17th International Conference of Young Researchers in Psychology 17ème Journée scientifique des Jeunes Chercheurs en Psychologie



Carbon footprint in Academia: between imperatives of academic excellence and imperatives of attenuating climate change

Claudia Teran-Escobar Post-doctoral researcher in the Institute of Environmental Geosciences

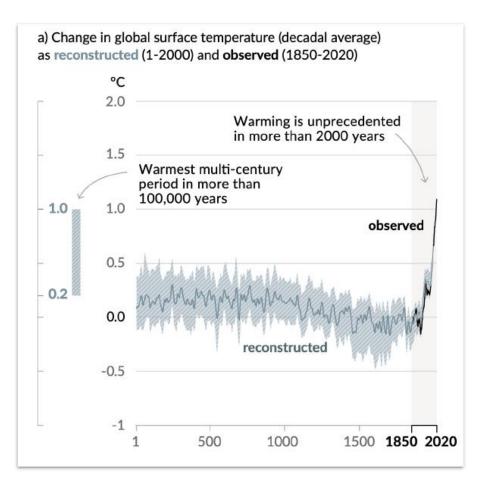


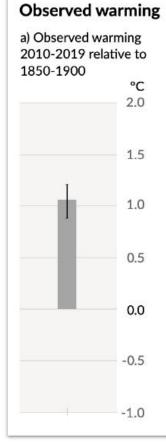




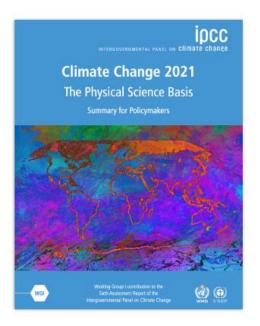


1. Climate is changing...



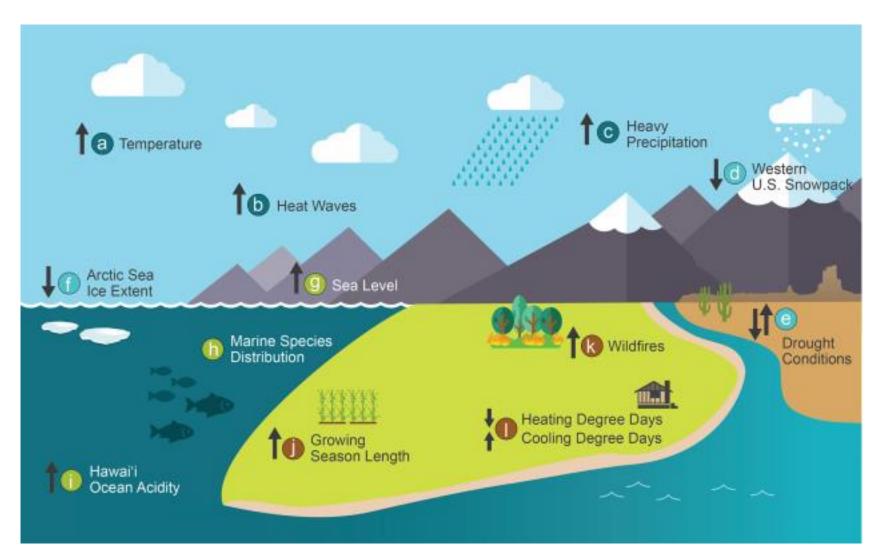


~1.2 °C above the preindustrial average (1850-1900)





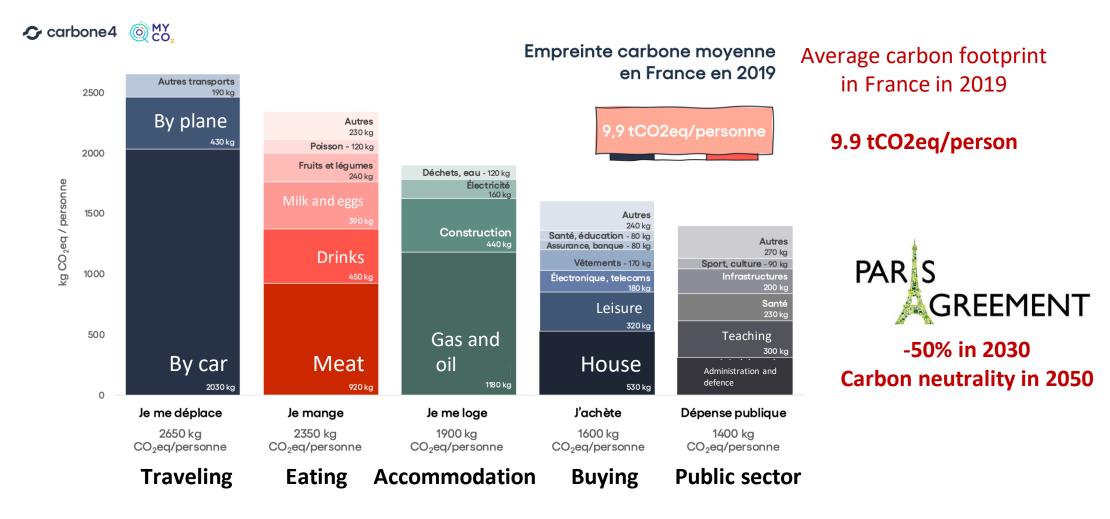
1. Climate is changing... and not for good...







