

Figure S1a: Simulation with Neighborhood 3*3; New Changes = 5201 pixels = $5201 km^2$

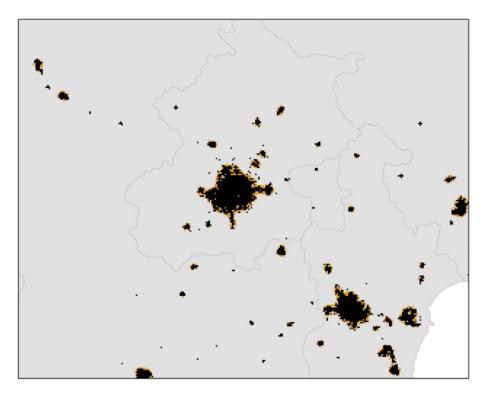


Figure S1b: Simulation with Neighborhood 5*5; New Changes = 6467 pixels = $6467 km^2$

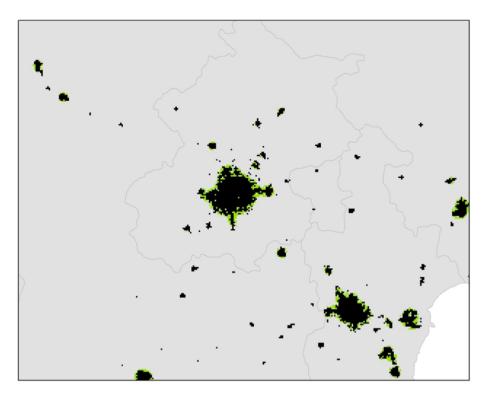


Figure S1c: Simulation with Neighborhood 7*7; New Changes = 5887 pixels = $5887km^2$

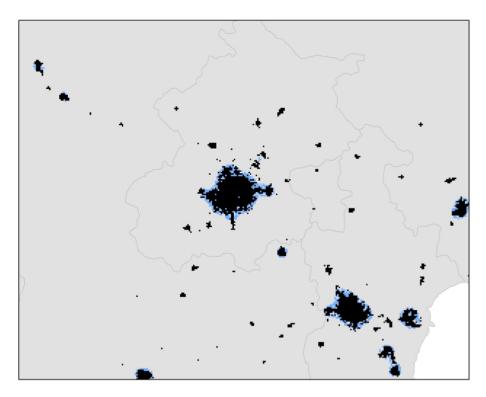


Figure S1d: Simulation with Neighborhood 9*9; New Changes = 6102 pixels = $6102km^2$

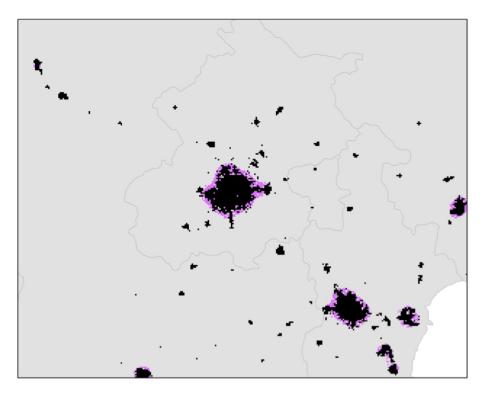


Figure S1e: Simulation with Neighborhood 11*11; New Changes = 5614 pixels = $5614km^2$

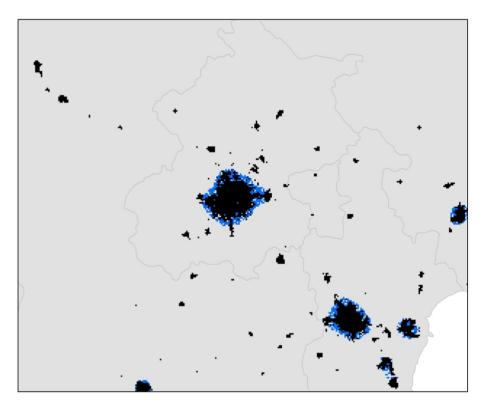


Figure S1f: Simulation with Neighborhood 13*13; New Changes = 5516 pixels = $5516km^2$

Accuracy Assessment on the model with 3*3 neighborhood and an urban ratio of 0.25

N1P25, stratified equalized							
OID_	ClassValue	C_0	C_1	Total	U Accuracy	Kappa	
	C_0	24978	5218	30196	0.827195655	0	
	C_1	22	19782	19804	0.998889113	0	
	Total	25000	25000	50000	0	0	
	P Accuracy	0.99912	0.79128	0	0.8952	0	
	Kappa	0	0	0	0	0.7904	

Accuracy Assessment on the model with 3*3 neighborhood and an urban ratio of 0.25

N2P33, Stratified equalized							
OID_	ClassValue	C_0	C_1	Total	U Accuracy	Kappa	
	C_0	24981	5509	30490	0.819317809	0	
	C_1	19	19491	19510	0.99902614	0	
	Total	25000	25000	50000	0	0	
	P Accuracy	0.99924	0.77964	0	0.88944	0	
	Kappa	0	0	0	0	0.77888	

Accuracy Assessment on the model with 7*7 neighborhood and an urban ratio of 0.3125

N3P3125, Stratified Equalized							
OID_	ClassValue	C_0	C_1	Total	U Accuracy	Kappa	
	C_0	24981	5790	30771	0.811835819	0	
	C_1	19	19210	19229	0.999011909	0	
	Total	25000	25000	50000	0	0	
	P Accuracy	0.99924	0.7684	0	0.88382	0	
	Kappa	0	0	0	0	0.76764	

Figure S2: Accuracy Assessment

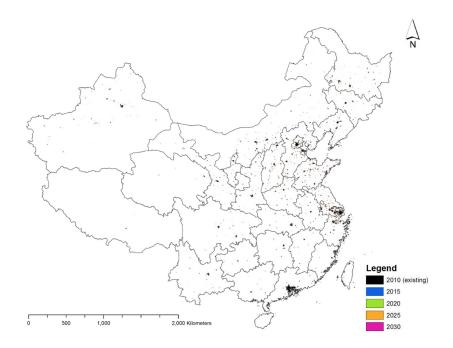


Figure S3: Final urban simulation map