

Civil Engineering Department, Faculty of Engineering Postgraduate Section



TRANSPORT IMPACT ASSESSMENT Week-05: REPORTING

The TIA Guidelines document outlines

- The scope of analysis required to support development applications, depending on the type of development application and the size and scope of the proposal;
- The types of analysis required to determine transportation system impacts resulting from developments and acceptable levels of service for elements of the transportation network, consistent with Transportation Master Plan policies; and
- The format recommended for TIA reports that will facilitate staff review and expedite timing for comments and approvals

• TIA reports are a critical part of the development review and approval process, as they are the primary tool for identifying the potential net effects from a development proposal

TIA reports establish:

- The impacts to the transportation system as a result of the proposed development;
- Transportation infrastructure and programs needed to mitigate impacts to an acceptable level; and
- Site design features needed to support system-wide transportation objectives

Types of analysis

- System Congestion and Capacity
- System Operations and Safety
- Non-Auto Modes
- On-Site Design and Operations
- Community Impacts
- Transportation Demand Management

Analysis Parameters

Study Area

- The location and type of proposed development;
- The existing traffic volumes on the adjacent road network; and
- The existing transportation network adjacent to the site

Time Periods

- The impact of the development on the peak conditions of the adjacent transportation infrastructure; and
- The impact of the peak site generated traffic volumes on the adjacent transportation infrastructure

Horizon Years

- buildout/full occupancy of the development, and
- buildout/full occupancy + 5 years

Documentation and Reporting

Report Context

- Location relative to major elements of the existing transportation system
- Proposed land uses and relevant planning regulations to be used in the analysis;
- Proposed development size (building size, number of residential units, etc.) and location on site;
- Estimated date of occupancy;
- Planned phasing of development;
- Proposed number of parking spaces (not relevant for Draft Plans of Subdivision); and
- Proposed access points and type of access (full turns, right-in/ right-out, turning restrictions, etc.).
- Study area;
- Time periods and phasing; and
- Horizon years (include reference to phased development).

Existing Condition

- Existing roads and ramps in the study area, including jurisdiction, classification, number of lanes, and posted speed limit;
- Existing intersections, indicating type of control, lane configurations, turning restrictions, and any other relevant data (e.g., extraordinary lane widths, grades, etc.);
- Existing access points to adjacent developments (both sides of all roads bordering the site);
- Existing transit system, including stations and stops;
- Existing on- and off-road bicycle facilities and pedestrian sidewalks and pathway networks;
- Existing system operations (V/C, LOS); and
- Major trip generators/ attractors within the Study Area should be indicated

Demand Forecasting

- General background growth;
- Other study area developments;
- Changes to the study area road network;
- Trip generation rates;
- Trip distribution and assignment:
 - include figures documenting total future travel demands by mode for each horizon year

Impact Analysis

- Network Capacity Analysis;
- Non-auto network connections and continuity;
- Potential for community impacts, and
- TDM