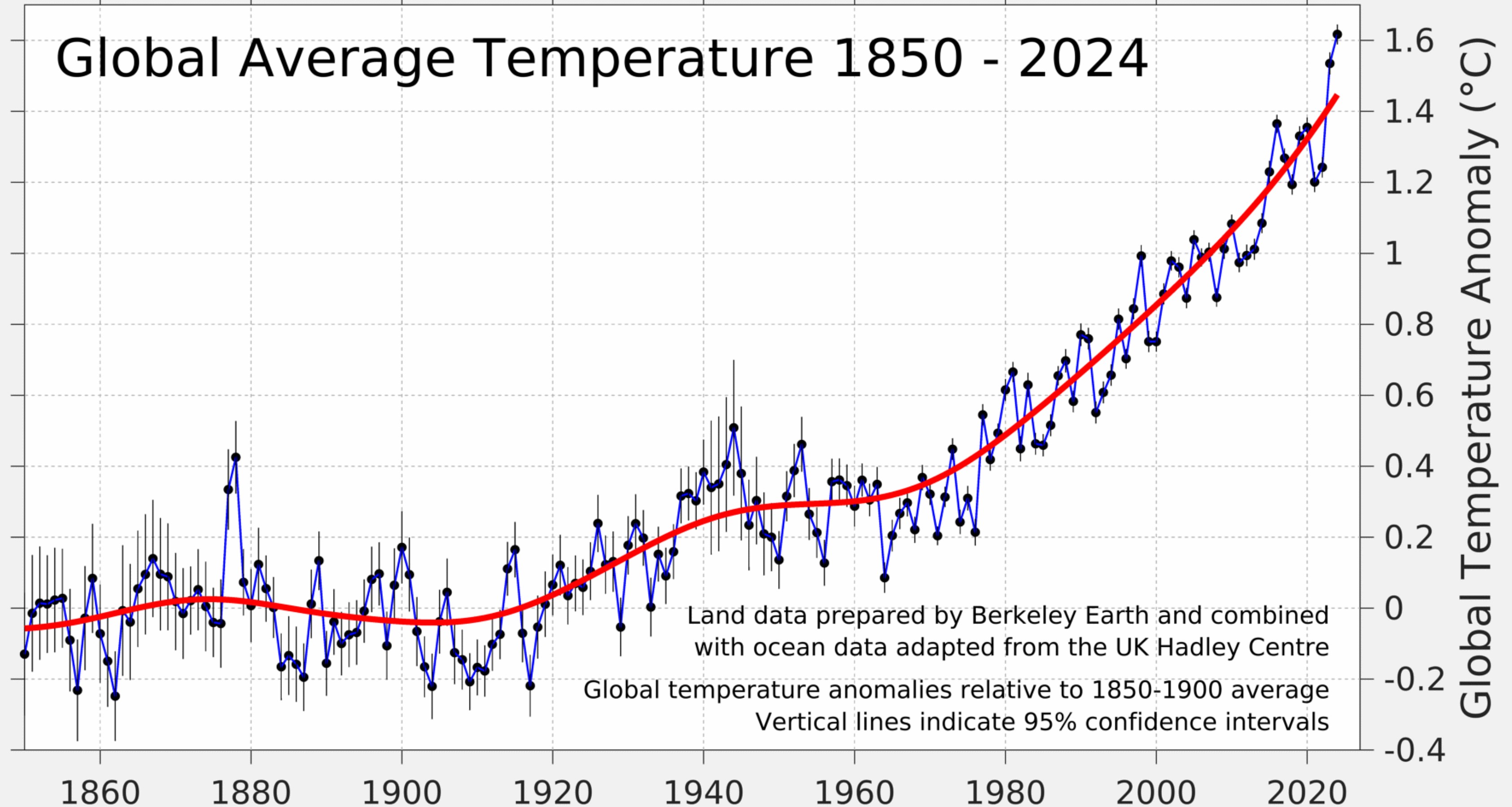
22.7.2024



22.7.2024

