

31 January 2025 | Climate Positive Europe Alliance

Sufficiency as a catalyst for urban change

Anja Bierwirth

Head of Research Unit 'Urban Transitions'

Division 'Energy, Transport and Climate Policy'

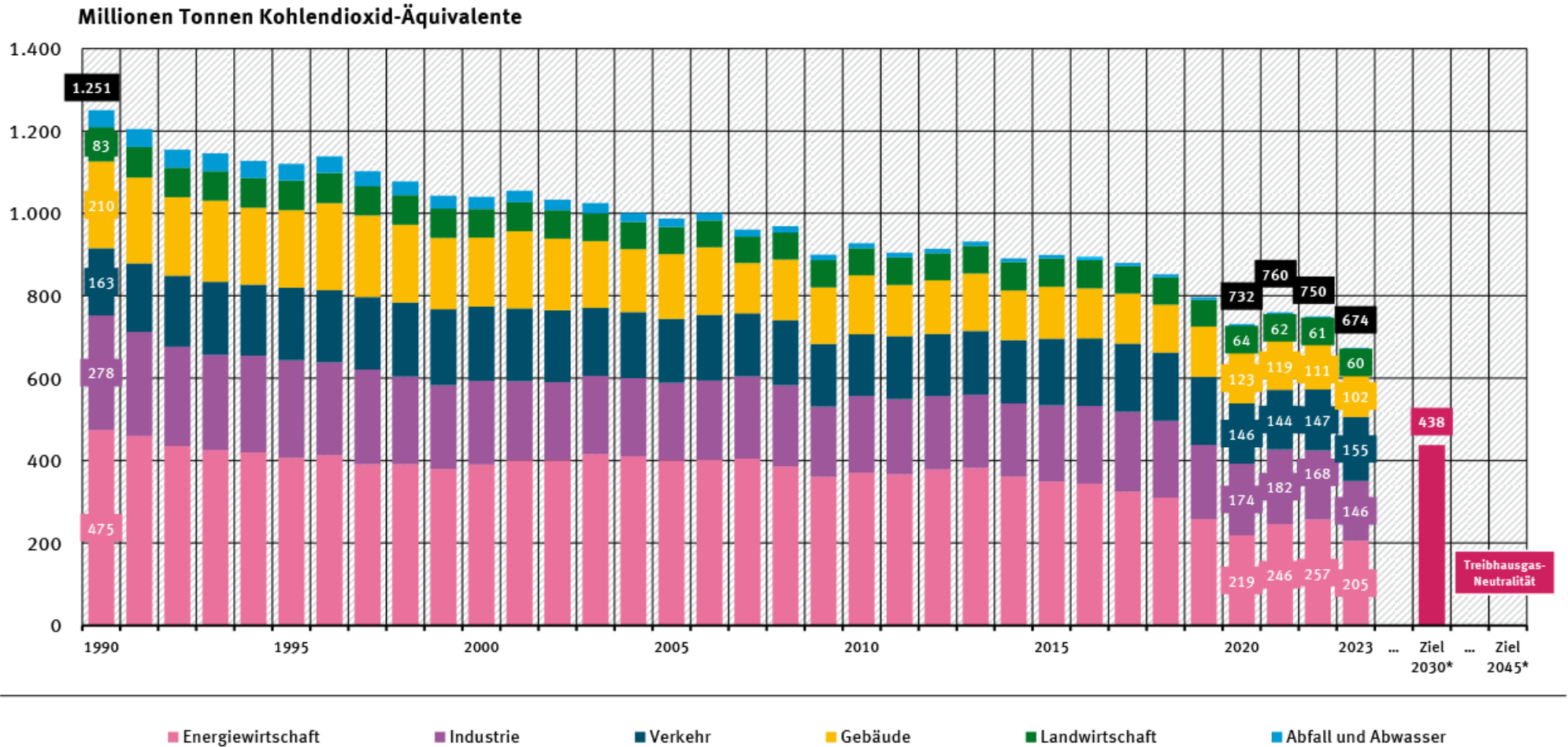
Wuppertal Institute for Climate, Environment and Energy

