## 1. Setup

• Sampling: GHS picked a set of 2001 census EAs, then sampled HHs and followed these HHs for 3 (or 4) years, then repeated the process with new EAs. Here are counts for EAs in each round within 4km of projects

1. 2005-2007: 214 EAs

2. 2008-2012: 236 EAs

3. 2012-2014: 333 EAs

4. 2015-2017: 538 EAs

## • Empirical strategy:

- $-y_{ite} = \beta_0 + \beta_1 post_t + \beta_2 proj_e + \beta_3 post_t X proj_e + \beta_4 spill_e + \beta_5 post_t X spill_e + \delta_p \epsilon$
- *e* is EA, *t* is year, *i* is HH, *post* is year ≥ 2008
- $\delta_p$  is a project by location (either spill, proj, or outside) fixed effect

## • Notes:

- We're essentially picking up the second half of the constructed project effects. Table 1 finds that in project areas, there's about 20% more subsidized housing in 2005-2007, which jumps by 24% in 2008-2017
- I don't do the triple-difference because many of the planned but unconstructed projects may be getting finished over this period (I tried it and got weird results consistent with this theory)
- the Non-RDP results limit the sample to Non-RDP houses only so we can see what happens to non-project housing quality!
- errors are clustered at project level, also results are weighted by EA area and control for EA area cubic in pre and post periods

## 2. Results

Table 1. GHS RDP House

	(1) Project House
inside $\times$ post	0.209 <sup>b</sup> (0.096)
0-500m away × post	0.034 (0.199)
Mean R <sup>2</sup> N	0.21 0.63 93,620

c p<0.10,b p<0.05,a p<0.01

 Table 2. Triple Difference Estimates on Log-Prices (Old version)

	(1)	(2)
All Projects		
inside project	-0.197	-0.186
	(0.222)	(0.217)
0-500m outside project	-0.048	-0.044
1 ,	(0.061)	(0.061)
Lot Size Controls		$\checkmark$
r2	0.52	0.52
N	67,751	67,751
Greenfield		
inside project	0.118	-0.010
- ,	(0.167)	(0.172)
0-500m outside project	0.171	0.185
	(0.164)	(0.162)
In-Situ Upgrading		
inside project	0.082	0.142
• ,	(0.308)	(0.286)
0-500m outside project	-0.179 <sup>c</sup>	-0.177 <sup>b</sup>
1 /	(0.091)	(0.089)
Other		
inside project	-0.321	-0.280
1 )	(0.274)	(0.267)
0-500m outside project	0.045	0.047
1 ,	(0.079)	(0.079)
Lot Size Controls		$\checkmark$
r2	0.52	0.52
N	67,751	67,751

Standard errors clustered at the project level in parenthesis.  $^{\rm c}$  p<0.10, $^{\rm b}$  p<0.05, $^{\rm a}$  p<0.01

**Table 3.** Triple Difference Estimates on Log-Prices (New)

	(1)	(2)
All Projects		
inside project	-0.211	-0.213
	(0.226)	(0.216)
0-500m outside project	-0.048	-0.035
1 )	(0.053)	(0.052)
Lot Size/Year-Month		$\checkmark$
r2	0.52	0.52
N	67,756	67,756
Greenfield		
inside project	0.247	0.074
• ,	(0.203)	(0.160)
0-500m outside project	-0.008	0.016
• ,	(0.129)	(0.130)
In-Situ Upgrading		
inside project	0.142	0.174
• ,	(0.304)	(0.289)
0-500m outside project	-0.065	-0.054
• ,	(0.069)	(0.067)
Other		
inside project	-0.420	-0.361
• ,	(0.269)	(0.261)
0-500m outside project	-0.010	0.005
• ,	(0.076)	(0.074)
Lot Size/Year-Month		$\checkmark$
r2	0.52	0.52
N	67,756	67,756

Standard errors clustered at the project level in parenthesis.  $^{\rm c}$  p<0.10, $^{\rm b}$  p<0.05, $^{\rm a}$  p<0.01

