

i-TSS

TRAFFIC SURVEILLANCE SYSTEM

The Traffic Surveillance System (TSS) manage the various traffic observation data of a roads authority within the relational i-RAMS database.

Key Features

- ✦ Traffic modelling results visualization
- ✦ Electronic counting programme
- ✦ Detailed geometric intersection layout module
- ✦ Intersection congestion and upgrading module
- ✦ Service level monitoring and upgrading module
- ✦ Full integration between TSS, PMS and SMS

The Traffic Surveillance System (TSS) CTO was developed to import all the electronic traffic observation data into the relational database based on the Road Location Reference (RRS).

The Electronic traffic counting system incorporates any level of electronic traffic counts and utilizes that database to allow the user to effectively manage the electronic counts and be able to run specific queries in order to support management decisions based on traffic.

CTO Station records are coupled to the appropriate road feature on the map. By selecting the map feature representing the station or the feature representing the road segment on which the station is located, the service level and traffic detail is displayed.

The MTCS incorporates all the manual counts in a specific area from the most advanced manual counting programmes to the ad-hoc counts at a smaller municipality. Depending on the detail available an enormous amount of information can be made available to the end-user through a user friendly query facility.

Normally, manual traffic counts are done at intersections and the system allows for the identification of these "counted" intersections.

Full GIS functionality is achieved through the i-TSS. If required, available aerial photographs of the area under consideration can be activated to assist the user with orientation. Count detail availability through intersection selection.

The intersection layout module allows the traffic planners and geometric designers to "accommodate" the counted information and to be able to do upgrading planning in order to achieve optimal traffic flow at the given intersection.

All the different reports within the system are electronically available. This function supports the process of professional service delivery and the provision of counting information to those professionals that needs to make informed decisions on the development of a particular corridor.



CTO

MTCS