

Table 1. Study Areas

<i>Intervention Area Type (IAT) and Study Areas</i>	Initial Population	Response (Wave 1)	Response (Wave 4)	Area Definition
<i>Transformational Regeneration Areas (TRAs):</i>				
Red Road	2473	44% ¹	52%	Intervention area
Shawbridge	1624	39%	44%	Intervention area
Sighthill	4146	54%	44%	Intervention area
<i>Local Regeneration Areas (LRAs):</i>				
Gorbals Riverside	635	59%	43%	Intervention area
Scotstoun Central	1521	41% ²	39%	Intervention area
St Andrews Drive	780	46%	35%	Intervention area
<i>Wider Surrounding Areas (WSAs):</i>				
Red Road Wider Area	8181	44% ¹	46%	Three adjacent communities
Scotstoun Wider Area	3641	41% ²	45%	Two adjacent communities
<i>Housing Improvement Areas (HIAs):</i>				
Birness Drive	596	40% ³	46%	Estate boundary
Carntyne	2484	60%	39%	Main areas of social housing
Govan	983	65%	58%	Main areas of social housing
Riddrie	4483	63%	51%	Main areas of social housing
Townhead	1287	59%	62%	Main areas of social housing
<i>Peripheral Estates (PEs):</i>				
Castlemilk	4526	50%	47%	Eastern half of the estate
Drumchapel	7957	43%	50%	Northern half of the estate

1. Combined response rate for Red Road and Wider Red Road.
2. Combined response rate for Scotstoun Central and Wider Scotstoun.
3. Birness Drive added at Wave 2.

Table 2. Independent variables representing residential environmental factors

		Very/strongly: good, satisfied, agree	Good/satisfied/agree	Neutral/negative
<i>Physical Environment:</i>				
Home satisfaction	Overall, how satisfied or dissatisfied are you with your current home?	2	1	0
	My home makes me feel that I'm doing well in my life	2	1	0
Housing occupancy	Total number of persons in household ÷ total number of rooms	Continuous measure: ratio of persons per room		
Neighbourhood satisfaction	Satisfaction with neighbourhood as a place to live	2	1	0
	Living in this neighbourhood helps make me feel that I'm doing well in my life	2	1	0
<i>Services Environment:</i>				
	How would you rate the quality of the following services in and around your local area?			
	Parks/open spaces	2	1	0
	Children's play areas	2	1	0
	Schools	2	1	0
	Childcare or nurseries	2	1	0
Quality of local services	Shops	2	1	0
	Youth and leisure services	2	1	0
	Policing	2	1	0
	Public transport	2	1	0
	Rubbish collection	2	1	0
	Health centre/GP	2	1	0
<i>Economic Environment:</i>				
Employment status	Respondent in employment or full-time education	Binary variable: 1=employed/education; 0=not		
Working households	Household contains one or more adult in employment	Binary variable: 1=1+member working; 0 = none		
<i>Social Environment:</i>				
Feeling safe	How safe would you feel walking alone in the neighbourhood after dark?	2	1	0
	Likely someone would intervene if group of youths were harassing someone in the area	2	1	0
Community cohesion	Someone who lost a purse/wallet around here would be likely to have it returned without anything missing	2	1	0

Social support	How many people could you ask to go to the shops for you if you are unwell?	more than two =2	one or two =1	none/would not ask = 0
	How many people could you ask to lend you money to see you through next few days?	more than two =2	one or two =1	none/ would not ask = 0
	How many people could you ask to give you advice and support in a crisis?	more than two =2	one or two =1	none/ would not ask = 0
<i>Psychosocial Environment:</i>				
Housing tenure	Whether or not an owner occupier		Binary variable: 1=owner; 0=renter	
External area reputation	Many people in Glasgow think this neighbourhood has a bad reputation	2	1	0
Internal area reputation	People who live in this neighbourhood think highly of it	2	1	0
Neighbourhood empowerment	On your own, or with others, you can influence decisions affecting your local area	2	1	0
Housing empowerment	Willingness of landlord/factor to take account of residents' views in making decisions	2	1	0

Table 3. Socio-demographic and outcome variables at both time points.

