



Copenhagen Lessons

10 principles to build on

Natalie Mossin
President of Congress



1.

Dignity and agency for all people is fundamental in architecture, there is no beauty in exclusion.



2.

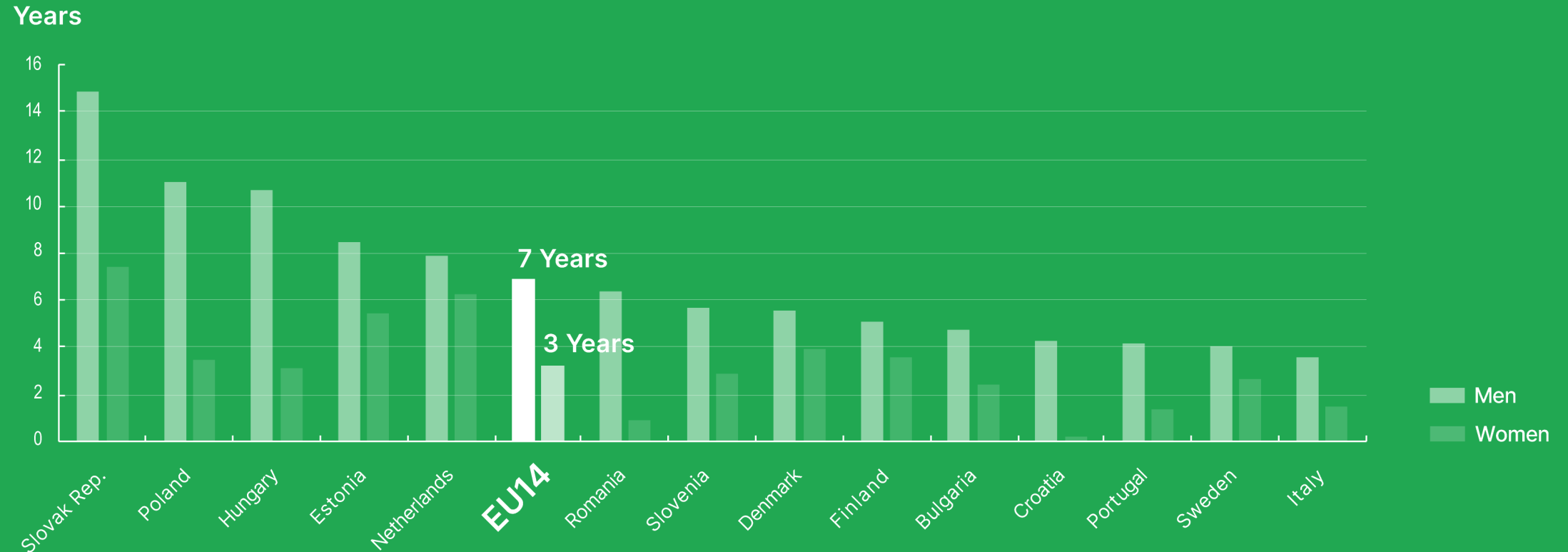
People at risk of being left behind must be accommodated first when we construct, plan, and develop the built environment.



Musholm Multi-Purpose Hall
Photo: Submarine

Inequalities in life expectancy

Gap in life expectancy at age 30 between people with the highest and lowest level of education, 2017 (or nearest year)

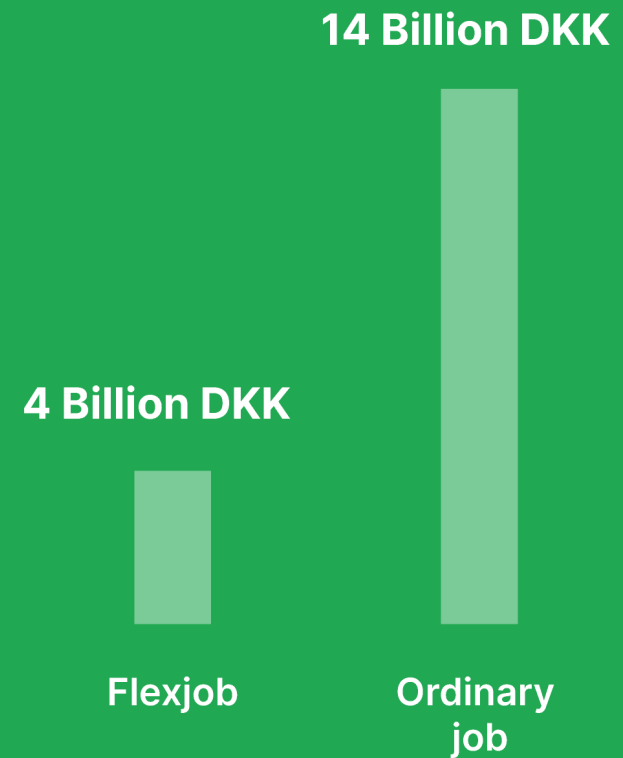


Description: Life expectancy measures the average number of remaining years of life for people at age 30 based on current mortality conditions. Education level is based on the ISCED 2011 classification. The lowest education level refers to people who have not completed their secondary education (ISCED 2011 0-2). The highest education level refers to people who have completed a tertiary education (ISCED 2011 5-8).

