

harp.

Hope and resilience
in climate change
education

(Climate change) Emotions in Education

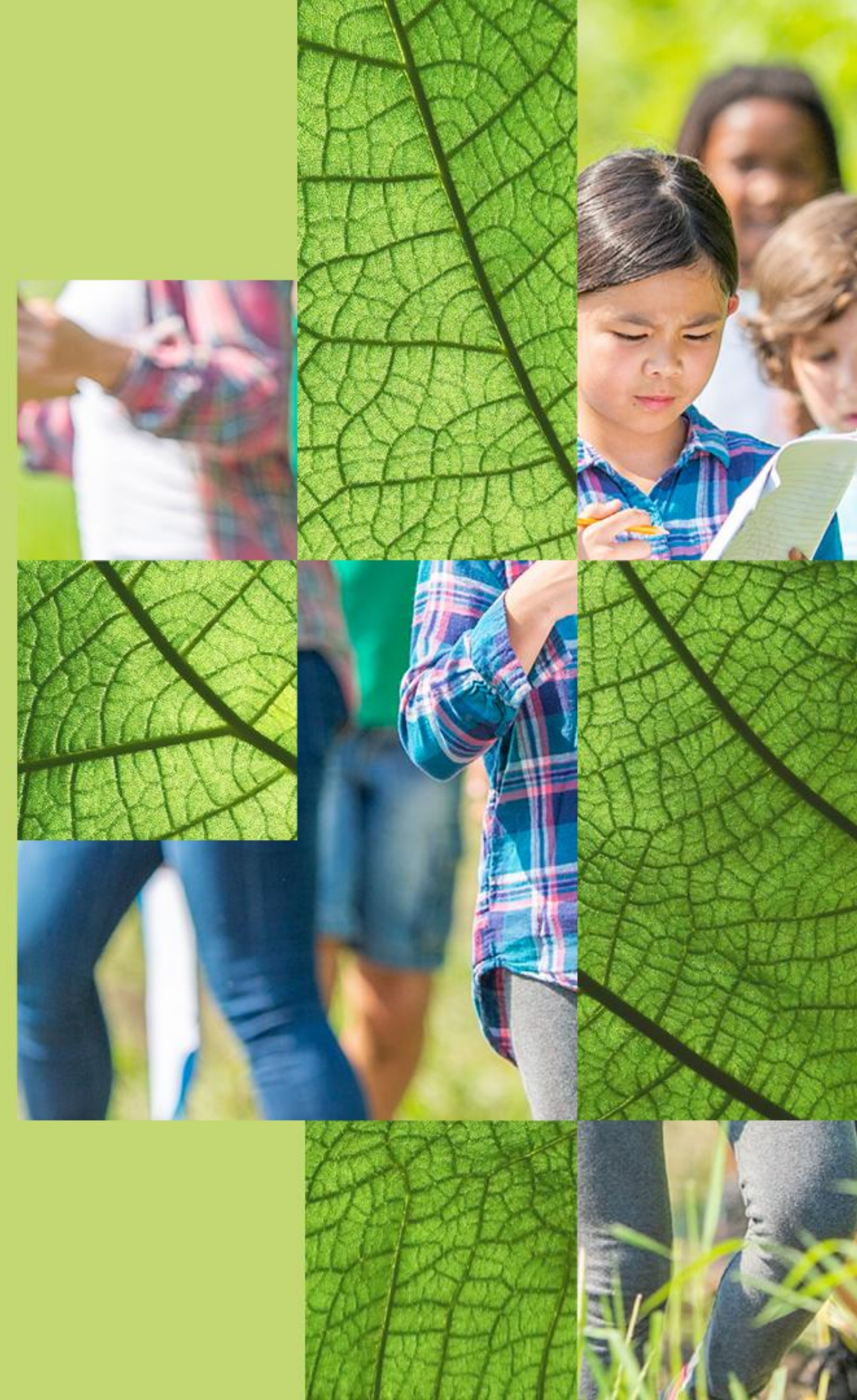
(Part 4/4)

