sprinxtechnologies
spirit of research and innovation

SERVER-BASED AID SOLUTION

TRAFFIX

Sprinx Technologies offers a complete and professional solution for Automatic Incident Detection and Traffic Data Collection. Based on advanced Object Tracking algorithms, Deep Learning, Neural Network and Artificial Intelligence, **TRAFFIX** is a server-side solution that allows reliable detection of incidents and anomalies in traffic flow on critical infrastructures such as highways, tunnels and intersections. Through its web user interface, **TRAFFIX** enables a quick overview of all traffic events and provides comprehensive graphs about traffic data such as vehicle counting and average speed.

TRAFFIC EVENT DETECTION

Based on intelligent image processing, **TRAFFIX** enables to quickly alert operators about incidents and traffic slowdown, to promptly send notifications of events to 3rd party systems (ITS software platforms or Tunnel SCADA) or to VMS platforms to automatically archive video clips of the events.

It detects the following traffic events:

| STOPPED VEHICLE | SLOWDOWN AND CONGESTION/QUEUE | SLOW & FAST VEHICLE | WRONG WAY DRIVER | UNSAFE LANE CHANGE | CLASS DETECTION | ILLEGAL TURN | PEDESTRIAN | SPILLED CARGO | SMOKE / LOSS OF VISIBILITY |

TRAFFIC DATA COLLECTION

TRAFFIX allows the collection of data related to traffic flow. It allows for example municipalities and traffic modelers to get mobility insights regarding distribution, quality and composition of the traffic.
The statistics include:

| VEHICLE COUNTING AND CLASSIFICATION | TRAFFIC DENSITY | AVERAGE SPEED | AVERAGE TIME GAP BETWEEN VEHICLES | AVERAGE DISTANCE BETWEEN VEHICLES | ORIGIN/DESTINATION MATRIX |

Hybrid Traffic Platform

TRAFFIX is more than a standard AID software.
In addition to analyzing images from standard IP cameras (ONVIF Profile S compliant) to detect traffic incidents, it can collect traffic events and data processed by Sprinx Traffic Applications and license plate information from ANPR cameras, becoming a real traffic platform.

Traffic Event Integration

TRAFFIX can send event notifications to third-party systems, using standard protocols, to quickly alert operators and make instant decisions or to start video recording in case of:
• Traffic incidents
• Vehicles carrying hazardous materials
• Vehicle-of-Interest

KEY POINTS
• All-in-one Traffic Platform for AID and ANPR management;
• Easy System and Video Detection settings;
• Built-in video recording feature of traffic events;
• Cloud-Ready dashboard of multiple **TRAFFIX** via Sprinx **DRAGON**;

• Sprinx **TRAFFIX** supports Failover AID servers;
• Field proven video analytics for AID equipped on 6000+ video channels;
• Based on the pioneering 3D object tracking technology and innovative traffic algorithms, nominated for the Intertraffic Innovation Award 2018.