TST

TRAFFIC

SMARTCITY TECHNOLOGY

TTMS

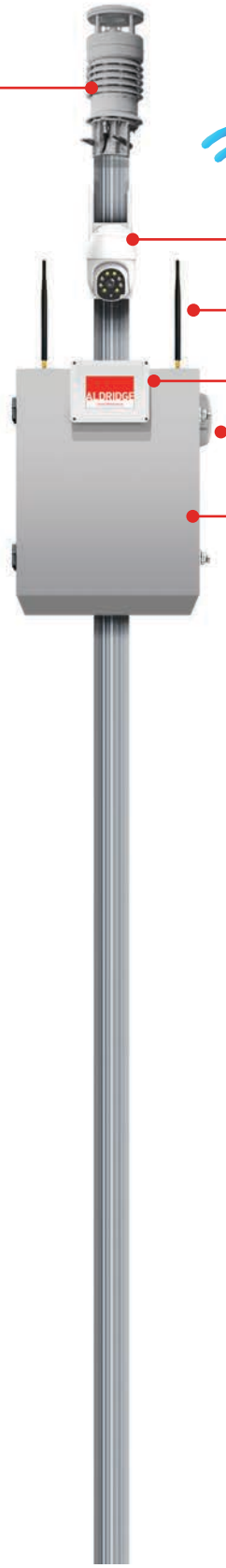
Traffic Monitoring System

STATIC Traffic Monitoring System - TTMS

Weather Station that records the following:

- Wind Speed (m/s)
- Radiation (W/m3)
- Illumination (LUX)
- PM1.0
- PM2.5
- PM10
- Humidity (%)
- Noise (db)
- UV (level)
- Temperature
- Rainfall (mm)
- Pressure (hPa)

4000mm



CCTV Camera

4G Antennae

Vehicle Radar (Speed & Count)

GPS

Control Housing

TST TRAFFIC SMARTCITY TECHNOLOGY

TST's Traffic Monitoring System **TTSM** is designed to give accurate, real-time readings to enable smart decisions based on the live-data collected through the monitoring devices. By using live traffic data, traffic management authorities can optimize traffic flow, reduce congestion, and improve overall traffic safety and efficiency.

AVAILABLE OPTIONS – temporary or static

MONITORING –

Pedestrian Vehicular Interaction

- Entry Point – speed at point of detection
- Peak Speed – highest recorded speed
- Exit Speed – speed recording on exiting the monitored zone

Environmental Monitoring

Visual Monitoring

TEMPORARY Traffic Monitoring System - TTMS

Weather Station that records the following:

- Wind Speed (m/s)
- Radiation (W/m3)
- Illumination (LUX)
- PM1.0
- PM2.5
- PM10
- Humidity (%)
- Noise (db)
- UV (level)
- Temperature
- Rainfall (mm)
- Pressure (hPa)

4000mm

CCTV Camera

4G Antennae

Vehicle Radar (Speed & Count)

GPS

Control Housing

100W SolSolution Solar Panel – Cylinder

Optional Name Plate

120 Amp Battery

850 x 850 x 850mm Portable Reinforced Cage with Concrete Weight c/w Rag Bolt Assembly & Fitting Eyelets

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Connected Assets and Date Driven Outcomes

To enable users to make informed decisions on items such as asset renewal, asset replacement, area regeneration Aldridge Traffic Systems designed their data gathering module, TTMS.

This module incorporates sensory devices located on one single relocatable pole and installed at a pre-determined location and is pictured within figure 01, TTMS Portable Device.

Connected Devices

The following categories of equipment are deployed at an agreed location within the council boundary delivering the following outcomes:

→Pedestrian Vehicular Interaction –

Two devices are attached to the device to provide a detailed overview of pedestrian and vehicle interaction. The vehicle monitoring device provide details on the number of vehicles passing through the monitored area including indicated speed at three specific points:

- Entry Point – speed at point of detection
- Peak Speed – highest recorded speed
- Exit Speed – speed recording on exiting the monitored zone