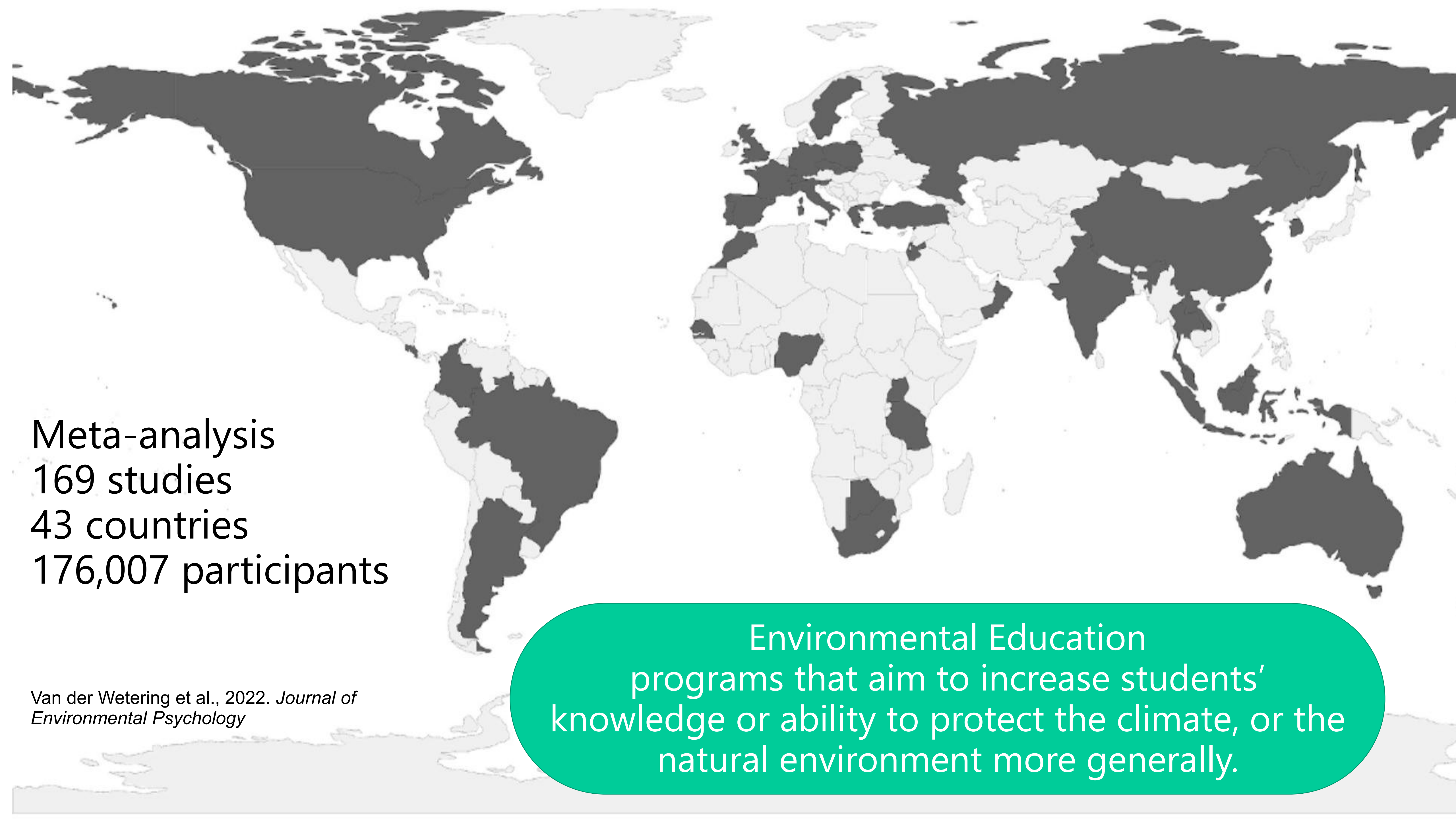
Andrik Becht

Astrid Poorthuis

July 7th, 2026

Summer school





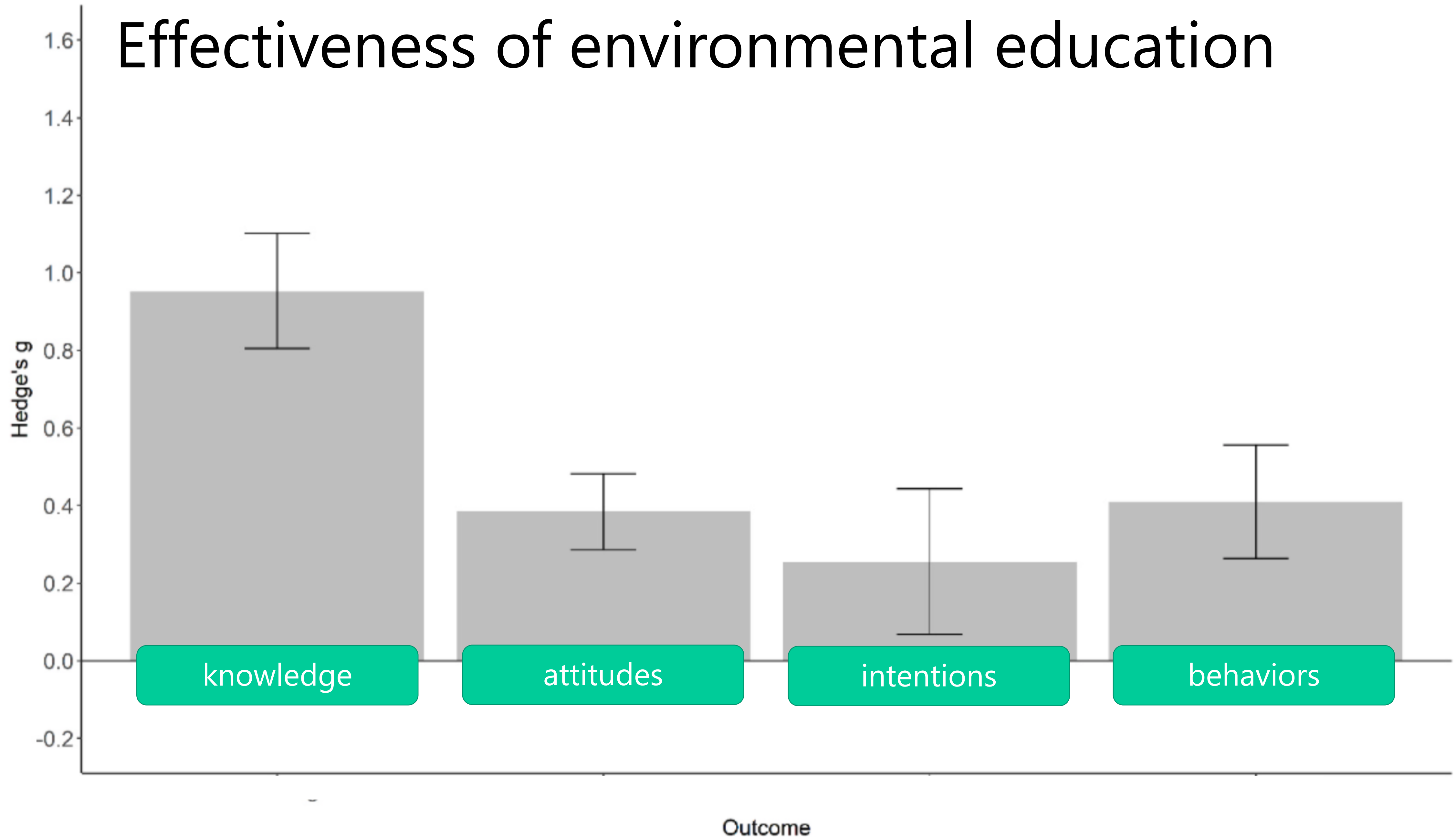
Meta-analysis
169 studies
43 countries
176,007 participants

Van der Wetering et al., 2022. *Journal of Environmental Psychology*

Environmental Education
programs that aim to increase students'
knowledge or ability to protect the climate, or the
natural environment more generally.

Effectiveness of environmental education

Effectiveness (Hedges' g)



