

# ENCLOSE Data Processing and Matching Workflow

## 0. Data Preparation

**Input files:**

- EES9.sav
- ESS11.sav

**Code:** ENCLOSE\_harmonization\_panel\_clean.Rmd

**Output:** h\_ENCLOSE\_data\_panel

*Description:*

This step select variables from the two surveys, aligns coding, and produces an harmonized dataset.

---

## 1. Latent Trait Estimation

**Input:** h\_ENCLOSE\_data\_panel

**Code:** ENCLOSE\_Latent\_traits\_estimation\_configural\_clean.Rmd

**Output:** h\_ENCLOSE\_data\_panel\_latenttraits\_configural.RData

*Description:*

Estimates latent traits under a configural model to capture underlying constructs (e.g., satisfaction, trust).

---

## 2. Matching Methods

### 2.1 Propensity Score Matching – Nearest Neighbor

**Input:** h\_ENCLOSE\_data\_panel\_latenttraits\_configural.RData

**Code:** ENCLOSE\_pseudo\_panel\_psm\_nn\_clean.Rmd

**Output:**

- ENCLOSE\_pseudopanel\_psm\_nearest.RData
  - PSM\_nearest\_results.xlsx
- 

### 2.2 Propensity Score Matching – Optimal

**Code:** ENCLOSE\_pseudo\_panel\_psm\_optimal\_clean.Rmd

**Output:**

- ENCLOSE\_pseudopanel\_psm\_optimal.RData
  - PSM\_optimal\_results.xlsx
-

## 2.3 Propensity Score Matching – Full Optimal

**Code:** ENCLOSE\_pseudo\_panel\_psm\_full\_clean.Rmd

**Output:**

- ENCLOSE\_pseudopanel\_psm\_full.RData
  - PSM\_full\_results.xlsx
- 

## 2.4 Hotdeck Imputation

**Code:** ENCLOSE\_pseudo\_panel\_hotdeck\_clean.Rmd

**Output:**

- ENCLOSE\_pseudopanel\_hotdeck.RData
- hotdeck\_change\_significance\_by\_country.xlsx

**Plots:**

- density\_SATISFACTION\_hotdeck.png (original vs. imputed)
  - density\_TRUST\_hotdeck.png (original vs. imputed)
  - density\_SATISFACTION\_1823\_hotdeck.png (2018–2023 comparison)
  - density\_TRUST\_1823\_hotdeck.png (2018–2023 comparison)
- 

## 2.5 Predictive Mean Matching (PMM)

**Code:** ENCLOSE\_pseudo\_panel\_pmm\_clean.Rmd

**Output:**

- ENCLOSE\_pseudopanel\_hotdeck.RData
- hotdeck\_change\_significance\_by\_country.xlsx

**Plots:**

- density\_SATISFACTION\_hotdeck.png
  - density\_TRUST\_hotdeck.png
  - density\_SATISFACTION\_1823\_hotdeck.png
  - density\_TRUST\_1823\_hotdeck.png
-

# 3. Summary Workflow Diagram

