

# Keynote POWER UP Final Event



Dr. Adeline Otto

27 November 2025, Brussels



# Eco-social risks: Direct & Indirect

## Direct (disaster, extreme weather)

- Economic impacts (asset destruction, income loss, poverty)
- Health risks (injuries, heat illnesses, respiratory diseases)
- Infrastructural damage
- Cascading effect (infrastructure, logistics, recession, inflation, migration...)

## Indirect (policies)

- Economic impacts (asset or skills devaluation, job loss, poverty)
- Maladaptation (unequal adaptation, limited insurance)



# Eco-social risks – risk factors

$$\text{Risk} = \text{Threat} \times \text{Exposure} \times \text{Vulnerability}$$

## Environmental problems

- Deforestation
- Loss of biodiversity

## Biophysical impact of climate change

- Direct (temp...)
- Indirect (drought...)

## Contextual aspects (macro/meso level)

- **Location** (variation in threat, exposure, impact)
- **System aspects** (pol + econ system)
- **Dynamic aspects** (e.g. demography)
- **Public policy & institutions** (e.g. climate & social policies, critical infrastructure and services, alerting systems, **energy systems**)
- Existing levels of socio-economic inequalities

## Diverse vulnerability factors (micro level)

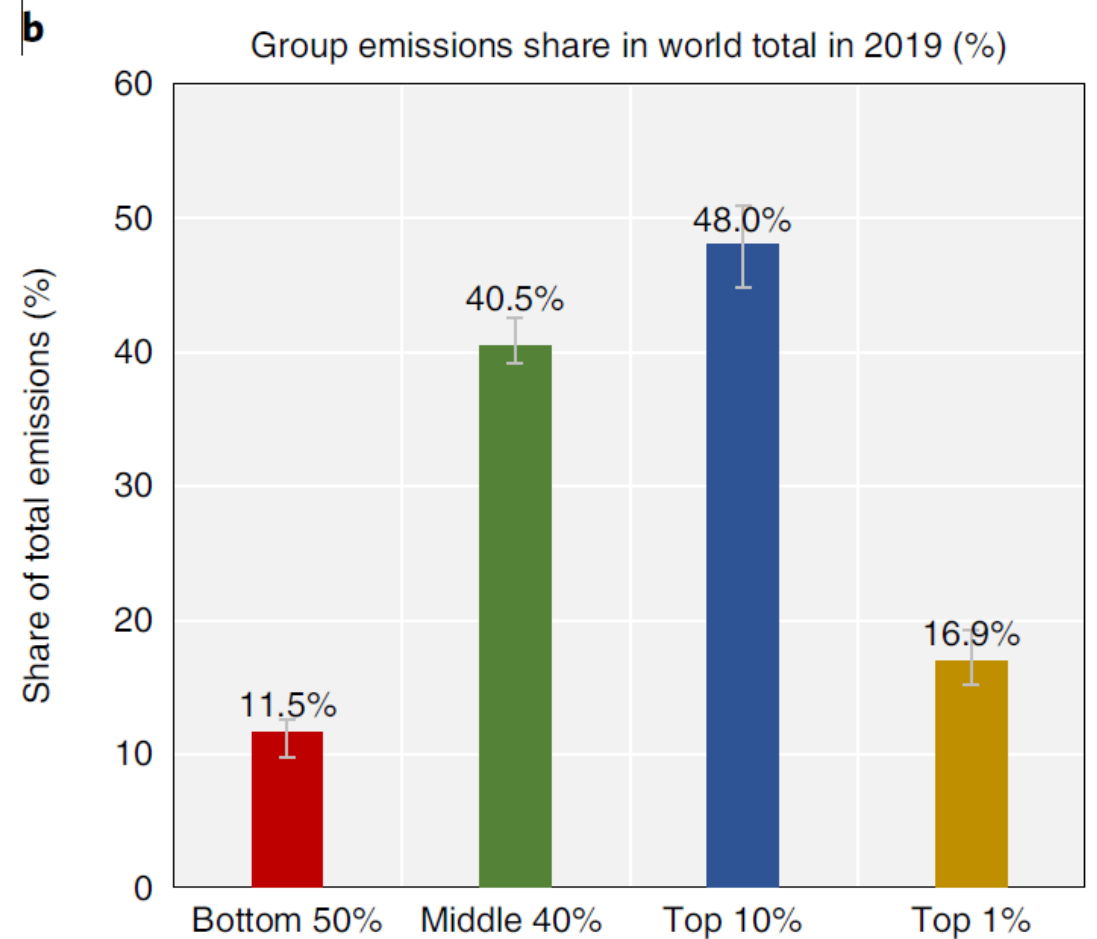
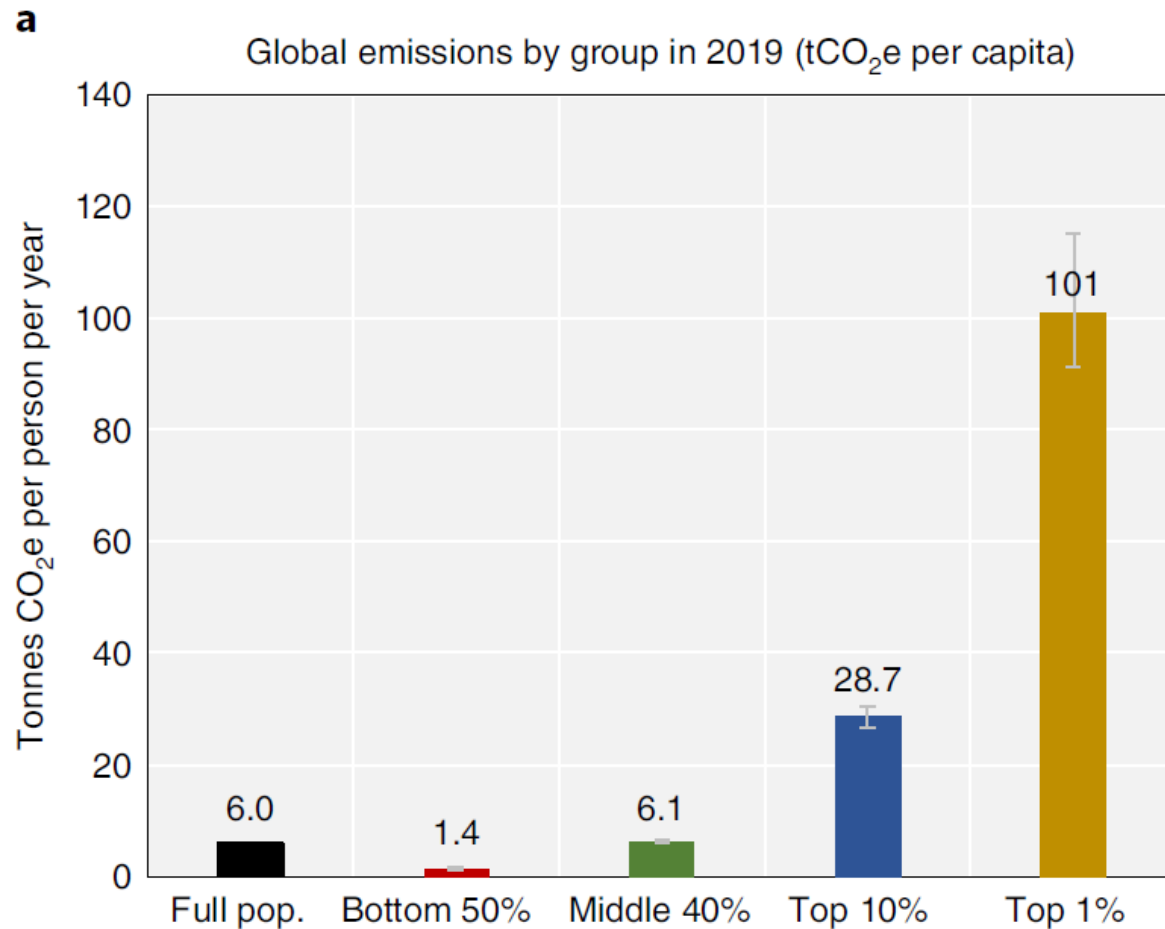
- Income
- Physical condition (objective and subjective) & sensitivity
- Language proficiency
- Social network & capital
- Ethnicity & Culture
- Gender
- Household composition
- Property (real estate)
- Age...
- **Energy affordability & access**

