

# Development and Validation of the Social Thermoregulation, Risk Avoidance, and Eating Questionnaire - 2 (STRAEQ-2)

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**Three environmental demands:**

- fluctuation in temperatures
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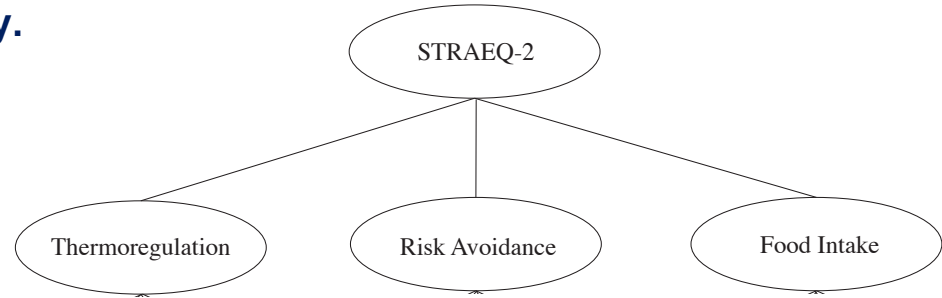


Fig 1. *STRAEQ-2 a priori expected structure*

**Environmental threats shape personality.**

**Three environmental demands:**

- fluctuation in temperatures
- physical threats
- lack of food

**Four subdimensions:**

- sensitivity to the need,
- solitary regulation of the need,
- desire to cope with the need with others,
- confidence that others will be helpful.

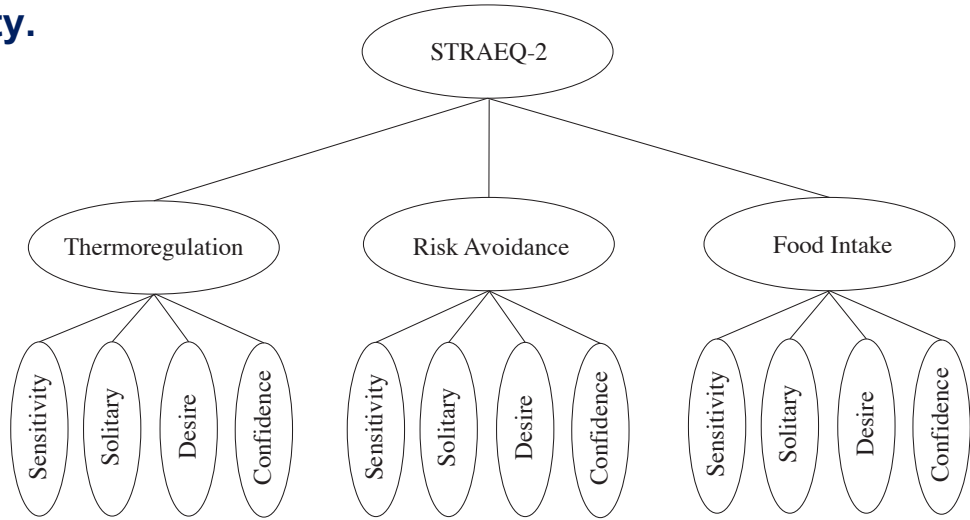


Fig 1. STRAEQ-2 *a priori* expected structure

To generate items suitable for their culture, we gave collaborators:

- a description of each construct
- example items

**In total 53 laboratories from 32 countries generated 737 items.**

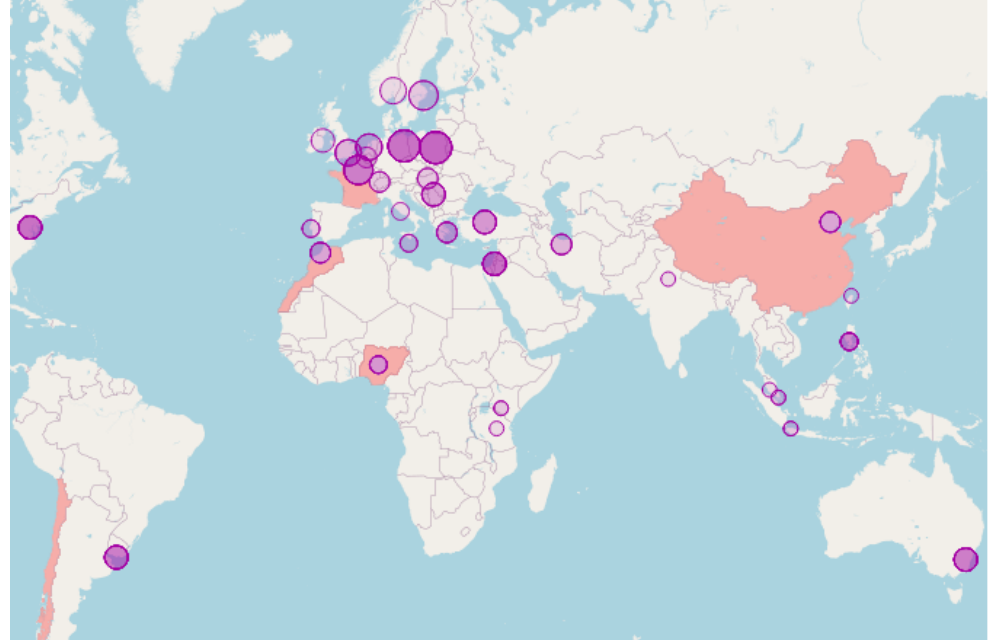


Fig 2. World map of the countries that generated the STRAEQ-2 items

A diverse advisory committee rated to what degree the items were representative of the construct.