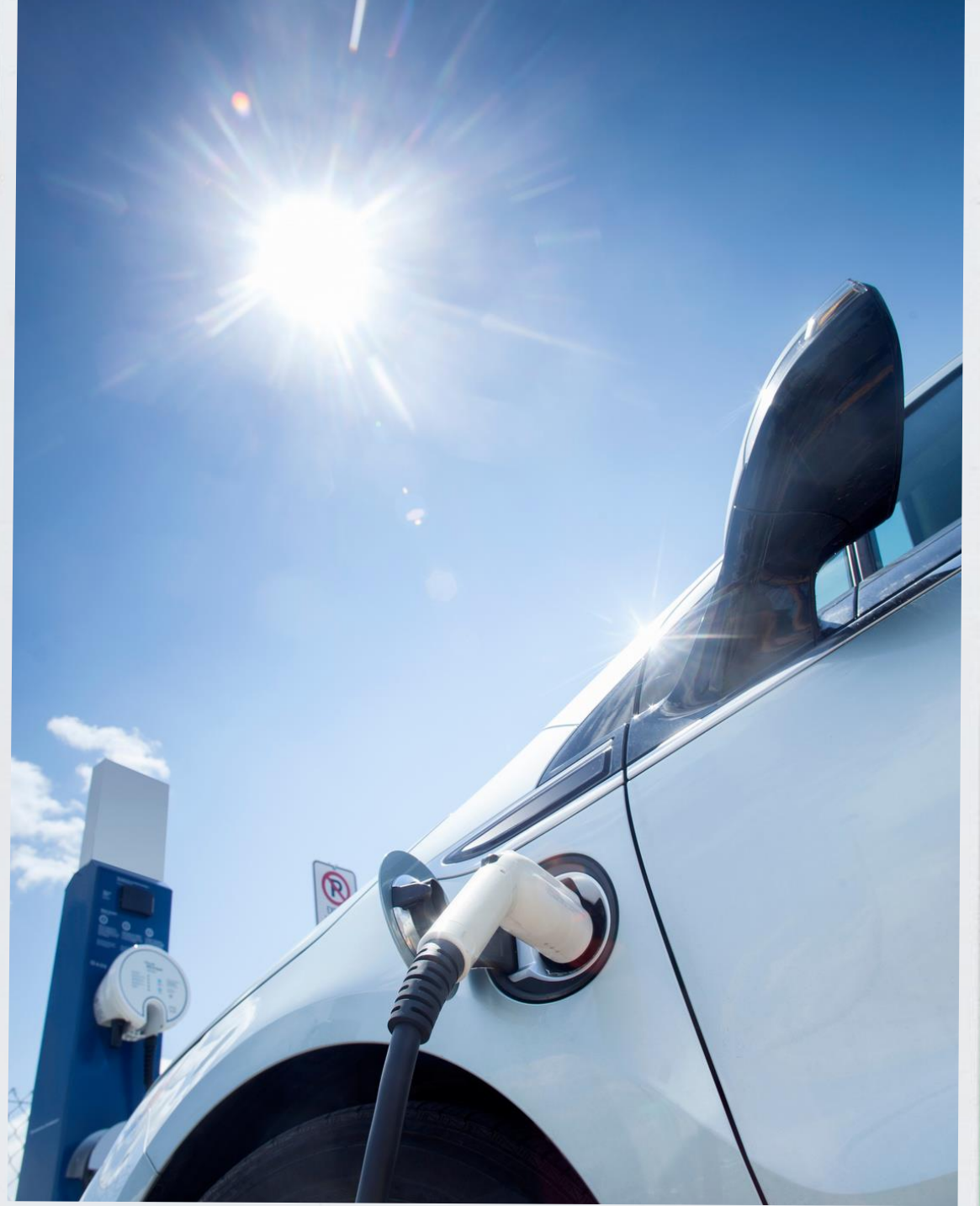
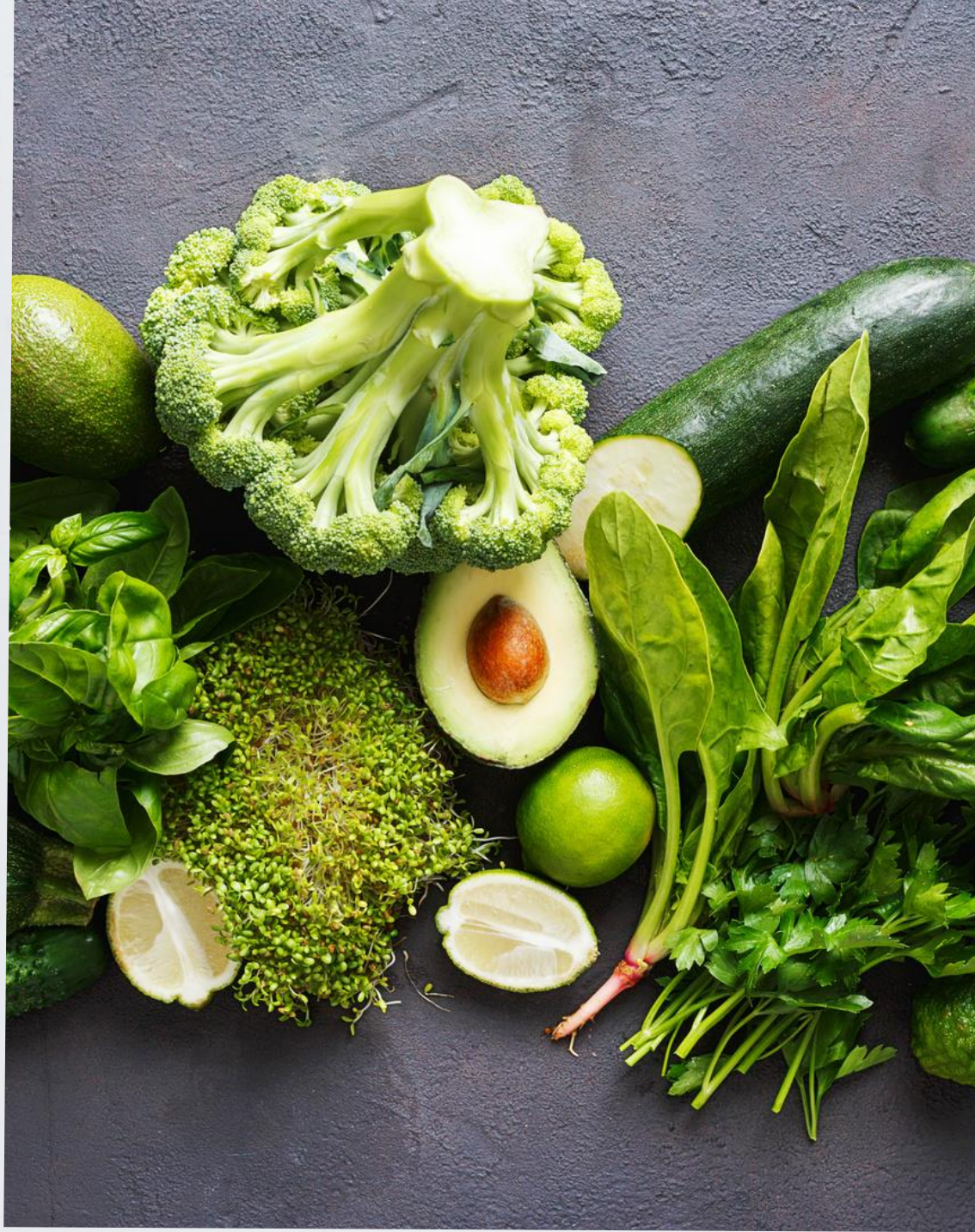


