



# Promoting climate change awareness and competencies among young trainees

Prof. Dr. Alexander Siegmund & Dr. Simone Fischer

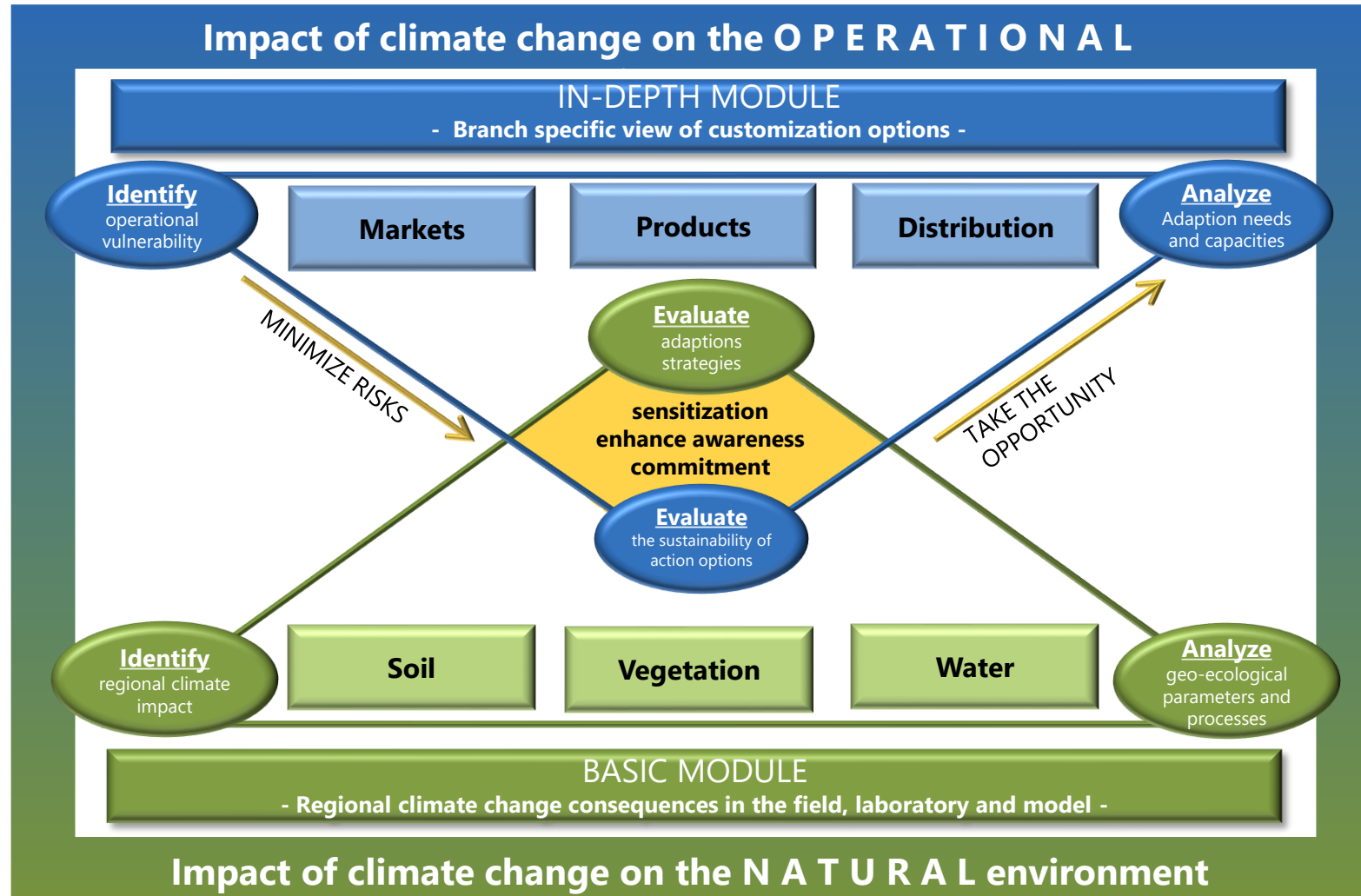




## UNESCO-Chair on Observation and Education of World Heritage and Biosphere Reserve

- Using modern geo-information technology
- and geo-ecological field- and laboratory methods to
- analyze, communicate and sustainably develop UNESCO sites







