



PennDOT Philadelphia Area TMS

Client: PennDOT, District 6

Location: Philadelphia Area, PA



System Features

- DYNAC® Software
- Automatic Incident Detection
- Video Analytics
- Intelligent Video
- Real-time Graphical Display
- Reporting
- Traffic/Incident History Database
- Radar Vehicle Detectors
- Dynamic Message Signs
- CCTV

DYNAC®

Pennsylvania is experiencing some of the fastest growing traffic rates due to the growth of residential and commercial populations in the Greater Philadelphia Region. With approximately 150,000 vehicles traveling I-95 and about 75,000 traveling SR 202 per day within the urban Philadelphia area, the Pennsylvania Department of Transportation District 6 is increasing its investment in Advanced Traffic Management Systems (ATMS) in the urban Philadelphia area.

Transdyn developed, furnished and installed a complete Traffic Management System (TMS) in the PennDOT District 6 Traffic Control Center (TCC).

The TCC is responsible for implementing real-time congestion and incident management strategies essential to maximizing the operation and safety of the expressway system and major arterial routes. TCC staff monitor a system of almost 200 CCTV, about 90 dynamic message signs and over 200 non-intrusive detectors, and dispatches expressway service patrols within the five-county area of southeastern Pennsylvania. By collecting, coordinating and disseminating traffic information to both incident management responders and the traveling public, incidents can be cleared more efficiently and drivers provided with real-time information to base their travel decisions.

Transdyn installed side-fired microwave detectors, CCTV cameras, provided a dynamic message sign interface, and implemented the communication system.

Transdyn also provided, installed, and integrated the central hardware and software. Running on Transdyn's DYNAC ATMS® software, the TMS is capable of collecting and storing real time traffic flow data from the VID cameras and radar detectors, detecting incidents based on traffic flow data, disseminating motorist advisories via DMS, and generating incident alarms and reports. Incident alarms generated by the software activate CCTV cameras and images are displayed on the TCC video monitors and workstations for incident verification. The automated camera control assists operators in minimizing response times and balancing traffic flows.