



## Workshop 3:

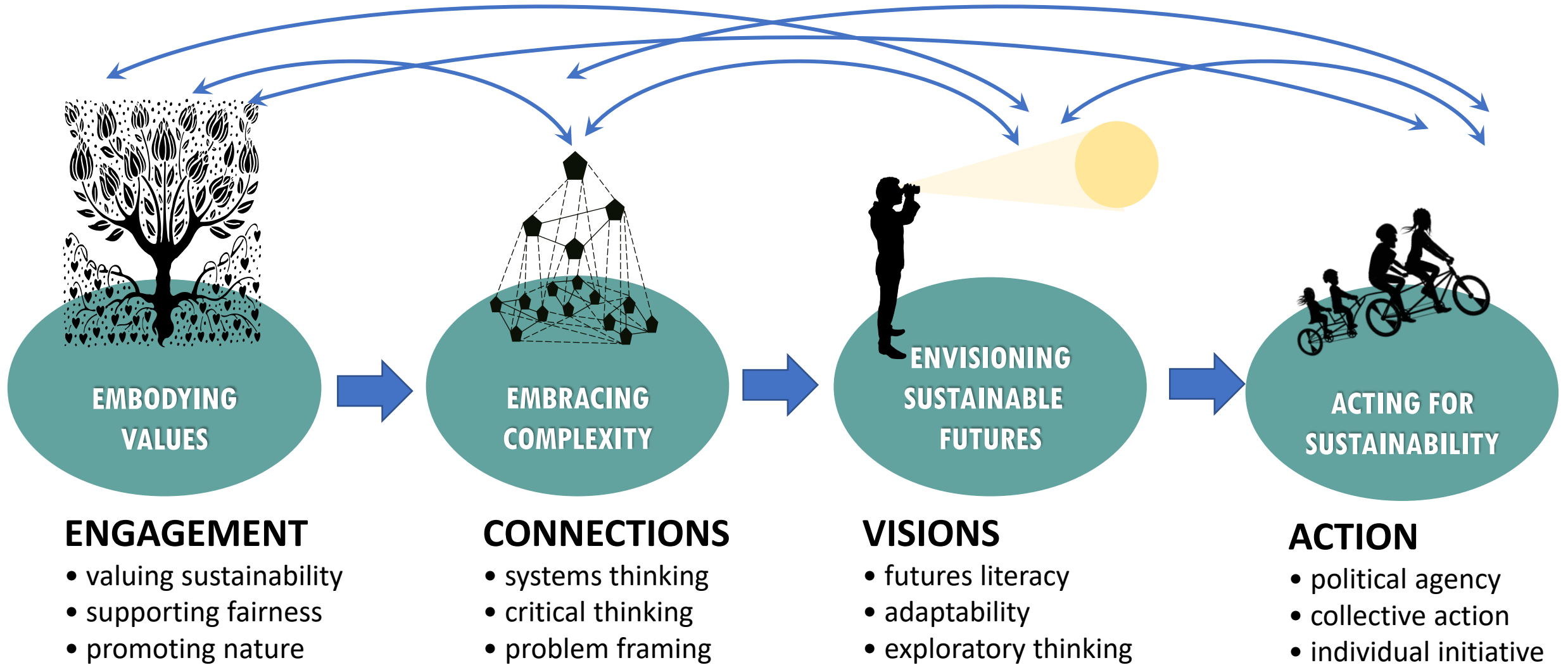
# Envisioning sustainable futures and shared visions

Facilitator: Hannu Heikkinen

Venue: Aalto lounge (Aalto2)

# Roadmap for sustainability education

Based on *GreenComp* - The European sustainability competence framework (Bianchi, Pisiotis & Cabrera Giraldez 2022)



# VISIONS

- futures literacy
- adaptability
- exploratory thinking



# The Questions:

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*Where to find sustainable hope  
for envisioning a better  
future?*