Global Average Temperature 1850 - 2024



ČISTÝ VZDUCH ČISTÁ VODA JÍDLO ZDRAVÍ DOMOV





The 2024 report of the *Lancet* Countdown on health and climate change: facing record-breaking threats from delayed action



Marina Romanello, Maria Walawender, Shih-Che Hsu, Annalyse Moskeland, Yasna Palmeiro-Silva, Daniel Scamman, Zakari Ali, Nadia Ameli, Denitsa Angelova, Sonja Ayeb-Karlsson, Sara Basart, Jessica Beagley, Paul J Beggs, Luciana Blanco-Villafuerte, Wenjia Cai, Max Callaghan, Diarmid Campbell-Lendrum, Jonathan D Chambers, Victoria Chicmana-Zapata, Lingzhi Chu, Troy J Cross, Kim R van Daalen, Carole Dalin, Niheer Dasandi, Shouro Dasgupta, Michael Davies, Robert Dubrow, Matthew J Eckelman, James D Ford, Chris Freyberg, Olga Gasparyan, Georgiana Gordon-Strachan, Michael Grubb, Samuel H Gunther, Ian Hamilton, Yun Hang, Risto Hänninen, Stella Hartinger, Kehan He, Julian Heidecke, Jeremy J Hess, Louis Jamart, Slava Jankin, Harshavardhan Jatkar, Ollie Jay, Ilan Kelman, Harry Kennard, Gregor Kiesewetter, Patrick Kinney, Dominic Kniveton, Rostislav Kouznetsov, Pete Lampard, Jason K W Lee, Bruno Lemke, Bo Li, Yang Liu, Zhao Liu, Alba Llabrés-Brustenga, Melissa Lott, Rachel Lowe, Jaime Martinez-Urtaza, Mark Maslin, Lucy McAllister, Celia McMichael, Zhifu Mi, James Milner, Kelton Minor, Jan Minx, Nahid Mohajeri, Natalie C Momen, Maziar Moradi-Lakeh, Karyn Morrisey, Simon Munzert, Kris A Murray, Nick Obradovich, Megan B O'Hare, Camile Oliveira, Tadj Oreszczyn, Matthias Otto, Fereidoon Owfi, Olivia L Pearman, Frank Pega, Andrew J Perishing, Ana-Catarina Pinho-Gomes, Jamie Ponmattam, Mahnaz Rabbaniha, Jamie Rickman, Elizabeth Robinson, Joacim Rocklöv, David Rojas-Rueda, Renee N Salas, Jan C Semenza, Jodi D Sherman, Joy Shumake-Guillemot, Pratik Singh, Henrik Sjödin, Jessica Slater, Mikhail Sofiev, Cecilia Sorensen, Marco Springmann, Zélie Stalhandske, Jennifer D Stowell, Meisam Tabatabaei, Jonathon Taylor, Daniel Tong, Cathryn Tonne, Marina Treskova, Joaquin A Trinanes, Andreas Uppstu, Fabian Wagner, Laura Warnecke, Hannah Whitcombe, Peng Xian, Carol Zavaleta-Cortijo, Chi Zhang, Ran Zhang, Shihui Zhang, Ying Zhang, Qiao Zhu, Peng Gong*, Hugh Montgomery*, Anthony Costello*



