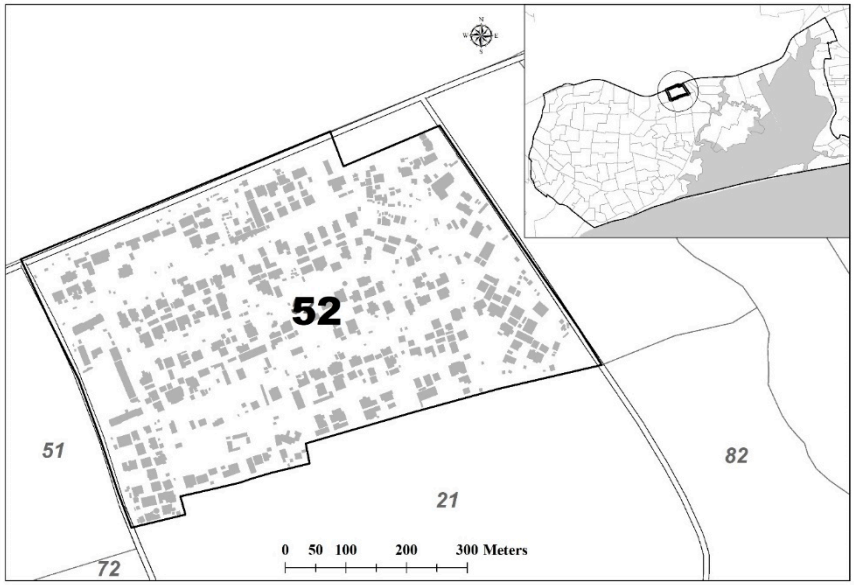


Figure S1. Building coverages in a sector
Source: Authors' construct

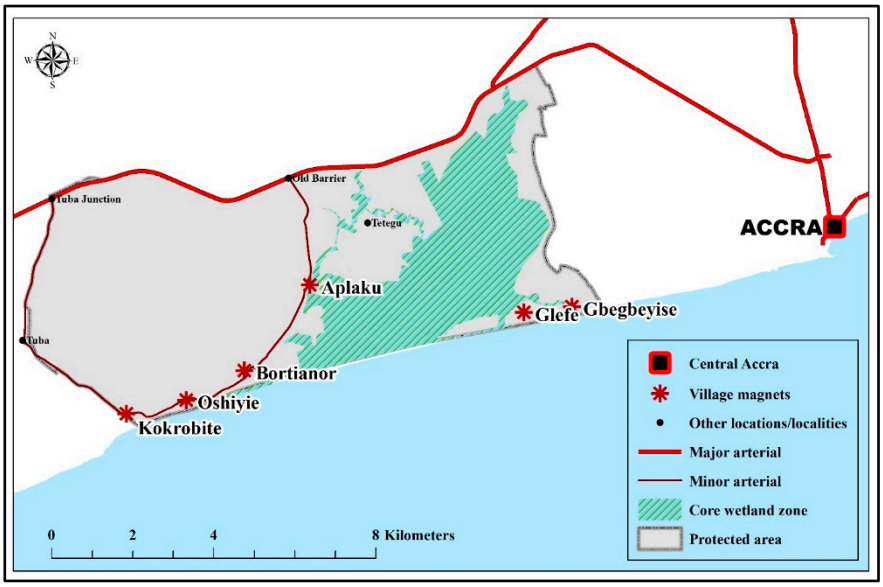


Figure S2. Map of Densu Ramsar Site Showing Urban Growth Drivers
Source: Authors' construct