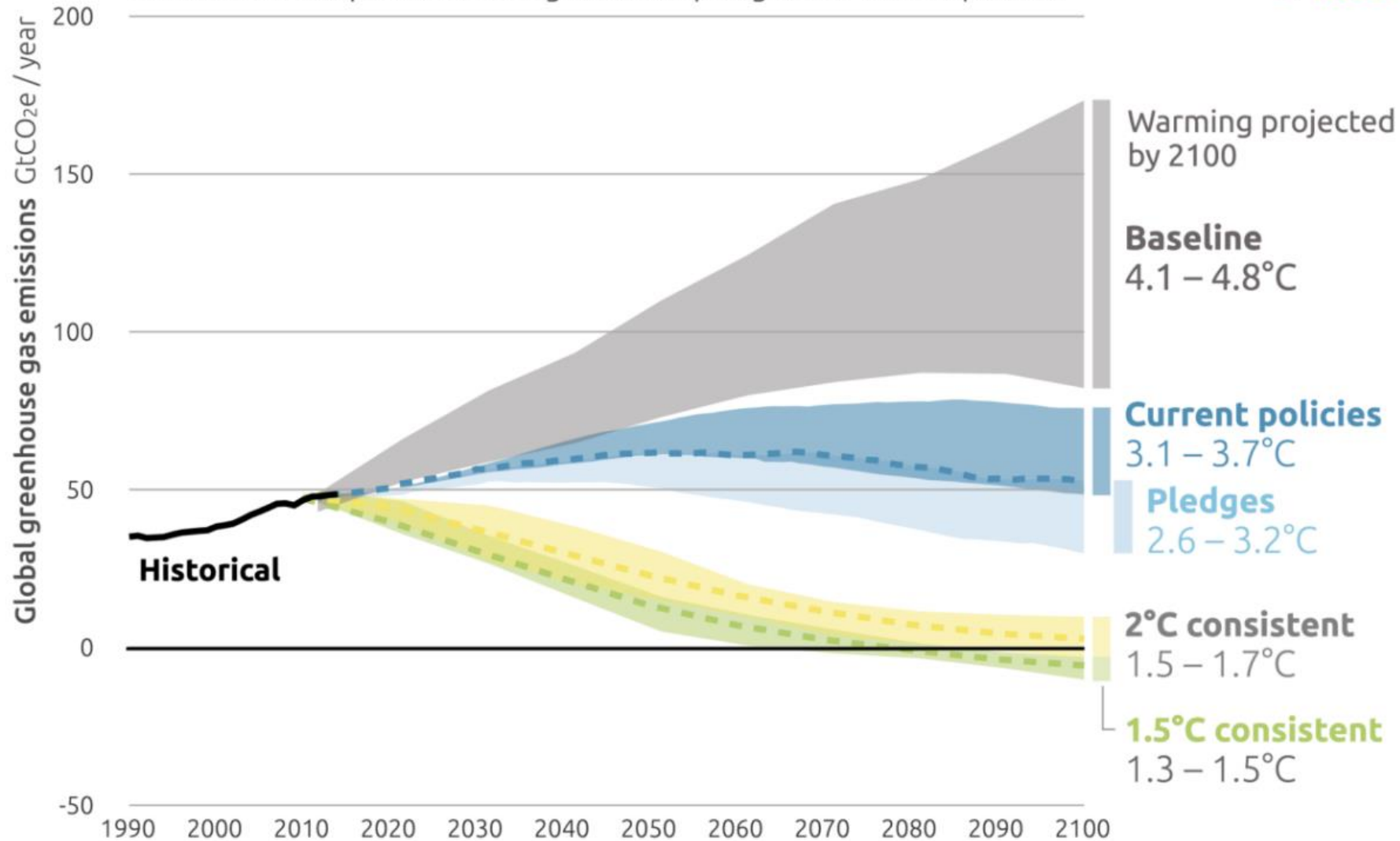
*What would be the  
consequences for education if  
there is no such sustainable  
hope?*




