



Environmental health inequalities in Europe launching the inequality fact sheet series

Gabriele Bolte

Department of Social Epidemiology Institute of Public Health and Nursing Research University of Bremen

Launch event 16.02.2022





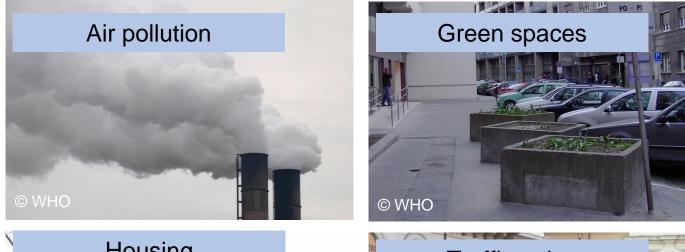
Environmental burden of disease







Environmental health risks: often socially unequal distributed











Recent reviews on environmental health inequalities

Open Access Review

! ! @

Social Inequalities in Exposure to Ambient Air Pollution: A Systematic Review in the WHO European Region

by **A** Jonathan Fairburn, **A** Steffen Andreas Schüle, **A** Stefanie Dreger, **A** Lisa Karla Hilz and **A** Gabriele Bolte

Open Access Review

e

Social Inequalities in Environmental Noise Exposure: A Review of Evidence in the WHO European Region

by 😵 Stefanie Dreger, 🙎 Steffen Andreas Schüle, 😤 Lisa Karla Hilz and 😫 Gabriele Bolte

Open Access Review

= ! @

Social Inequalities in Environmental Resources of Green and Blue Spaces: A Review of Evidence in the WHO European Region

by **A** Steffen Andreas Schüle, **A** Lisa Karla Hilz, **A** Stefanie Dreger and **A** Gabriele Bolte

Open Access Review

H

Environmental Justice in Industrially Contaminated Sites. A Review of Scientific Evidence in the WHO European Region

by 😫 Roberto Pasetto, 😫 Benedetta Mattioli and 😫 Daniela Marsili

Open Access Review

. 1

Are There Changes in Inequalities in Injuries? A Review of Evidence in the WHO European Region

by 🍘 Mathilde Sengoelge, 🙎 Merel Leithaus, 🙎 Matthias Braubach and 🙁

Special Issue 2019: Achieving Environmental Health Equity: Great Expectations

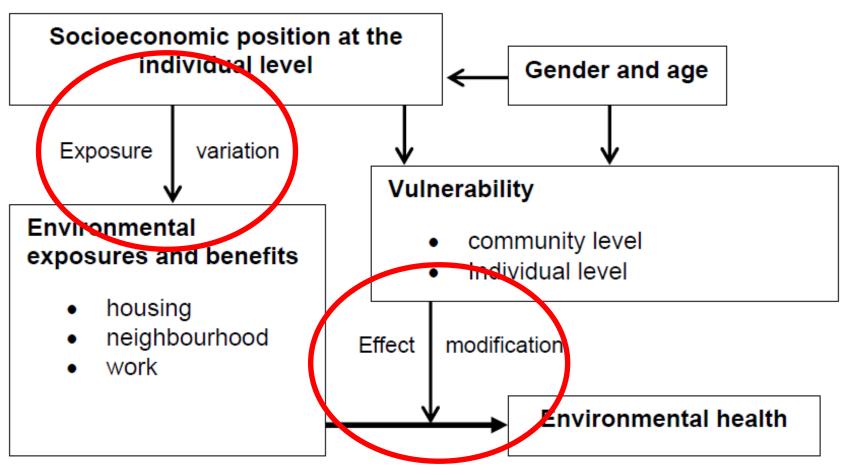
International Journal of Environmental Research and Public Health





Social inequalities in environmental health

Macroeconomic context: social disparities and stratification







Environmental health equity

United Nations Human Rights Council 2021

Recognition of having a clean, health and sustainable environment as a human right

6th Ministerial Conference on Environment and Health, Ostrava 2017

- > Equity as a cross-cutting dimension:
 - "Any action should consider the distribution of impacts across the population and avoid equity-related side effects"
 - [Annex II compendium of actions]







Equity aspects in the WHO European Programme of Work and in the SDGs Both the WHO European Programme of Work and the Sustainable Development Agenda are based on a "leaving no one behind" approach to make sure that their implementation benefits everyone, and tackles existing inequalities.





ЕВРОПЕЙСКАЯ

СОВМЕСТНЫЕ ДЕЙСТВИЯ ДЛЯ

2020-2025 гг.