TOO LITTLE

ENOUGH

TOO MUCH

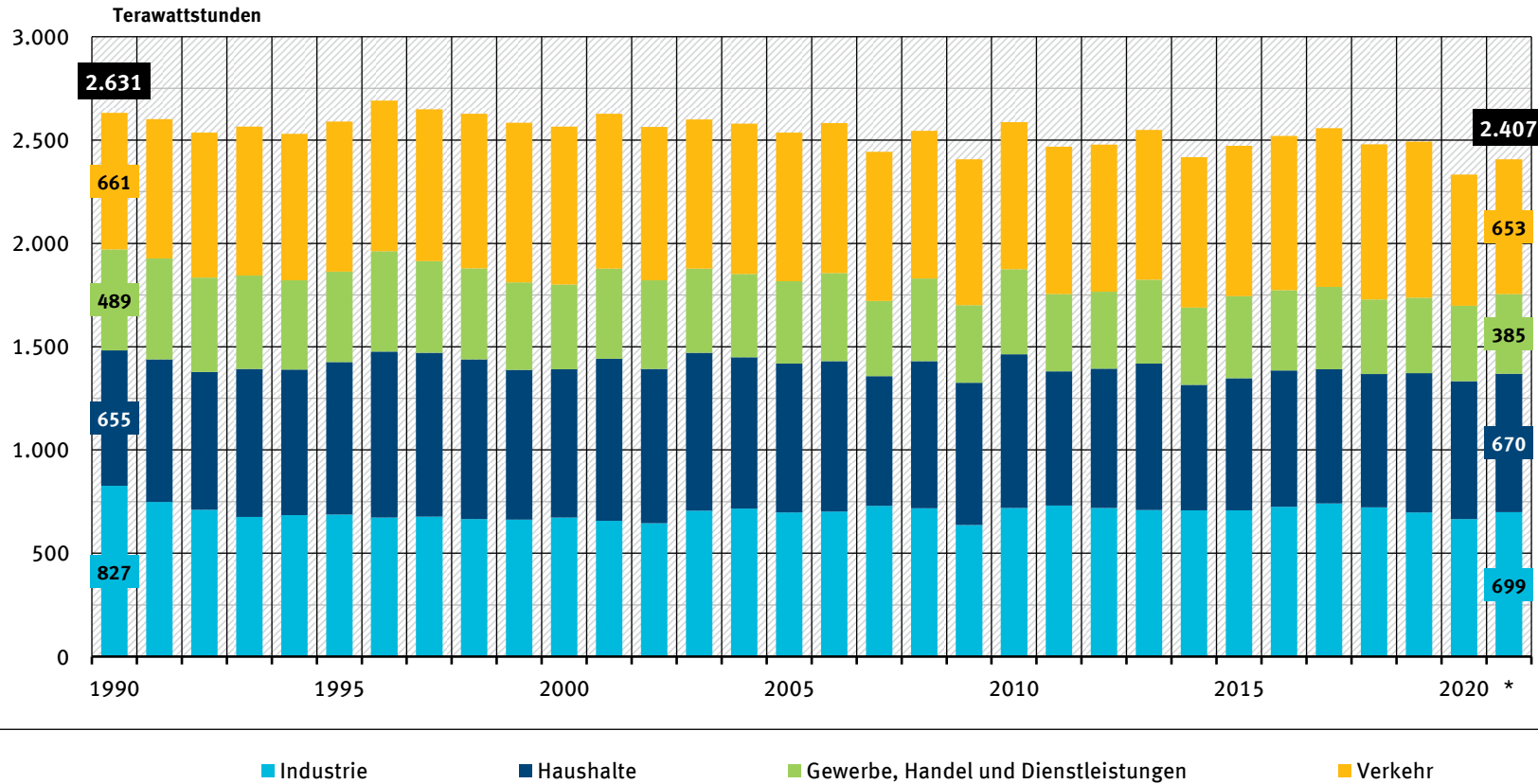
Development of GHG emissions in Germany by sectors



Source: Umweltbundesamt, Emission der von der UN-Klimarahmenkonvention abgedeckten Treibhausgase (Stand 01/2022)