popáleniny

delirium

kontaminace vody

dekompenzace kardiovaskulárních
onemocnění

výpadky infrastruktury

traumata

Vlny horka

Požáry a kouř

Extrémní
srážky

Povodně

Písečné bouře

Vektorová
onemocnění

ztráta spánku z horka

epidemie vodou přenosných
infekcí

zhoršení kognice

exacerbace
astmatu/CHOPN



**KLIMATICKÁ STOPA
ZDRAVOTNICTVÍ ODPOVÍDÁ**

4-10%

EMISÍ CELOSVĚTOVĚ



INTENZIVNÍ PÉČE

ŽIVOTNÍ PROSTŘEDÍ

MATERIAL FLOW ANALYSIS

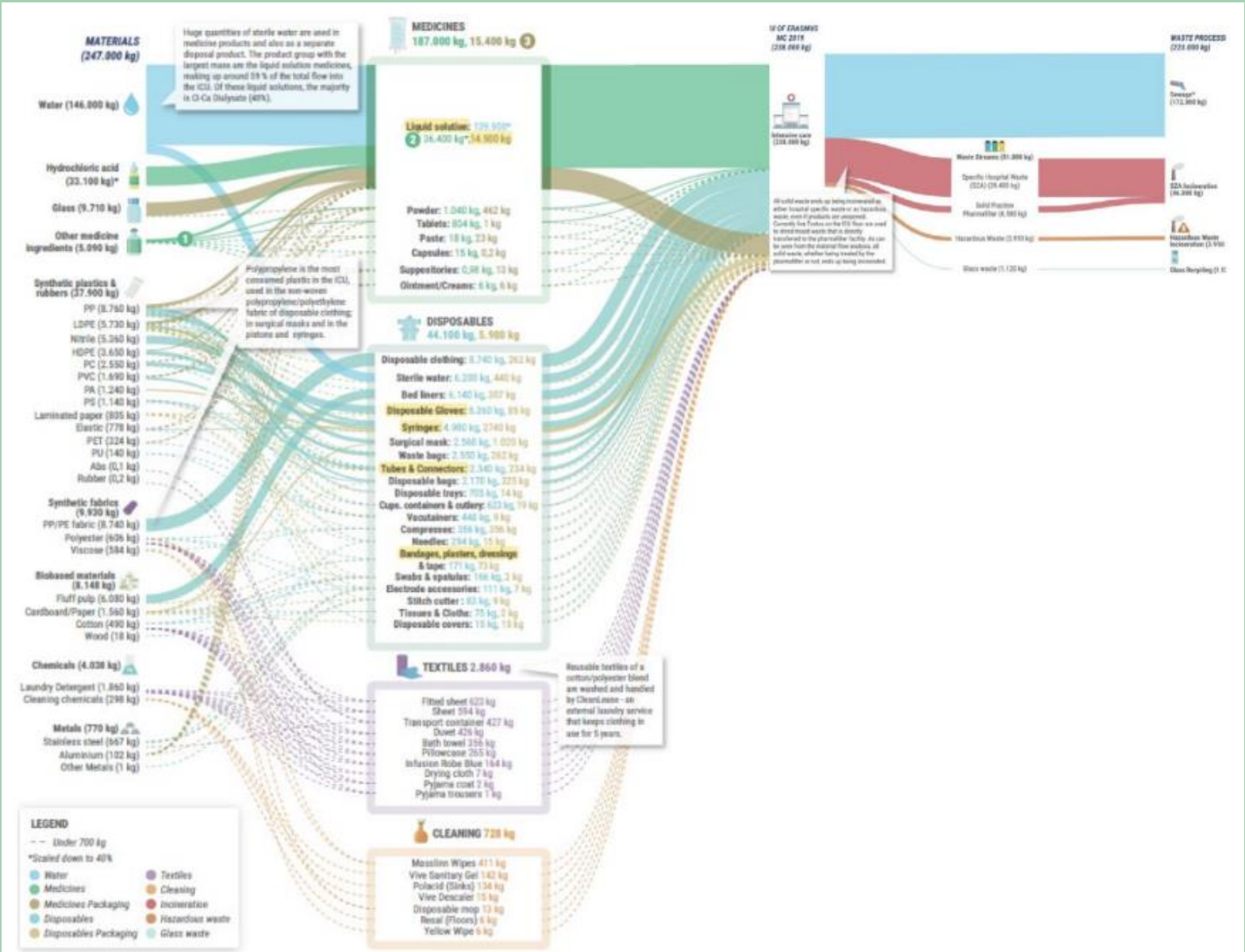
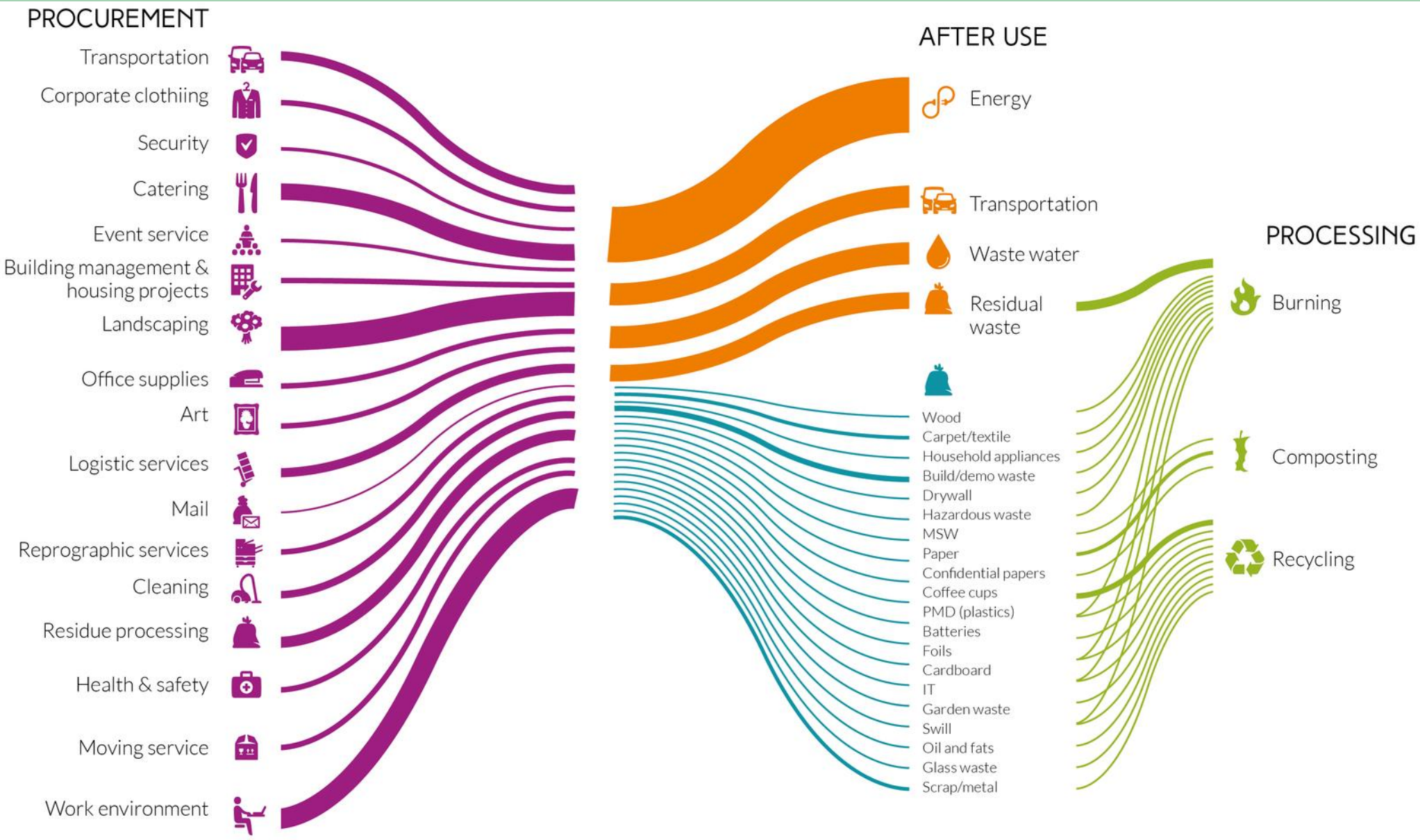
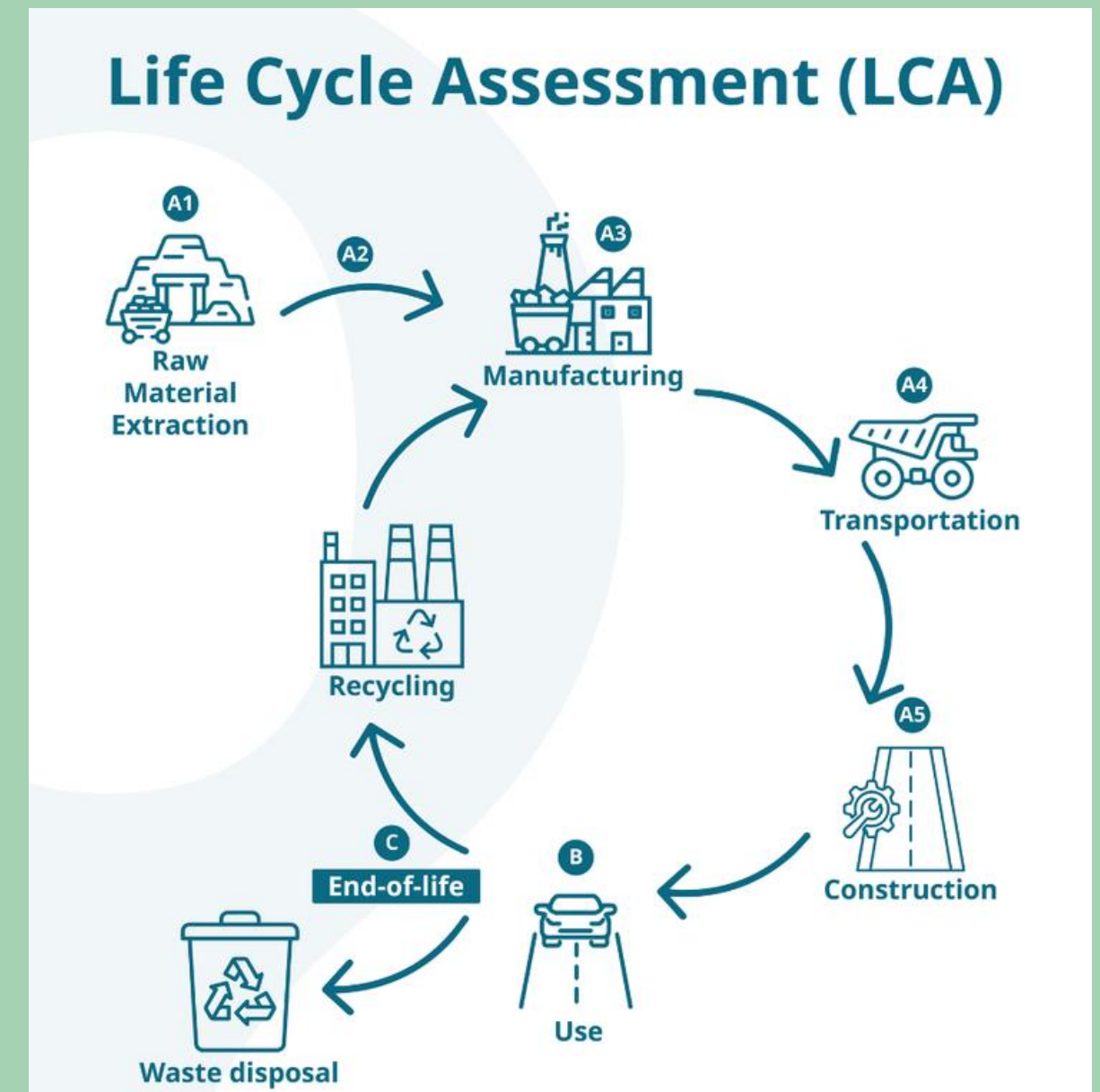
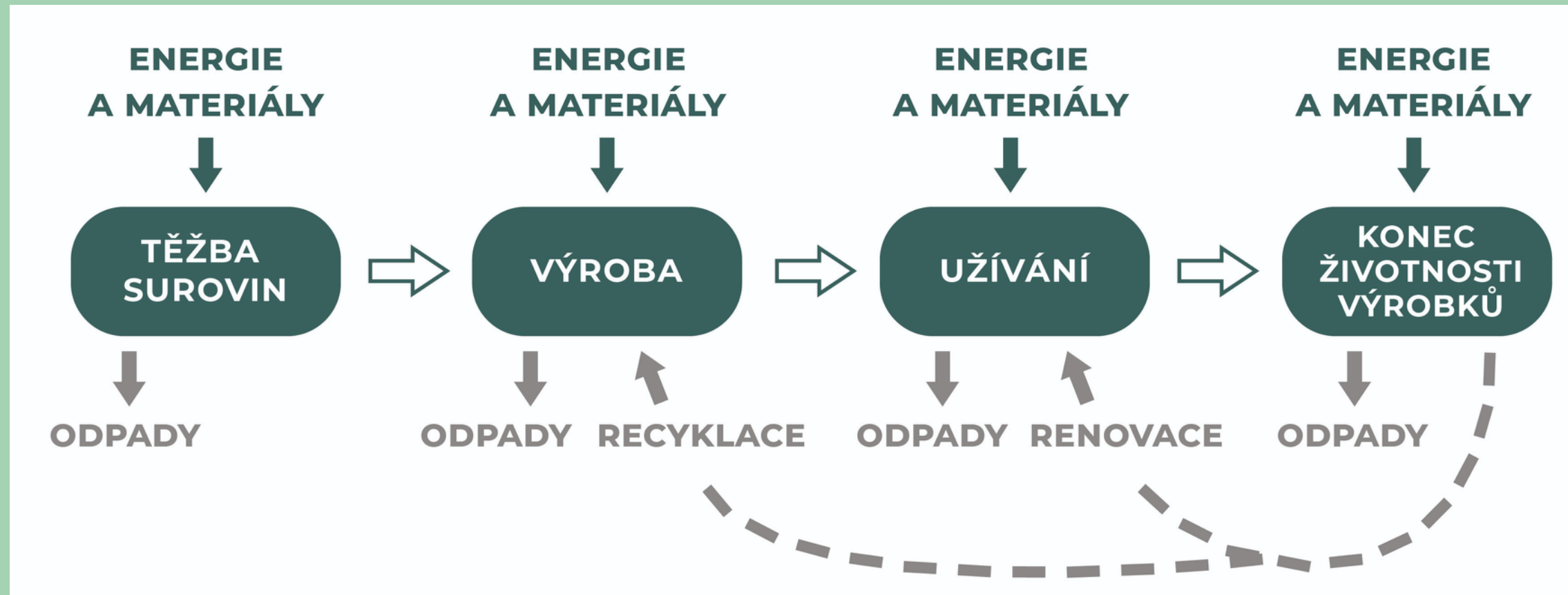


