

Supplementary Materials

Opportunities for Promoting Healthy Homes and Long-Lasting Energy-Efficient Behaviour among Families with Children in Portugal

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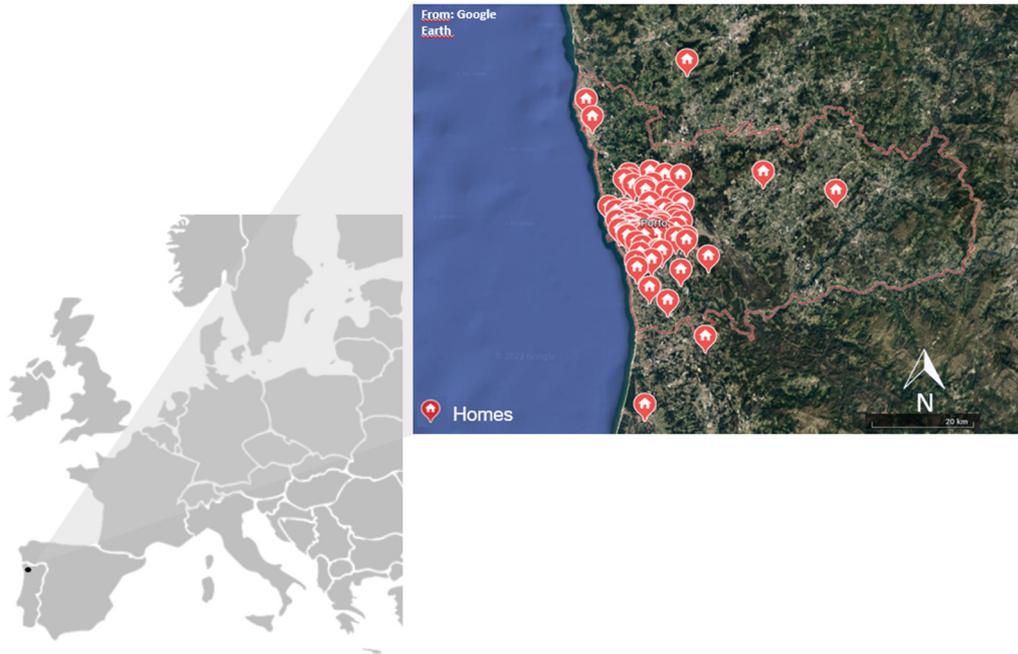


Figure S1. Location of homes of families with children engaged for the PT pilot in the region of Porto (Northern Region, Portugal, Southern Europe).

Table S1. Statistical analyses results.