Development of energy use in Germany by sectors

Endenergieverbrauch nach Sektoren



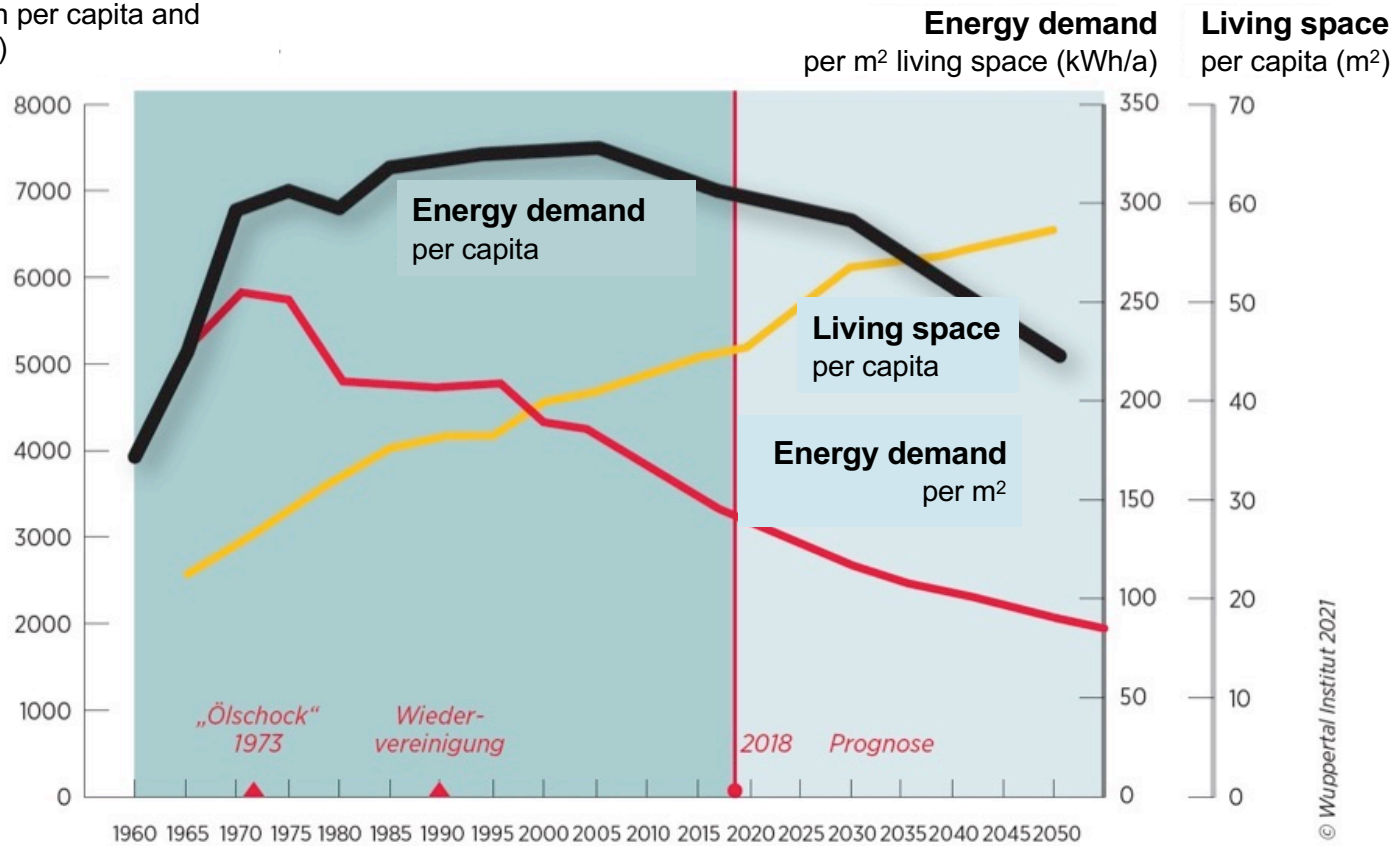
* vorläufige Angaben

Quelle: Umweltbundesamt auf Basis AG Energiebilanzen, Auswertungstabellen zur Energiebilanz der Bundesrepublik Deutschland, Stand 09/2022

