

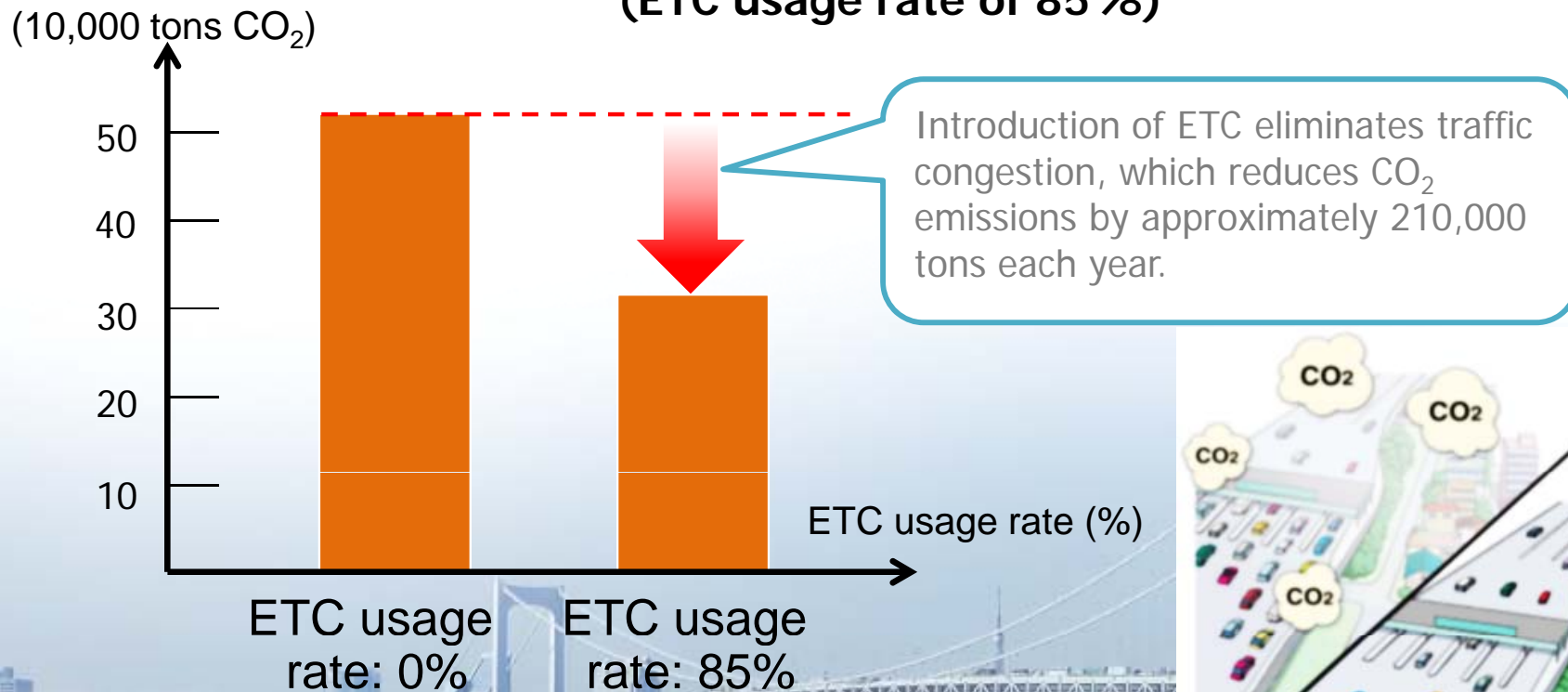
ETC (Electronic Toll Collection system)

- eliminates almost all toll-gate congestion on expressways (30% of all expressway congestion).
- usage rate on toll roads: 87% (39 million automobiles).



- cuts CO₂ emissions by about **0.21 million** tons per year

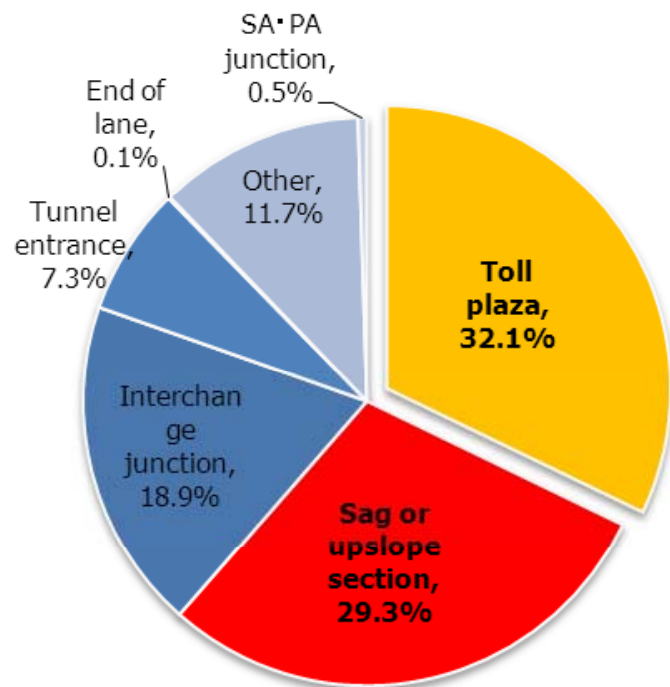
CO₂ reduction brought by introduction of ETC (ETC usage rate of 85%)



ETC (Electronic Toll Collection system)

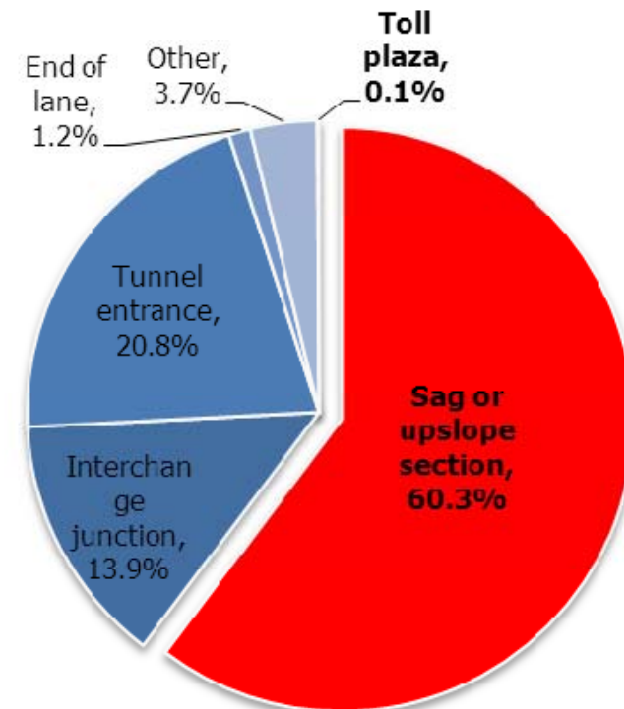
- 60% of congestion occurs at sags and on upslope section.
- Urgent measures urgently required.

Congestion on inter-city expressways



2000 without ETC

Total congestion frequency =
12,378 per year



2009 with ETC

Total congestion amount =
107,516 km·h per year