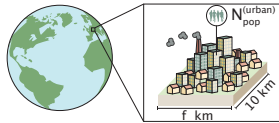


(A) URBAN POPULATION DENSITY ESTIMATE



typical population, $N_{\text{pop}}^{(\text{urban})} \approx f \times 10^5$

typical area, $A \approx 10^2 \text{ km}^2$

typical density, $\rho \approx \frac{N_{\text{pop}}^{(\text{urban})}}{A} \approx \frac{f \times 10^5 \text{ people}}{10^2 \text{ km}^2}$

$\approx f \times 10^3 \text{ people/km}^2$

(B) URBAN LAND AREA ESTIMATE

total urban land area, $A_{\text{urban}} \approx \frac{N_{\text{urban}}^{(\text{global})}}{\rho} \approx \frac{f \times 10^9 \text{ people}}{f \times 10^3 \text{ people/km}^2}$

$\approx 10^6 \text{ km}^2$

URBAN POPULATION DENSITY (2015)

data source: GHSL European Commission, Joint Research Centre

