

Supplementary Material

Table S1: Model Fit Statistics for Latent Profile Analysis with 1 Through 10 Profiles

Number of profiles	LL	BIC	AIC	CAIC	SABIC	Entropy
1	−87224.5	174679.3	174502.9	174706.3	174593.5	1.000
2	−78556.1	157581.3	157222.1	157636.3	157406.5	0.882
3	−74198.3	149104.6	148562.6	149187.6	148840.9	0.899
4	−71653.4	144253.8	143528.9	144364.8	143901.0	0.902
5	−70092.1	141369.9	140462.2	141508.9	140928.3	0.909
6	−68727.3	138879.2	137788.6	139046.2	138348.5	0.910
7	−67456.6	136576.7	135303.3	136771.7	135957.0	0.900
8	−66267.5	134437.3	132981.1	134660.3	133728.7	0.909
9	−65684.0	133509.1	131870.0	133760.1	132711.5	0.919
10	−64687.8	131755.6	129933.6	132034.6	130869.0	0.908

Bolded row indicates final model selection.

LL: log-likelihood.

AIC: Akaike Information Criterion.

CAIC: Consistent Akaike Information Criterion.

BIC: Bayesian Information Criterion.

SABIC: Sample-size-adjusted BIC.

Entropy: a measure of the precision of classification, higher value indicates greater precision.

Table S2: Posterior Probabilities for Each Built Environment Profile

Profile	% children in profile	Profile 1	Profile 2	Profile 3	Profile 4	Profile 5
Average neighbourhood	37.4	0.944 (0.111)	0.016 (0.063)	0.012 (0.052)	0.021 (0.063)	0.007 (0.041)
Established neighbourhood	22.5	0.024 (0.074)	0.973 (0.083)	0.000 (0.000)	0.004 (0.027)	0.000 (0.000)
Low destinations and transport mix	16.0	0.033 (0.091)	0.000 (0.003)	0.920 (0.138)	0.027 (0.082)	0.020 (0.067)
Connected housing	14.3	0.035 (0.092)	0.004 (0.030)	0.024 (0.078)	0.937 (0.124)	0.000 (0.003)
Disconnected semi-rural	9.9	0.021 (0.071)	0.000 (0.000)	0.024 (0.066)	0.002 (0.027)	0.953 (0.107)

Diagonal cells (bold) indicate likelihood of being in assigned profile. Percentage of children in profile using proportional classification.

