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Keynote

Boosting Risk Literacy: How to Transparently Communicate Uncertainty to lay Audiences

Nadine Fleischhut
Hans-Ertel-Centre for Weather Research – WEXICOM

Abstract

As of today, forecasts and warnings for severe weather events are still often communicated in a determinis-
tic way, despite the probabilistic nature of the underlying data. One main concern has been the difficulty
to transparently communicate probability information to lay audiences in order to guide their decision. In
this talk, I will give a primer on risk communication. I will introduce some key challenges for commu-
nicating uncertainty, review examples of do’s and don’ts, and present insights from risk communication
research on how to communicate uncertainty in a transparent way. I will conclude by outlining crucial
steps to boost the risk literacy of the public and decision makers in real-world situations.

Short Biography

Nadine Fleischhut is interested in how to communicate risk and uncertainty in order to improve decision-
making. She works as a research scientist at the Max Planck Institut for Human Development in Berlin,
and is PI of the interdisciplinary project WEXICOM, funded by the German National Weather Service.
Here, she currently investigates how to effectively communicate probabilistic impact forecasts for extreme
weather events. Nadine has a Master’s degree in analytical Philosophy and worked as a journalist at a TV-
production company for science documentaries. After doctoral studies at the Max Planck Institute for
Human Development, she received a PhD in Psychology from Humboldt University, Berlin. Since 2015,
she works as a research scientist at Center for Adaptive Rationality at the Max Planck Institute for Human
Development.