Note: The EU average is unweighted.

Source: Eurostat Database, complemented with data from Statistics Netherlands for the Netherlands by the OECD

**Societal gain by moving
1 % of individuals
with disabilities in Denmark
from early retirement to a job
(in DKK over 10 years)**

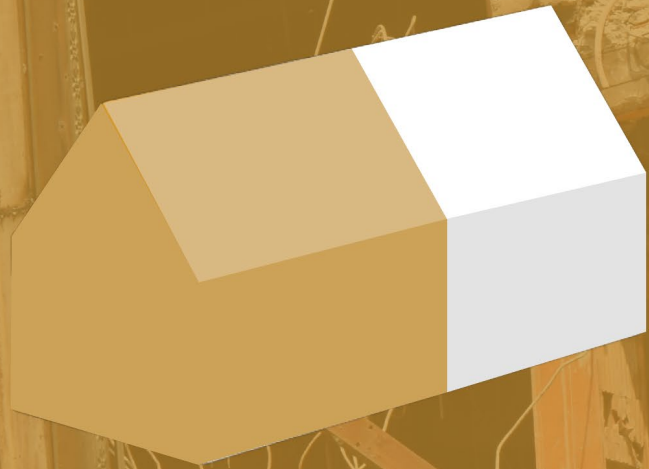


Source: COWI. (2021). Samfundsøkonomiske gevinster ved flere personer med handicap i beskæftigelse.

3.

Existing built structures must always be reused first.

Lifespan of residential buildings



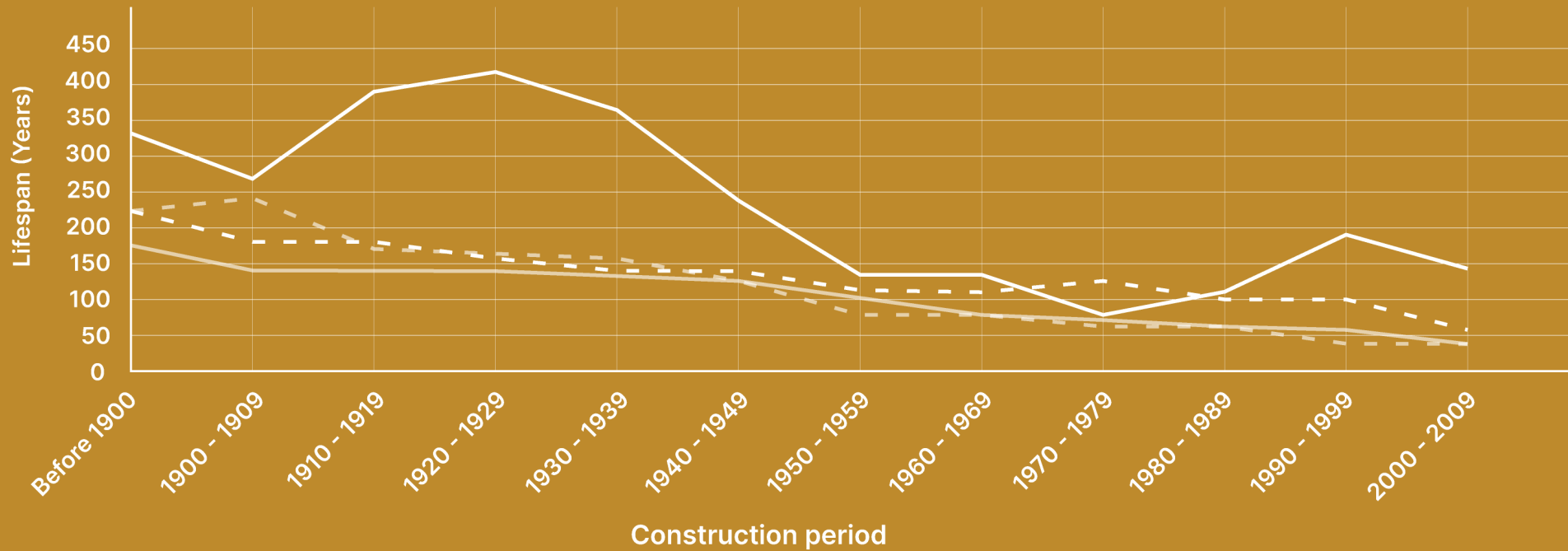
Demolition
after 67 years

Calculated
lifespan 120 years

Only 56% of calculated lifespan used

Source: Østergaard et.al, (2018). Data Driven Quantification of the Temporal Scope of Building LCAs. Procedia CIRP. Volume 69.