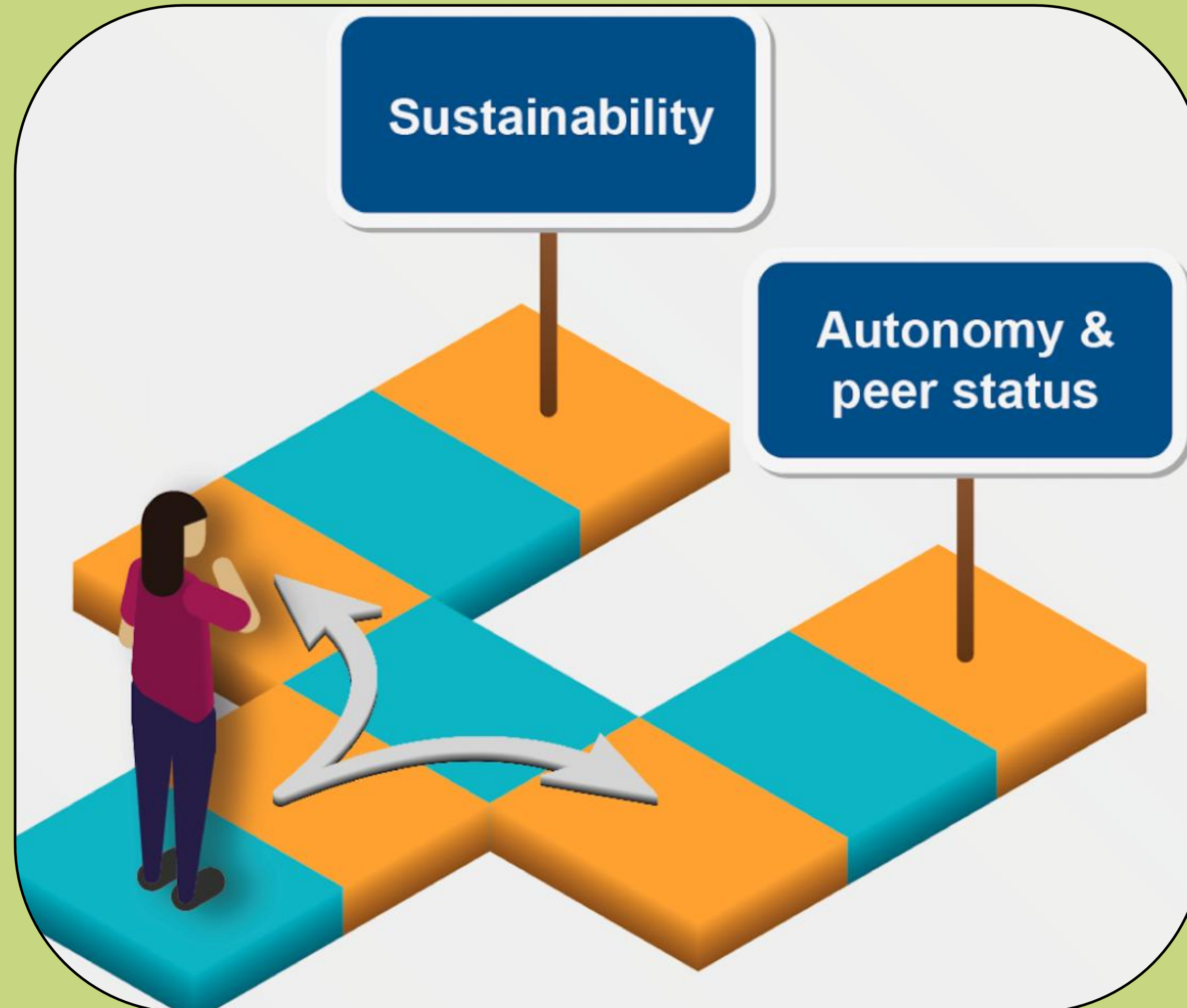
Two central adolescent motives

Autonomy: volition,
independence

Status: being valued and
