Table A.1. Public Sector Freight Planning Data Needs

Function	Data Needs	Planning Application
Congestion management	Truck-hours of travel Average speed or travel rate (hours per kilometer) for truck Added truck-hours or truck-hours per kilometer due to congestion Truck transport cost (total, or per truck-kilometer, metric ton-kilometer, or dollar value of freight carried) Added cost due to congestion Transport time reliability Types of trucks and commodities caught in congestion Energy consumption for trucks: total or per truck-kilometer or metric ton-kilometer Emissions rates for trucks: total or per truck-kilometer or metric ton-kilometer	Understand impact of congestion on goods movement Understand contribution of trucks on urban congestion and air quality problems
Intermodal access	Volumes of trucks entering or exiting an intermodal facility Congestion-related delays on access roads to the facility Queuing counts related to the capacity of the facility Accident rates on access roads to the facility Travel time contours around the facility (e.g., driving distance within 30 minutes) Number of people living or working within x kilometers of the facility	Identify landside access improvement needs
Truck route designation and maintenance	Truck traffic volumes Origin/destination patterns Truck size and weight data	Identify high-volume truck routes and corridors Assess pavement damage and replacement needs
Safety mitigation	Accident rates Rail-grade crossings Low-clearance bridges Steep grades	Identify safety hazards and develop mitigation strategies
Economic development	Truck volumes Commodity movements Origin/destination patterns Shipping costs	Assess economic benefits and costs of freight transportation investment projects