

# Input on the ELLIS-project from a federal climate adaptation perspective

ELLIS Final conference "Environmental Health Inequalities" (31/01/2025)  
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Santé publique  
Sécurité de la Chaîne alimentaire  
Environnement



Health  
Food Chain Safety  
Environment

# Introduction



GOAL: TO CONTRIBUTE TO FUTURE  
RESEARCH AND POLICY ON  
CLIMATE ADAPTATION



ELLIS-PROJECT: FOCUS OP  
"ENVIRONMENTAL HEALTH  
INEQUALITIES"



RELEVANCE FOR FEDERAL  
ADAPTATION MEASURES; NAP AND  
NEHAP 3

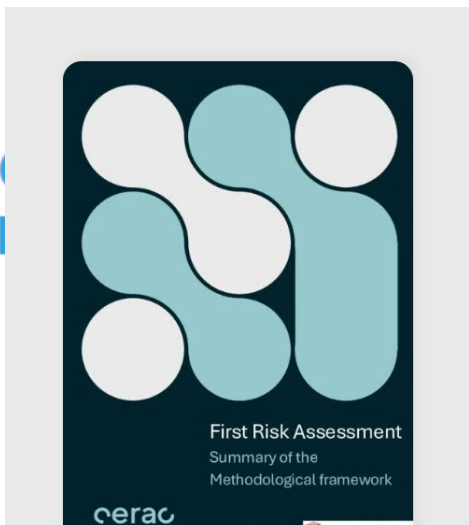
# EVALUATIE VAN DE SOCIO-ECONOMISCHE IMPACT VAN KLIMAATVERANDERING IN BELGIË

STUDIE IN OPDRACHT VAN DE NATIONALE KLIMAATCOMMISSIE

## Samenvatting voor beleidsmakers

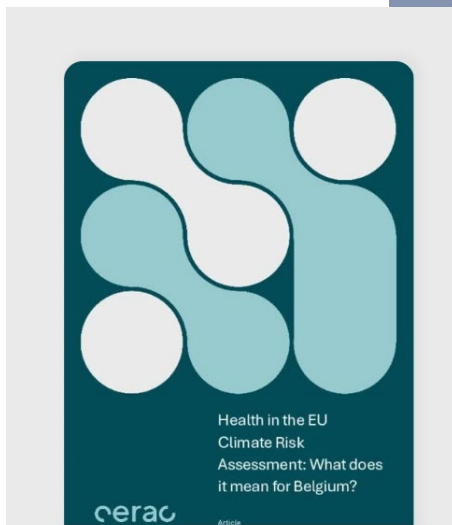
Koen De Ridder<sup>1</sup>, Koen Couderé<sup>2</sup>, Mathieu Depoorter<sup>3</sup>, Inge Liekens<sup>1</sup>, Xavier Pourria<sup>3</sup>, Steinmetz<sup>3</sup>, Eline Vanuytrecht<sup>1</sup>, Katelijne Verhaegen<sup>2</sup>, Hendrik Wouters<sup>1</sup>

<sup>1</sup> VITO  
<sup>2</sup> KENTER  
<sup>3</sup> ECORES  
 juli 2020



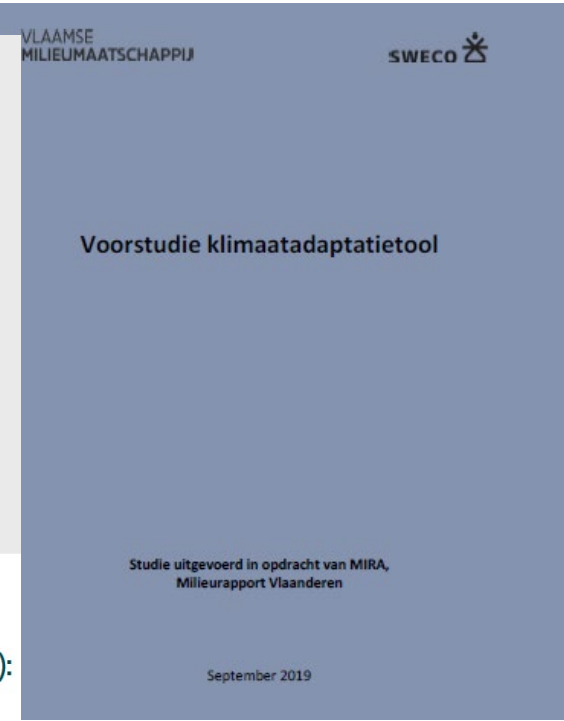
19 december 2024

Het methodologisch kader van het First Risk Assessment (FRA)



11 december 2024

Gezondheid als thema in de EU-klimaatrisicobeoordeling (EUCRA): Wat betekent dit voor België?



