

„Paris Buildings: von internationalen Zielvorgaben bis zur lokalen Umsetzung“

Verwaltungsworkshop der Stadt Wien „Wir bauen Zukunft! Nachhaltigkeit, Ästhetik und Inklusion in Bau- und Stadtplanung“

Alexander Passer und Barbara Truger

21.04.22

Alexander Passer



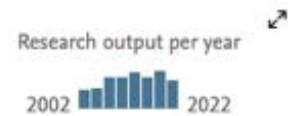
- Full Professor for Sustainable Construction (2022-)
- Management Board Climate Change Center Austria (CCCA)
- Chair Sustainabilityboard Graz University of Technology
- Associate Professor für Sustainable Construction (2017-2021)
- Visiting Professor (ETH Zürich) (2014)
- Assistant Professor for Sustainable Construction (2010-2016)

Research focus

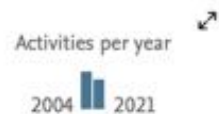
- Life Cycle Sustainability Assessment
- Building Information Modeling
- Life Cycle Assessment
- Building Sustainability Certification
- EPDs

<https://graz.pure.elsevier.com/de/persons/alexander-passer>

Research output



Activities





NEW EUROPEAN BAUHAUS

beautiful | sustainable | together



NEW EUROPEAN BAUHAUS



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#NewEuropeanBauhaus



Das Neue Europäische Bauhaus

"If the European Green Deal has a soul, then it is the New European Bauhaus which has led to an explosion of creativity across our Union."

Ursula Von der Leyen, President of the European Commission

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PRIZES 2022 
#NewEuropeanBauhaus