# Climate change

## 2100 WARMING PROJECTIONS

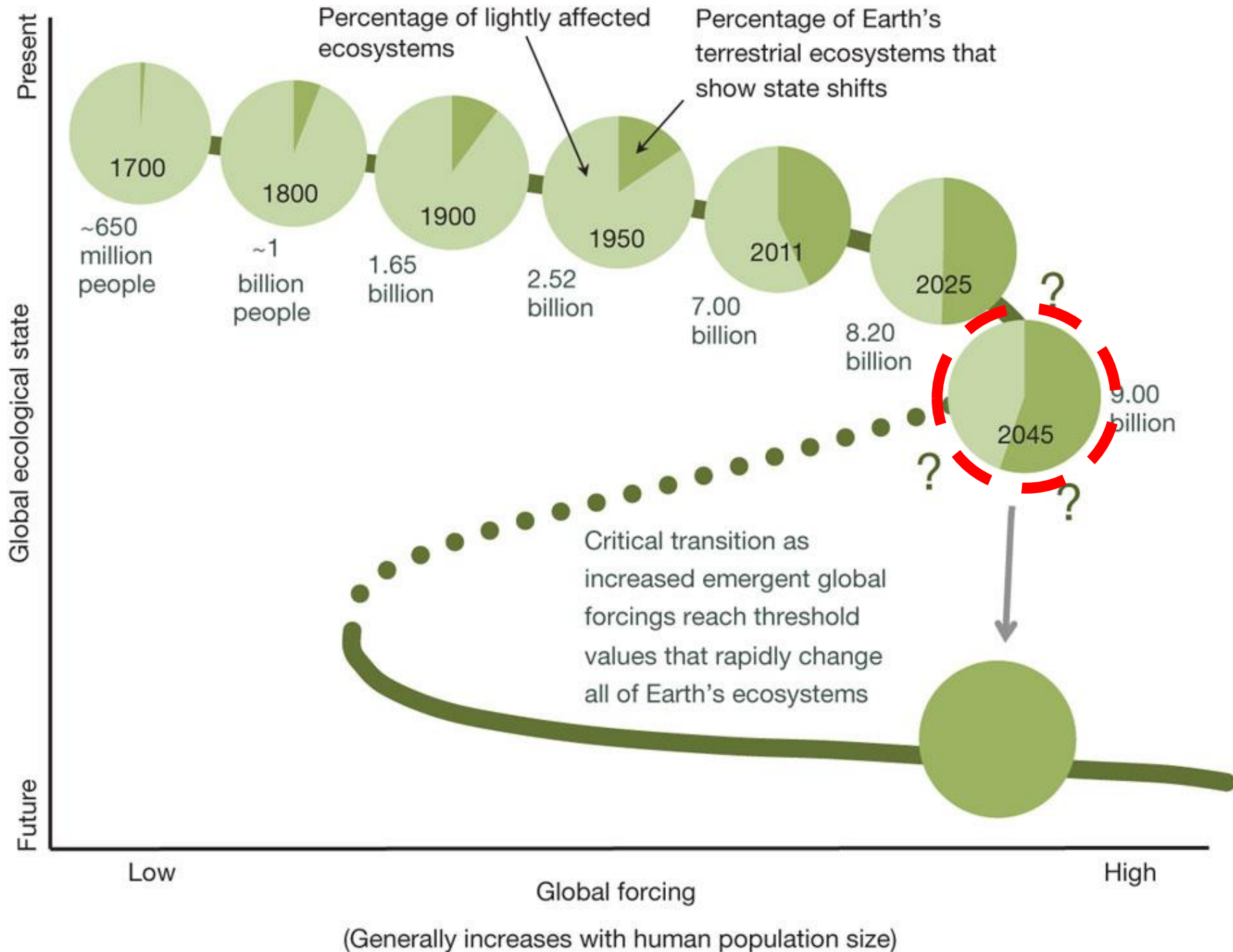
Emissions and expected warming based on pledges and current policies





# Biodiversity loss: *the sixth mass extinction*

- In every mass extinction, species that were at the top of the food chain became extinct
- In the fifth extinction wave, they were dinosaurs.
- In the sixth extinction wave, the species is Homo sapiens.