respected by peers

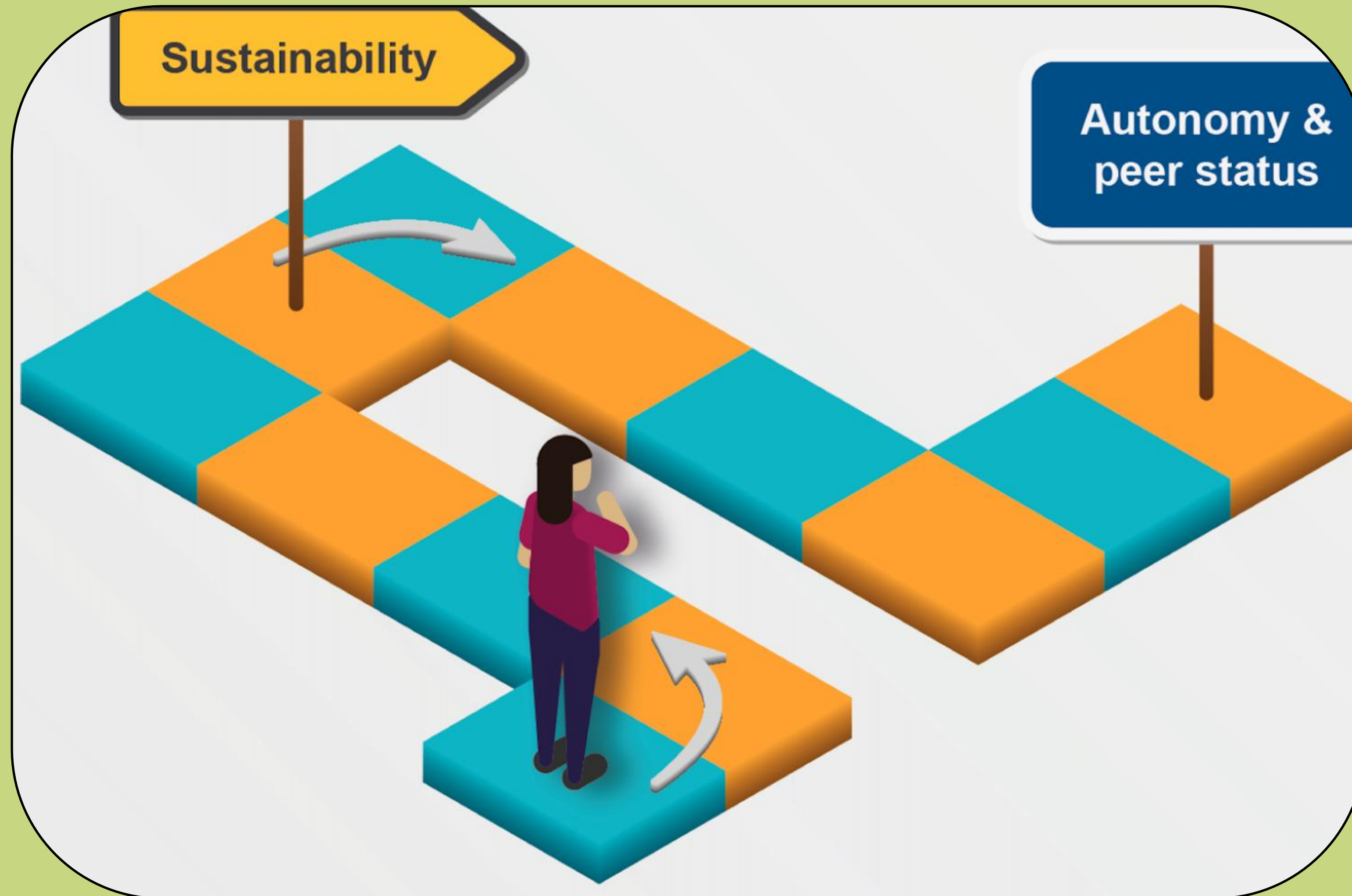


Motive-Alignment Theory



Thomaes et al. (2023).
One Earth