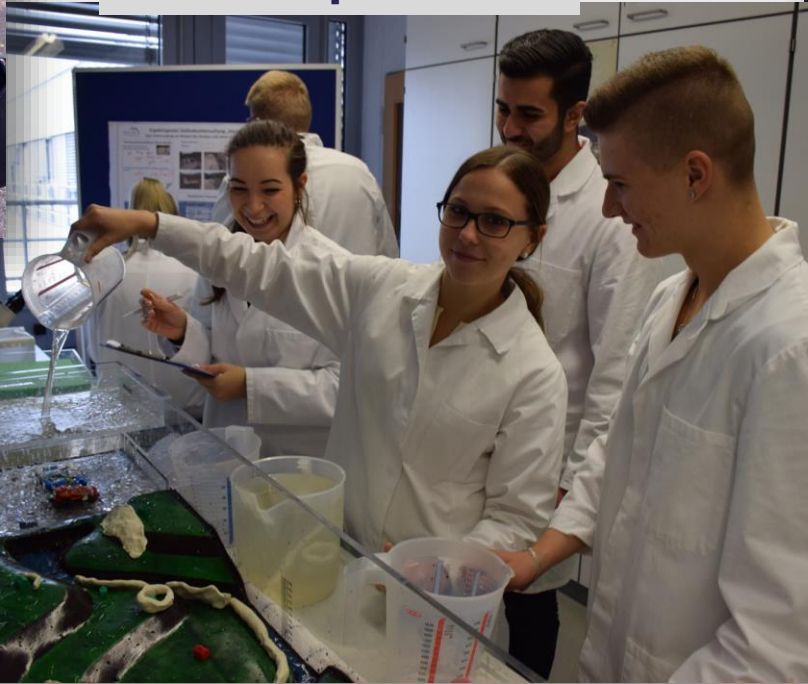
# Impressions from the workshops



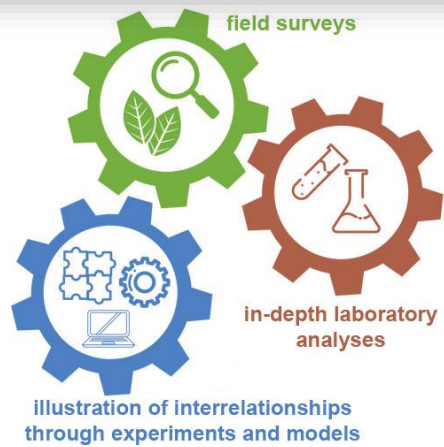
**Field work**




**Design thinking**



**Model experiments**





 Bundesministerium für Umwelt, Naturschutz, nukleare Sicherheit und Verbraucherschutz

## NaKlim: Climate protection: naturally!

Interactive teaching and learning material to promote natural climate protection – a methodological and didactic concept for climate change education



## Climate Change Educational Atlas

Visualization of climate change using case studies from all continents, all geospheres and all climate zones for pupils at the secondary school level

## Klim:ReAction

Web platform and mobile app for pupils and students to visualize the effects of climate change and learn about adaptation strategies



Baden-Württemberg  
MINISTERIUM FÜR UMWELT,  
KLIMA UND ENERGIEWIRTSCHAFT

## The Geco-Lab as a virtual teaching-learning-lab

Digital experience of regional climate change adaptation strategies through virtual experiments



Baden-Württemberg  
MINISTERIUM FÜR UMWELT,  
KLIMA UND ENERGIEWIRTSCHAFT



# Klim:S<sup>21</sup> – The serious game about climate change adaptation



Discover Germany's climate impact in 6 representative play areas

Effect analyses and supplementary teaching materials for effective use in the classroom

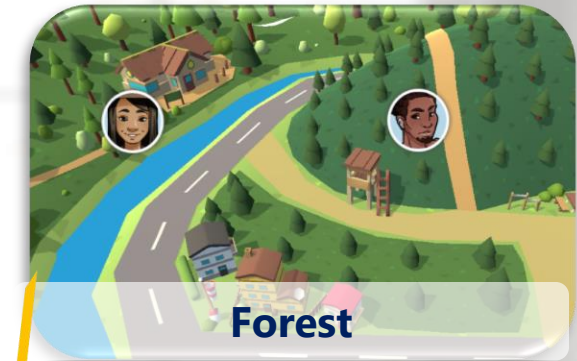
Experience the climate impacts and corresponding measures up to the year 2100