Variables	Statistical test	Result	Significance
Electricity consumption			
Season	Mann-Whitney <i>U</i>	$U = 1235.0, z = -2.589$	$p = 0.009^*$
Area	Spearman method	$r_s = 0.366$	$p = 0.002^*$
Homes built before 1980 vs. more recent buildings	Mann-Whitney <i>U</i>	$U = 179.0, z = -3.042$	$p = 0.002^*$
Single-family houses vs. flats	Mann-Whitney <i>U</i>	$U = 385.0, z = -2.697$	$p = 0.007^*$
Number of occupants	Spearman method	$r_s = 0.187$	$p = 0.113$
Number of children	Spearman method	$r_s = 0.193$	$p = 0.107$
Occupancy density	Spearman method	$r_s = -0.244$	$p = 0.042^*$
Only internal solar shading	Mann-Whitney <i>U</i>	$U = 487.5, z = -0.640$	$p = 0.527$
Openable windows oriented to the North	Mann-Whitney <i>U</i>	$U = 387.5; z = -2.789$	$p = 0.005^*$
Number of windows oriented to the North	Spearman method	$r_s = 0.296$	$p = 0.012^*$
Natural gas consumption			
Season	Mann-Whitney <i>U</i>	$U = 298.0, z = -3.474$	$p < 0.001^*$
Area	Spearman method	$r_s = 0.405$	$p = 0.008^*$
Homes built before 1980 vs. more recent buildings	Mann-Whitney <i>U</i>	$U = 12.0, z = -1.654$	$p = 0.114$
Single-family houses vs. flats	Mann-Whitney <i>U</i>	$U = 117.0, z = -1.530$	$p = 0.131$
Number of occupants	Spearman method	$r_s = 0.452$	$p = 0.003^*$
Number of children	Spearman method	$r_s = 0.166$	$p = 0.293$
Occupancy density	Spearman method	$r_s = -0.351$	$p = 0.023^*$
Only internal solar shading	Mann-Whitney <i>U</i>	$U = 154.0, z = -1.273$	$p = 0.210$
Openable windows oriented to the North	Mann-Whitney <i>U</i>	$U = 131.0, z = -2.211$	$p = 0.027^*$
Number of windows oriented to the North	Spearman method	$r_s = 0.349$	$p = 0.024^*$
Electricity costs			
Season	Mann-Whitney <i>U</i>	$U = 185.0, z = -8.261$	$p < 0.001^*$
Homes built before 1980 vs. more recent buildings	Mann-Whitney <i>U</i>	$U = 146.0, z = -3.518$	$p < 0.001^*$
Single-family houses vs. flats	Mann-Whitney <i>U</i>	$U = 319.0, z = -3.451$	$p < 0.001^*$
Natural gas costs			
Season	Mann-Whitney <i>U</i>	$U = 319.0, z = -3.220$	$p = 0.001^*$
Homes built before 1980 vs. more recent buildings	Mann-Whitney <i>U</i>	$U = 6.0, z = -2.008$	$p = 0.037^*$
Single-family houses vs. flats	Mann-Whitney <i>U</i>	$U = 122.0, z = -1.387$	$p = 0.172$
Moisture-related pathologies/Signs of dampness			
Openable windows oriented to the North	Pearson's chi-square	$\chi^2 = 5.70$	$p = 0.024^*$
Use of dehumidifiers	Pearson's chi-square	$\chi^2 = 2.93$	$p = 1.000$
Use of air conditioners	Pearson's chi-square	$\chi^2 = 1.71$	$p = 0.243$
Use of dehumidifiers or air conditioners	Pearson's chi-square	$\chi^2 = 0.36$	$p = 0.679$
Control of indoor temperature through a thermostat	Pearson's chi-square	$\chi^2 = 2.63$	$p = 0.116$
Central heating	Pearson's chi-square	$\chi^2 = 0.11$	$p = 0.836$
Physical pathologies	Pearson's chi-square	$\chi^2 = 14.79$	$p < 0.001^*$
Natural plants	Pearson's chi-square	$\chi^2 = 2.75$	$p = 0.141$
Wood for heating	Pearson's chi-square	$\chi^2 = 0.75$	$p = 0.508$
Homes built before 1980 vs. more recent buildings	Pearson's chi-square	$\chi^2 = 0.00$	$p = 1.000$
Number of windows	Mann-Whitney <i>U</i>	$U = 1120.5, z = -0.541$	$p = 0.592$

Always opening windows during cleaning	Pearson's chi-square	$\chi^2 = 0.05$	$p = 1.000$
Physical pathologies			
Homes built before 1980 vs. more recent buildings	Pearson's chi-square	$\chi^2 = 0.26$	$p = 0.756$
Questionnaire data			
Household income vs. central heating	Welch t-test	$t = -1.405$	$p = 0.165$
Self-perceived economic status vs. central heating	Welch t-test	$t = -3.623$	$p < 0.001$ *
Self-perceived air quality vs. self-perceived economic status	Kendalls' tau test	$\tau = -0.048$	$p = 0.605$
Self-perceived air quality vs. monthly income	Kendalls' tau test	$\tau = -0.014$	$p = 0.878$

*Statistically significant: $p < 0.05$.