Motive-Alignment Theory



Thomaes et al. (2023).
One Earth

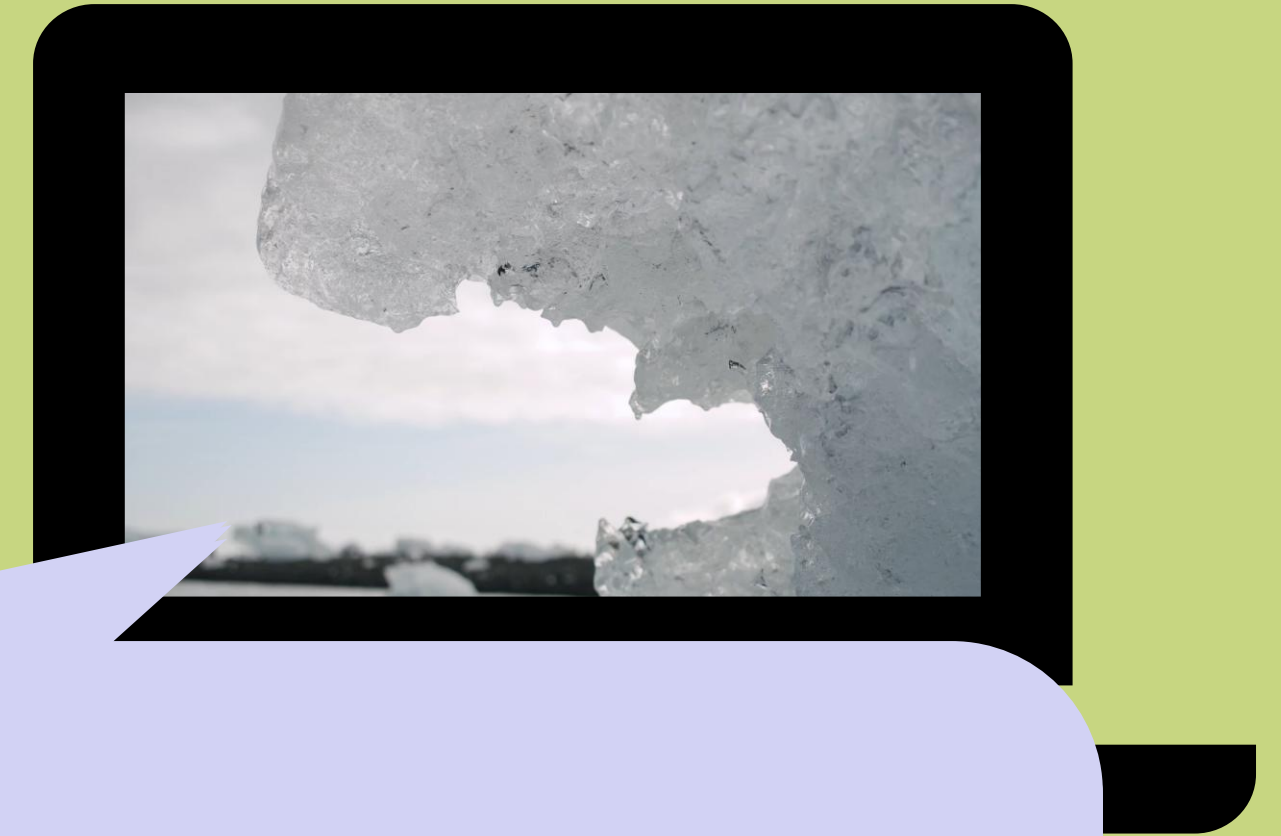
Protecting Tropical Rainforest



Judith