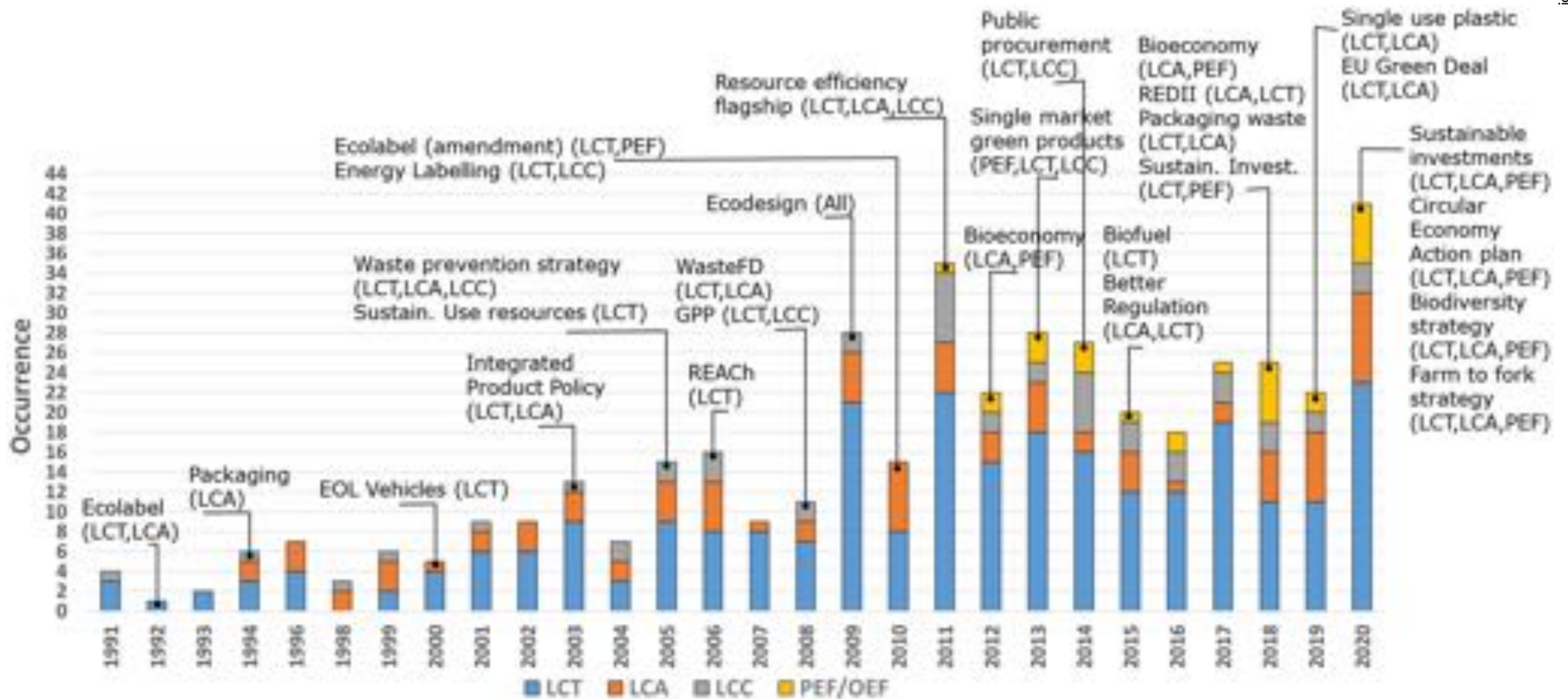
#NewEuropeanBauhaus 

https://europa.eu/new-european-bauhaus/index_de



Source: Sala, S., Anadei, A.M., Beylot, A., Ardenne, F., 2021. The evolution of life cycle assessment in European policies over three decades. *Int. J. Life Cycle Assess.