ПРОГРАММА РАБОТЫ НА



3

WHO Collaborating Centre for Environmental Health Inequalities



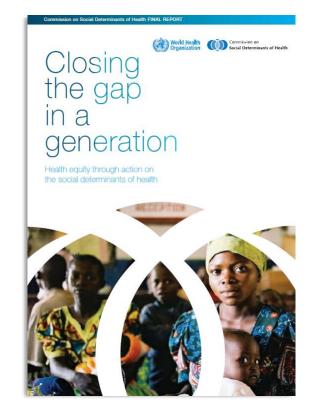
Tackling health inequalities

Improve Daily Living Conditions

Tackle the Inequitable Distribution of Power, Money, and Resources

Measure and Understand the Problem and Assess the Impact of Action

National and global health equity surveillance systems for routine monitoring of health inequity and the social determinants of health

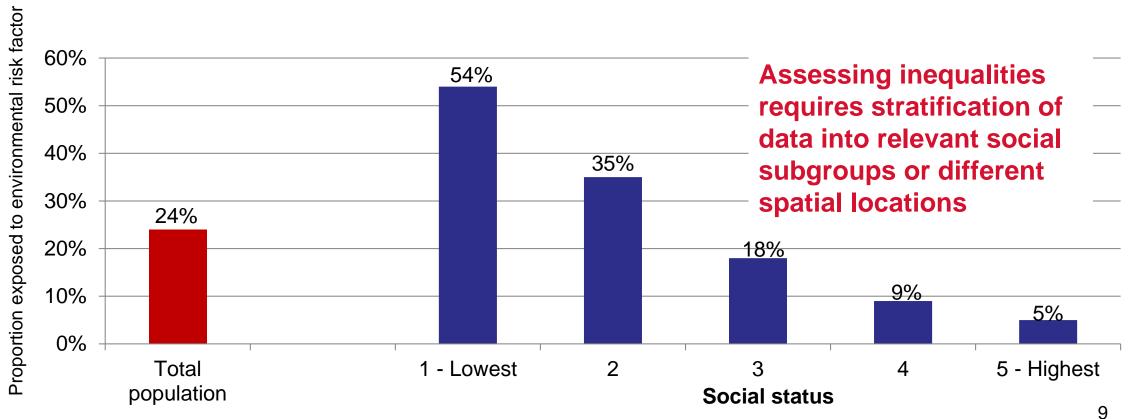


[WHO/CSDH 2008]





Monitoring environmental health inequalities



Exposure to environmental risks can be very different within a population





Monitoring of environmental health inequalities: Assessment Reports of WHO and new fact sheet series





Monitoring of environmental health inequalities: Objectives of the fact sheet series

Establish an evidence base on environmental health inequalities in Europe by:

- quantifying the magnitude of environmental health inequalities within countries in the WHO European Region, using international databases;
- assessing the recent trends of social inequalities in environmental exposures or environmental health outcomes;
- identifying

Universität

Bremen

- the most significant inequalities,
- the most affected population groups

for follow-up at the national or local level and to enable informed decision-making







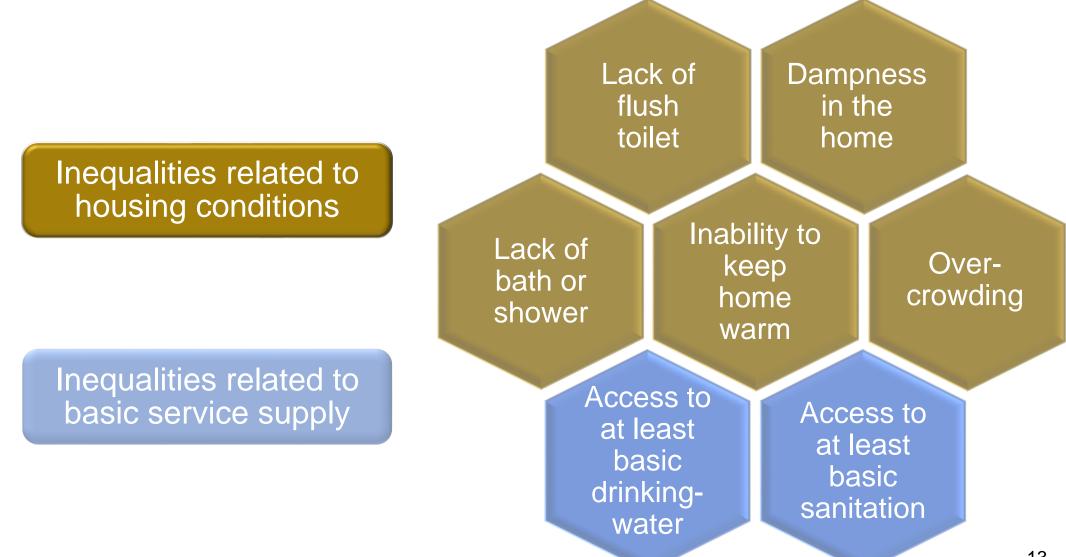
Coverage of the Environmental Health Inequalities Fact Sheet Series