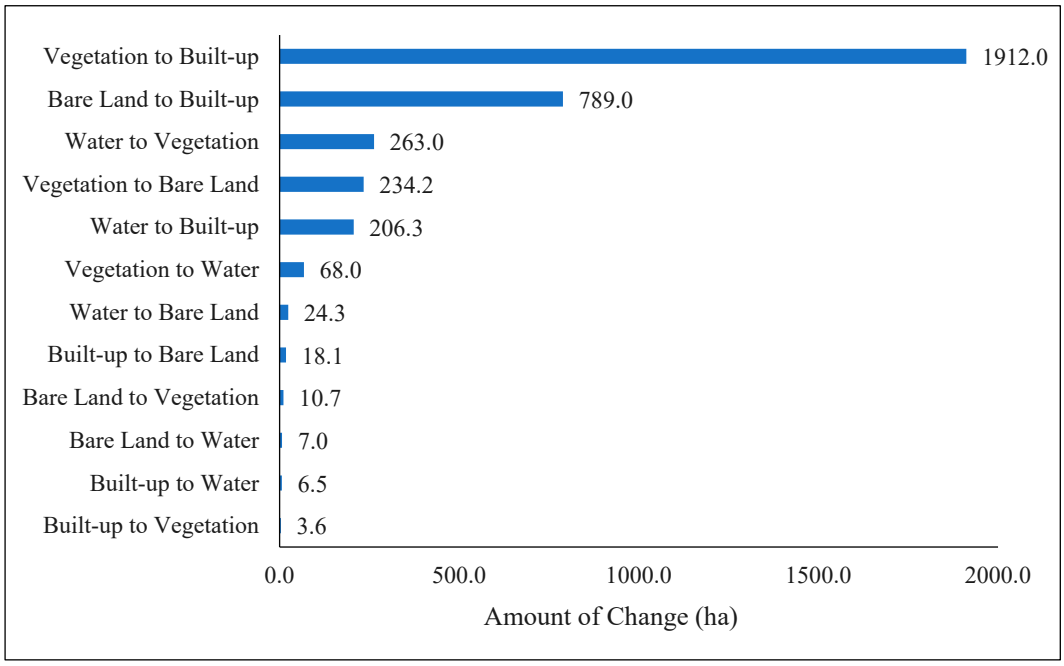


Figure S3. Landcover Change Detection between 2003 and 2023
Source: Authors' construct

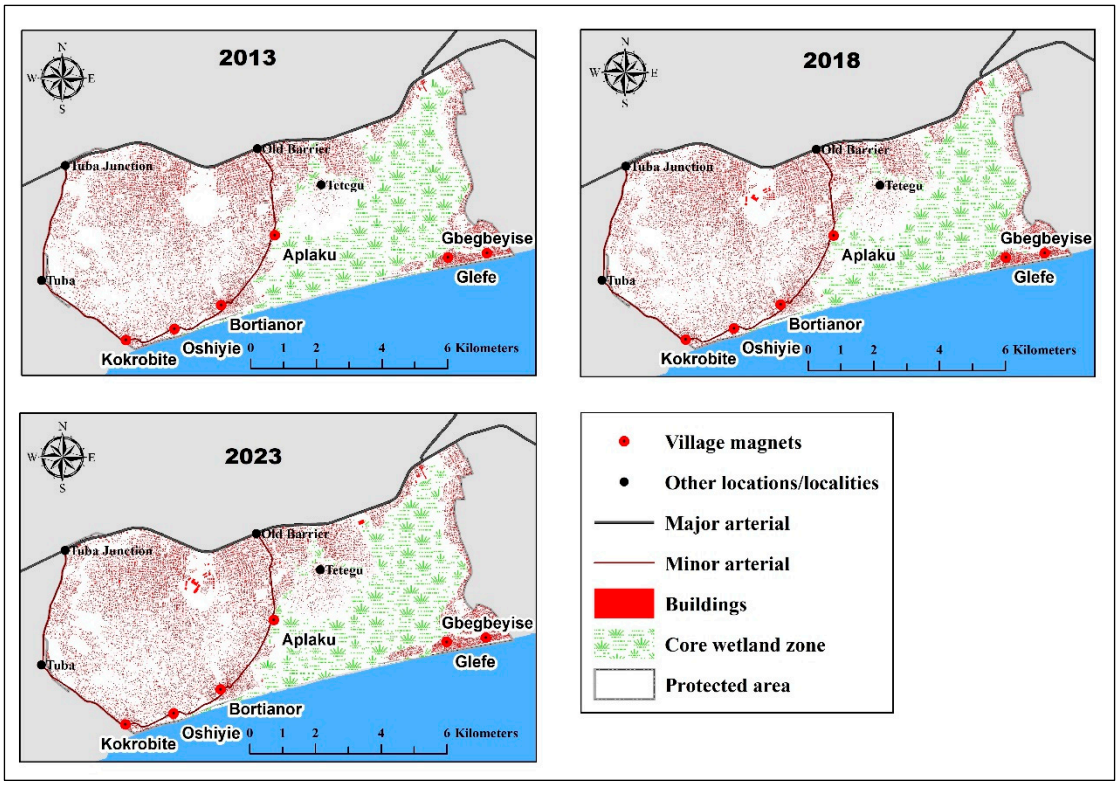


Figure S4. Spatial Pattern of Buildings, 2013-2023
Source: Authors' construct

Table S1. Moran Test for Spatial Dependence in Outcome Variables

Variable	Test Statistic [$\chi^2(2)$]	P-value	Decision on Null Hypothesis
ABCR12	19.92	0.0000	Rejected
ABCR17	10.38	0.0056	Rejected
ABCR22	8.67	0.0131	Rejected
CHANGE1	1.89	0.3892	Not Rejected
CHANGE2	1.89	0.3881	Not Rejected
CHANGE3	1.99	0.3693	Not Rejected

Source: Authors' construct