A D. Barnosky *et al.*  
 doi:10.1038/nature  
 11018

nature

Barnosky, A. D., Hadly, E. A., Bascompte, J., Berlow, E. L., Brown, J. H., Fortelius, M., ... & Martinez, N. D. (2012). Approaching a state shift in Earth's biosphere. *Nature*, 486(7401), 52.

## Discussion in small groups (3-4 persons):

1. What do you believe in your heart: is there hope for humanity to solve climate change, species extinction and other environmental problems?
2. What would happen to education if there were no such hope?



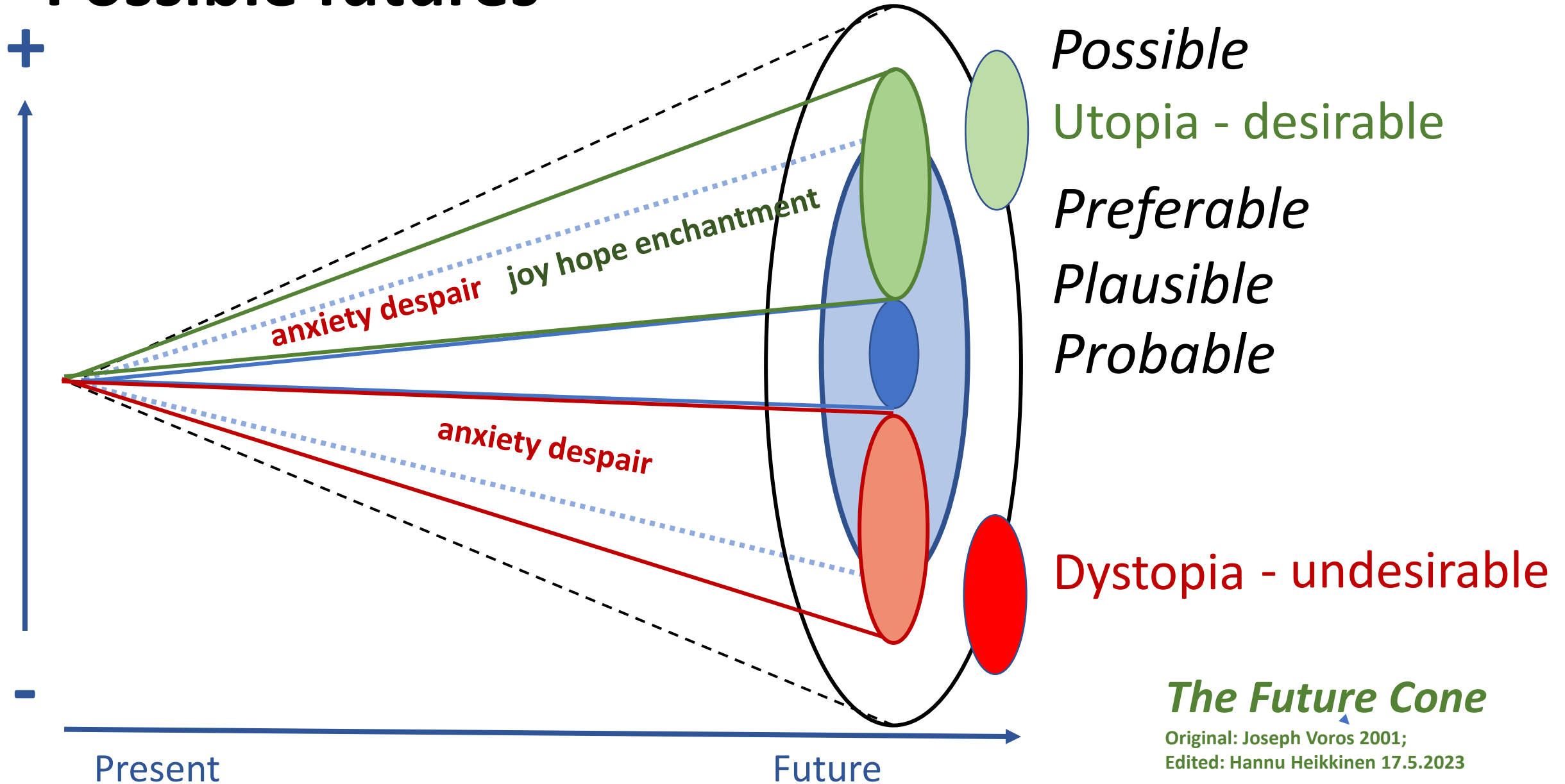


# ENVISIONING SUSTAINABLE FUTURES

- futures literacy
- adaptability
- exploratory thinking