14

Structure of the fact sheets



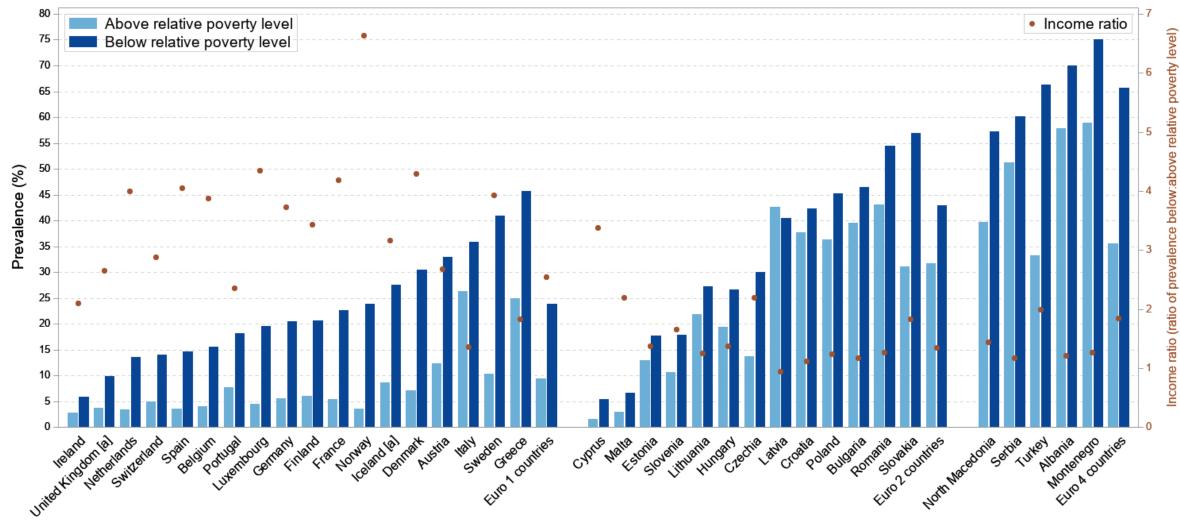


Absolute and relative inequalities:

Universität

Bremen

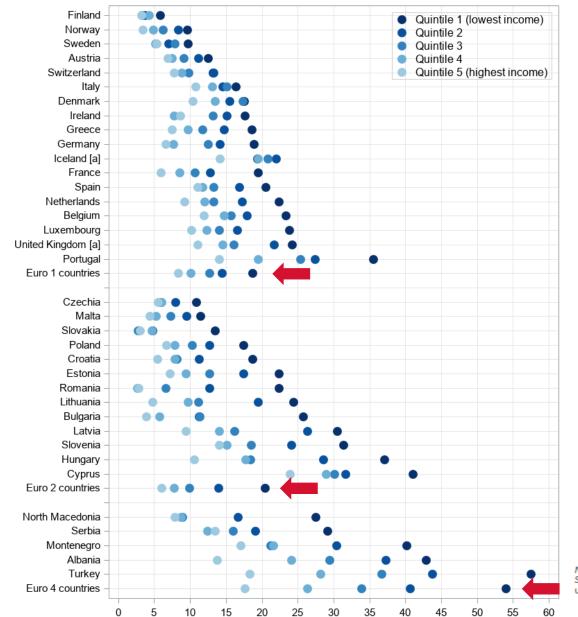
Prevalence of overcrowding by relative poverty level



Note: [a] latest available data for Iceland and United Kingdom from 2018; Source: Eurostat EU-SILC public access database (7) (latest update 1 July 2021).







