

Land Use Efficiency and Compact City Design in Sustainable Urban Development

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Compact cities vs. Disperse cities

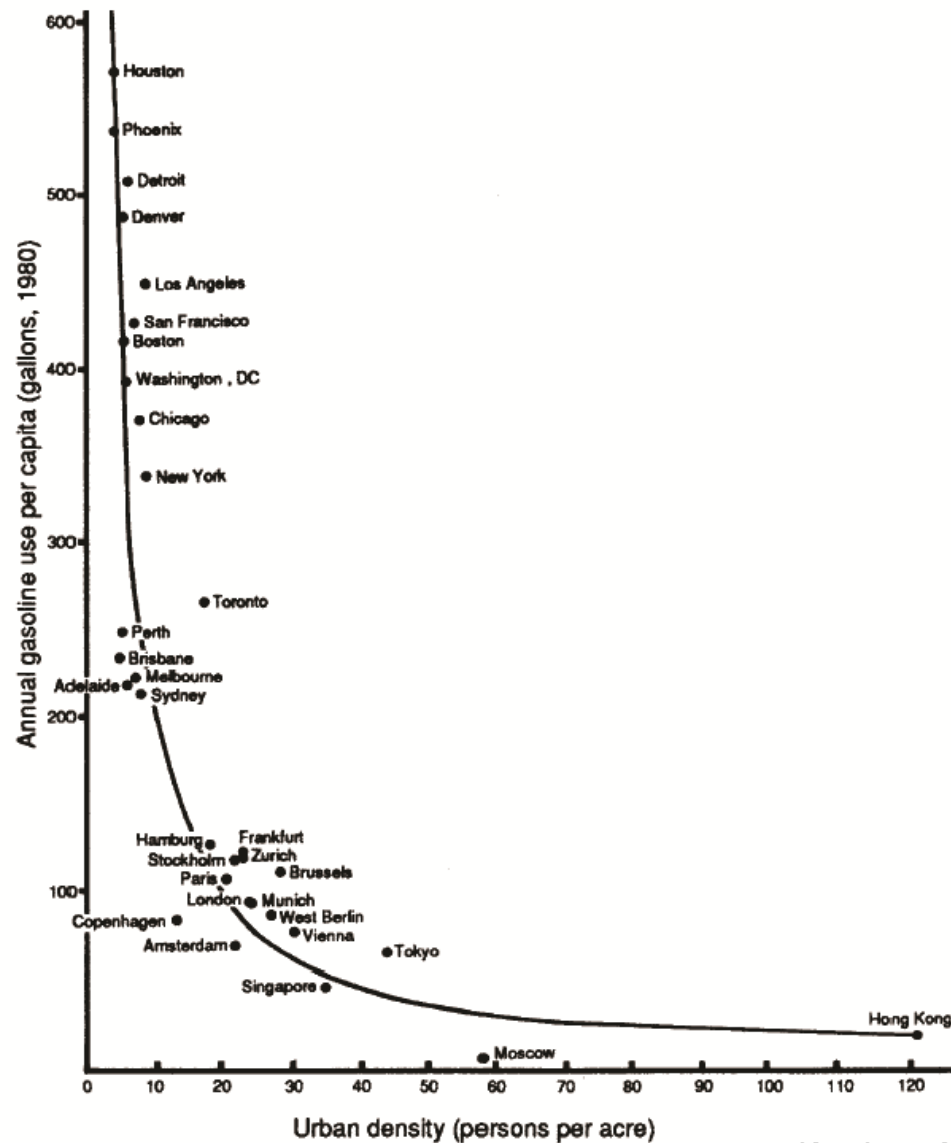


Manhattan, New York



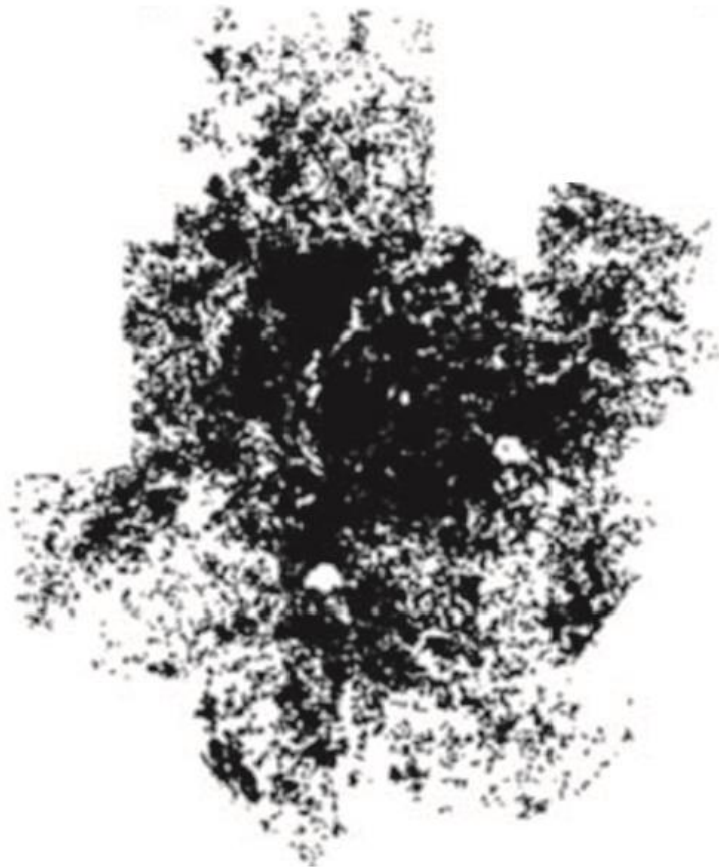
Phoenix, Arizona

Gasoline use per capita vs. Metropolitan density



(Andrew Wright Associates, 1980)