1. Lifestyles and climate change



2. Does Academia has a role regarding climate change mitigation? Which one?

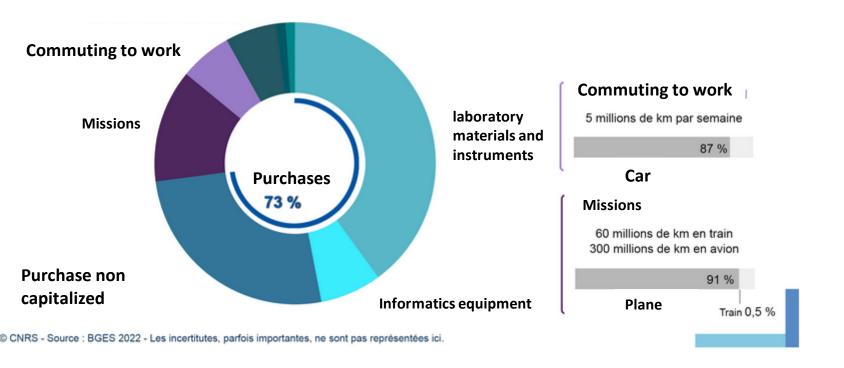
Group work (10 minutes)

Does Academia has a role regarding climate change mitigation? Which one?

10 minutes + 5 minutes of presentation

2. Academic's carbon footprint

National research center (CNRS) with more than 33K workers





Average carbon footprint per agent

14 tCO2eq/person

Emission reduction potentials for academic conference travel

Stijn van Ewijk^{1,2} Paul Hoekman³



Carbon footprint in one conference

1.3 to 1.8 tCO2eq/person

2. Academic's actions





Raising awareness of the carbon footprint of Academia

Position Paper

How to make EHPS conferences more climate-friendly

First ideas for the 2022 meeting of the European Health Psychology Society



https://labos1point5.org/

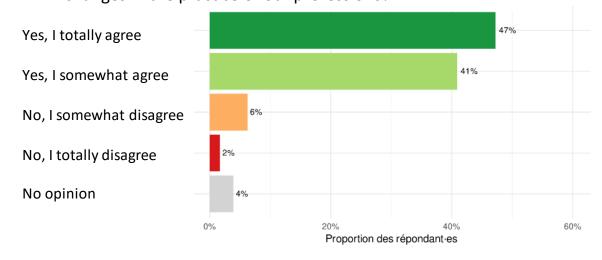


https://labos1point5.org/

Survey with CNRS' agents N= 6469 participants in 2020

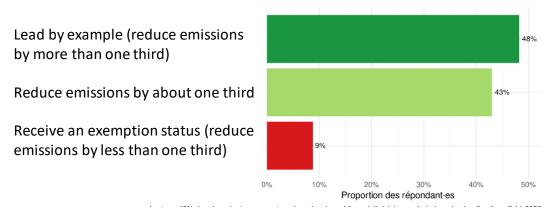
Change in practices

Do you think that the climate emergency requires profound changes in the practice of our professions?



National targets by 2030 and the role of Academia

France is committed to reducing its greenhouse gas emissions by one third by 2030. In this context, do you think that research should be...



3. What are the levers and obstacles to reducing carbon footprint in Academia?

Group work (10 minutes)

- What factors positively influence/favour reducing carbon footprint in **Academia?**
- What factors negatively influence/impede reducing carbon footprint in **Academia?**



https://ahaslides.com/96EUT



Levers and obstacles

10 minutes + 5 minutes of presentation

3. What are the levers and obstacles to reducing carbon footprint in Academia?

Individual factors:

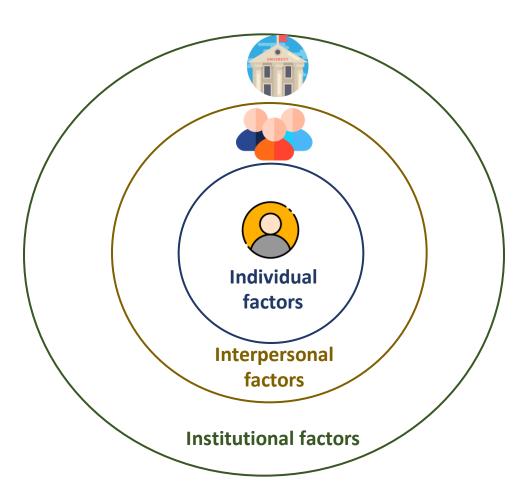
Psychological: Concern about climate change, subjective norms, self-efficacy, values, attitudes
Sociodemographic context: sex, career status, family commitments, need of a visa...





Lorraine Whitmarsh a, d, e, *, Stuart Capstick b, d, e, Isabelle Moore b, Jana Köhler f,





Interpersonal factors

Social norms, academic culture (academic excellence, international recognition)

ENVIRONMENTAL RESEARCH

LETTERS

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The carbon footprint of scientific visibility

To cite this article before publication: Olivier Berne et al 2022 Environ. Res. Lett. in press https://doi.org/10.1088/1748-9326/ac9b51

Institutional factors
University policies, available resources,

Reducing the climate impact associated with air travel: Shifting perspectives within and beyond Academia

Doctoral The

Author(s): Kreil, Agnes Sophie

4. Take-home messages

- Mitigating climate change will require profound changes in our lifestyles and maybe in our professions
- Some academics have already begun to propose ways to measure and potentially reduce the carbon footprint in Academia (e.g., Ma Terre en 180 minutes, Labo1point5)
- We should consider multi-scale levers and obstacles to reducing carbon footprint

Thank you very much!



Do you want more information?

Follow our updates on Researchgate or contact me: claudia.teran-escobar@univ-grenoble-alpes.fr or @ClaudiaTeranEs1