Prevalence (%)

Social gradient:

Prevalence of dampness in the home by income quintile

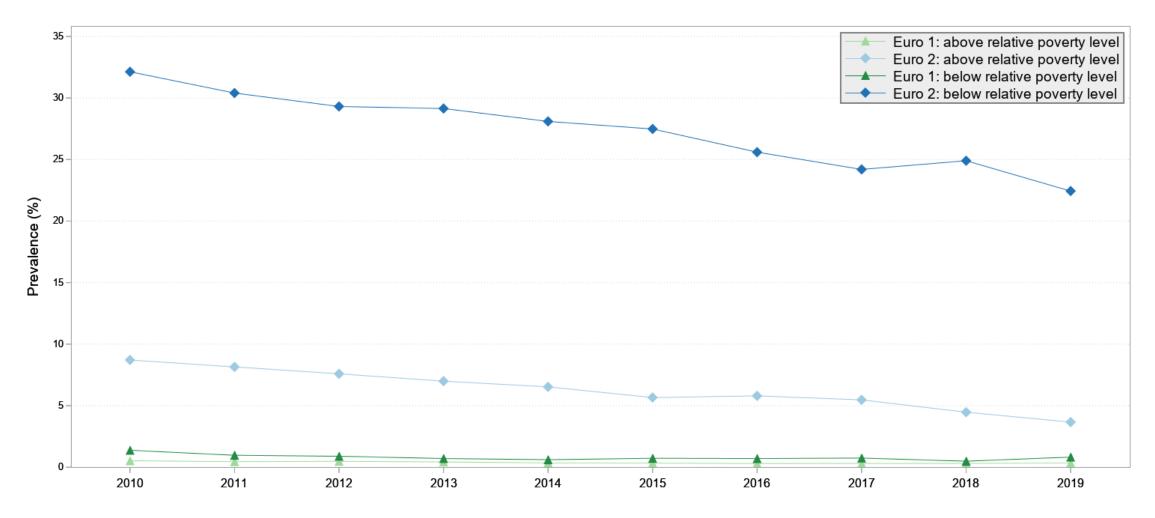






Time trend:

Prevalence of lack of a flush toilet in the dwelling by relative poverty level

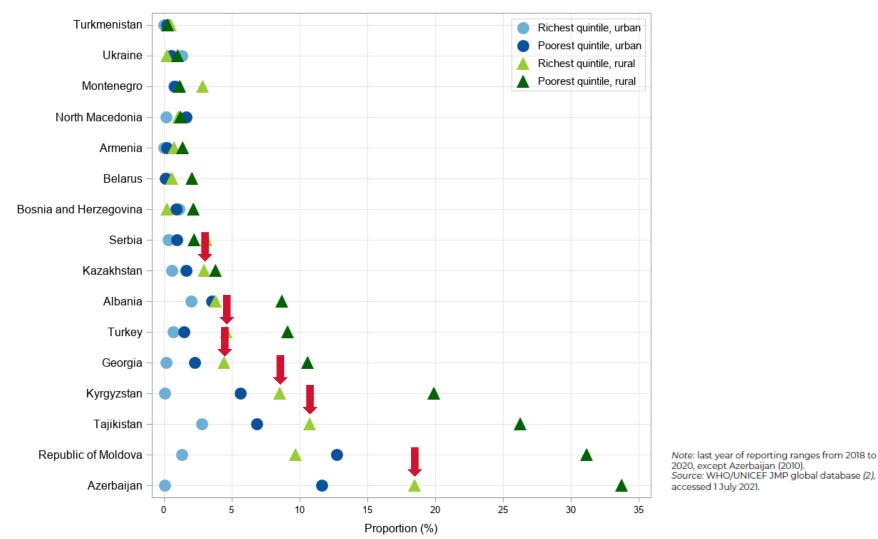


Notes: no Euro 4 data available; Euro1 figures for 2019 exclude Iceland and United Kingdom due to lack of data Source: Eurostat EU-SILC public access database (6) (latest update 1 July 2021).





Combination of material and spatial indicators: Proportion of urban and rural populations using less than basic drinking-water services by wealth quintile