GLF Predicted lifespan of buildings based on construction period



Single family housing Multi-story buildings Agricultural buildings Office buildings

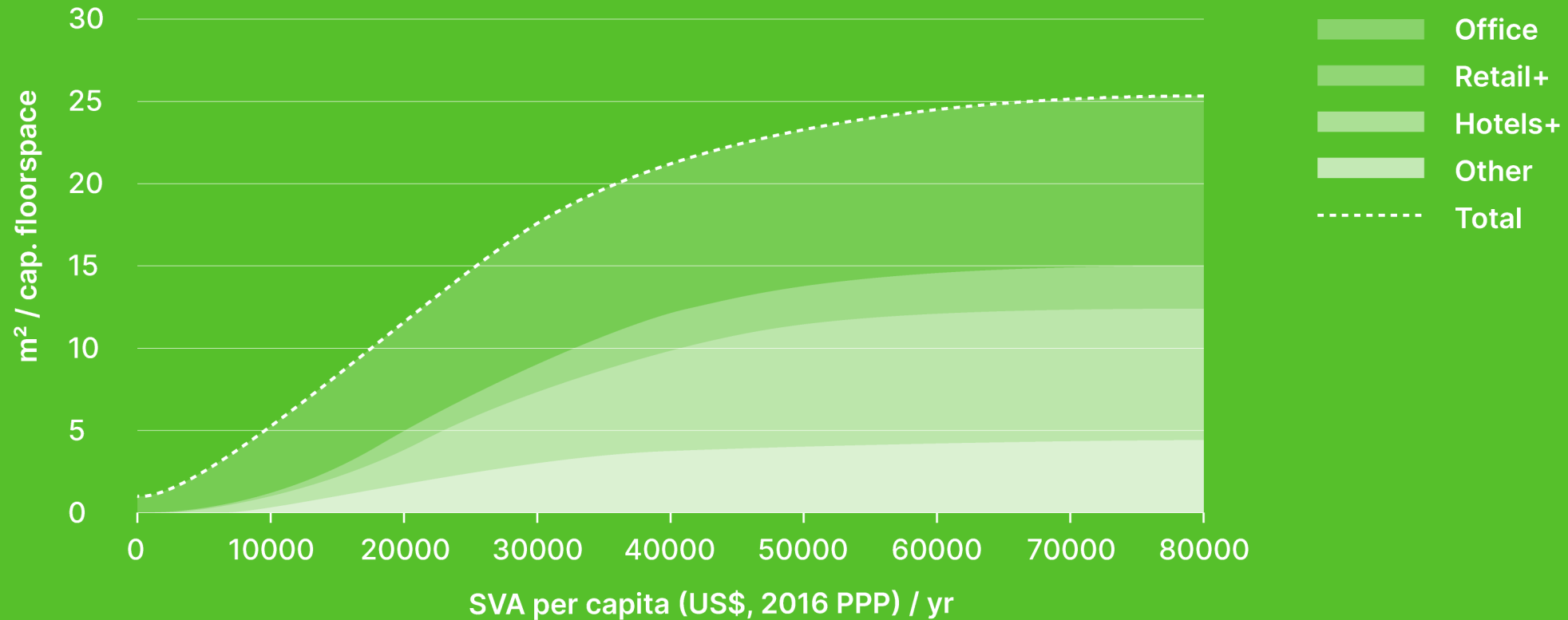
Source: Andersen, A., Negendahl, K. (2023).
Lifespan prediction of existing building typologies.
Journal of Building Engineering.

4.

No new development must
erase green fields.

Floor space demand at different income levels

Service-related



Source: Deetman et al. (2020). Modelling global material stocks and flows for residential and service sector buildings towards 2050. Journal of Cleaner Production. Volume 245.

