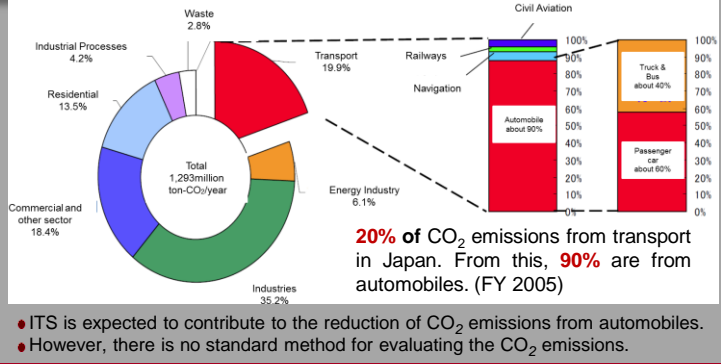


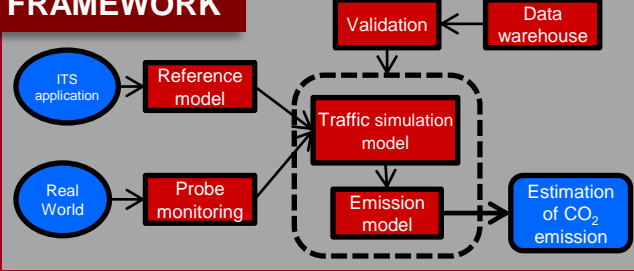
BACKGROUND



OBJECTIVE

Development of an evaluation method of CO₂ reduction by ITS technology which is internationally approved.

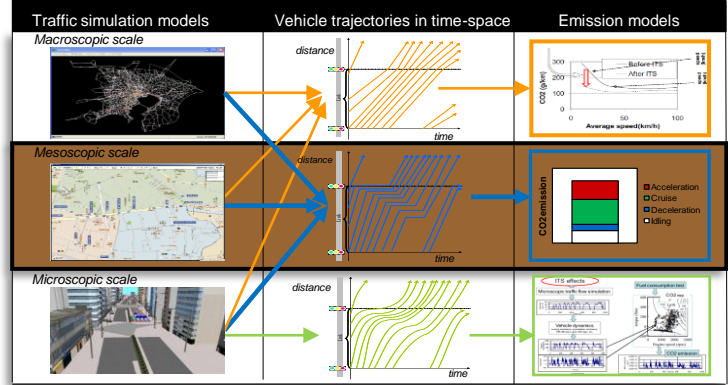
FRAMEWORK



METHODOLOGY

Harmonization of Traffic Simulation (TS) Model and Emission Model (EM)

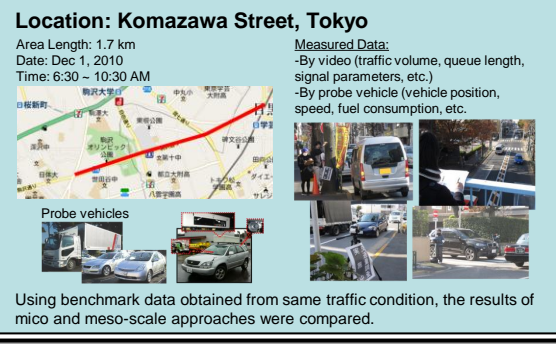
Several combinations of TS and EM can be used in practice (indicated by same-colored arrows):



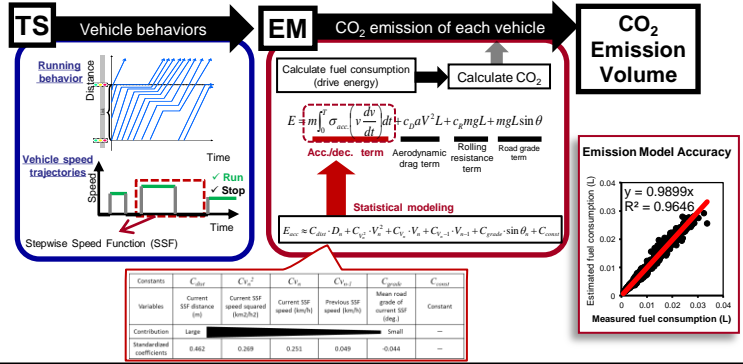
For this study, both meso-scale TS and EM were used for the following reasons:
 ● Validation of the acceleration in microscopic TS is difficult.
 ● For network analysis, mesoscopic TS is most appropriate.

Validation using Benchmark Data

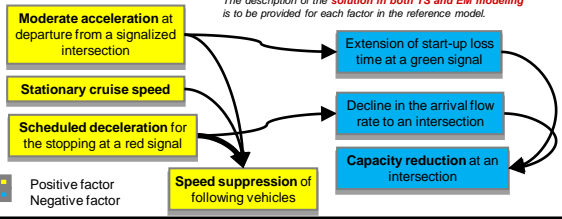
Validation points:
 Microscopic approach: **Acceleration of the TS model**
 Mesoscopic approach: **Acceleration term of the EM**



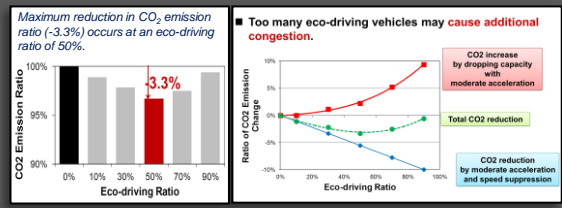
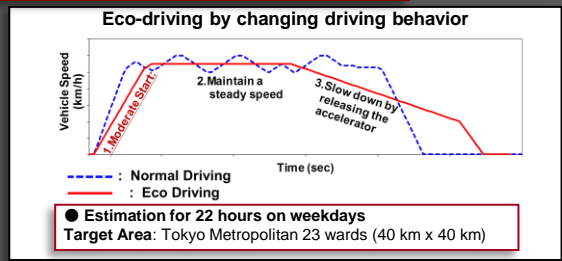
Details of the method by meso TS + meso EM



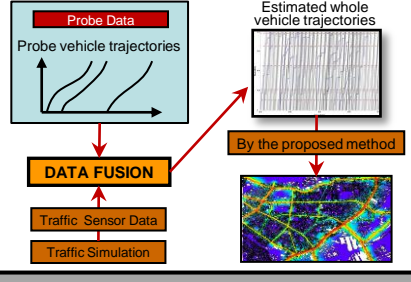
Reference Model Example: Eco-driving



EXAMPLE APPLICATION



Probe Monitoring



International Collaboration