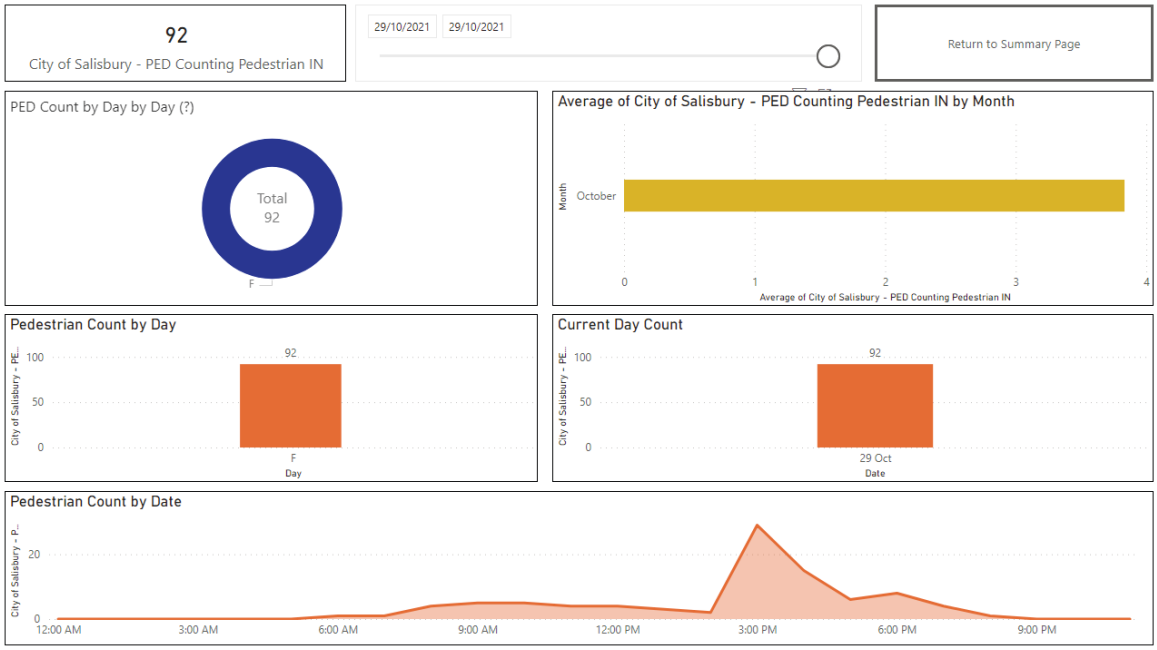
This data is then visualised within TST as per the example below:

Vehicle Count and Speed Data – Broken into Hourly Segments

To understand the number of pedestrians a pedestrian monitoring device is installed in such a location that can indicate the number and direction of movement through the monitored area.

The visualisations below details some of the available reports from the pedestrian monitoring device:

- Pedestrian Data – Broken into Hourly Segments – Total Monitored Period
- Pedestrian Data – Broken into Hourly Segments – Single 24-Hour Period



Pedestrian Data – Broken into Hourly Segments – Total Monitored Period

Pedestrian Data – Broken into Hourly Segments – Single 24-Hour Period

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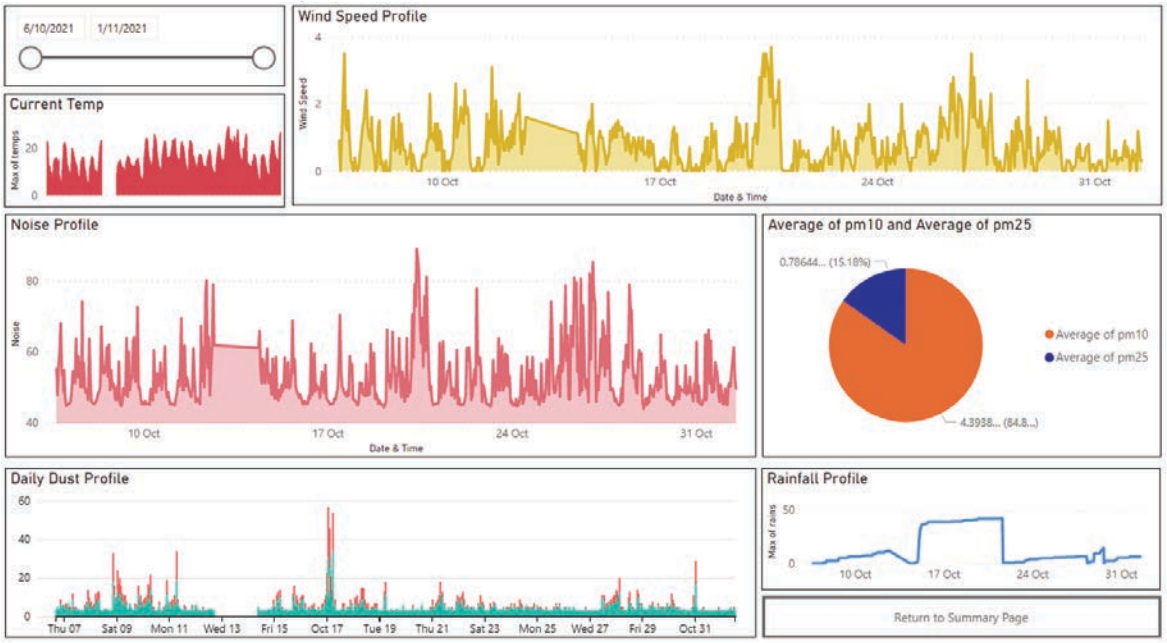
→Environmental Monitoring –

Environmental monitoring is delivered through an industry grade monitor that is solar powered to enable ease of installation. The device records data at configured intervals between 60 seconds and 60 minutes. These data points are detail as follows:

- Wind Speed
- Wind Direction
- PM1.0
- PM2.5
- PM10
- Humidity
- Temperature
- Noise
- Rain in mm
- Pressure



Environmental Data – Broken into Hourly Segments

→Visual Monitoring –

CCTV is provided to match the technical data to actual video taken from site. The camera is designed to be installed with the vehicle and pedestrian monitors to support decision making. The CCTV camera reports directly into the TST application and dependant on requirements can be triggered on event or by time stamps, the CCTV image resides with the system and is displayed as follows:

CCTV Captured Image

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