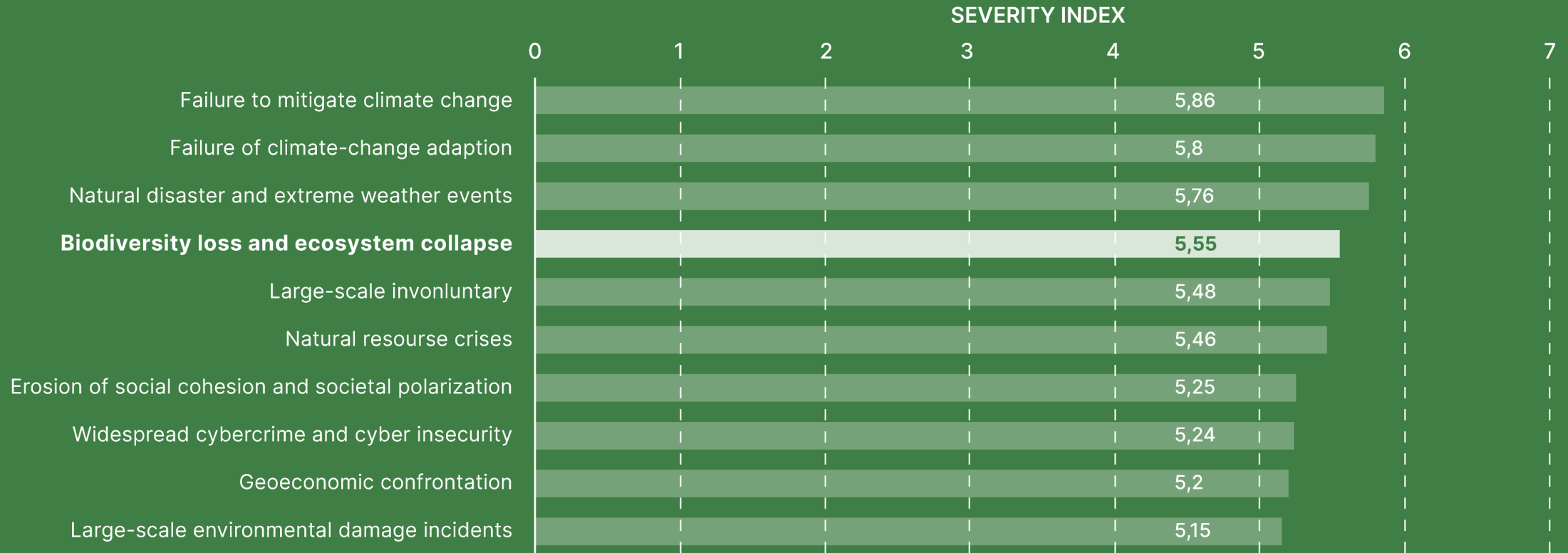
Description: Development of per capita service-related floor space stock at different levels of affluence (expressed as the per capita Service Value Added per year, in 2016 US dollars, at Purchasing Power Parity).

5.

Naturel ecosystems and food production must be sustained regardless of the built context.

Biggest perceived risks to global society as of 2022

By long-term severity



Description: Failure to mitigate climate change was ranked as the biggest risk to the world, based on a long-term severity index. Respondents around the globe gave the afore mentioned risk an average severity index of almost 5.9 points, being seven the score of highest severity and a score of one the lowest. Furthermore, biodiversity loss and ecosystem collapse got a score of 5.55 points, while natural disasters and extreme weather got 5.76 points.

Notes: Worldwide, 7 September to 5 October 2022; 999 respondents; Long term threats: 10 years scale* (1-low severity, 7 high severity)

Source(s): World Economic Forum

A large crowd of people, likely at a stadium or arena, is shown in the background. The image is overlaid with a semi-transparent green filter. In the center-left, there is a large white circle with a wedge-shaped section removed, resembling a pie chart. The text is positioned to the right of this circle.