Variable	Wave 1		Wave 4	
	Mean	SD	Mean	SD
Age	48.86	17.81	50.60	18.06
Occupancy (persons per room)	0.79	0.46	0.64	0.36
SF-12 PCS	47.98	10.61	44.73	13.70
SF-12 MCS	48.49	9.88	48.90	11.89
Female	0.60		0.59	
Male	0.40		0.41	
Working	0.39		0.42	
Not working	0.32		0.31	
Retired	0.29		0.28	
Workless household	0.69		0.59	
1+member working household	0.69		0.59	
Long-term illness	0.24		0.38	
No long-term illness	0.76		0.62	
White British/Irish	0.84		0.83	
Other ethnicity-citizenship	0.16		0.17	
Adult household	0.43		0.50	
Single-parent household	0.17		0.12	
Dual-parent household	0.15		0.13	
Older-person household	0.25		0.25	
Long-term residence (>10 y)	0.55		0.57	
Not long-term residence (<10 y)	0.45		0.43	
Owner-occupier	0.23		0.17	
Renteroccupier	0.77		0.83	
Smoker	0.43		0.40	
Non-smoker	0.58		0.60	
Drinker	0.36		0.55	
Non-drinker	0.64		0.45	

Wave 1 minimum sample size per variable = 3,648; maximum sample = 5,956.

Wave 4 minimum sample size = 3,738; maximum = 3,827

Table 4. Parameter estimates (and standard deviations) from multivariate regression models of physical health scores (SF-12 PCS).

	Wave 1				Wave 4			
	(1)	(2)	(3)	(4)	(1)	(2)	(3)	(4)
Intervention Area Type (Ref: Housing Improvement Area)								
Transformational Regeneration Area	3.05 (0.40)**	-0.32 (0.38)	-0.69 (0.51)	-1.77 (1.87)	-2.92 (0.85)**	-1.38 (0.61)*	-1.29 (0.76)	-1.42 (3.35)
Local Regeneration Area	2.45 (0.49)**	-0.38 (0.43)	-0.77 (0.52)	-0.45 (2.03)	1.96 (0.73)**	0.55 (0.54)	-0.07 (0.68)	-0.05 (2.81)
Wider Surrounding Area	3.15 (0.43)**	1.32 (0.36)**	0.85 (0.55)	4.76 (2.36)*	1.07 (0.64)	-0.52 (0.47)	0.08 (0.61)	6.77 (2.76)*
Peripheral Estates	2.73 (0.40)**	1.07 (0.35)**	0.94 (0.46)*	5.59 (1.93)**	0.13 (0.66)	-0.47 (0.49)	-0.74 (0.58)	1.35 (2.52)
Not in GoWell	-	-	-	-	-0.48 (0.96)	-0.93 (0.71)	-0.13 (0.84)	1.76 (3.55)
Socio Demographics:								
Age 40-64 (Ref: Age 25-39)		-2.36 (0.30)**	-2.54 (0.37)**	-2.63 (0.37)**		-3.11 (0.43)**	-2.78 (0.50)**	-2.81 (0.51)**
Age 65+ (Ref: Age 25-39)		-3.53 (0.65)**	-1.14 (0.89)	-1.27 (0.89)		-7.20 (1.78)**	-10.54 (2.49)**	-9.92 (2.50)**
Female (Ref: Male)		-0.69 (0.25)**	-0.51 (0.32)	-0.43 (0.32)		-0.63 (0.34)	-0.07 (0.43)	-0.11 (0.43)
Illness (Ref: No) Yes		-10.36 (0.29)**	-9.95 (0.38)**	-10.10 (0.38)**		-14.33 (0.40)**	-12.92 (0.49)**	-12.92 (0.49)**
British/Irish (Ref: Not British/Irish)		-1.72 (0.42)**	-2.58 (0.52)**	-2.58 (0.54)**		0.12 (0.53)	-0.48 (0.65)	-0.06 (0.67)
Single-Parent (Ref: Adult Household)		0.71 (0.37)	0.61 (0.48)	0.64 (0.48)		0.90 (0.56)	0.63 (0.69)	0.49 (0.70)
Double-parent (Ref: Adult Household)		0.41 (0.37)	0.59 (0.55)	0.67 (0.56)		0.58 (0.55)	0.60 (0.76)	0.48 (0.77)
Older (Ref: Adult Household)		-0.45 (0.53)	-1.51 (0.74)*	-1.28 (0.74)		-1.06 (1.70)	4.61 (2.43)	3.97 (2.45)
Time in Area >10 Yr. (Ref: No) Yes		0.30 (0.28)	0.29 (0.36)	0.30 (0.36)		-0.36 (0.39)	-0.49 (0.47)	-0.55 (0.48)
Smoker (Ref: No) Yes		-0.06 (0.25)	-0.42 (0.31)	-0.35 (0.31)		0.06 (0.35)	-0.11 (0.42)	-0.11 (0.43)
Drinker (Ref: No) Yes		1.38 (0.25)**	1.64 (0.32)**	1.68 (0.32)**		0.79 (0.35)*	0.59 (0.42)	0.56 (0.42)
Owned (Ref: Rented)		0.25 (0.30)	-3.91 (0.88)**	-3.65 (0.90)**		0.29 (0.47)	0.30 (0.74)	0.30 (0.77)
Economic Environment:								
Working/Education (Ref: Not Working)		3.21 (0.36)**	2.84 (0.44)**	3.22 (1.01)**		3.48 (0.54)**	3.59 (0.63)**	2.44 (1.05)*
Retired (Ref: Not Working)		0.26 (0.50)	-0.68 (0.65)	0.50 (0.99)		1.49 (0.70)*	1.10 (0.86)	0.45 (1.21)
1+ Member Working (Ref: No) Yes		0.91 (0.35)*	0.91 (0.44)*	1.12 (0.44)*		0.59 (0.48)	0.31 (0.58)	0.22 (0.59)
Physical Environment:								
Home Satisfaction			0.55 (0.17)**	-0.08 (0.44)			0.14 (0.22)	-0.06 (0.48)
Occupancy Rate			0.01 (0.42)	0.97 (1.20)			-0.99 (0.72)	-0.33 (1.27)
Neighbourhood Satisfaction			0.68 (0.20)**	1.29 (0.49)**			-0.15 (0.25)	0.75 (0.52)
Services Environment:								
Services Quality			0.05 (0.05)	0.09 (0.12)			0.13 (0.05)*	0.15 (0.10)
Social Environment:								
Safety			0.10 (0.24)	-0.92 (0.57)			0.43 (0.30)	1.20 (0.61)*
Community Cohesion			0.00 (0.18)	1.32 (0.45)**			-0.06 (0.21)	-0.86 (0.42)*
Social Support			0.06 (0.09)	0.30 (0.23)			-0.13 (0.10)	-0.02 (0.20)
Psychosocial Environment:								
Neighbourhood External Reputation			-0.19 (0.23)	-2.17 (0.62)**			0.12 (0.29)	0.14 (0.64)