van de Wetering

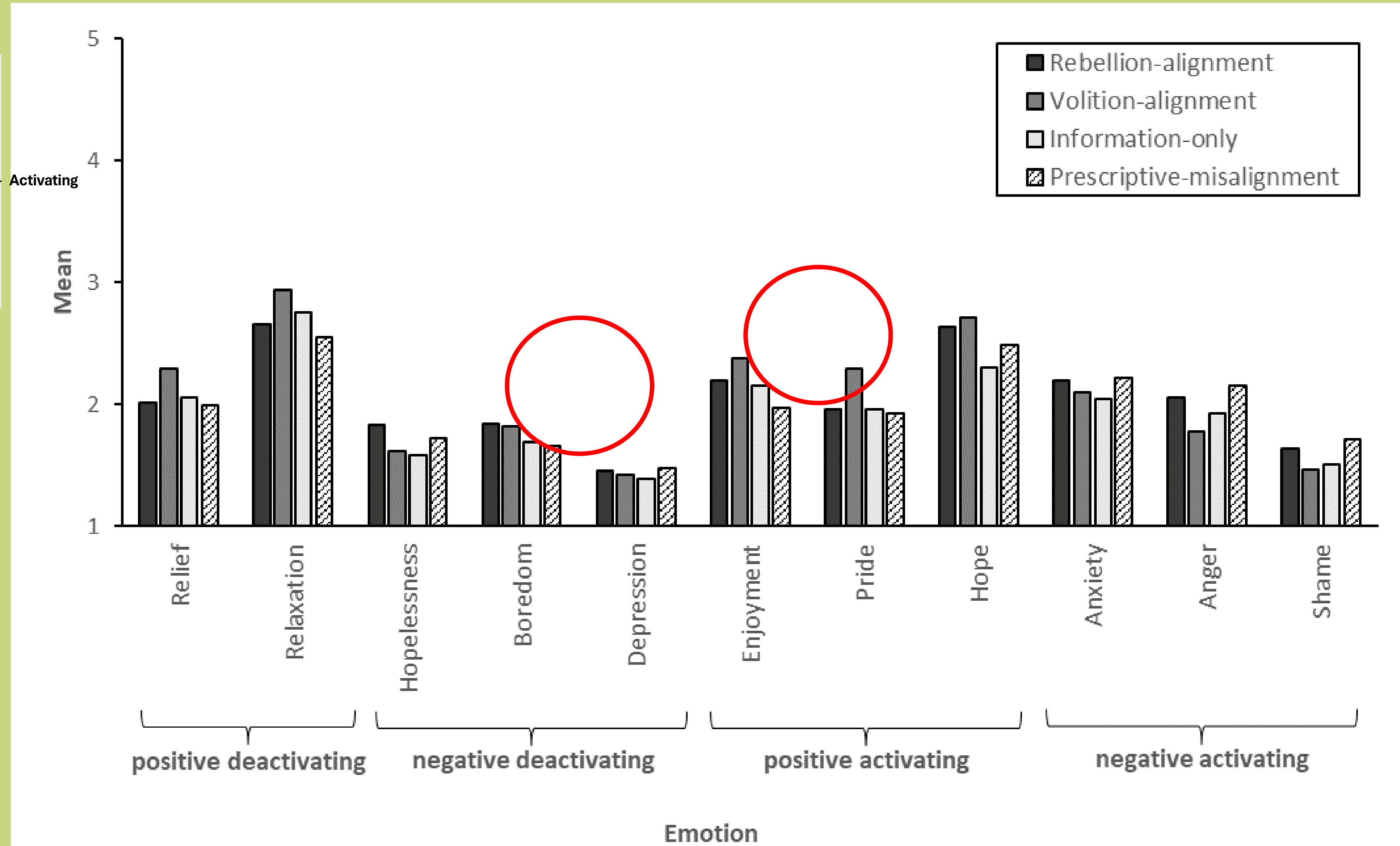
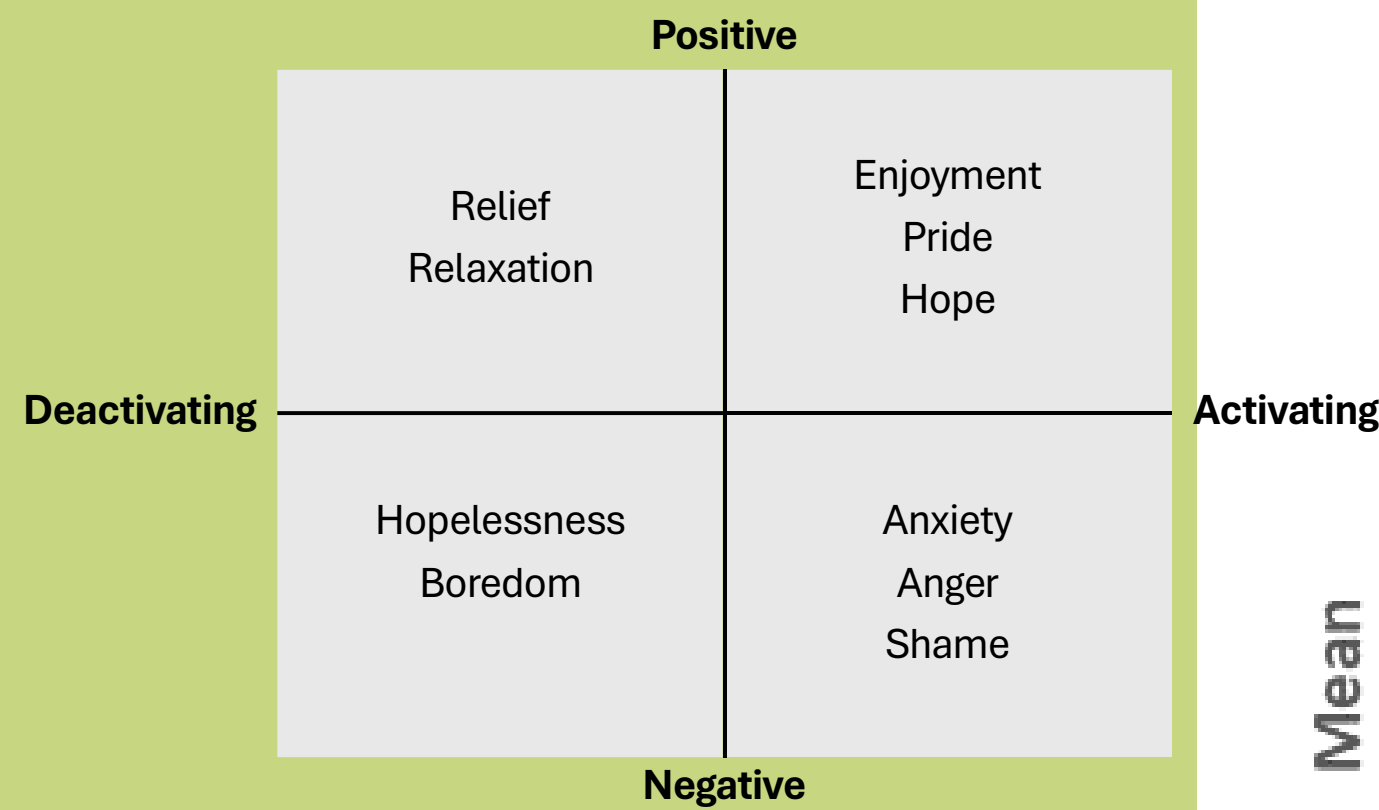
Protecting Tropical Rainforest