**Around 2,3 Billion people or nearly 30%
of the Global population were moderately
or severely food insecure in 2021**

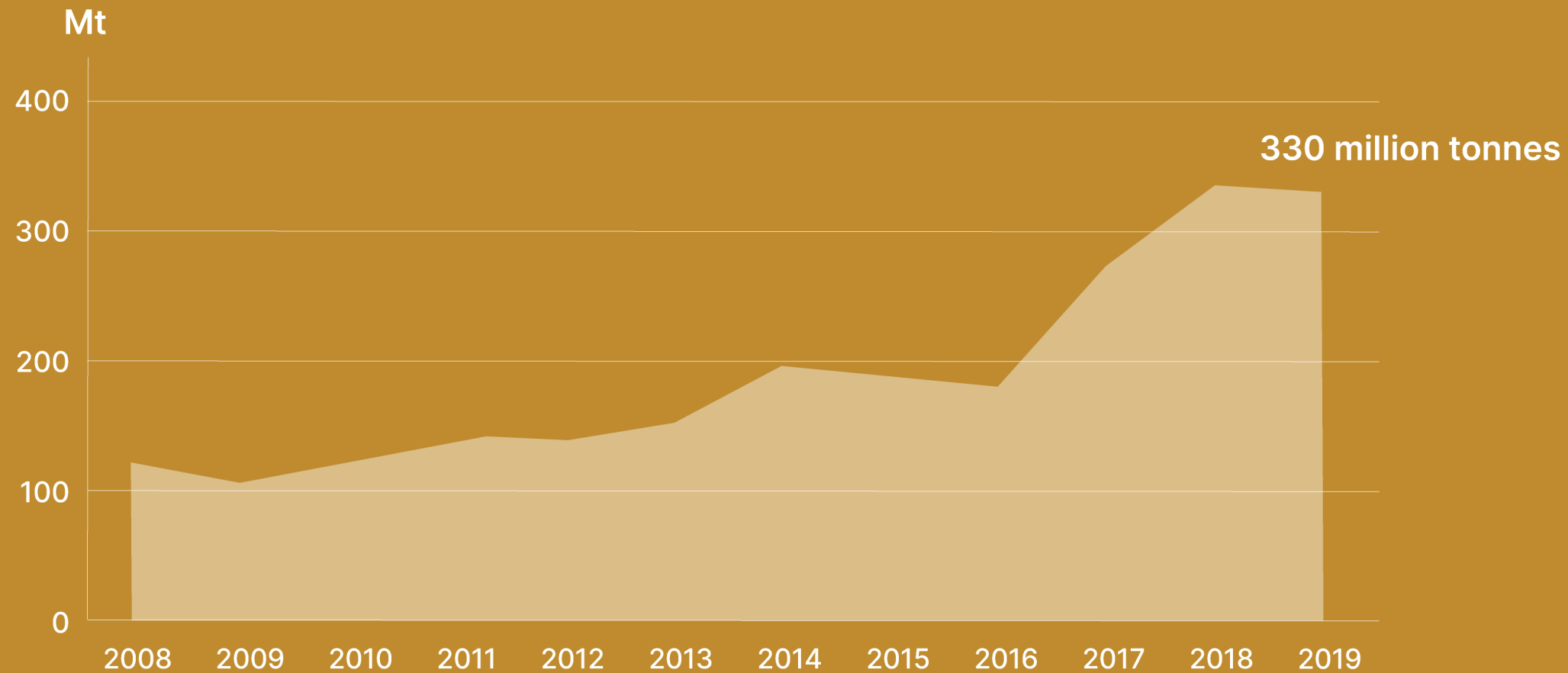
Source: FAO; IFAD; UNICEF; WFP; WHO. (2022).
The State of Food Security and Nutrition in the World (SOFI)

