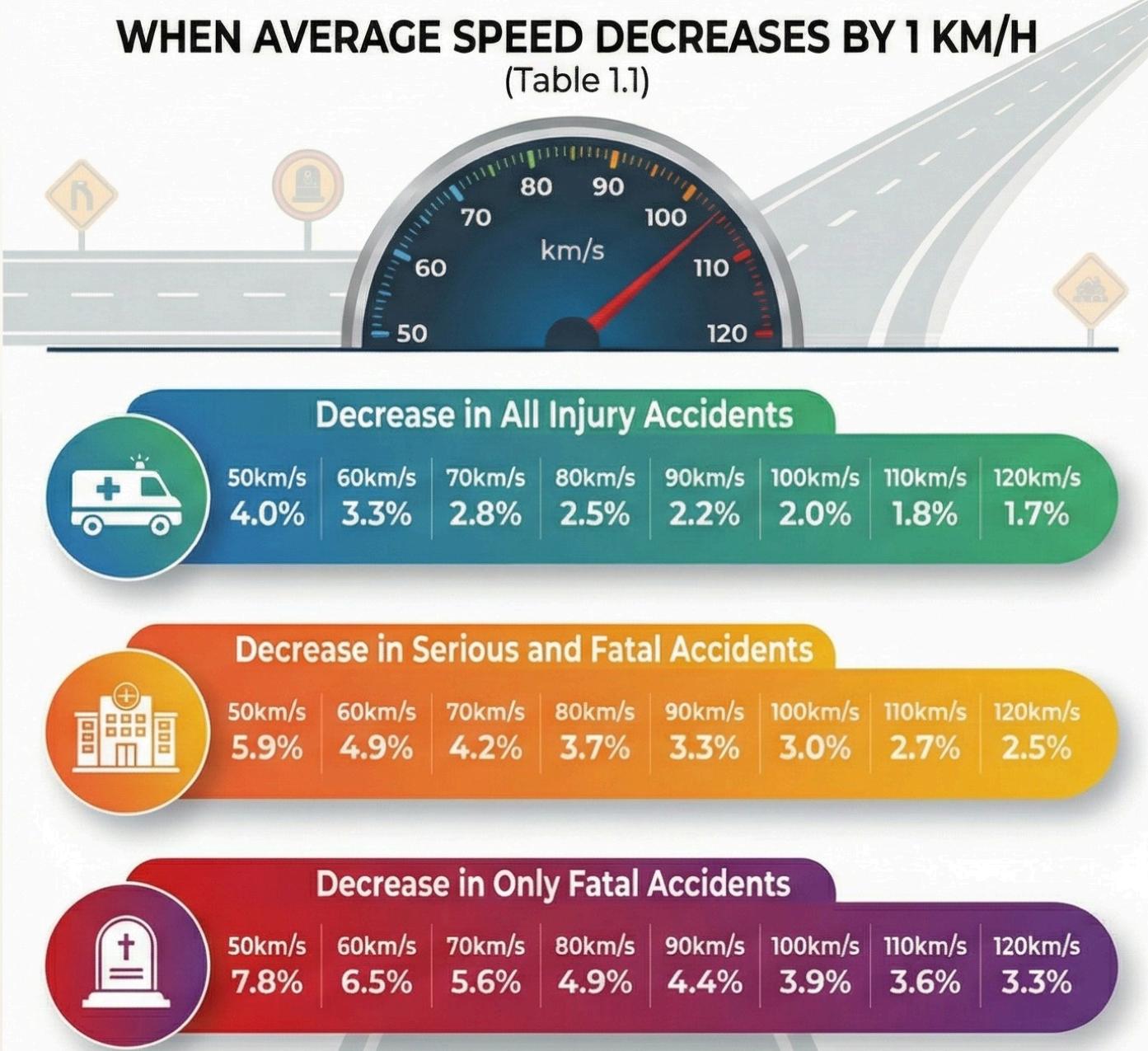


ROAD SAFETY

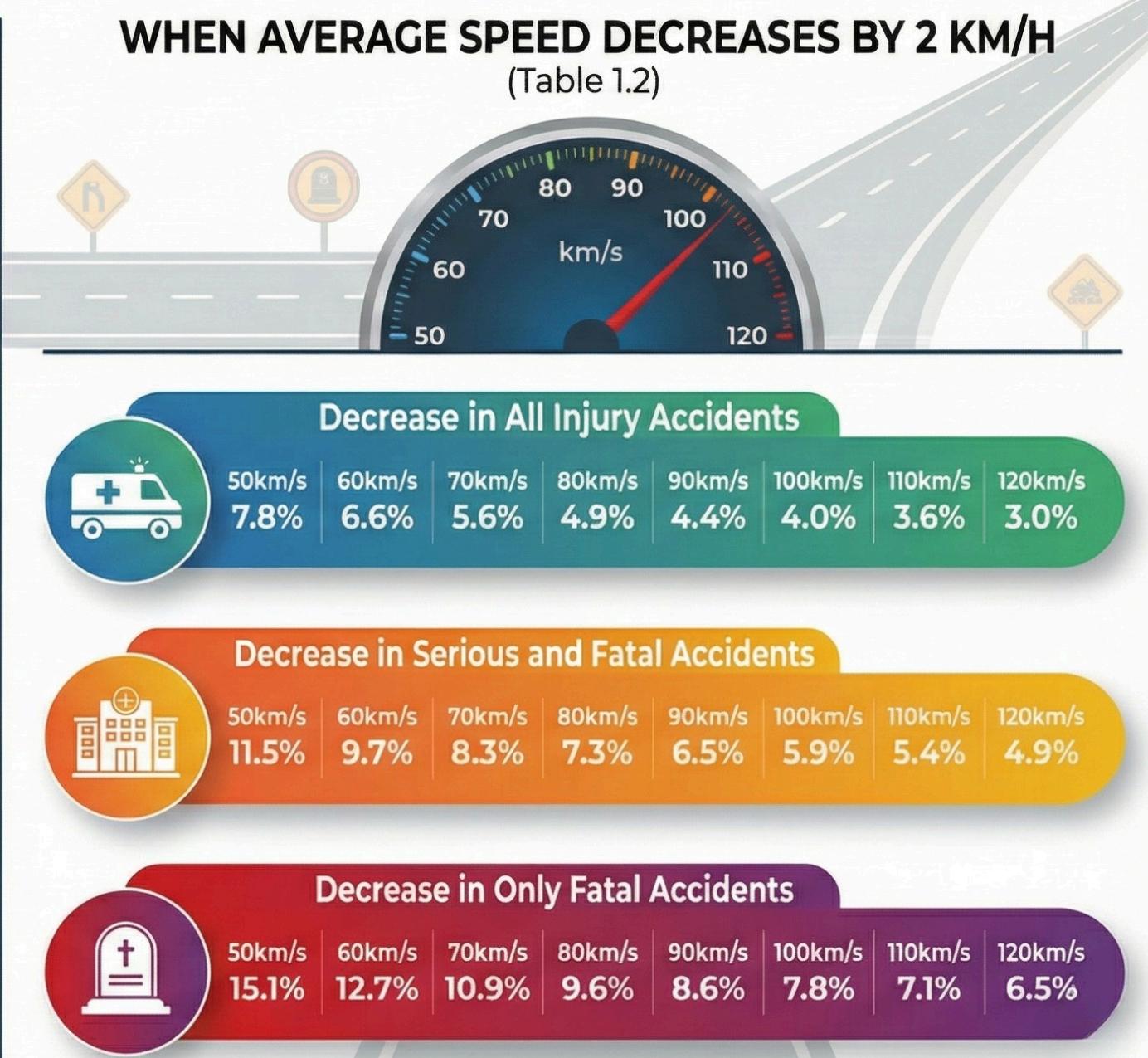
THE EFFECT OF SPEED ON CRASH



WHEN AVERAGE SPEED DECREASES BY 1 KM/H (Table 1.1)



WHEN AVERAGE SPEED DECREASES BY 2 KM/H (Table 1.2)



Speed compromises safety in two ways:

1. It increases the likelihood of a crash – braking distance increases, and evasive maneuvers become more difficult.
2. It increases the severity of the crash – kinetic energy increases with the square of speed.

1% increase in average speed results in a 4% increase in the risk of a fatal crash and a 3% increase in the risk of serious injury.

5% increase in average speed leads to approximately a 10% increase in all injury crashes and a 20% increase in fatal crashes.

Various studies in Europe report a 25-40% reduction in pedestrian fatalities in cities that reduced the speed limit from 50 km/h to 30 km/h.