STUDY  
 Requested by the EMPL Committee



Policy instruments to tackle social inequalities related to climate change



Policy Department for Economic, Scientific and Quality of Life Policies  
 Directorate-General for Internal Policies  
 Author(s): Mariya GANCHEVA, Berkay ASBABA, Matthew GERACI, Vanessa LUDDEN, Ralitsa DONKOVA, Silvia BEGHELLI, Thomas NEUMANN, Francesca FINELLO, Anna-Maija LAINE



Diagnostic de vulnérabilités pour augmenter la résilience wallonne à travers l'adaptation aux changements climatiques

Vulnérabilité sociale

17/01/2025



# Adaptation on the Federal level

- Set of Federal adaptation measures 2023-2026 - *Towards a climate change resilient society by 2050*
  - 28 measures within 8 action domains
    - Research, Biodiversity, Infrastructure, product standards, **Public Health**, Risk and crisis management, International cooperation, and sensibilization.



# Adaptation on the National level

- **National Workgroup on Adaptation (Coordinated by the federal level):**
  - Works on the **National Adaptation Plan (NAP)**
  - Provides a **coherent framework** for integrated adaptation policy.
  - Introduces **new measures** to enhance synergy and cooperation between **federal and regional** authorities.
  - Focus on **knowledge exchange, coordination, research, and awareness raising**.
  - Measures are **complementary** to existing actions in different policy entities.
  - **NAP references NEHAP 3 (National Environment-Health Action Plan), as 5 out of 8 measures** relate to climate adaptation.
- + A forthcoming **National Adaptation Strategy (NAS)**



# What is the ELLIS-project?

Research on social inequalities in environmental burden of disease - <https://www.brain-ellis.be/>

E.g. Link between exposure to air pollution and health impact

Development of the Belgian Index of Multiple Deprivation (BIMD) - <https://bimd.sciensano.be>.

# Quantification of health impact

– very relevant for adaptation policy...



Importance of numbers  
and data in policy-making



Relevance within NEHAP 3  
and hospital emergency  
planning (measure 17 of [Federal set of  
Adaptation measures 2023-2026](#))



Higher exposure and  
health risks in vulnerable  
groups

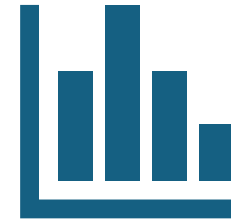
# Application within federal adaptation measures



Prevention and protection  
of climate-vulnerable  
populations



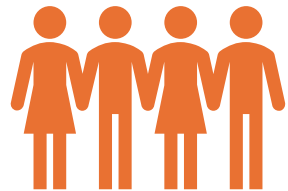
Integration into hospital  
emergency planning (heat,  
air pollution)



Data-driven policies



# Belgian Index of Multiple Deprivation (BIMD)



**What is BIMD? (indicator of social deprivation)**



**How can it help with climate adaptation?**

Identification of sensitive areas

Targeted measures

Supporting policy priorities

# Three major challenges for national policy



## Coordinated cooperation between federal and regional authorities

Environmental policy is mostly regionalized, health care partly federal

Solution: Interfederal collaboration (e.g. via NEHAP 3) and shared data tools such as BIMD



## Data access and harmonisation across regions

Different regions use their own measurement methods

Solution: ELLIS methodology can standardize and connect datasets to BIMD



## Targeted policy implementation at the local level

Different vulnerabilities per region (urban air pollution vs. flood risks)

Solution: Geospatial analyses of ELLIS help to develop locally adapted measures

# Further applications of the ELLIS methodology



Extension to heat waves, floods, combinations of stressors?



Contribution to evaluation and/or optimisation of existing adaptation measures ?



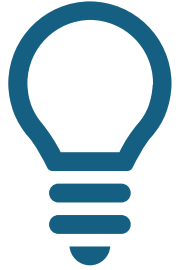
Possible collaboration between researchers and policymakers to integrate health inequalities and exposure differences – e.g. crisis and hospital emergency planning for climate extremes:

- Risk Mapping and vulnerability assessments;
- Early Warning systems and targeted communications;
  - Tailored Heat and disaster action plans;

....

...Necessitates cross-sectoral collaboration

# Conclusion



Summary of the insights discussed



Importance of scientific data in climate adaptation policy



Which research questions need to be investigated further?

# Discussion and questions?



Open to input and suggestions



How can we further leverage ELLIS in policymaking?



Thank you for your attention!

Thank you

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<https://klimaat.be/news/2023/federale-adaptatiemaatregelen>

[climat.be/](https://climat.be/)

[klimaat.be/](https://klimaat.be/)



[www.climatechange.be](https://www.climatechange.be)



Federal Climate Change Department (Belgium)