Neighbourhood Internal Reputation			0.08 (0.28)	0.72 (0.68)				-0.78 (0.39)*	-1.13 (0.82)
Power			-1.88 (0.32)**	-2.05 (0.79)*				1.26 (0.35)**	0.66 (0.70)
Landlord Views			0.81 (0.26)**	0.80 (0.67)				-0.45 (0.33)	0.18 (0.69)
Interaction:									
TRA*Neighbourhood External Reputation				2.89 (0.77)**					2.19 (1.16)
TRA*Community Cohesion				-1.91 (0.59)**					-
TRA*Working/Education				-					3.74 (2.08)
LRA*Neighbourhood External Reputation				2.47 (0.84)**					-
LRA*Landlord views				1.68 (0.94)					-
LRA*Retired				-2.81 (1.27)*					-
PE*Home Satisfaction				1.13 (0.54)*					-
PE*Neighbourhood satisfaction				-1.40 (0.62)*					-2.54 (0.71)**
PE*Neighbourhood External Reputation				1.97 (0.76)*					-
PE*Safety				1.70 (0.72)*					-
PE*Power				-					1.63 (0.97)
PE*Social Security				-0.66 (0.29)*					-
PE*Community Cohesion				-1.45 (0.55)**					0.97 (0.58)
PE*Occupancy				-3.23 (1.46)*					-
PE*Retired				-					2.48 (1.46)
WSA*Neighbourhood External Reputation				1.62 (0.91)					-
WSA*Safety				-					-2.37 (0.99)*
WSA*Community Cohesion				-1.86 (0.66)**					1.62 (0.64)*
WSA*Occupancy				-					-3.96 (1.81)*
Not GoWell*Neighbourhood satisfaction				-					-2.16 (1.08)*
Not GoWell*Social Security				-					-1.01 (0.43)*
Not GoWell*Working/Education				-					4.25 (1.89)*
Constant	45.75 (0.29)**	51.41 (0.54)**	50.96 (0.90)**	49.20 (1.62)**	44.48 (0.44)**	51.56 (0.69)**	51.49 (1.18)**	49.59 (1.93)**	
Adjusted R Square	0.01	0.36	0.36	0.37	0.01	0.50	0.45	0.46	
F	20.13	173.24	61.78	24.48	6.34	187.06	61.77	21.10	
df	4	19	30	82	5	20	31	96	

Notes: TRA, Transformational Regeneration Area; LRA, Local Regeneration Area; WSA, Wider Surrounding Area; HIA, Housing Improvement Area; PE, Peripheral Estate; RLA, Relocation Area; Statistical significance is represented by **, * for P<0.01, P<0.05 respectively.