Control
Agency
Rebellion



**You can rise against these unfair
companies by supporting
rainforest protection**

More activating emotions in autonomy-aligned conditions (in particular enjoyment and hope)



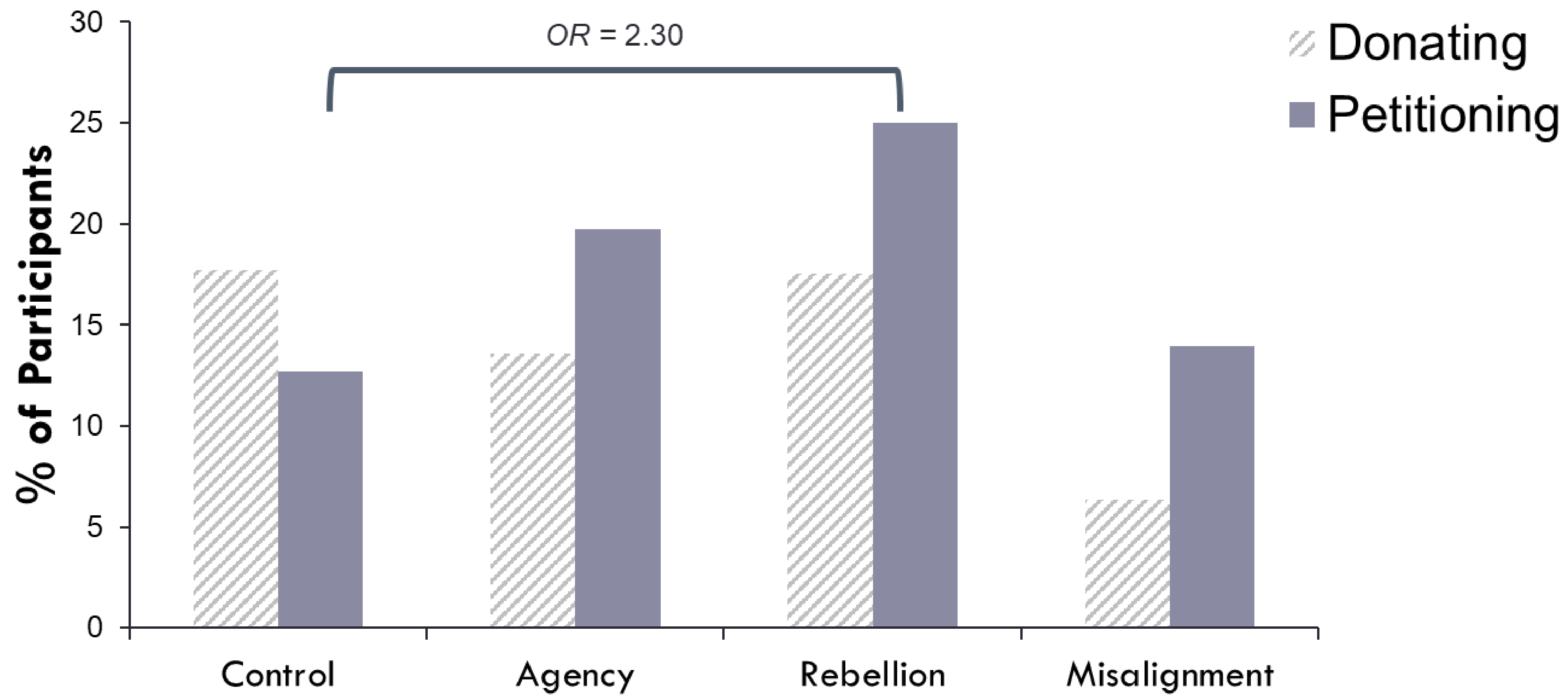
Protecting Tropical Rainforest

High cost rainforest protection

Donate to environmental charity **(y/n)**

Low cost rainforest protection

Sign a petition **(y/n)**



Conclusion

Emotions are abundant in education

There are many different emotions (and related phenomena, such as mood, affect)

Taxonomies can help

Thank you for your attention

M U N I



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