* 26, 2295–2314. <https://doi.org/10.1007/s11367-021-01893-2>

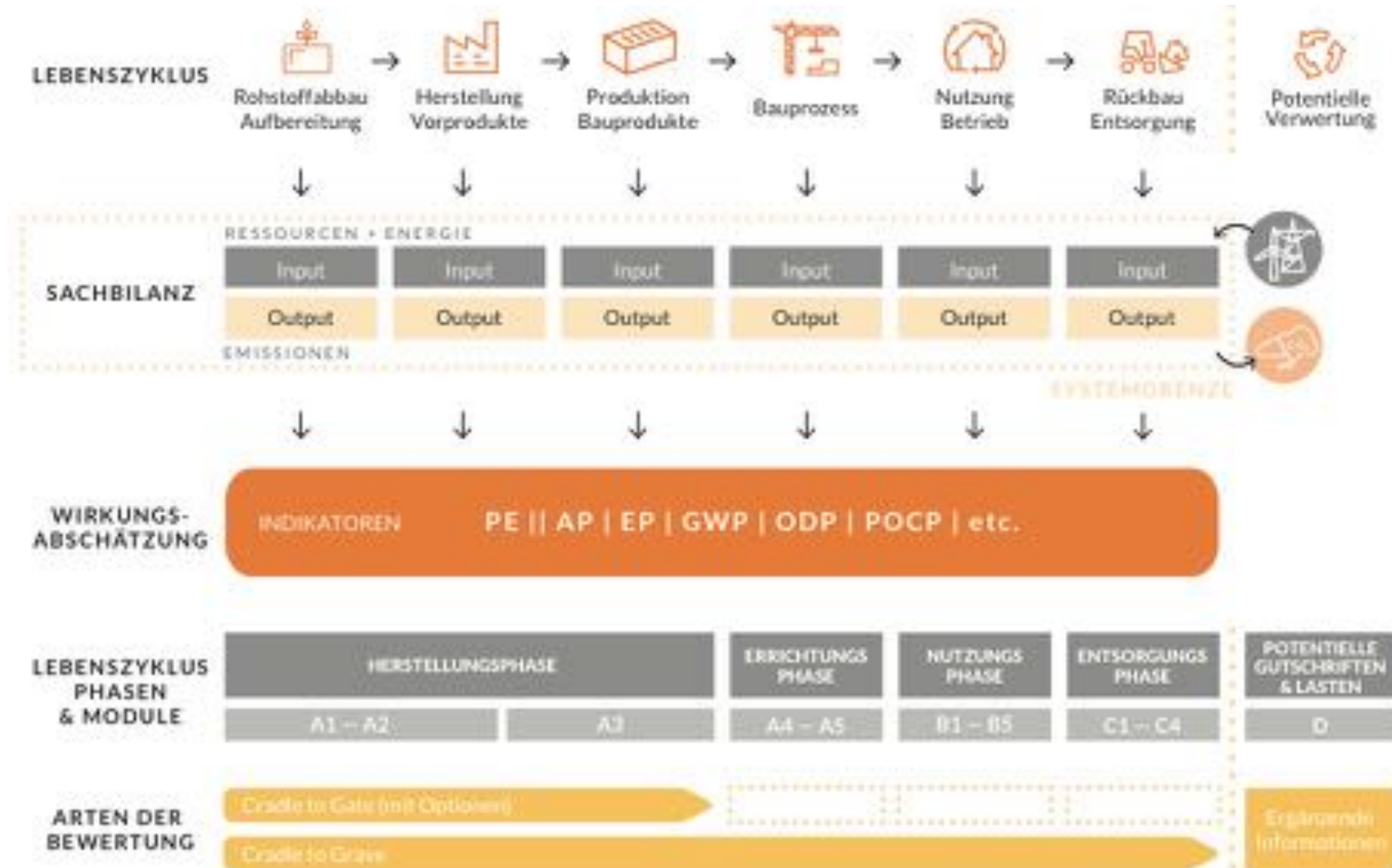
Fig. 6 An overview of the role of LCT, LCA, and PEF/OEF within the EU Green Deal and related policies initiatives