Figure 71: MFA of ICU materials 2019 Metabolic data (Browne-Wilkinson et al, 2021)

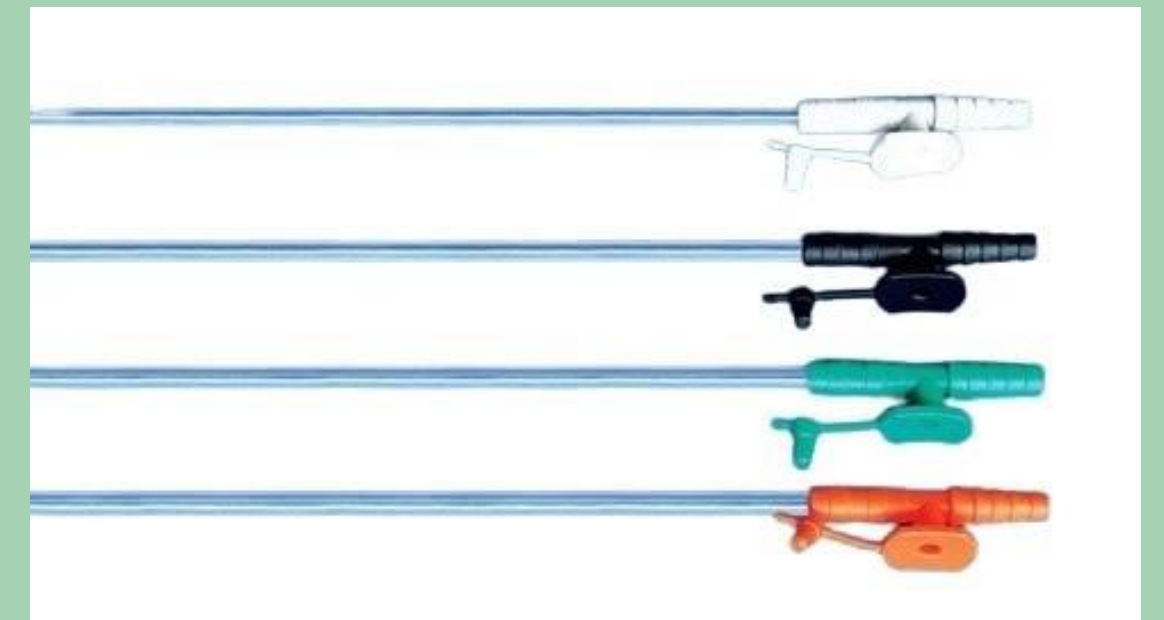
LIFE CYCLE ASSESSMENT



➤ [Respir Care. 2024 Jan 24;69\(2\):218-221. doi: 10.4187/respcare.11189.](#)

Open Versus Closed Suctioning in Invasively Ventilated Critically Ill Patients for Sustainability of ICU Care: A Life-Cycle Assessment Comparison

Willemke Stilma¹, Andrea Esmeijer², Frederique Paulus¹, Tim Frenzel³, Hugo Touw³,
Tim Stoberneck⁴



Pokud pacient vyžaduje odsátí z dýchacích cest více než 6x během 72 hodin, uzavřené odsávací systémy jsou více udržitelné než otevřené odsávací cévky.

Original article

Reusable laryngoscope blades: a more eco-responsible and cost-effective alternative



N. Rouvière^a, S. Chkair^b, F. Auger^c, P. Cuvillon^d, G. Leguelinel-Blache^{a,b}, V. Chasseigne^{a,b,*}

^a Department of Pharmacy, Nîmes University Hospital, University of Montpellier, Nîmes, France

^b Institute Desbrest of Epidemiology and Public Health, INSERM, University Montpellier, Montpellier, France

^c Primum non nocere agency, Beziers, France

^d UR-UM103 IMAGINE, University Montpellier, Division of Anesthesia Critical Care, Pain and Emergency Medicine, Montpellier, France



17 200 intubací /rok

**Resterilizovatelné laryngoskopy jsou udržitelnější (po 3 použitíh)
a finančně výhodnější (po 86 použitíh)**

Lost in the Ether: The Environmental Impact of Anesthesia

Molly M. Herr,^{*} Rachel E. Outtersen,[†] and Shreya Aggarwal[‡]



