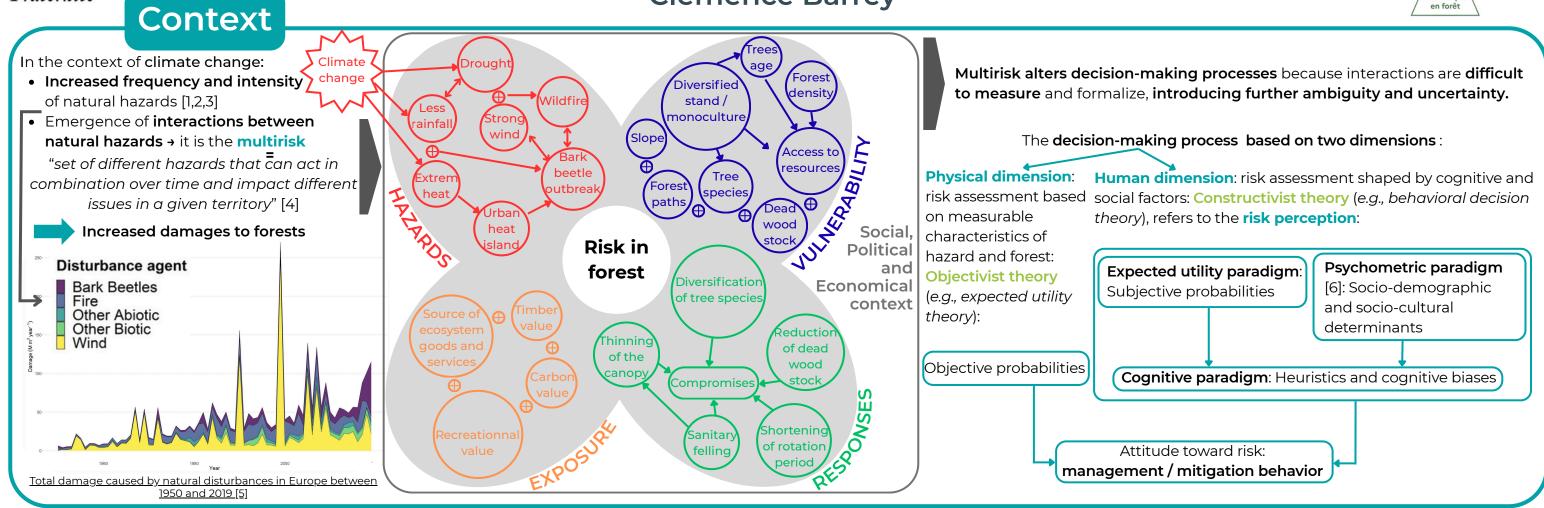


## Perception of multirisk in forests, a systematic litterature review

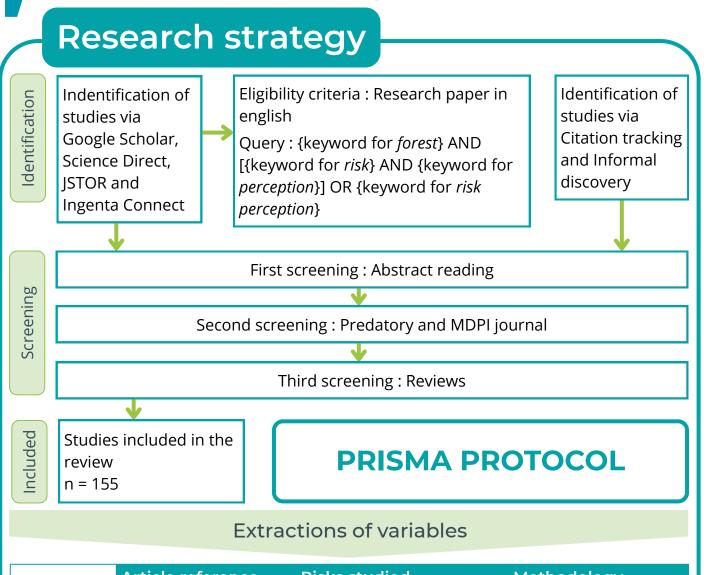


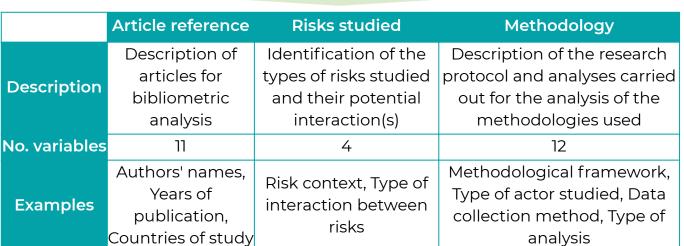
Liberté Égalité Fraternité

Clémence Barrey



To what extent are existing approaches to risk perception in forests relevant for addressing the issue of multirisk?