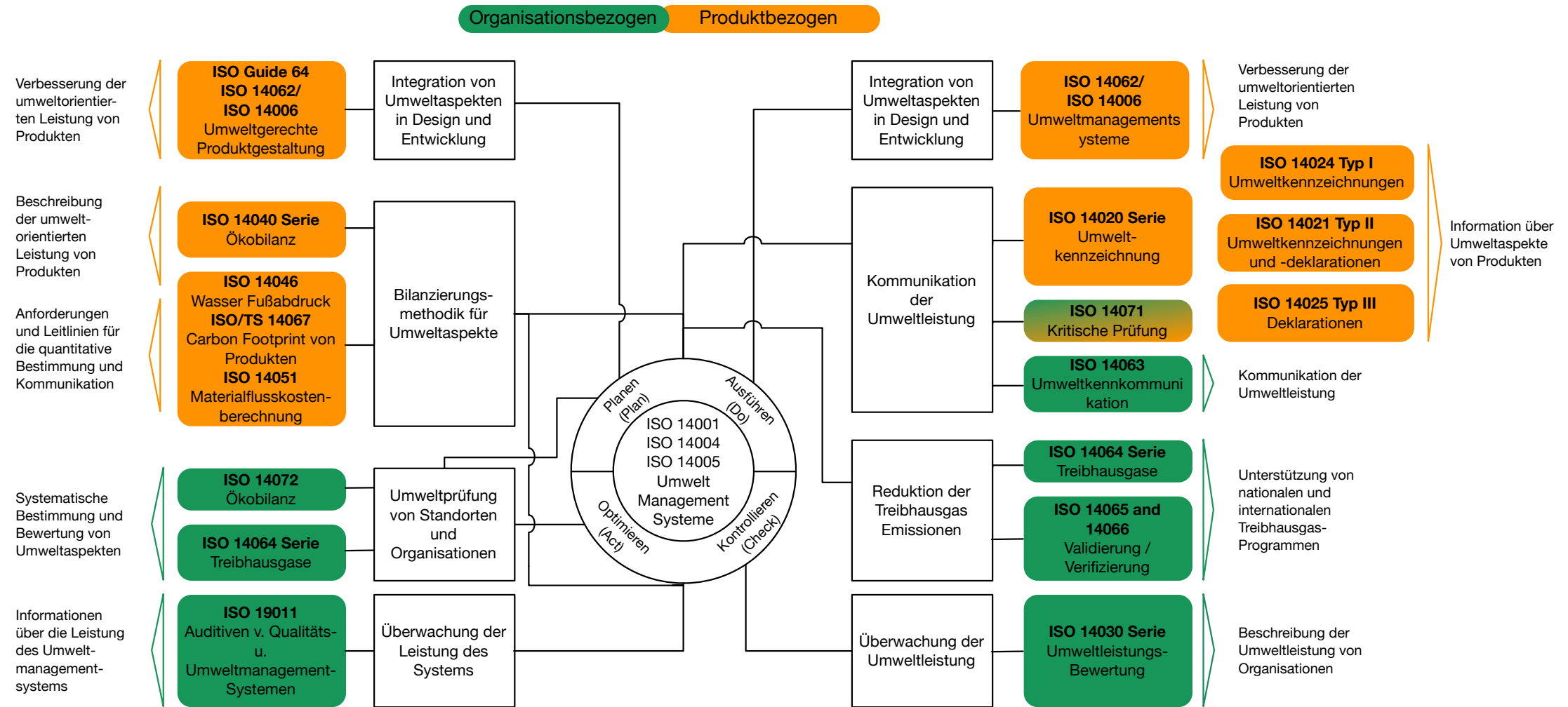
over three decades. Int. J. Life Cycle Assess. 26, 2295–2314, <https://doi.org/10.1007/s11367-021-01893-2>

Life Cycle Assessment (LCA) Methodology





Source: Passer, A. Habilitation thesis: To the operationalization of sustainable construction, TU Graz 2016



Source: Passer, A. (2016). Umweltprodukt-Informationen und -deklarationen im Baubereich: Ein aktueller Überblick. OIB Aktuell - Das Fachmagazin Für Baurecht, Und Technik, Heft 2/2016, 2, 16-23.