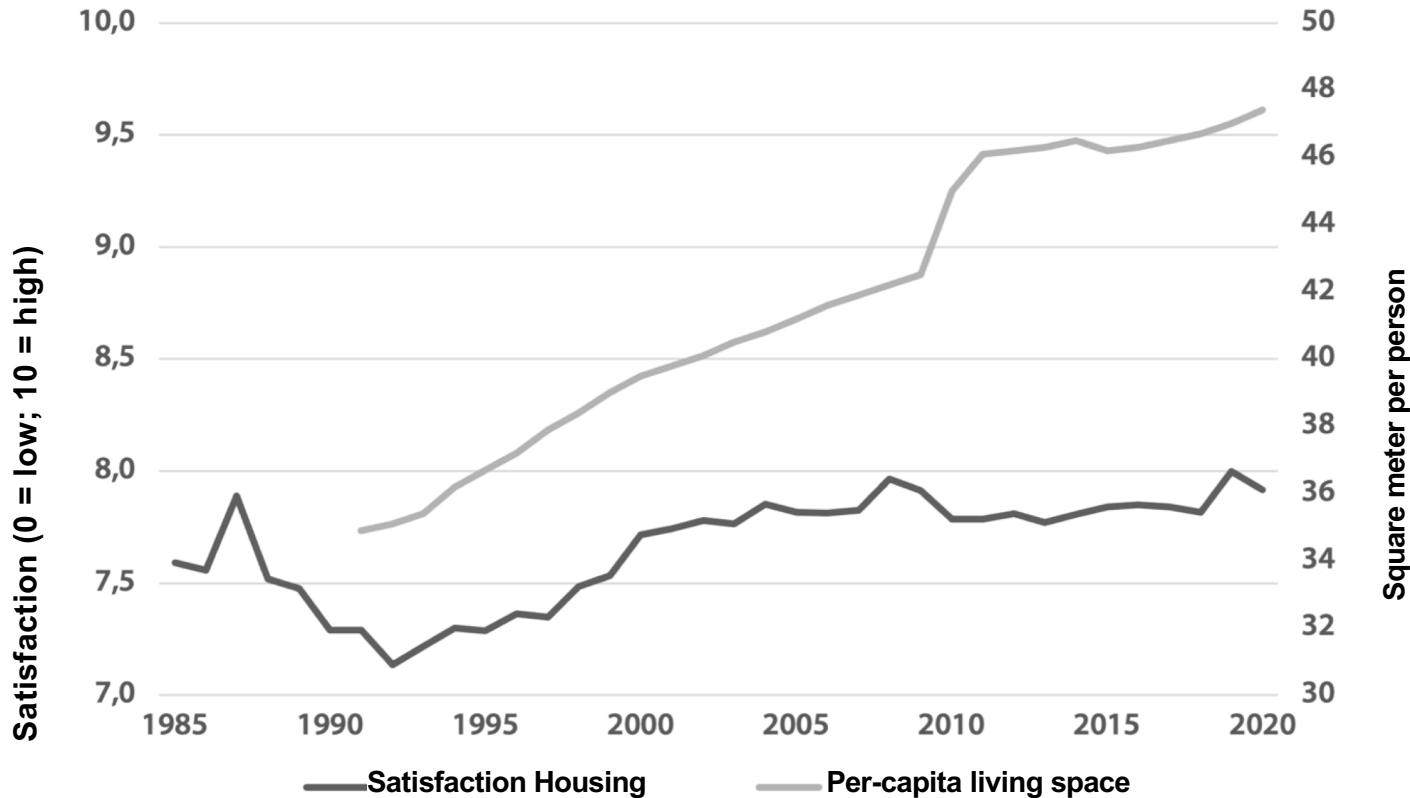
Source: Umweltbundesamt auf Basis AG Energiebilanzen, Auswertungstabellen zur Energiebilanz der Bundesrepublik Deutschland 1990 bis 2018, Stand 10/2019