Built Area Atlanta vs Barcelona (same scale)



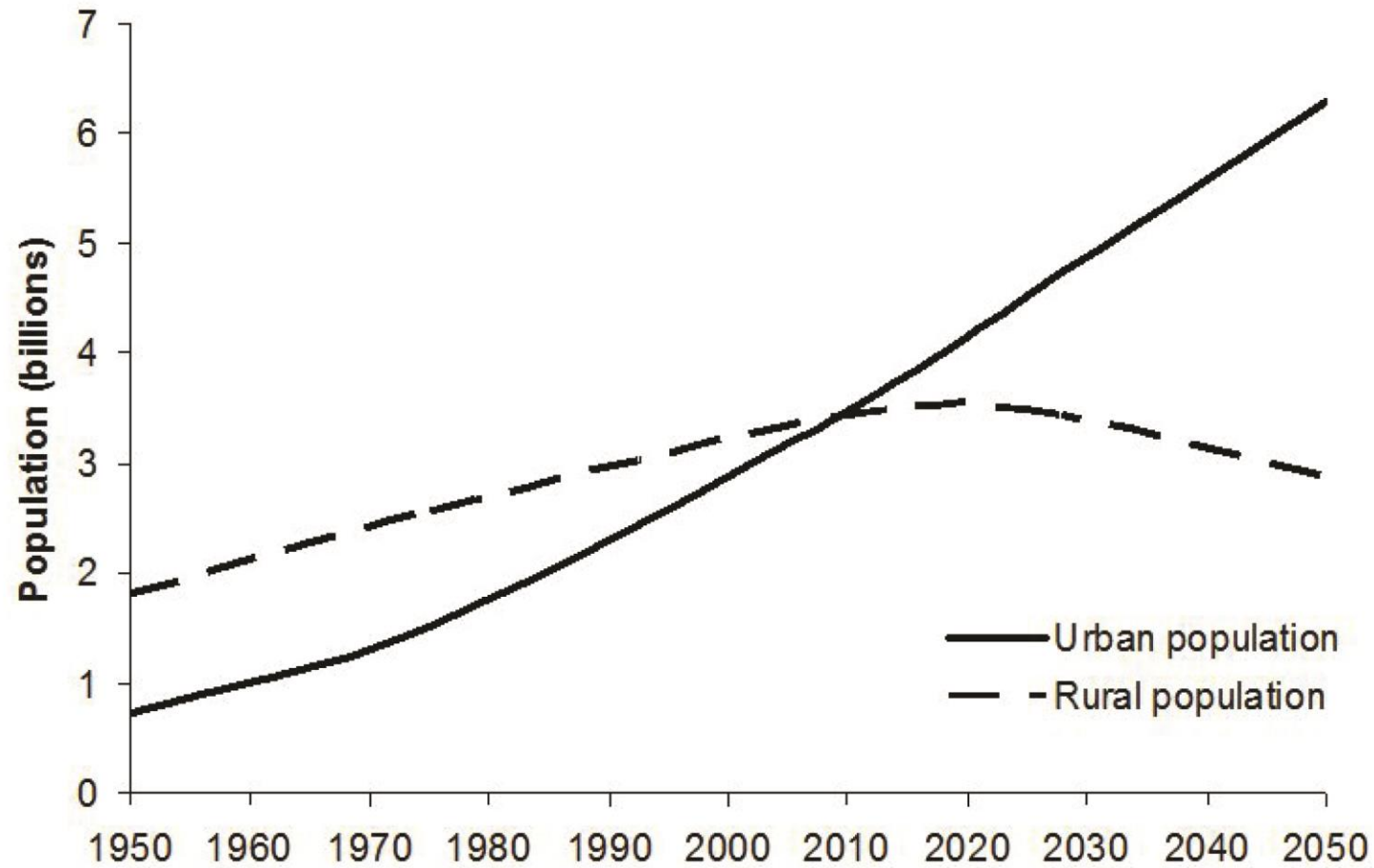
Atlanta
2.5 million people (1990)
4,280 km² (built area)



Barcelona
2.8 million people (1990)
162 km² (built area)