# Climate injustices?

	Rich & privileged	Poor, disadvantaged & socially vulnerable; Future generations
1. Responsibility	↑	↓
2. Adaptive capacity		
3. Influence on policymaking		
4. Impacts	↓	↑
5. Cost of mitigation		

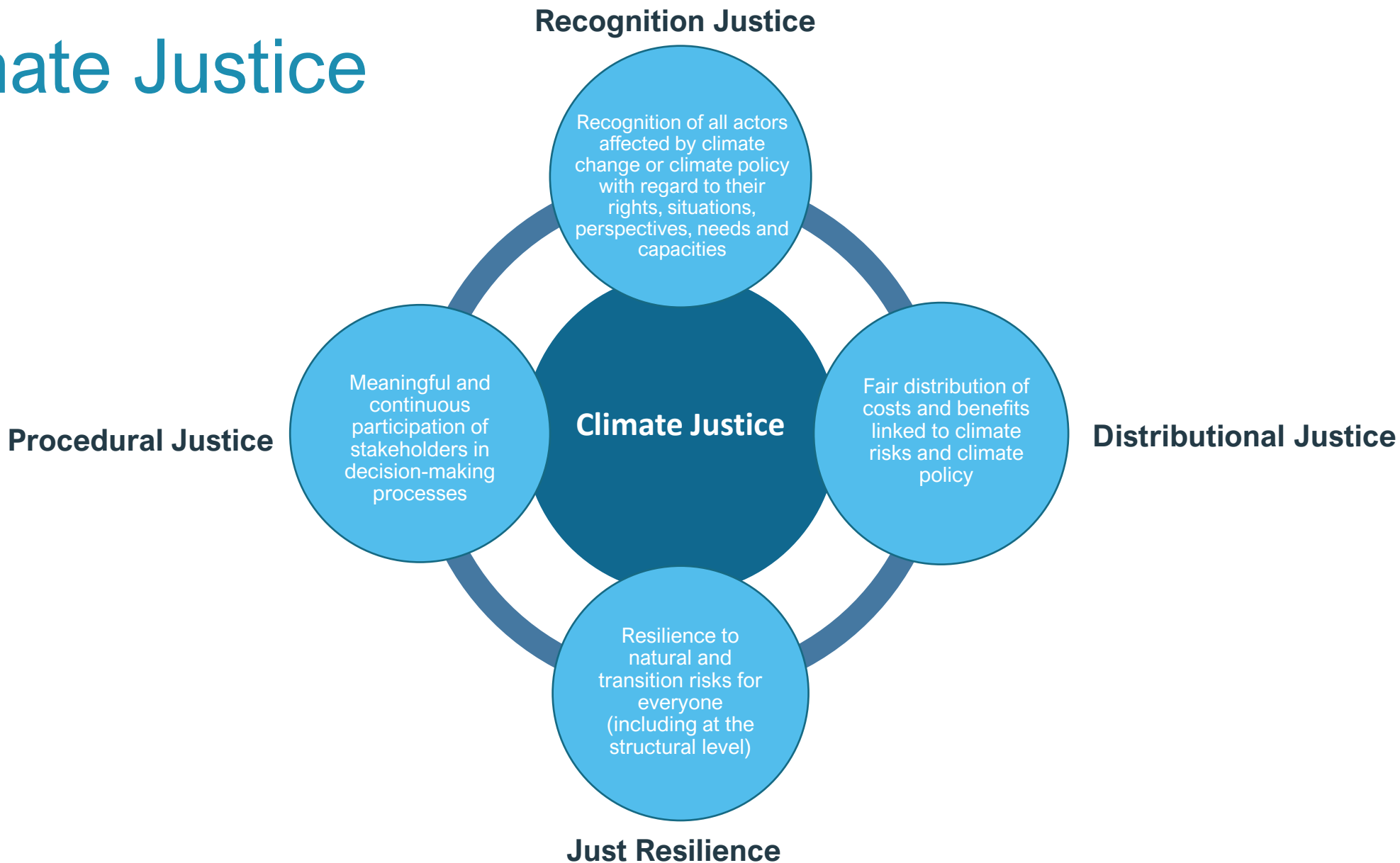


# Responsibility: rich, richer, CO2-emitter?



Bron: Chancel, 2022.

# Climate Justice



Source: based on Fransolet & Vanhille, 2023

# What is a just distribution of the costs and benefits of climate protection?



# Why do you think we need climate justice?



# Climate action & Social Equity: Two Sides of the Same Coin

ASPECT	RISKS WITHOUT EQUITY	BENEFITS WITH EQUITY
<b>Economic Impact</b>	Lower productivity, reduced tax revenues, financial instability	Stronger resilience, sustainable growth
<b>Social Stability</b>	Loss of cohesion, unrest, political instability	Enhanced cohesion, long-term prosperity
<b>Health &amp; Education</b>	Poorer health, lower life expectancy, fewer opportunities	Improved health outcomes, better education access
<b>Climate Action</b>	Ineffective adaptation and mitigation	More effective, inclusive measures (IPCC, 2022)

# Barriers at the macro level

- **Lack of legal frameworks or guidelines :**
  - no binding legal obligation to ensure fairness in climate action
  - no fixed benchmark in policy
- **Structural incapacity:** lack of data, knowledge, resources & staff
  - Insufficiently detailed and accessible data on ecological and social risk factors
  - Insufficient knowledge about how to approach justice in climate policies
- **Policy framework and approach:** discrepancy between policy approach and emphasis on individual responsibility; individual rather than structural and collective solutions

# Barriers at the meso level

- **Governance problems:**
  - Compartmentalised policy structures; lack of an integrated approach
  - Participation often instrumental and symbolic (tokenism)
  - Insufficient institutionalised dialogue with all stakeholders; strong focus on scientific or technological expertise
