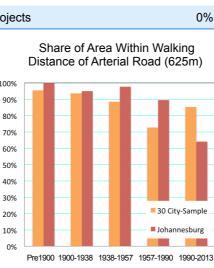
Johannesburg, South Africa (Sub-Saharan Africa 1900 – 2013)

Urban Layout Metrics	Pre- 1900	1900 - 1938	1938 - 1957	1957 - 1990	1990 - 2013	
Roads						
Share of Built-up Area Occupied by Roads	29%	23%	24%	24%	17%	
Share of Built-up Area That Is Gridded	52%	30%	10%	3%	3%	
Share of Roads Less Than 4 Meters Wide	6%	5%	5%	10%	24%	
Share of Roads More Than 16 Meters Wide	38%	31%	37%	25%	4%	
Arterial Roads						
Total Area of Zone (km²)	23	372	198	1424	2880	
Total Length of Arterial Roads (km²)	91	1075	525	2807	1827	
Density of All Arterial Roads (km/km²)	3.95	2.89	2.65	1.97	0.53	
Average Beeline Distance to All Arterial Roads (meters)	107	187	166	287	582	
Share of Area within Walking Distance of All Arterial Roads	100%	95%	98%	89%	64%	
Block Size, Plot Size, Intersection Density, and Walkability						
Share of Intersections that are 4-Way	38%	30%	20%	6%	10%	
Average Block Size (ha)	4.9	7.4	9.0	10.4	4.9	
4-Way Intersection Density (number per km ²)	42	18	9	6	16	
Walkability Ratio	1.5	1.7	1.6	1.7	2.3	
Average Plot Size in Informal Land Subdivisions				230	205	
Average Plot Size in Formal Land Subdivisions	560	1034	1136	960	493	
Stages in the Evolution of Residential Layouts						
Share of Built-up Area That Is Residential	26%	52%	47%	57%	64%	
Share of Residential Areas Not Laid Out Before Development	2%	0%	0%	1%	18%	



Share of Residential Areas Laid Out Before Development

Pre1900 1900-1938 1938-1957 1957-1990 1990-2013



98%

98%

0%

100%

6%

88%

6%

20%

10%

100%

89%

11%

99%

11%

74%

14%

82%

41%

38%

3%



Pre1900 1900-1938 1938-1957 1957-1990 1990-2013