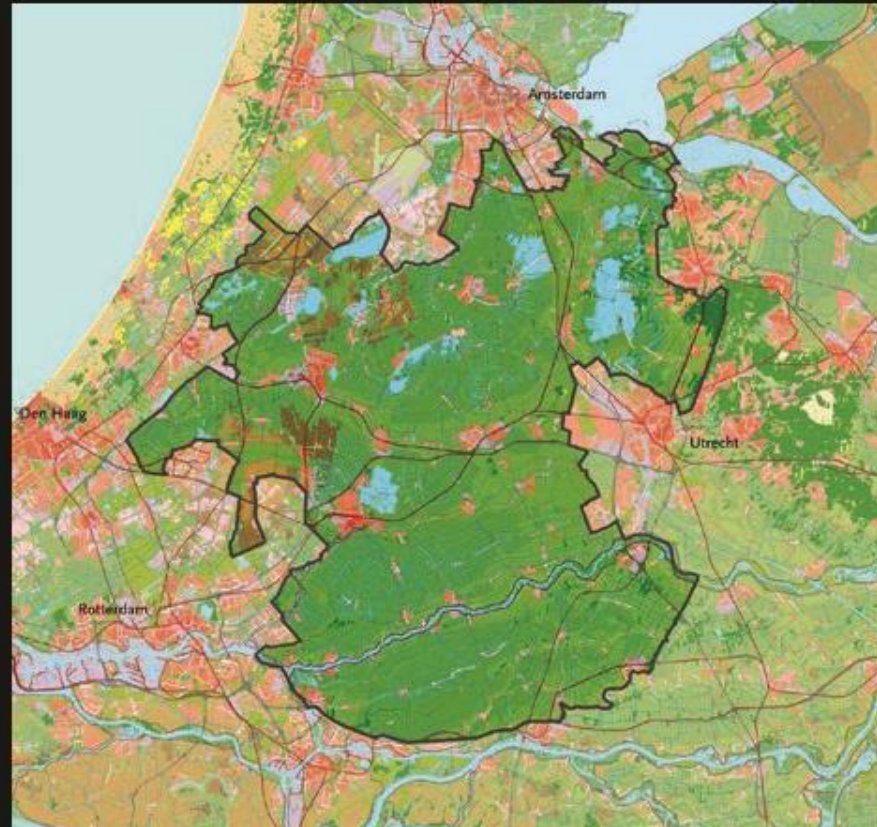
(Bertaud and Poole, 2007)

Rapid Urban Population Growth



(United Nations, 2010)

The Green Heart, The Netherlands



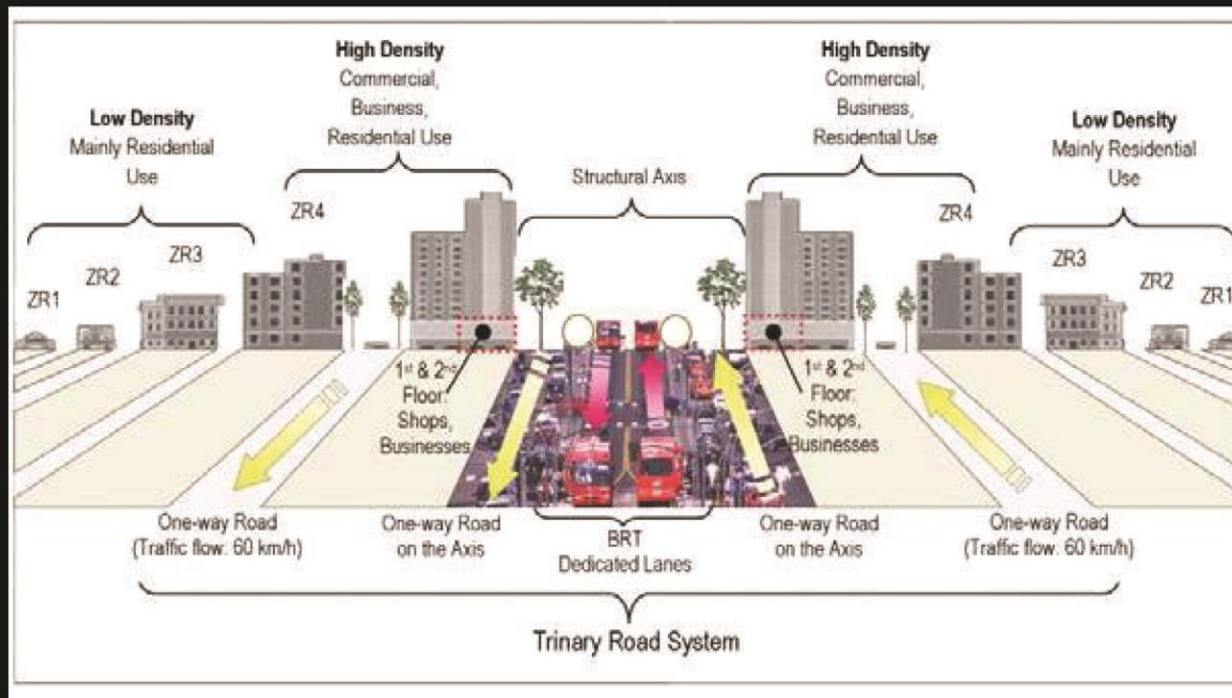
Marina Bay, Singapore



Masdar City, U.A.E.



Curitiba, Brazil



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