Approaches that can be used to understand multirisk perception: Surveys and questionnaires and different types of variables.

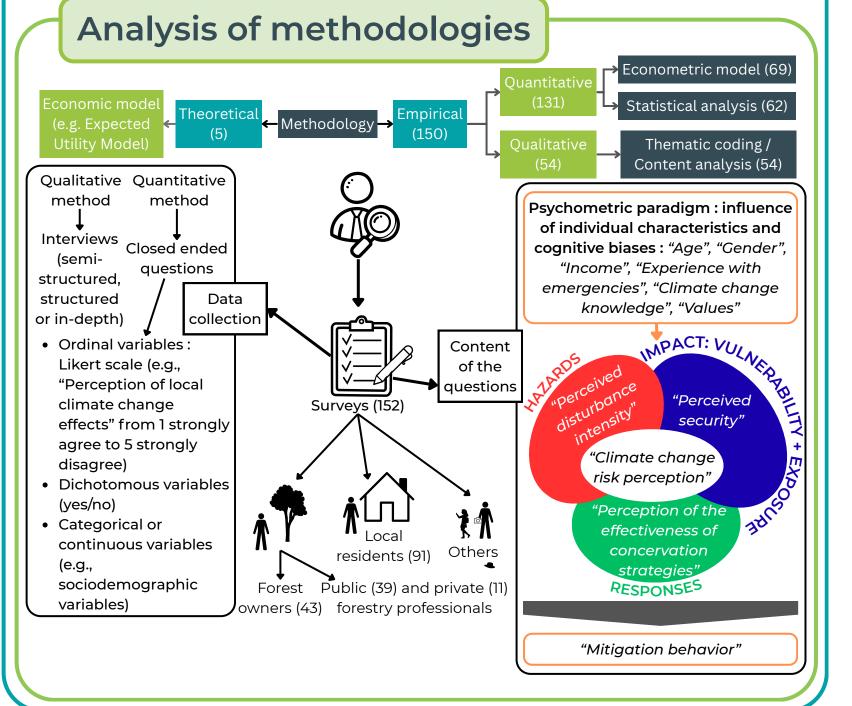
Conclusion

Large gap in the literature on risk perception: heterogeneity of study subjects, no study on multirisk perception in forests, very few theoretical methods and economic models, almost no use of methods other than surveys.

## Perspectives

- Draw parallels with other fields (e.g., agriculture, health)
- Contribute to the X-RISKS project
- Submit the database to the BETA repository
- Thesis continuation:
- Conduct a survey on multirisk perception among forest owners in the Grand Est region
- Integrate the perception of multirisk into an economic model, such as Prospect Theory

## Main results Bibliometric analysis Disciplines of articles: 102 papers Human 48 papers 15% Environmental sciences Natural 11 papers sciences Climate **Economics** hazards Insects (23) change Other risks **Top 5 of countries** Freq Interaction No. papers studied 154 Independent USA Compounding 0 Canada Cascadina 0 Sweden Interconnected Germany « Drought increases the risks of wildfire in the Western United States of America » [7]





- 14 Rue Girardet, 54000 Nancy
- ( +33 7 81 14 02 10
- clemence.barrey@agrocampus-ouest.fr



M. J., G. J. Nabuurs , and A. Schuck. 2003. "Natural Disturbances in the European Forests in the 19th and 20th Centuries." Global Change Biology 9 (11): 1620–1633. Jan Schelhaas, and Manfred J. Lexer. 2011. "Unraveling the Drivers of Intensifying Forest Disturbance Regimes in Europe." Global Change Biology 17 (9): 2842–2852. l Van Aalst, Maarten K, 2006, "The Impacts of Climate Change on the Risk of Natural Disasters." *Disasters* 30 (1): 5–18,

] Curt, Corinne. 2021. "Multirisk: What Trends in Recent Works? - A Bibliometric Analysis." Science of The Total Environment 763: 142951. 5] Patacca, Marco, Marcus Lindner, Manuel Esteban Lucas-Borja, Thomas Cordonnier, Gal Fidej, Barry Gardiner, Ylva Hauf, et al. 2023. "Significant Increase in Natural Disturbance Impacts on European Forests since 1950." Global Change Biology 29 (5): 1359–1376.

7] Craig, Christopher A., Myria W. Allen, Song Feng, and Matthew L. Spialek. 2020. "Exploring the Impact of Resident Proximity to Wildfires in the Northern Rocky Mountains: Perceptions of Climate Change Risks, Drought, and Policy." International Journal of Disaster Risk Reduction 44: 101420.