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	Own	Rent-free	For.	Inf. (non-bkyd)	Inf. bkyd	Brick Walls	Wall Qual. (1 to 5)	Tile Roof	Roof Qual. (1 to 5)
All Houses									
inside $\times$ post	-0.509 <sup>a</sup> (0.182)	0.397 <sup>a</sup> (0.129)	0.139 (0.157)	-0.205 <sup>c</sup> (0.106)	0.030 (0.030)	0.164 (0.135)	-0.006 (0.138)	-0.059 (0.045)	-0.006 (0.145)
0-500m away $\times$ post	-0.181 (0.115)	0.109 <sup>c</sup> (0.057)	0.046 (0.179)	-0.065 (0.133)	0.058 (0.068)	0.112 (0.136)	0.100 (0.258)	-0.116 <sup>b</sup> (0.049)	0.046 (0.287)
Mean R <sup>2</sup> N	0.52 0.29 93,620	0.18 0.27 93,620	0.70 0.41 93,620	0.19 0.45 93,620	0.09 0.16 93,620	0.78 0.37 93,620	3.74 0.38 92,444	0.23 0.55 93,620	3.66 0.35 92,403

-0.081

(0.080)

0.46

73,771

0.105

(0.079)

0.23

73,771

-0.028

(0.104)

0.43

73,771

0.074

(0.142)

0.39

72,804

-0.085

(0.054)

0.48

73,771

0.014

(0.165)

0.39

72,776

**Table 4.** Type of Houses

c p<0.10,b p<0.05,a p<0.01

**Non-Project Houses** 

-0.355<sup>b</sup>

(0.170)

0.27

73,771

 $0.154^{b}$ 

(0.076)

0.23

73,771

-0.140<sup>c</sup>

(0.074)

0.43

73,771

inside  $\times$  post

 $\mathbb{R}^2$ 

N

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**Table 5.** Services

	Toilet on site	Share toilet	Piped water	Water In- terruptions	B/c of pipe breaks	Connected to elec. util.	Elec. for cooking	Town picks up trash
All Houses								
inside $\times$ post	0.293 <sup>c</sup> (0.167)	0.165 <sup>a</sup> (0.053)	0.038 (0.046)	0.046 (0.082)	-0.031 (0.118)	0.353 <sup>c</sup> (0.184)	0.439 <sup>a</sup> (0.156)	0.130 <sup>c</sup> (0.074)
0-500m away × post	0.210 <sup>c</sup> (0.114)	0.119 (0.103)	0.118 (0.130)	0.310 <sup>a</sup> (0.078)	-0.116 (0.250)	0.061 (0.171)	0.134 (0.185)	-0.066 (0.042)
Mean R <sup>2</sup> N	0.85 0.62 91,145	0.33 0.29 90,484	0.93 0.36 93,620	0.38 0.27 93,620	0.49 0.25 30,707	0.86 0.46 93,620	0.85 0.45 78,496	0.92 0.65 93,620
Non-Project Houses								
$inside \times post$	0.215 (0.150)	0.337 <sup>a</sup> (0.119)	0.076 (0.051)	-0.010 (0.083)	0.103 (0.094)	0.172 (0.116)	0.306 <sup>a</sup> (0.104)	0.093 (0.078)
$R^2$ N	0.63 71,635	0.31 71,126	0.37 73,771	0.30 73,771	0.28 23,963	0.46 73,771	0.47 62,182	0.65 73,771

c p<0.10,b p<0.05,a p<0.01

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 Table 6. Demographics

	Move dwell-type	HH size	Kids	African	Age	Emp	Inc	HHinc	Rent
All Houses									
$inside \times post$	-0.040 (0.040)	-0.220 (0.517)	0.440 (0.280)	0.052 (0.041)	-3.915 <sup>b</sup> (1.742)	0.102 <sup>b</sup> (0.043)	-1564.766 (1224.823)	-2022.187 (1424.239)	24.453 (369.324)
0-500m away × post	0.122 <sup>b</sup> (0.058)	-0.117 (0.658)	-0.004 (0.302)	0.072 <sup>b</sup> (0.036)	1.623 (2.080)	-0.077 <sup>c</sup> (0.043)	-1663.016 <sup>b</sup> (749.530)	-2172.895 (1714.683)	385.454 (368.058)
Mean R <sup>2</sup> N	0.09 0.07 38,241	4.90 0.16 90,473	1.73 0.14 91,361	0.92 0.58 93,620	28.31 0.04 93,620	0.37 0.09 67,671	4,672.17 0.31 13,965	6,735.32 0.45 38,782	878.98 0.63 14,100
Non-Project Houses									
$inside \times post$	-0.051 (0.049)	-0.704 (0.565)	0.138 (0.254)	0.069 <sup>b</sup> (0.033)	-2.469 <sup>c</sup> (1.311)	0.118 <sup>c</sup> (0.061)	-1683.718 (1645.822)	-2286.569 (2039.327)	-54.899 (390.171)
$R^2$ N	0.09 31,173	0.18 70,987	0.15 71,837	0.57 73,771	0.04 73,771	0.11 54,017	0.31 11,471	0.45 30,795	0.64 11,526