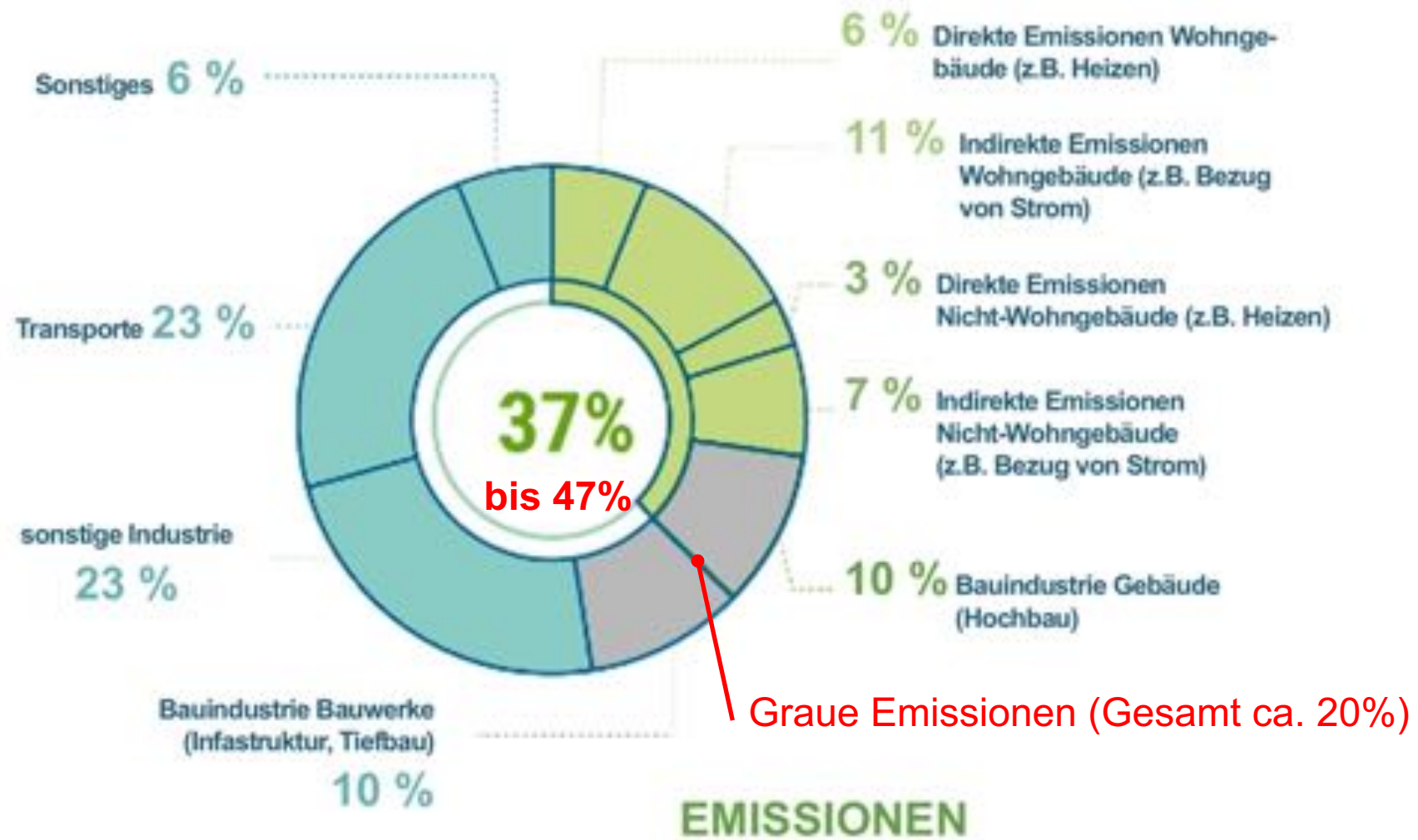
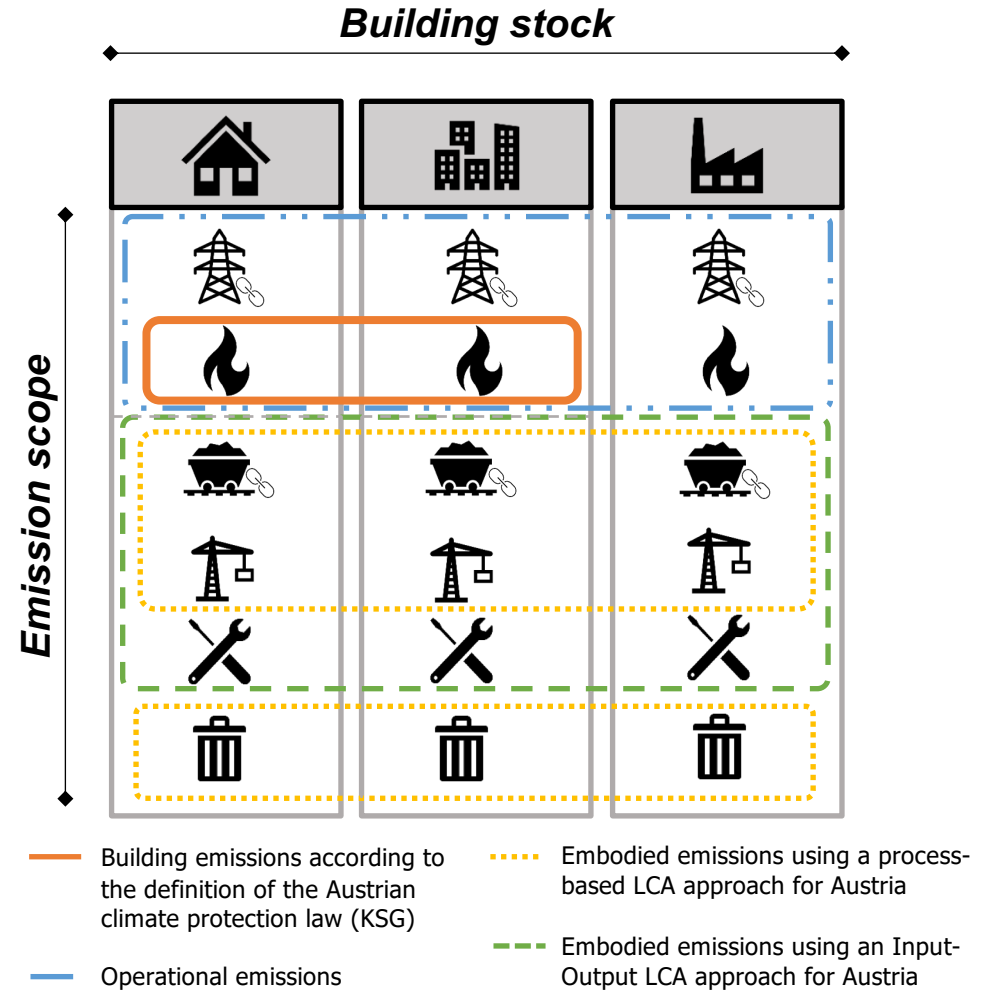


