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

 $\textbf{Code:} \ \, \texttt{ENCLOSE_pseudo_panel_hotdeck_clean.Rmd}$

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)

 $\textbf{Code:} \ \, \texttt{ENCLOSE_pseudo_panel_pmm_clean.Rmd}$

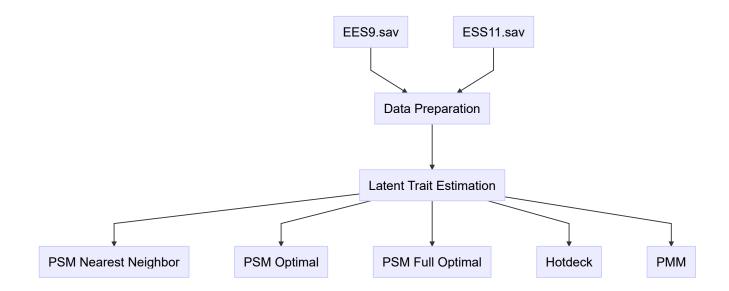
Output:

- 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



.