6.

No virgin mineral material must be used in construction when reuse is possible.

Demand for Sand

Global annual industrial sand and gravel extraction (in million tonnes)



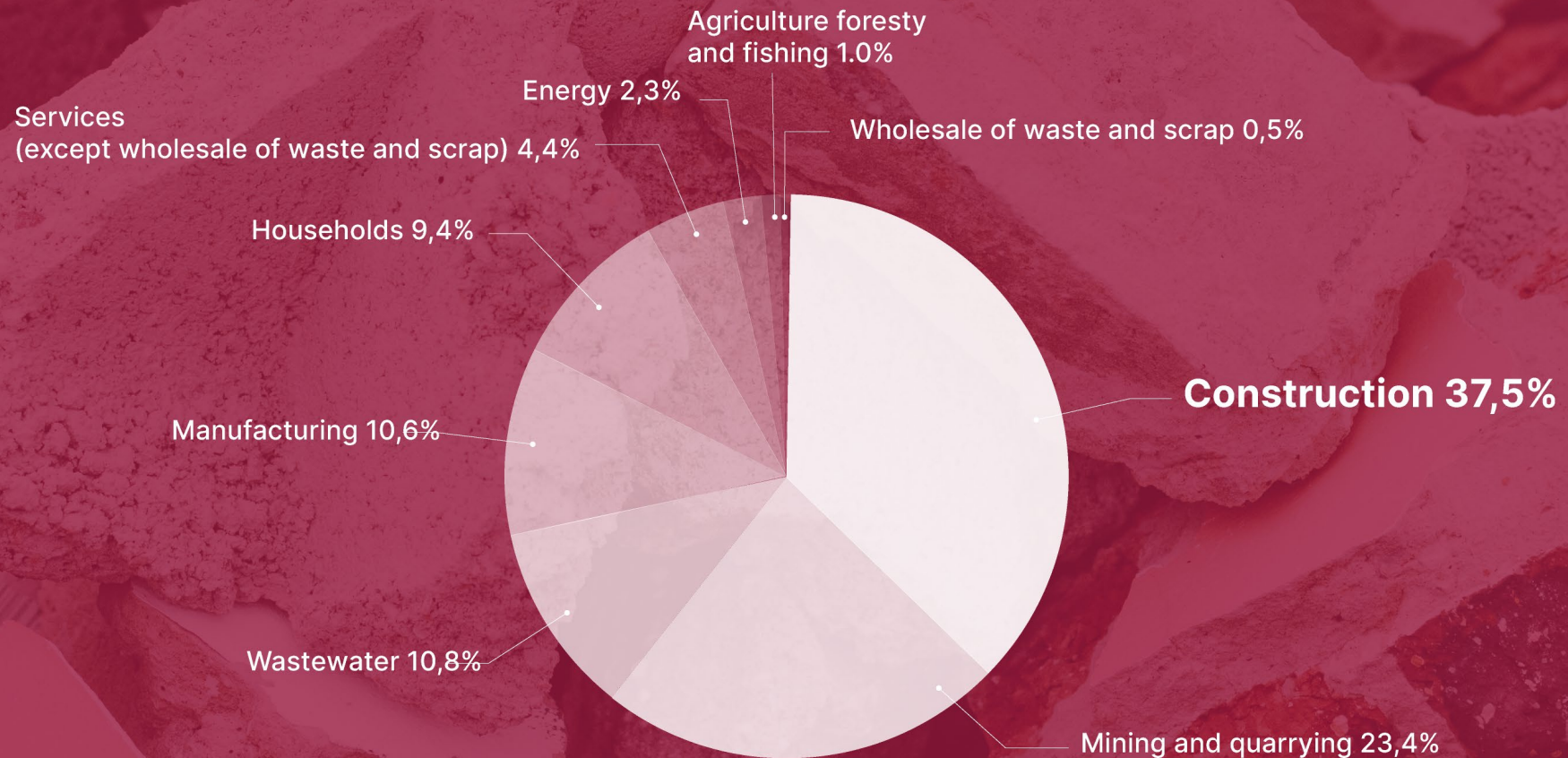
Source: United States Geological Survey (2019)