EMISSIONS FROM ONE HOUR OF ANESTHETIC GAS

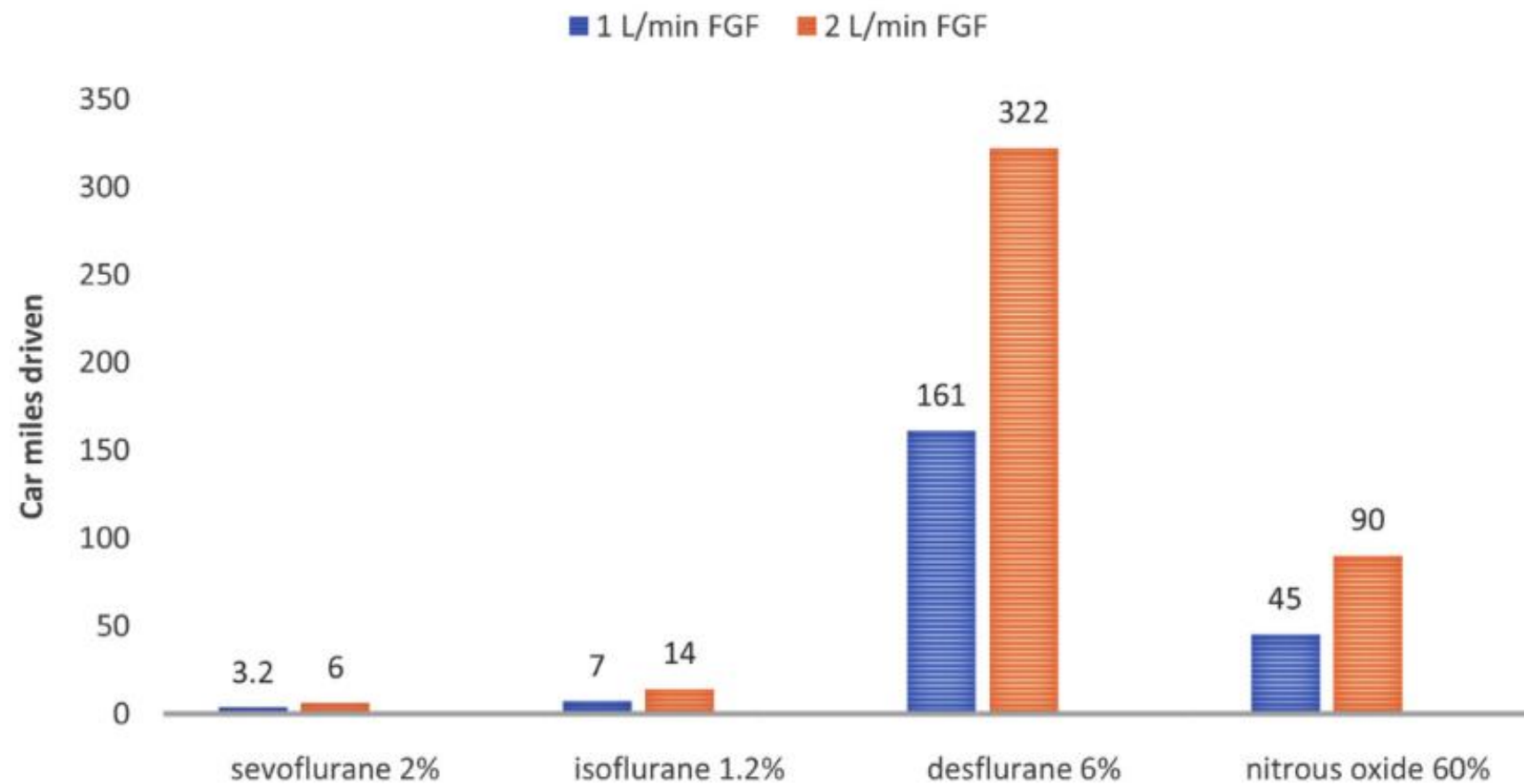


Figure 2 Equivalent emissions, measured in car miles driven, at 1 MAC of volatile agent or 60% nitrous oxide at various fresh gas flows. (Data adapted from Ryan SM and Nielsen CJ⁵⁶ with references from Table I). (Color version of figure is available online.)

4 Ways To Go Green During the Perioperative Period

Before

- 1 Decommission centralized N₂O storage and piping
- 2 Revise and simplify kits, minimize SUDs (single use devices)
- 3 Don't open equipment until you need it
- 4 Procure sustainable equipment and use reprocessed SUDs

During

- 1 Avoid desflurane and N₂O
- 2 Lower fresh gas flows, including O₂ flows for MAC/regional cases
- 3 Maximize regional anesthesia and TIVA when possible
- 4 Reduce pharmaceutical waste

After

- 1 Turn off gases and close N₂O tanks on anesthesia machine
- 2 Turn off anesthesia machine and equipment after use
- 3 Utilize waste streams appropriately (reprocess, recycle)
- 4 Waste medications appropriately

Reducing the carbon footprint for a 30-bed haemodialysis unit
by changing the delivery of acid concentrate supplied by individual 5
L containers to a central delivery system

Gareth Murcutt¹ · Rosie Hillson² · Cate Goodlad¹ · Andrew Davenport^{1,3} 

Received: 19 November 2023 / Accepted: 8 August 2024 / Published online: 18 September 2024
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1000 kg CO₂e emisí/dialyzační stanice/rok

1 Google vyhledání
0.2 g CO₂

Horká sprcha
(10 min)
2,000 g / 2kg CO₂

Používání mobilního telefonu (1 hod)
172 g CO₂

Living repository

HealthcareLCA database

Products & processes | Data sources | Data dictionary | Tools

Views | Products & processes | 29 hidden fields | Filter | Grouped by 2 fields | Sort

	Product or process	Location	Data source topic	Country	HealthcareLCA
	DATA SOURCE TOPIC			Unique 1	
	Duodenoscopes				
193	Duodenoscope, single-use (made primarily of polyethylene derivatives, acrylonitrile-butadiene copolymer)	bez-Muñoz P,...	Duodenoscopes	Spain	Medicine
194	Duodenoscope, single-use (made primarily of polycarbonates and polytetrafluoroethylene)	bez-Muñoz P,...	Duodenoscopes	Spain	Medicine
195	Duodenoscope, reusable, lifetime (1600 procedures)	bez-Muñoz P,...	Duodenoscopes	Spain	Medicine
196	Duodenoscopes, single-use (made primarily of polyethylene derivatives, acrylonitrile-butadiene copolymer)	bez-Muñoz P,...	Duodenoscopes	Spain	Medicine
197	Duodenoscope, single-use (made primarily of polycarbonates and polytetrafluoroethylene)	bez-Muñoz P,...	Duodenoscopes	Spain	Medicine

CO MŮŽEME UDĚLAT MY TEĎ?

Revize lokálních doporučení

paliativní péče

i.v. → NGS → p.o.

Odpady - audit

ABCDEF balíček

Rukavice - no risk, no glove

Zapojení studentů

Odběry a vyšetření

The ABCDEF Bundle	
A	Assess & Manage Pain
B	Both SATs and SBTs
C	Choice of Sedation and Analgesia
D	Delirium Assessment & Management
E	Early Mobilisation and Exercise
F	Family Engagement