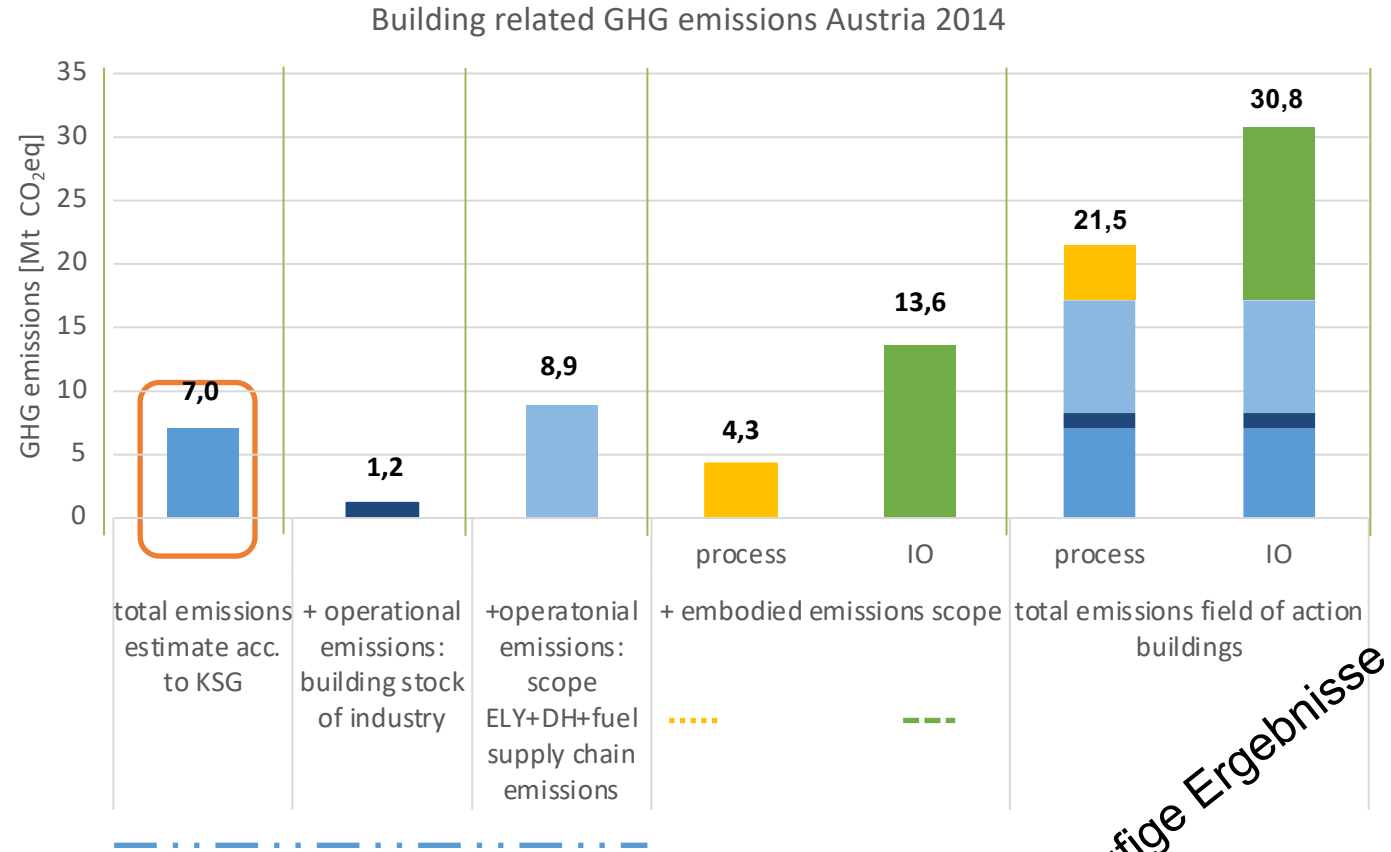
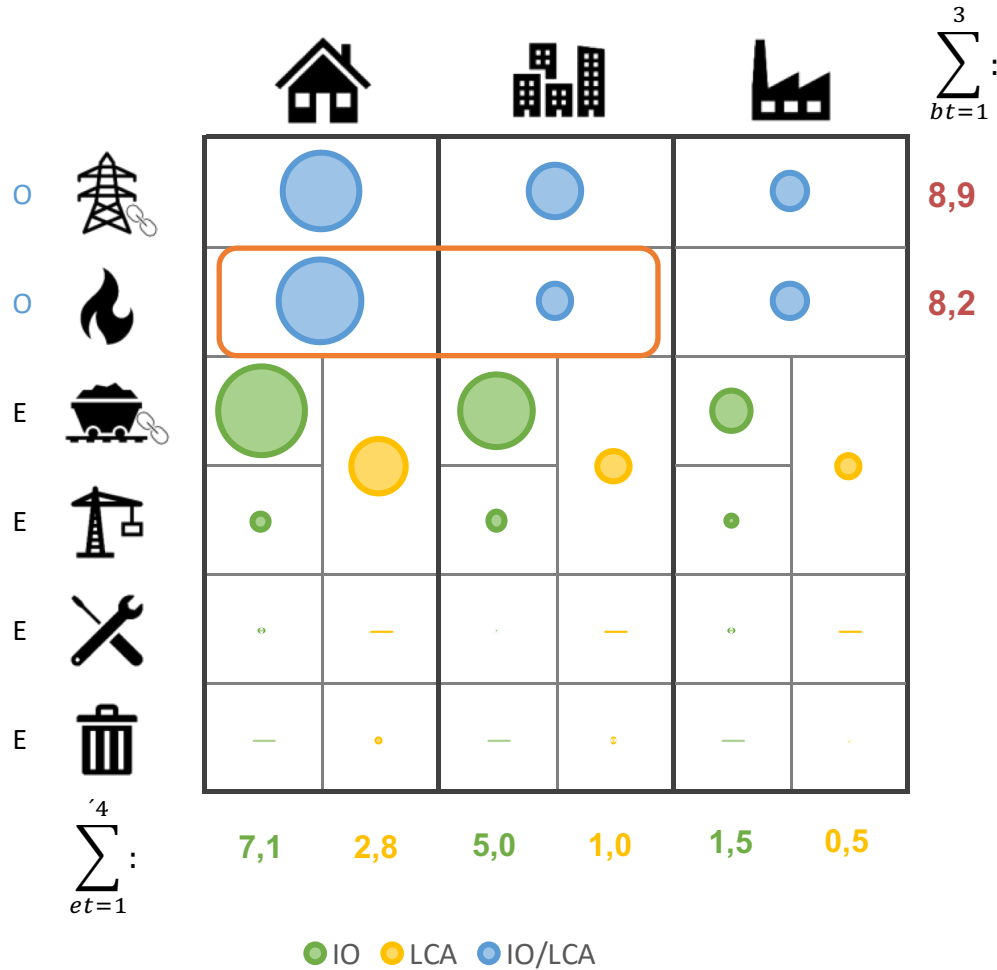
Abbildung: Anteil der Gebäude an den globalen energiebezogenen CO₂-Emissionen, 2020.
 Quelle: UNEP - United Nations Environment Programme, 2021 Global Status Report for Buildings and Construction: Towards a Zero-emission, Efficient and Resilient Buildings and Construction Sector. Nairobi: 2021. S. 15