Table 5. Parameter estimates (and standard deviations) from multivariate regression models of mental health scores (SF-12 MCS).

	Wave 1				Wave 4			
	(1)	(2)	(3)	(4)	(1)	(2)	(3)	(4)
Intervention Area Type (Ref: Housing Improvement Area)								
Transformational Regeneration Area	-0.14 (0.37)	-0.20 (0.42)	0.28 (0.56)	-2.25 (2.05)	1.04 (0.73)	2.02 (0.67)**	2.43 (0.83)**	5.55 (3.63)
Local Regeneration Area	-0.39 (0.45)	-0.48 (0.46)	0.26 (0.59)	0.67 (2.22)	-1.89 (0.63)**	-1.06 (0.59)	-0.64 (0.75)	-6.38 (3.04)*
Wider Surrounding Area	2.12 (0.40)**	1.14 (0.39)**	0.35 (0.61)	4.91 (2.59)	2.03 (0.55)**	1.09 (0.51)*	1.40 (0.67)*	-0.25 (2.99)
Peripheral Estates	1.67 (0.38)**	1.33 (0.38)**	1.47 (0.51)**	3.21 (2.11)	-1.07 (0.57)	0.10 (0.53)	0.50 (0.63)	5.74 (2.73)*
Not in GoWell	-	-	-	-	-3.94 (0.83)**	-1.66 (0.78)*	-1.19 (0.92)	-2.85 (3.84)
Socio Demographics:								
Age 40-64 (Ref: Age 25-39)		-1.28 (0.32)**	-0.79 (0.41)	-0.80 (0.41)		-1.16 (0.47)*	-0.86 (0.55)	-0.80 (0.55)
Age 65+ (Ref: Age 25-39)		-1.41 (0.71)*	-1.14 (0.98)	-1.44 (0.98)		2.27 (1.94)	-1.34 (2.73)	-0.86 (2.71)
Female (Ref: Male)		-1.28 (0.27)**	-1.02 (0.35)**	-0.97 (0.35)**		-1.72 (0.37)**	-2.06 (0.47)**	-1.99 (0.47)**
Illness (Ref: No) Yes		-5.42 (0.32)**	-6.05 (0.42)**	-6.06 (0.42)**		-5.69 (0.44)**	-6.22 (0.53)**	-5.97 (0.53)**
British/Irish (Ref: Not British/Irish)		-0.27 (0.46)	-0.77 (0.58)	-1.09 (0.59)		-2.85 (0.58)**	-2.63 (0.71)**	-2.71 (0.72)**
Single-Parent (Ref: Adult Household)		-0.03 (0.41)	0.61 (0.53)	0.39 (0.52)		-0.29 (0.61)	0.35 (0.75)	0.41 (0.76)
Double-parent (Ref: Adult Household)		0.28 (0.40)	0.43 (0.61)	0.10 (0.61)		0.38 (0.60)	-0.04 (0.83)	-0.05 (0.84)
Older (Ref: Adult Household)		0.93 (0.58)	1.10 (0.82)	1.43 (0.81)		1.95 (1.85)	4.12 (2.67)	3.30 (2.65)
Time in Area >10 Yr. (Ref: No) Yes		1.02 (0.30)**	0.24 (0.40)	0.17 (0.39)		0.88 (0.43)*	1.12 (0.51)*	0.79 (0.52)
Smoker (Ref: No) Yes		-0.74 (0.27)**	-0.44 (0.35)	-0.38 (0.34)		-1.60 (0.39)**	-0.89 (0.46)	-0.68 (0.46)
Drinker (Ref: No) Yes		1.10 (0.27)**	1.14 (0.36)**	1.18 (0.35)**		0.72 (0.38)	0.52 (0.46)	0.57 (0.46)
Owned (Ref: Rented)		0.77 (0.33)*	-1.12 (0.97)	-0.17 (0.98)		2.08 (0.51)**	2.28 (0.81)**	2.06 (0.83)*
Economic Environment:								
Working/Education (Ref: Not Working)		2.46 (0.39)**	2.14 (0.49)**	1.80 (1.11)		3.81 (0.59)**	2.45 (0.70)**	2.66 (1.13)*
Retired (Ref: Not Working)		1.55 (0.54)**	1.20 (0.72)	0.81 (1.08)		3.62 (0.76)**	3.29 (0.94)**	3.85 (1.31)**
1+ Member Working (Ref: No) Yes		1.38 (0.38)**	1.46 (0.49)**	1.52 (0.48)**		1.97 (0.52)**	2.08 (0.64)**	1.87 (0.64)**
Physical Environment:								
Home Satisfaction			0.43 (0.19)*	1.17 (0.48)*			0.61 (0.25)*	0.92 (0.52)
Occupancy Rate			-0.46 (0.47)	0.25 (1.31)			1.63 (0.79)*	1.75 (0.11)
Neighbourhood Satisfaction			1.44 (0.22)**	1.06 (0.54)			0.10 (0.27)	-0.16 (0.56)
Services Environment:								
Services Quality			0.11 (0.05)*	0.37 (0.13)**			0.14 (0.05)*	0.05 (1.38)
Social Environment:								
Safety			0.83 (0.27)**	-0.55 (0.63)			1.10 (0.33)**	1.49 (0.66)*
Community Cohesion			0.86 (0.20)**	-0.03 (0.49)			-0.12 (0.23)	-0.83 (0.45)
Social Support			-0.09 (0.10)	-0.16 (0.25)			0.81 (0.11)**	0.98 (0.22)**
Psychosocial Environment:								
Neighbourhood External Reputation			0.82	0.29			-2.62	-3.02

