

Appendix 1

Based on World Bank data, calculating the average value of urbanization speed and economic growth rate. The speed of urbanization and the economic growth rate are computed respectively.

$$V_{urban} = (UL_{the\ end\ year} - UL_{the\ start\ year})/n, \quad (2)$$

$$V_{economy} = \sqrt[n]{\frac{GDPP_{the\ end\ year}}{GDPP_{the\ start\ year}}} - 1, \quad (3)$$

where: V_{urban} is the average annual speed of urbanization, and $UL_{the\ end\ year}$, $UL_{the\ start\ year}$ represent the urbanization levels are for the start year and the end year, respectively; $V_{economy}$ is the average annual economic growth rate, and $GDPP_{the\ end\ year}$, $GDPP_{the\ start\ year}$ represent the GDP per capita in the end and start year, respectively. n is the number of years from the end year to the start year. The index of $V_{economy}$ is a measure of economic growth during n years in percentage terms, providing insight into the general direction and magnitude of growth for the overall economy in each country.