7.

No waste must be produced or left behind in construction.

Waste generation by economic activities and households, EU, 2020

(% share of total waste)



Source:
Eurostat
(online data code anv_wasgen)

8.

When sourcing materials for construction,
local renewable materials come first.

CO₂ emissions from transport (% of total fuel combustion)

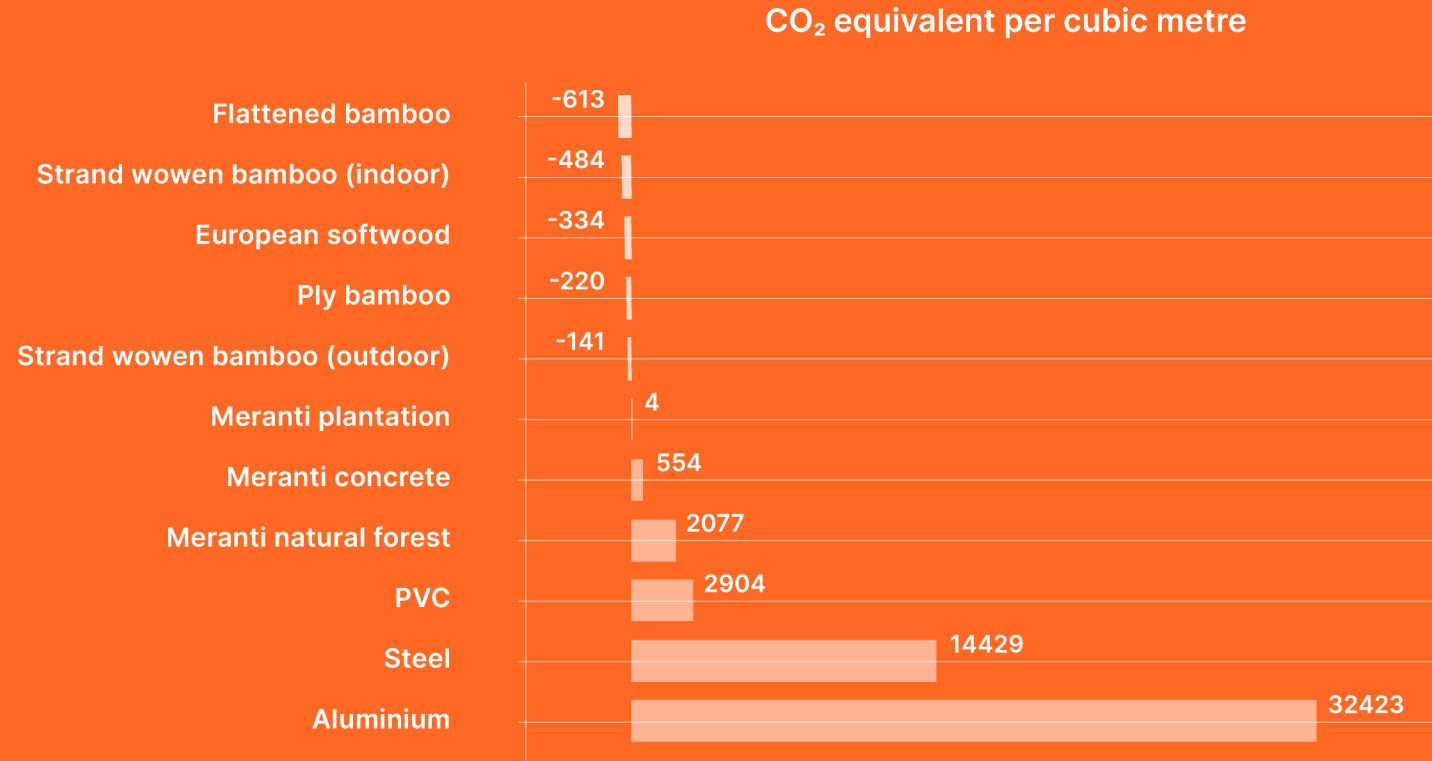


IEA Statistics © OECD/IEA 2014 (iea.org/stats/index.asp), subject to iea.org/t&c/termsandconditions
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Atelier Gando
Photo: Kéré Architecture

Lifecycle carbon footprint of common building materials

CO₂ equivalent per cubic metre

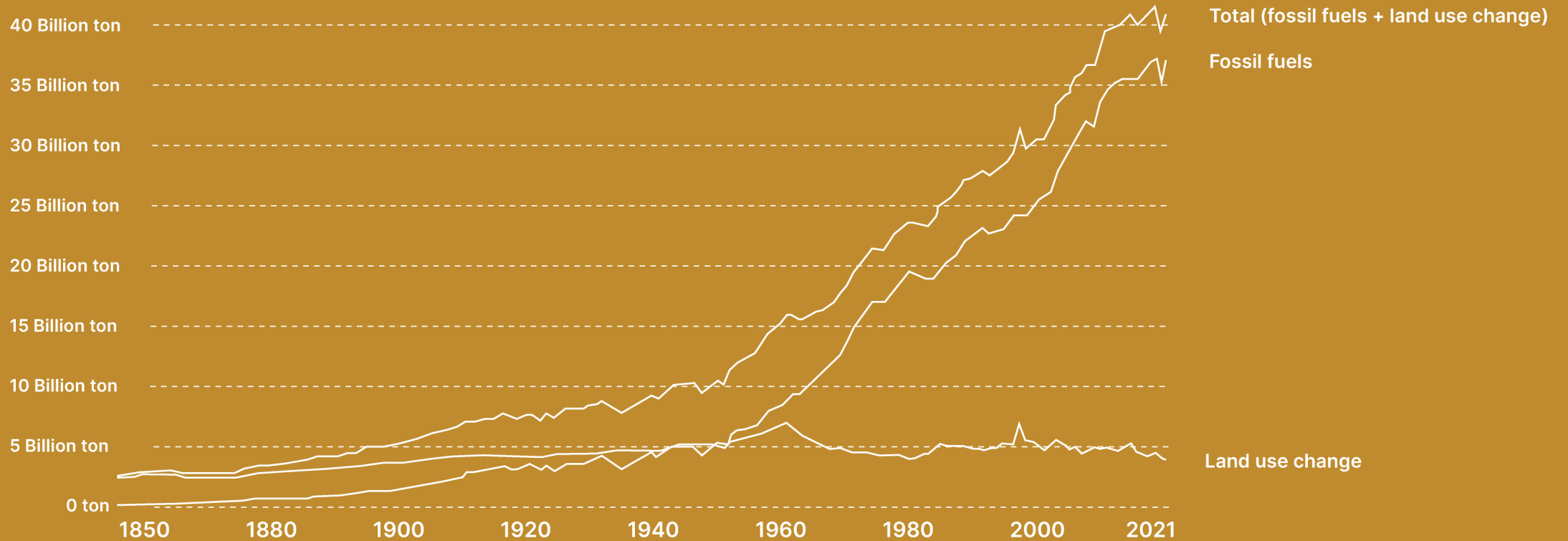


Data: Van der Lugt and Vogtländer (2015)

9.

In everything we build, carbon capture must exceed carbon footprint.