Results – field of action buildings



Transition of the procurement process towards Paris compatible public buildings





Vorläufige Ergebnisse



Effizienz

besser



A+



A++



Konsistenz

anders



Suffizienz

weniger





Effizienz

Super Dämmung



Neue tolle Heizung



Konsistenz

Photovoltaik und
Solarthermie



Wärmepumpen

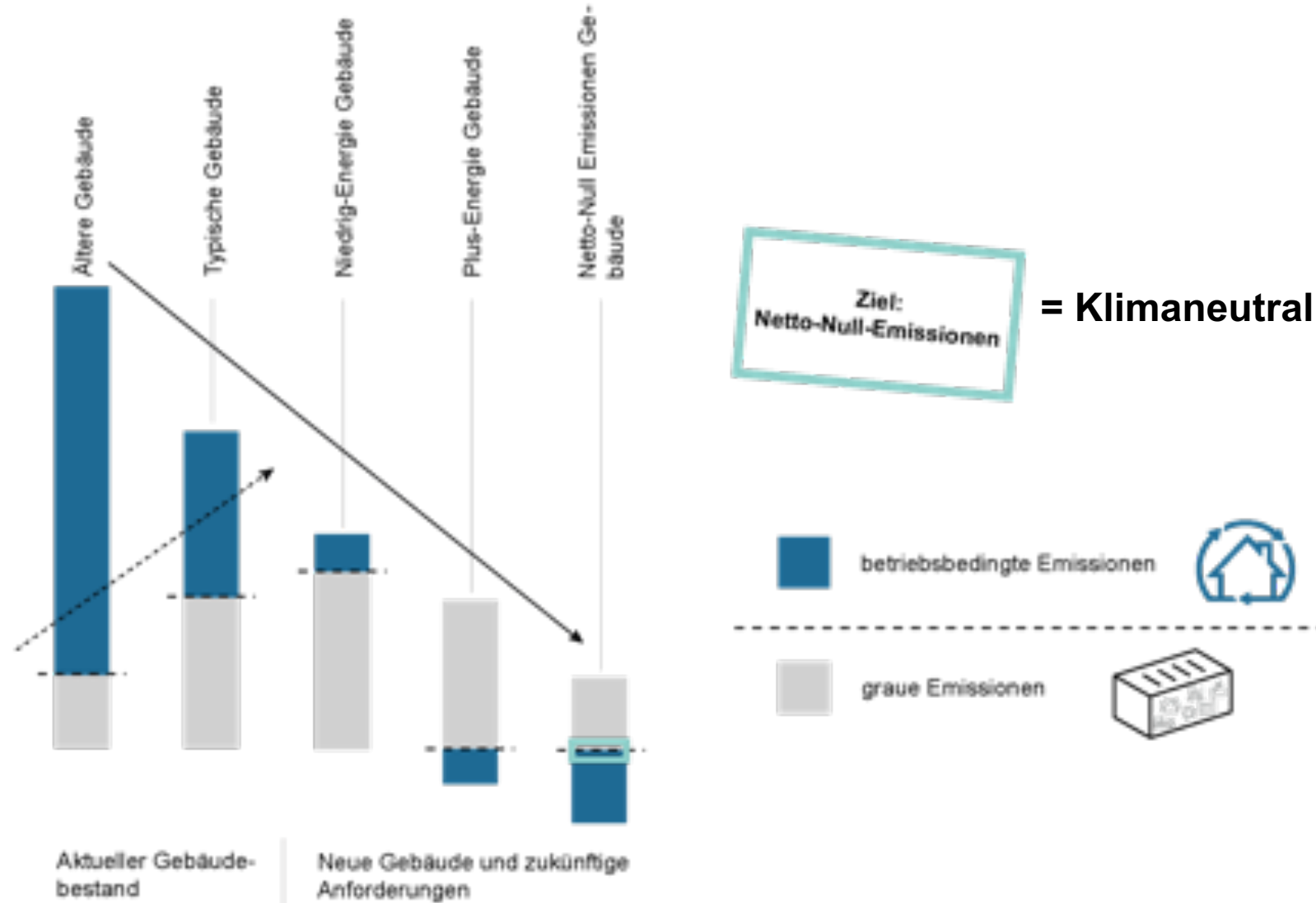


Suffizienz

Licht aus!