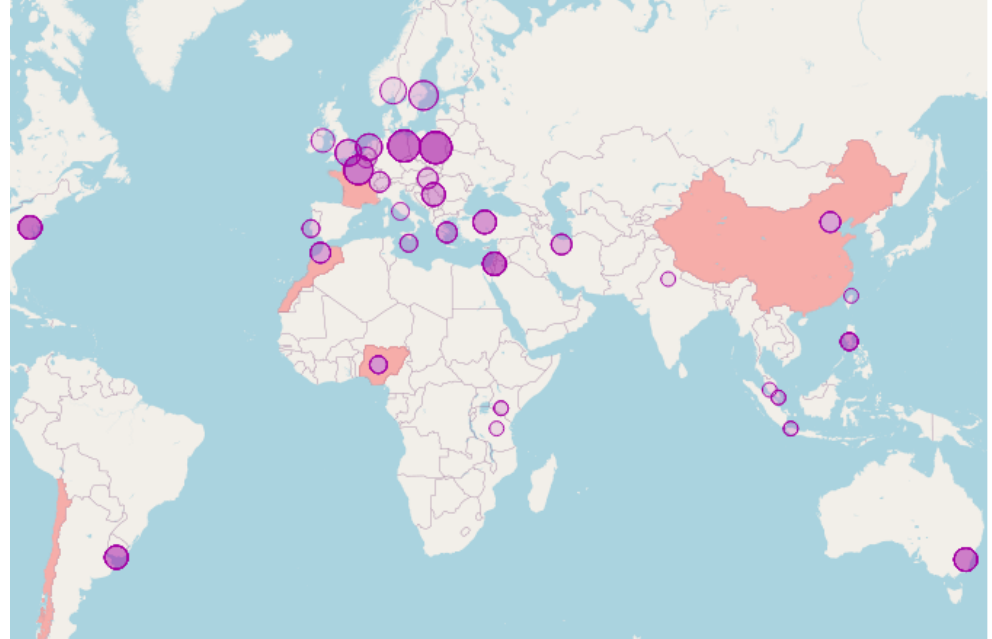


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A **diverse advisory committee** rated to what degree the items were representative of the construct.

We kept the **10 highest means and lowest standard deviation** items per subscales.

We replaced closely related items (~5 per subscales) to get a **wider range of behaviors**.

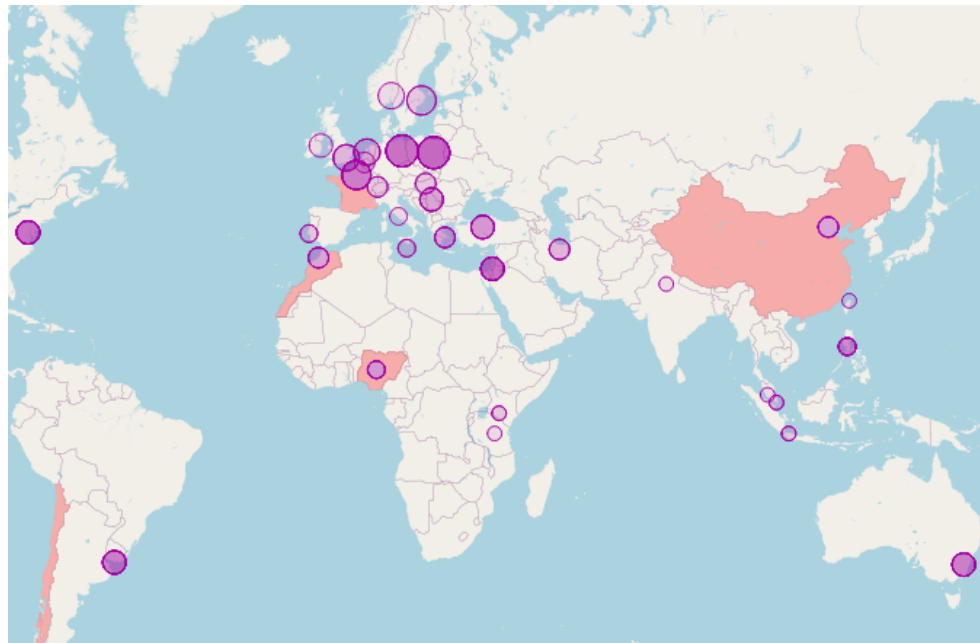


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A **diverse advisory committee** rated to what degree the items were representative of the construct.