# Possible futures



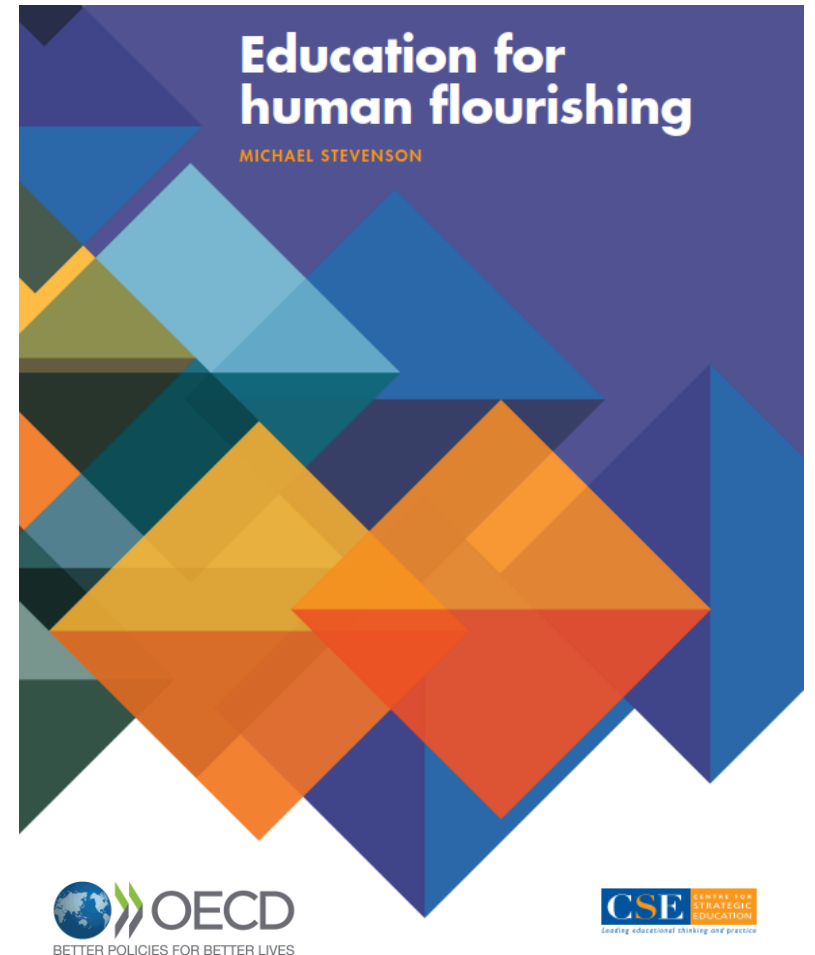
*The Future Cone*

Original: Joseph Voros 2001;  
Edited: Hannu Heikkinen 17.5.2023

# Navigating through an unknown future, not only to survival but towards **human flourishing**

- Since the pace of change is so rapid and our understanding of what lies ahead necessarily limited, it is no longer appropriate to see education as an instrumental process preparing students for a **known future**.
- Instead, schools are increasingly helping them develop a reliable compass and useful tools to navigate **through uncertainty**.

(Stevenson 2022, 4.)



**Thank you**