Energy for heating residential buildings

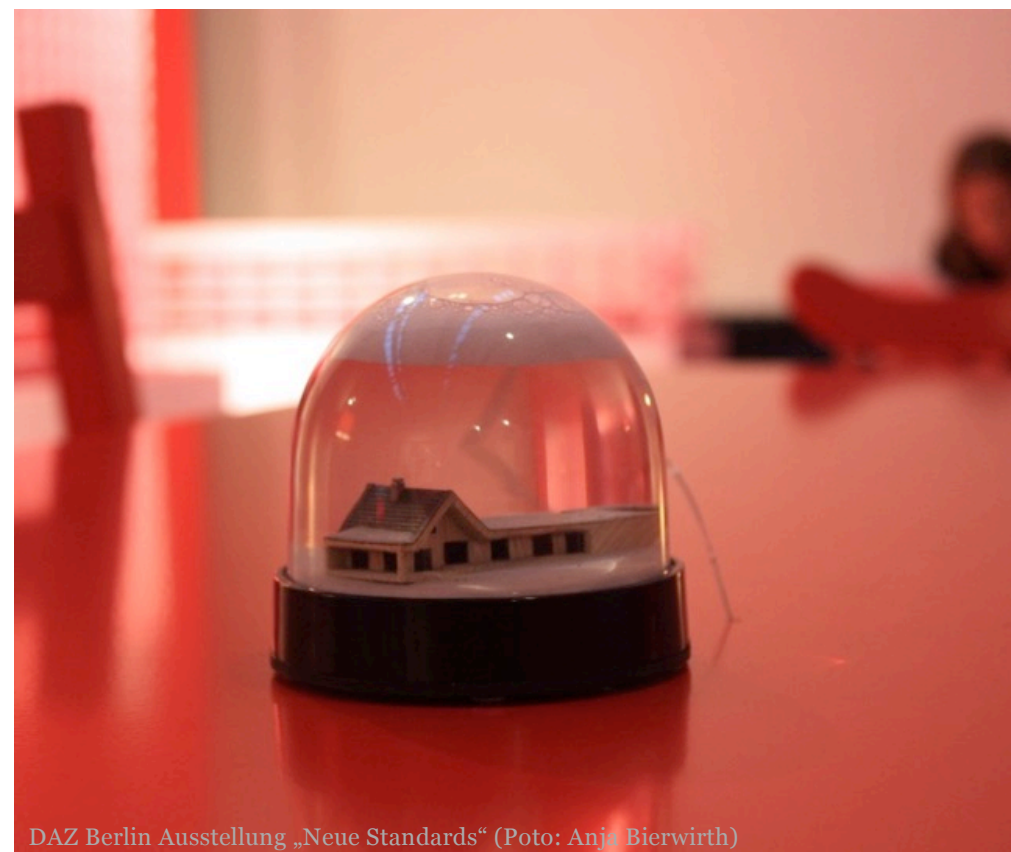
Energy demand for space heating
(kWh per capita and year)