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**STRAEQ-2 scale: 120 items**  
(10 per subdimension)

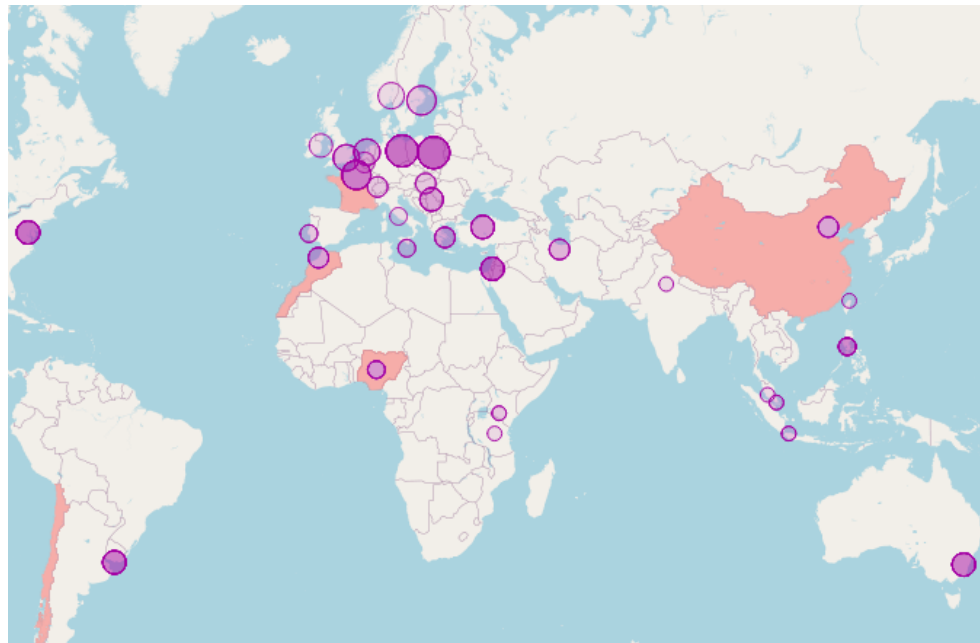


Fig 2. World map of the countries that generated the STRAEQ-2 items

Table 1. *Examples of STRAEQ-2 items.*

item	country	subscale
At a restaurant, I like ordering food that can be shared with close others at the table.	Iran	food_desire_subscale
When I feel cold, I like to be hugged.	Germany	temperature_desire_subscale
I feel that I can always cuddle with my partner, when I feel too cold at home.	Sweden	temperature_confidence_subscale
When I am in a stressful situation, I prefer to resolve it myself.	Philippines	risk_solitary_subscale

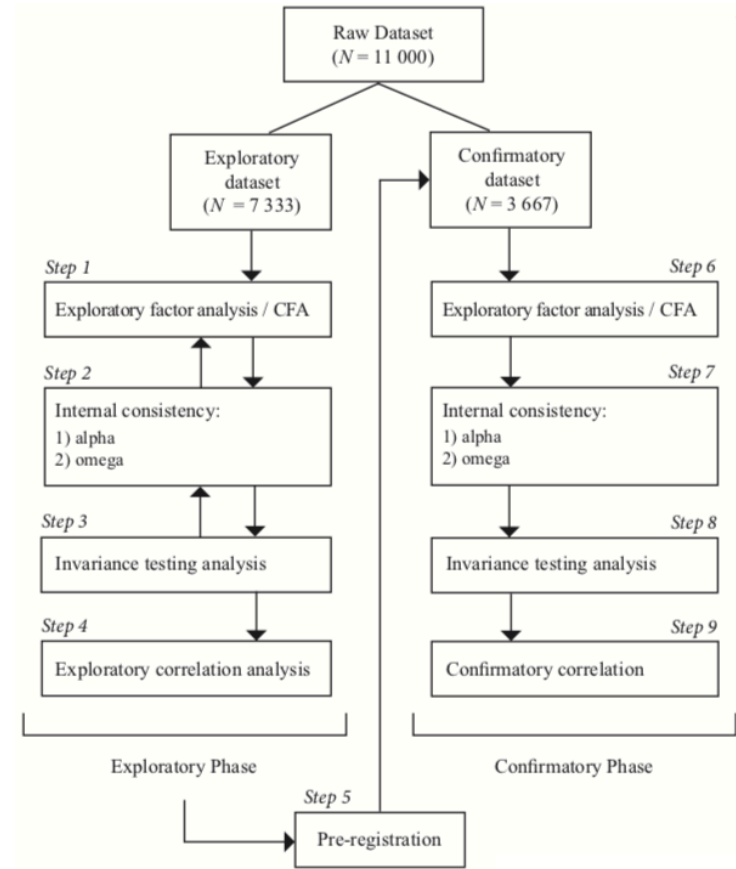
- 129 sites in 44 countries
- $N = 11\,000$  participants across the globe

# Multisite study and analysis

- 129 sites in 44 countries
- $N = 11\,000$  participants across the globe

## Hold-out analysis strategy:

- 1) **exploratory phase** on a 2/3 split of the dataset,
- 2) **a pre-registered confirmatory phase** on an unseen remaining 1/3 of the dataset.



# Thank you!



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