City



North Sea



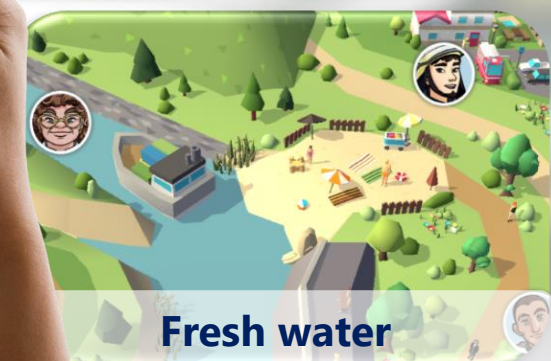
Forest



Special crops



Agriculture



Fresh water

[www.klims21.rgeo.de](http://www.klims21.rgeo.de)

# Klim:S<sup>21</sup> – Effect analysis: Define Climate change adaptation

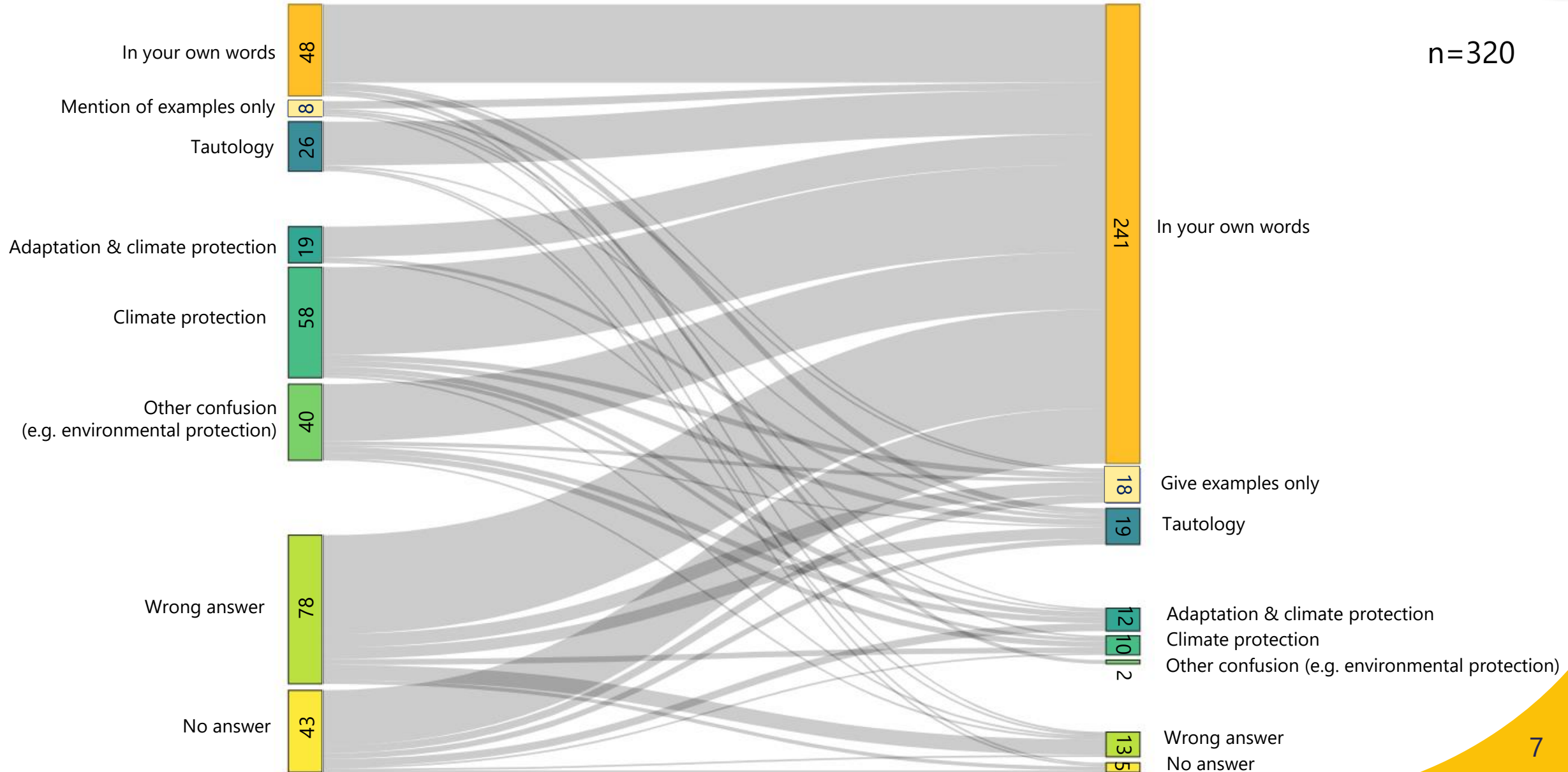


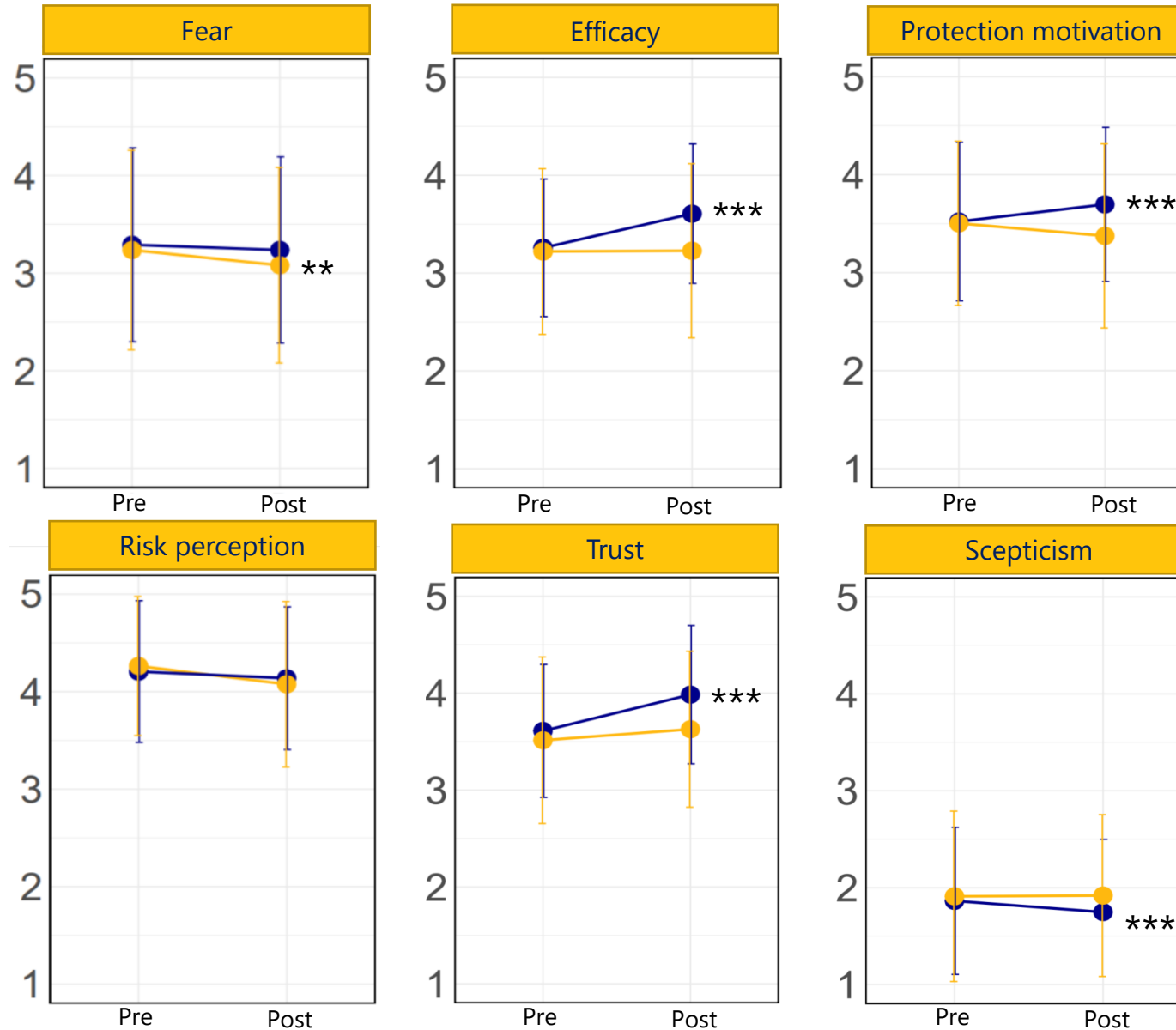
n=320

**Correct answer**

**Confusion**

**No/incorrect answer**





■ Test group  
■ Control group

Statistical significance

- \* low
- \*\* medium
- \*\*\* high





**Thank you!**

# **Promoting climate change awareness and competencies among young trainees**

**Prof. Dr. Alexander Siegmund & Dr. Simone Fischer**