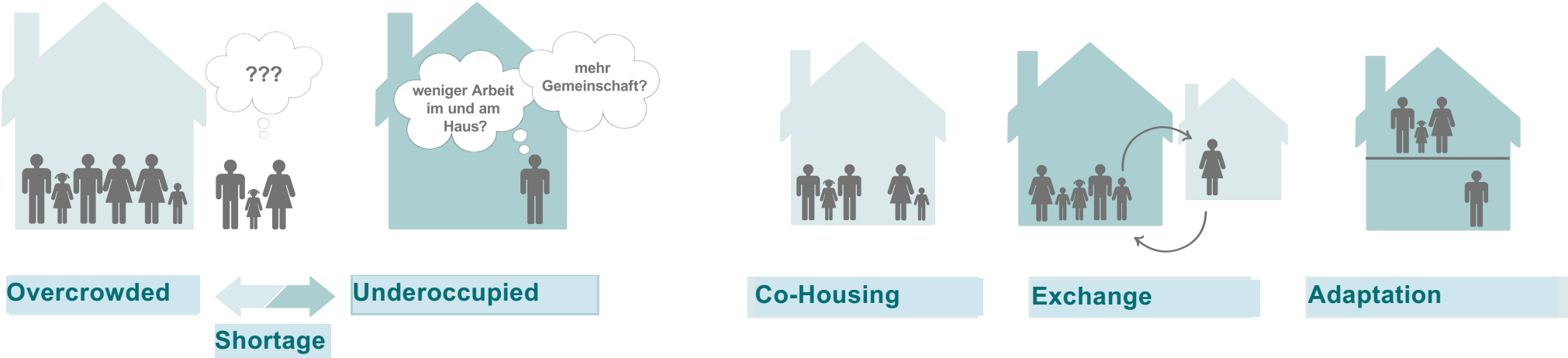
Satisfaction with housing



Satisfaction with housing



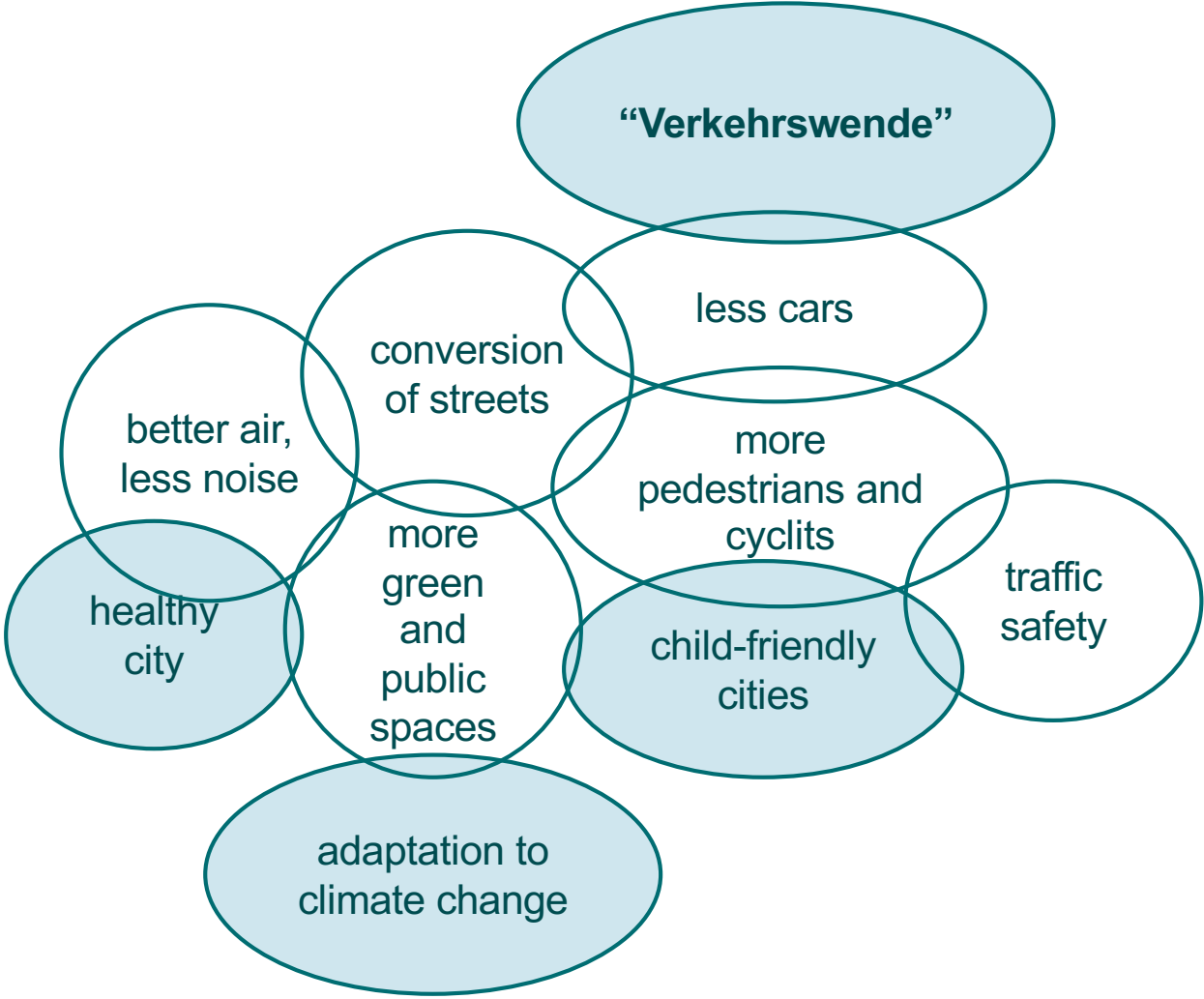
Making better use of living space



Sufficiency in urban development



Synergies of sufficiency



Anja Bierwirth | anja.bierwirth@wupperinst.org

Thank you
for your attention!

For further information see
www.wupperinst.org