c p<0.10,b p<0.05,a p<0.01

 $\infty$ 

**Table 7.** Kids outcomes

	Edu. level	time to school (1 to 5)	flu	diarrhea
All Houses				
inside $\times$ post	0.044 (0.147)	-0.099 (0.155)	-0.120 (0.077)	-0.009 <sup>b</sup> (0.004)
0-500m away × post	-0.067	-0.081	0.012	-0.003
	(0.288)	(0.232)	(0.058)	(0.013)
Mean	6.37	1.81	0.09	0.01
R <sup>2</sup>	0.85	0.26	0.10	0.31
N	15,353	20,234	30,217	30,217
Non-Project Houses				
inside $\times$ post	0.174	-0.050	-0.047	-0.005
	(0.173)	(0.177)	(0.047)	(0.005)
$R^2$ N	0.86	0.30	0.11	0.35
	11,542	15,304	22,926	22,926

c p<0.10,b p<0.05,a p<0.01 controlling for age

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 Table 8. Neighborhood Quality

	Water Pollution	Air Pollution	Land Pollution	Noise Pollution	Been harassed	Been physically hurt
All Houses						
inside $\times$ post	-0.031 (0.071)	-0.071 (0.060)	-0.045 (0.059)	-0.051 (0.062)	-0.105 <sup>a</sup> (0.030)	0.003 (0.036)
0-500m away × post	-0.112 <sup>c</sup> (0.062)	-0.188 (0.126)	0.045 (0.096)	-0.039 (0.089)	-0.045 (0.069)	-0.002 (0.048)
Mean R <sup>2</sup> N	0.16 0.18 93,620	0.26 0.21 93,620	0.20 0.22 93,620	0.21 0.19 93,620	0.06 0.12 22,909	0.02 0.10 22,860
Non-Project Houses						
inside $\times$ post	0.021 (0.052)	0.032 (0.092)	-0.011 (0.067)	-0.037 (0.083)	-0.107 <sup>a</sup> (0.031)	0.007 (0.042)
$R^2$ N	0.18 73,771	0.20 73,771	0.25 73,771	0.21 73,771	0.13 19,399	0.11 19,367

controlling for age

Table 9. Price

	Log Price	Log Rent
All Houses		
inside $\times$ post	0.146 (0.414)	0.356 (0.221)
0-500m away × post	0.002 (0.351)	-0.318 (0.236)
Mean R <sup>2</sup> N	11.62 0.51 73,267	6.52 0.69 32,945

controlling for age

Table 10. Price

	Log Duice	Log Dog t
	Log Price	Log Rent
Non-Project Houses		
inside × post	$-0.415^{b}$	0.053
•	(0.199)	(0.121)
0-500m away × post	-0.565	0.188
	(0.353)	(0.189)
Mean	11.65	6.58
$\mathbb{R}^2$	0.79	0.83
N	43,037	23,762
Non-Project Houses Formal		
inside × post	$-0.654^{a}$	-0.116
•	(0.175)	(0.239)
0-500m away × post	$-0.824^{a}$	0.072
, 1	(0.241)	(0.181)
Mean	12.42	7.10
$\mathbb{R}^2$	0.64	0.68
N	28,781	13,486
Non-Project Houses Informa	1	
inside × post	-0.868 <sup>b</sup>	0.217
-	(0.432)	(0.225)
0-500m away × post	-1.175 <sup>b</sup>	0.294
	(0.500)	(0.251)
Mean	10.08	5.89
$\mathbb{R}^2$	0.67	0.86

controlling for age

**Table 11.** Price No Controls

	Log Price	Log Rent
Non-Project Houses		
$inside \times post$	-0.183 (0.299)	0.197 (0.127)
0-500m away × post	-0.481 (0.337)	0.013 (0.189)
Mean	11.67	6.57
R <sup>2</sup> N	0.70 56,295	0.76 29,111
Non-Project Houses Formal		
inside $\times$ post	-0.547 <sup>b</sup> (0.214)	-0.044 (0.271)
0-500m away × post	-0.555 <sup>b</sup> (0.215)	-0.127 (0.215)
Mean	12.46	7.11
$R^2$ N	0.44 37,606	0.51 16,394
	07,000	10,071
Non-Project Houses Informal		
inside $\times$ post	-0.513 (0.443)	0.441 (0.270)
0-500m away × post	-1.569 <sup>a</sup> (0.496)	0.037 (0.268)
Mean	10.10	5.86
$R^2$ N	0.56 18,689	0.80 12,717
± •	10,000	14,11

controlling for age