

Passenger transport demand

Level 1

A steady growth is assumed in Level 1 in line with the GDP growth. As per capita income and economic activity increases, vehicle ownership per capita is expected to increase and the annual demand for mobility is expected to increase to 16,934 km per capita in 2050. Rapid urbanization may also create increased demand for inter and intra city travel, as urban centers depend on nearby areas for food, raw materials, labor, etc.

Level 2

Level 2 assumes that with rise in urban and economic activity centers, demand will be lower for inter city travel by people migrating for employment opportunities. Improved planning and efficient designs for new and expanded cities could also reduce intra city travel. Annual demand for mobility would be about 9% lower than Level 1 in 2050, at 15,448 km per capita.

The average pkm per capita (i.e.) distance travelled per person per annum in Maharashtra in 2015 was ~5265 km. With growth in economic activity, development of urban centers and improvements in transport infrastructure, demand for inter city and intra city transport in Maharashtra is expected to increase rapidly over the next few decades. However, rate of growth will depend on the approach towards planning the transport infrastructure where increased efforts would lead to more efficient planning and a lower rate of growth of demand. This lever provides choices for selecting four different levels of passenger transport demand in the state. The figures shown are for Scenario 2 of GDP (CAGR 7.5%). The numbers for higher/lower GDP growth scenarios would be proportionately higher/lower.

Level 3

Level 3 assumes that all new cities are designed on the principles of Transit Oriented Development, where the focus is on compact, walkable, pedestrian oriented communities around high quality train systems. IT enabled transport would also enable route optimization, reducing demand for mobility further. Annual demand for mobility would be about 18% lower than Level 1 in 2050, at 13,961 km per capita.

Level 4

In this scenario, it is assumed that focused policy initiatives would be taken to optimize transport systems and manage transport demand. Significant economic development in rural areas would reduce transport demand for migrant workers. Further strengthening of Transit Oriented Development and IT enabled transport would reduce the need for commute trips. Annual demand for mobility would be about 22% lower than Level 1 in 2050, at 13,217 km per capita.

Passenger km per capita per year