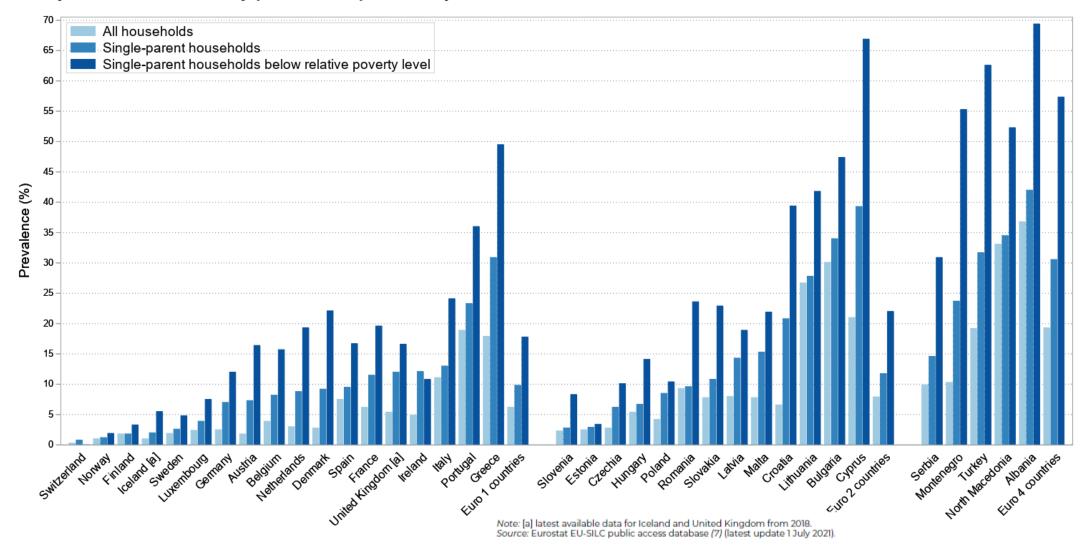


18





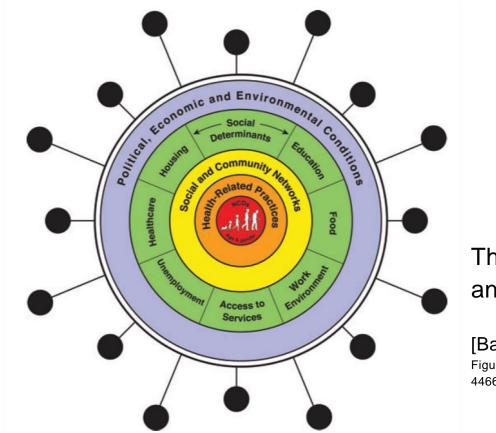
Combination of household type and poverty indicators: Prevalence of inability to keep the home adequately warm by household type and poverty level







Putting an equity lens on the COVID-19 pandemic: Relevance of environmental health inequalities



The syndemic of COVID-19 and the social determinants of health

[Bambra et al., J Epidemiol Community Health 2020] Figure: https://eprints.ncl.ac.uk/file_store/production/271416/AFFC564C-D2CF-4466-BE56-272E33F9132A.pdf





Relevance of environmental health inequalities during the COVID-19 pandemic

Measures to protect against infection	Inequalities in environmental health risks



Distance

Overcrowding



Hygiene

Lockdown or quarantine

Lack of a bath or shower, no access to at least basic drinking-water and sanitation services

Adverse housing conditions Low quality of the living environment





Evidence for action



Inequalities in lack of a flush toilet in the dwelling

Suggested mitigation actions are:

- · ensuring that all new residential buildings have a functional flush toilet in each dwelling;
- promoting public housing programmes that provide affordable housing (including social housing and affordat most vulnerable grout inequalities in inability to keep
- providing targeted fi housing with a flush
 the home adequately warm
- establishing national implementing target
- considering regulation amenities.

Suggested mitigation actions are:

- implementing effective financial mechanisms associated with, for example, fuel regulation, minimum wage enhancements and earned income tax credits to increase the accessibility and affordability of clean energy for poor households and to alleviate energy poverty;
- providing financial support mechanisms such as social tariffs or heating grants targeting specific household types that disproportionately demonstrate inability to maintain warmth in the home, such as low-income or single-parent homes;
- enhancing investment in energy-efficient housing specifically targeting improvement of housing stock segments with inadequate heating and insulation characteristics, and enabling residents to remain in their homes despite potential rent increases;
- requiring landlords and building owners to upgrade existing housing to minimum heating and insulation standards, and making these standards known to residents;
- introducing social tariffs for energy supply and considering a legal ban on disconnecting households from energy supply in the case of payment arrears.





Key messages





Inequalities in exposure often remain / increase



Risk can be 10 times higher for disadvantaged Different inequality patterns require tailored action





Intersectoral action across all sectors is needed





Outlook

> Updating the environmental health inequality indicators regularly

> Developing new indicators (as evidence allows)

> Estimating the health impact of environmental inequalities





Thank you!

https://www.uni-bremen.de/en/who-collaborating-centre-for-environmental-health-inequalities/

Team: Gesa Czwikla, Stefanie Dreger, Pia Hasselder, Birgit Reineke

About WHO CC Activities Fact sheets Publications Events Members > **Q**

University of Bremen > WHO Collaborating Centre for Environmental Health Inequalities

WHO Collaborating Centre for Environmental Health Inequalities

