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Scaling laws between population and a public transportation system of urban buses

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- We explore the scaling law between population and urban bus service for two metropolitan cities in Republic of Korea.

- The number of bus stops and population follow a scaling law with an exponent lower than $2/3$. It reveals that the bus stops are so-called public facilities that are expected to be more evenly distributed spatially.

- Meanwhile the number of buses operating on one day and population follow a scaling law with an exponent close to 1. It reveals that transportation service meets the demand in exactly proportion to the population.

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