			(0.26)**	(0.68)			(0.32)**	(0.69)**	
Neighbourhood Internal Reputation			0.03	-0.35			-0.60	0.63	
			(0.30)	(0.75)			(0.42)	(0.89)	
Power			-1.04	0.24			-0.95	-1.28	
			(0.36)**	(0.87)			(0.38)*	(0.76)	
Landlord Views			1.21	1.89			0.52	0.15	
			(0.29)**	(0.73)*			(0.36)	(0.75)	
Interactions:									
TRA*NHD Satisfaction				-				-2.05	
								(1.13)	
TRA*Safety				1.74				-	
				(0.84)*					
TRA*Social security				0.53				-	
				(0.31)					
TRA*Community Cohesion				-				2.32	
								(0.92)*	
LRA*Home Satisfaction				-1.92				-	
				(0.65)**					
LRA*Nhd external reputation				2.15				-	
				(0.92)*					
LRA*Nhd internal reputation				-2.93				-	
				(1.07)**					
LRA*Safety				2.72				-	
				(0.91)**					
LRA*Power				-				2.26	
								(1.29)	
LRA*Services				-0.37				-	
				(0.18)*					
LRA*Community Cohesion				2.45				-	
				(0.69)**					
WSA*Landlord views				-2.91				-	
				(1.08)**					
WSA*Nhd external reputation				-				2.73	
								(1.02)**	
WSA*Social security				-				-0.61	
								(0.33)	
WSA*Community Cohesion				-				2.40	
								(0.70)**	
WSA*Retired				-				4.19	
								(1.89)*	
WSA*Working				-				3.18	
								(1.52)*	
WSA*Services				-0.55				-	
				(0.18)**					
PE*Nhd internal reputation				2.91				-2.84	
				(0.93)**				(1.20)*	
PE*Services				-0.28				-	
				(0.17)					
PE*Retired				-				-2.71	
								(1.58)	
Constant	47.80	48.35	43.63	43.33	49.10	49.62	44.14	44.01	
	(0.27)**	(0.59)**	(0.10)**	(1.78)**	(0.38)**	(0.75)**	(1.29)**	(2.09)**	
Adjusted R Square	0.01	0.13	0.18	0.21	0.02	0.22	0.27	0.29	
F	15.48	44.91	24.12	11.55	15.19	51.46	27.68	10.82	
df	4	19	30	82	5	20	31	96	

Notes: TRA, Transformational Regeneration Area; LRA, Local Regeneration Area; WSA, Wider Surrounding Area; HIA, Housing Improvement Area; PE, Peripheral Estates; Statistical significance is represented by ** & * for P<0.01 & P<0.05 respectively.