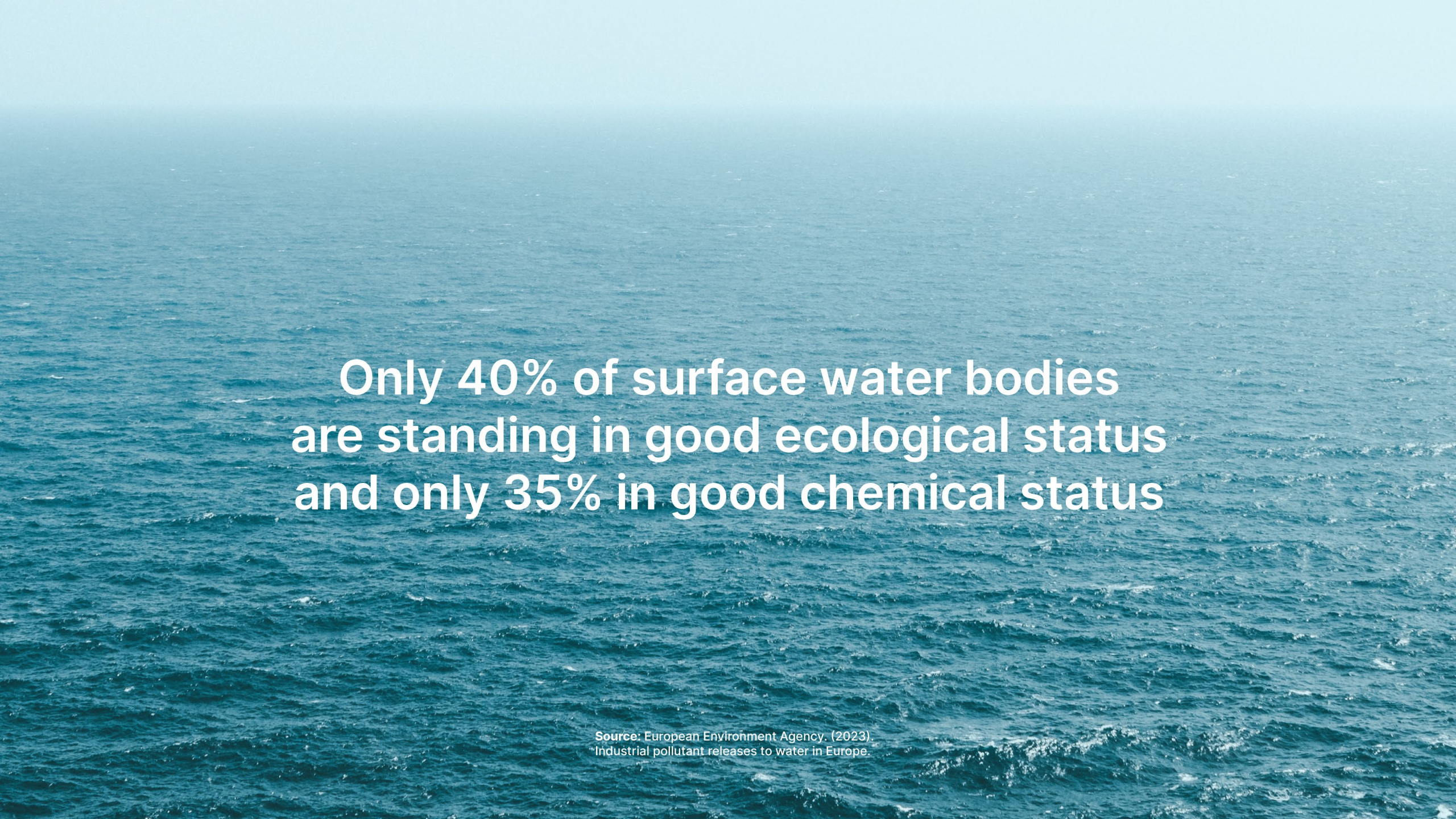
Global CO₂ emissions from fossil fuels and land use change (World)



Source: Our World in Data based on the Global Carbon Project (2023)
OurWorldInData.org/ Co2-and-greenhouse-gas-emissions • CC BY

10.

When developing, planning, and constructing the built environment, every activity must have a positive impact on water ecosystems and clean water supply.



**Only 40% of surface water bodies
are standing in good ecological status
and only 35% in good chemical status**

Source: European Environment Agency. (2023).
Industrial pollutant releases to water in Europe.

THERE IS NO
PLANET B



Like the people...

IN ORDER TO HAVE A MORE LIVABLE ENVIRONMENT,
THAT IS AFFORDABLE, HEALTHY, AND SECURE FOR THE FUTURE,
LEGISLATION MUST BE PASSED THAT HELPS ALL PEOPLE
AND THE PLANET TO THRIVE TOGETHER.

GREEN NEW DEAL

There
is
NO
PLANET
B



**Let's act now
and create the change
we need**