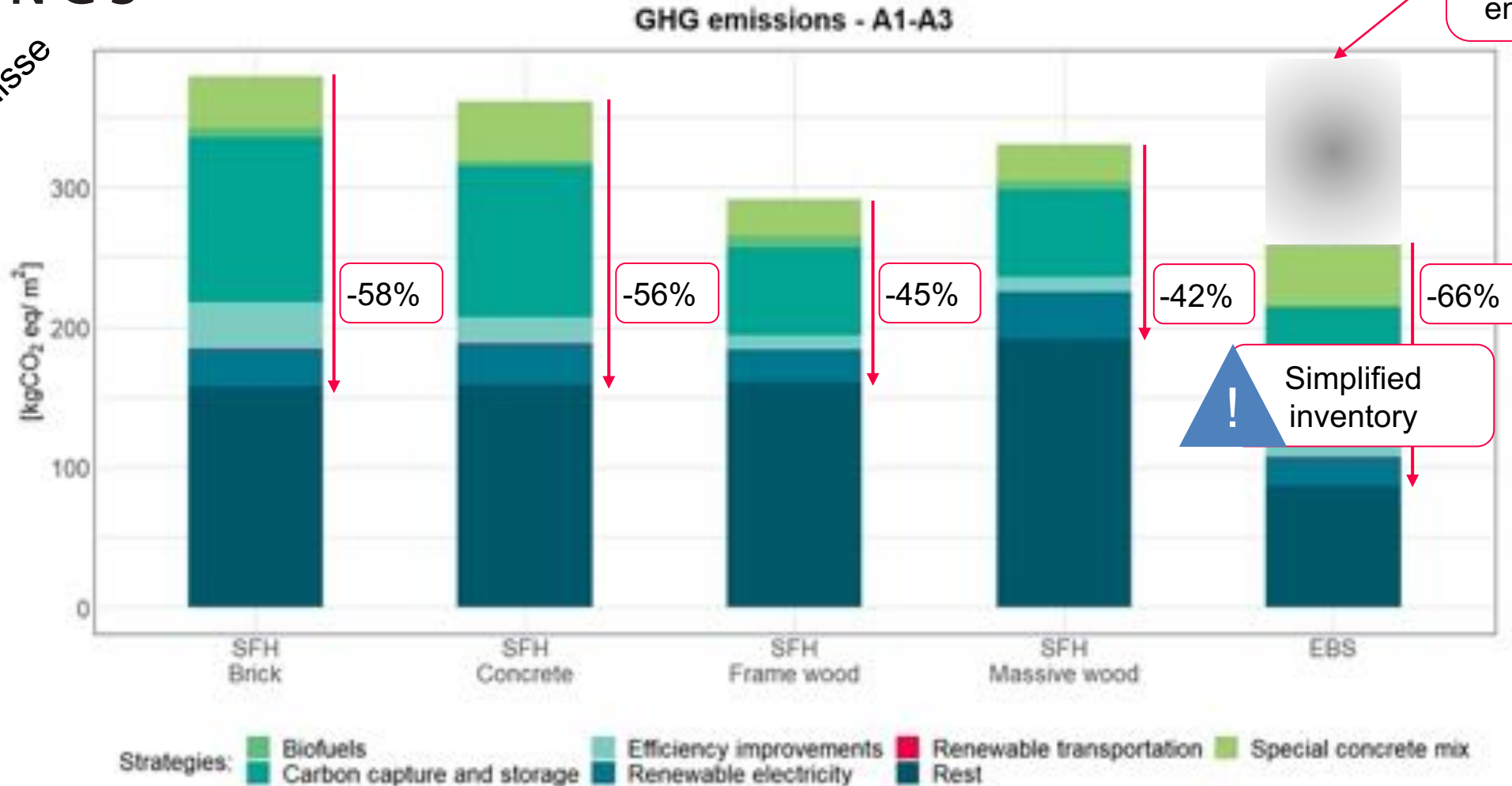


Heizung runter!



PARIS BUILDINGS

Vorläufige Ergebnisse



Alaux, N., Truger B., Hoxha, E., Saade, M. R. M & Passer, A. (2022). Greenhouse gas reduction strategies for building materials: a reality check with the climate targets, in Sustainable Built Environment Conference, SBE22 (Berlin).



IEA EBC Annex 72: The Monte Verità Declaration



<http://annex72.iea-ebc.org/>



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Hinweis auf SBE22 Berlin



Built Environment within Planetary Boundaries

Sustainable Built Environment D-A-CH Conference 2022



Topics

- Resource Management and Material Flows
- Climate Neutral Buildings
- Post-Fossil Infrastructures
- Critical Digitalisation
- Socio-Political Frames for Transitions
- Open Call For New Topics

sbe22 Contact

Kim Gundloch
team@sbe22.berlin

NATURAL BUILDING LAB - TU Berlin
constructive design and climate adaptive architecture
Straße des 17. Juni 152 | 10623 Berlin

20. - 23. September 2022
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