- **Interest representation:** often in traditional structures and power relations of the work-welfare nexus
- **Unequal access to funding and resources for civil society:** Grassroots organisations often lack the capacity to get involved

# Barriers at the micro level

- **Unequal access to policy development:** knowledge, skills, self-confidence.
- **Lack of trust in public institutions:** historical exclusion leads to scepticism
- **Cultural conflict:** climate change is distributional AND cultural conflict
  - modernisation sometimes no longer perceived as beneficial; experiences or perceptions of devaluation vs privilege,
  - overlap of various inequalities and vulnerabilities
- **Diversity in perceptions and attitudes :**
  - Different preferences regarding infrastructural decarbonisation & compensatory measures
  - Diversity in value and norms frameworks
- **Political credibility:** citizens may feel disillusioned or disengaged, especially if they perceive climate measures as unfairly distributed or not effective

# Ways forward?

It's not  
magic!



1. **Explicitly include climate justice** into climate policies

2. Focus on **institutional cooperation and policy integration**

3. Promote narratives and policies stressing **mutuality, collective interest and the common good**



4. Encourage & facilitate **genuine, inclusive and continuous participation**

5. Focus on local, holistic and fully integrated projects that **combine different policy objectives**

6. Address energy poverty and empower communities



7. Recognise & respond to **differences in social vulnerabilities**

8. Combine **individual & collective-oriented, universal & targeted policies**

9. Combine energy **efficiency programmes and inclusive renewable energy schemes**

This is where your activities and research findings have a role to play!

Questions?

Contact?

[adeline.otto@kuleuven.be](mailto:adeline.otto@kuleuven.be)